Thesis Dossier ARB301 Project Thesis Cristhy Mattos (BR) The Berlage Center for Advanced Studies in Architecture and Urban Design

# Try It Out

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# Contribution Abstract

Fashion is technological, since the first clothing worn by the early humans, the garments have been developed radically to become efficient and comfortable (quick dry, highly warm, extremely light) to match weatherability.

Up until the last decade, fiber technology and materials science were limited to specialists.

Since then, textile and clothing brands decided to invest in research and development. The lower costs of cutting-edge technology made it possible for independent designers as well as medium and larger companies to create concepts using innovative products. Additionally, there is a new consumer profile opting for environmentally responsible products that reflect their digital lifestyle.

The Try It Out contribution - sited in the Andermatt, a village in the Swiss Alps - proposes a facility for the development of prototyping and testing of the textile performance.

Material research becomes increasingly paramount, as material innovation is one of the main drivers for the fashion industry to tackle environmental challenges. By improving the lifespan of fabrics (duration), creating betterperforming garments (higher value), and revolutionizing production processes (production), this will change how fashion is consumed (consumption).

Fashion is one of the world's largest industries, crisscrossing the globe in a highly intricate supply chain of material sourcing and production for fashion goods, including complex retail, research, and marketing networks. These goods include clothing, footwear, cosmetics, and accessories that range from everyday ready-to-wear and made-to-measure, to elegant bespoke and haute couture.

The fashion industry is also one of the largest contributors to global emissions and waste, contributing up to 10% of global carbon emissions annually. Acknowledging the industry's impact, influential fashion figures have called for change; despite this, little has been curtailed. Marginal improvements have been overshadowed by an overall acceleration of more consumers-in more markets worldwide—purchasing more fashion goods that are disposed more frequently. Voluntary reform has not worked, encouraging new generations of consumers who are catalyzing fashion design brands, fabricators, and suppliers to raise the standard of their business practices, expecting earnest emphasis on environmental circularity through stricter regulation and embracing more diverse body norms and requirements. Juxtaposed against a backdrop in which international apprehensions over globalization are threatening the viability of contemporary economies, the fashion industry must be reimagined.

Today's fashion industry is dominated by four cities that together make up the global "big four" of London, Milan, New York, and Paris. Although most fashion goods are now produced in emerging markets with lower wage costs-including South-east Asia and Eastern Europe the global big four combined is the centerpiece of the industry, hosting week-long fashion events—such as runway shows and trade fairs—that theatrically display designer work and new products. These four annual fashion weeks have an outsized influence on the direction-and style—that upcoming fashion goods will adopt; everything from luxury, designer brands to department store generic brands closely monitor them. The entire global fashion industry–from its production centers to methods of retail and marketing, and the

supply chains that connect them—are optimized to relentlessly grow and accelerate, paving the way for the emergence over the past two decades of fast and ultra-fast fashion, which are defined by exploitative labor conditions in sweatshops and energy-intensive global supply networks worldwide.

Emblematic of this paradigm is the notion of a "fashion house." Originally a private residence-turned-tailor or dressmaker-then atelier and brand headquarters-the fashion house emerged as a singular protagonist and architectural type that propelled the construction and dissemination of fashion goods from its traditional domestic origins into an international industry with complex and far-reaching networks. The spatial organization of the earliest residences-turnedateliers-most notably townhouses of nineteenth and early twentieth century European capital cities-determined the organization for how to make—and retail-garments, resulting in discrete physical separations of seamstresses, tailors, designers, and shopkeepers from one another that underscored their increasingly specialized roles within the entire garment creation process. The brands that have emerged from this model are some of the most influential and continue to shape the course of the entire fashion industry by setting the example for smaller and newer brands. Although no longer pervasive as an architectural setting for the contemporary fashion industry, the domestic legacy is evident most plainly in fashion brands' names and most perniciously in industry-wide company organizations within and between designers, producers, and suppliers that still characterize brands born of the global big four.

The collective project anticipates the spatial implications of a fashion industry that is decentralized and more tightly regulated by reinterpreting the guild house as a model to design a new type of fashion house. The guild house—the administrative center for medieval craft guilds-was a meeting place overlaid on workrooms, treasuries and trade-halls, and libraries where members would establish the rules governing the conditions of their respective trade and additionally provided local citizens with space for celebrations. In particular, the guild houses of the Hanseatic League—a

commercial confederation of guilds and market towns in medieval Northern Europe—were trading posts that stitched together far-flung cities, allowing exchanges of expertise and surplus resources for goods and knowledge they lacked. The guild house, therefore, was both general and specific: it simultaneously occupied a prominent civic presence in the cities it administered and—taken individually was a node in a sprawling selfregulating network. Reconceptualized in the context of the speculated future fashion industry, the guild house offers an architectural model to rethink the fashion house type to once again be the focal point for the fashion industry.

In 2040-in which consumers uphold more conscientious consumption habits-the fashion house will be the conduit that links together international brands and suppliers to collaboratively operate and where industry-wide regulations are developed with—and enacted by-regional authorities. Envisioned within a global paradigm of connected and interdependent regional networks, less frequent and limited production cycles, and environmental sustainability and economic circularity as default, the project establishes and implements the rubric—through the creation of a pattern book—by which the envisioned fashion house is designed in five post-industrial secondcities within Europe-Berlin, Marseille, Rotterdam, Valencia, and Zurich.

Twenty-three contributions explore the architectures and urban designs that result from and sustain the territorial recalibration of the fashion industry within Europe. Sited within the immediate regions surrounding the five cities, these contributions explore themes ranging from enhancement to emancipation, from dignity to desire, to introduce corresponding regulatory certifications that maintain the variegated modes of production that each contribution advocates. As a whole, the certifications developed by the contributions and in the design of the five fashion house locations provide the framework within which an alternate European fashion industry is imagined, addressing topics such as reindustrialization, regulation, selfsufficiency, and life cycle.

Fashion House is a collective architectural project that anticipates an alternative future for the fashion industry in five emerging fashion centers in and around Berlin, Marseille, Rotterdam, Valencia, and Zurich. These five cities—each the focal point of formerly post-industrialized regions that are undergoing shifts toward creative and service industriesform the Red Thread, an imagined discontinuous urban corridor that encourages intercity exchange of products, services, and expertise to collaboratively introduce a paradigm shift away from the traditional "big four" global fashion capitals of London, Milan, New York, and Paris which are the exemplars of a global fashion industry laced with untenable practices. ranging from resource over-extraction to exploitative labor practices.

The project explores topics including garments' utility, trend making, and mass-customization to examine the economic, environmental, and cultural implications of a fashion industry that has slowed and contracted as a result of global efforts to regionalize economic networks in response to 2050 climate goals. In particular, the European Union's climate-neutral goals for 2050-made possible by the implementation of its "Made in Europe" by 2030 framework-establish the backdrop in which this project is situated. Fashion House establishes a pan-European cooperative and regulatory body-entitled Fashion House-that intensifies regional production and reinforces conscientious consumption patterns within the Red Thread and beyond by granting certifications to products and businesses and by providing consultancy and industry services to smaller-scale regional designers, producers, and suppliers via membership.

The certifications—a combination of universal certifications, that dictate bare-minimum requirements for participation within the Red Thread network, and discretionary certifications, that certify specific processes and products for brands that surpass universal requirements—establish a single baseline standard across the Red Thread. These standards include extended garment lifespan through commonplace repair and recycling infrastructures,

only made-to-order production in a seasonless and limited production calendar at close-to-home fabrication sites, and harnessing fully-automated technologies and expert hand-craft in specialized facilities to improve quality standards and discontinue sizing standardization.

In each city within the Red Thread, Fashion House operates a physical location-modeled after, and reinterpreting the medieval guild house-that provides small batch and prototyping services, workshops, and gathering spaces for regional members alongside the certification and administrative facilities necessary to operate the cooperative. Like the guild house before it-and in contrast to the contemporary fashion brand headquarters-each location is designed as a place where all constituents within the fashion industry congregate to exchange expertise, eliminating the binary distinctions of production and consumption by overlapping the "workshop" with the "showroom." In this new model, the fashion house is relieved of its retail functions-which is now conducted only on digital platforms-emphasizing a shift away from the point-of-sale as the defining moment of a garment's life.

Each Fashion House location is designed to contextually implement the design principles, guidelines, and standards of the Pattern Book, a set of manuals conceptualized to establish a consistent vocabulary for Fashion House—from architectural detailing and programming to daily operations and letterhead design. Divided into four primary chapters—Design & Implementation, Certifications, Governance & Operations, and Red Thread Atlas—the Pattern Book is the template for Fashion House, ensuring that—like the guild house before it—each Fashion House location simultaneously maintains universal standards and context-specific character

Through the research and design of the Pattern Book, five Fashion House locations, and twenty-three contributions, the project anticipates that decentralized economic networks will span across national borders—led by joint efforts from cities and regions—to become instrumental in delivering a fashion industry that

operates within the ecological limits set by a slowed global economy. Paradigm shifts including the quality in a wardrobe becoming more coveted than its quantity, circular and fullytraceable processes that eliminate new resource extraction, and international infrastructures for textile waste collection and garment-sharing will replace persistent procurement of new garments and refocus the entire process of garment creation—from fabrication to fitting, showcasing and its maintenance—towards its continual alteration from one state to another: initial construction, to repair, to upcycling, to decomposition. From topics ranging from aspiration and authority to fanaticism and fetish. Fashion House explores the spatial implications of a fashion industry that is no longer "fast."

# Propositions

- 1. The future fashion industry must dislocate the trendsetting dominance of the global big four fashion capitals of Paris, New York, Milan and London—that perpetuate practices of resource over-extraction and exploitative labor conditions—by dispersing manufacturing and design centers into interconnected and specialized European regions.
- 2. In 2040, the European fashion industry will achieve self-sufficiency by reconfiguring material sourcing landscapes to altering climate conditions and establishing a circular continental network for collecting and reusing textile waste and other raw materials, thereby eliminating the need for non-renewable resource extraction.
- 3. Shifts in automated and handcraft manufacturing processes—bolstered by re-shored operations, the resurgence of vulnerable craft-trades, and the harnessing of local thriving industries—enable a slower-paced fashion industry to revitalize Europe's emerging fashion hubs—which include Berlin, Zurich, Marseille, Rotterdam and Valencia—toward an economy that emphasizes design and fabrication.
- 4. An interconnected system of waterways and high-speed railways, in addition to commonplace infrastructures of repair, alteration, recycling, and reuse facilities, will create a synergetic collaboration between regions to increase lifespan of products while minimizing carbon emissions.
- 5. Inspired by the role of the medieval guild house as a node within a regulatory network that served as a hub for civic activity, a decentralized fashion industry requires a regulatory body with administrative centers scattered throughout its network to certify small and medium-sized enterprises—ranging from hyper-personalized services to durable, long-lasting production—and provide spaces for regional members to prototype, meet, and showcase innovative industry practices that promote degrowth.

Pattern Book

Fashion House Pattern Book
The Berlage Center for Advanced Studies in Architecture and Urban Design

The Design of the Pattern Book
The Berlage Center for Advanced Studies in Architecture and Urban Design

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I. Introduction

Fashion House is a pan-European cooperative and regulatory body that internalize regulatory and regulatory to dry that internalize regulatory and regulatory and the second patterns within the Red Thread and beyond by granting certifications to products and businesses and by providing considerable and industry and the second products and businesses and by providing considerable and industry and the second patterns with the Red Thread, Fashion House operates a physical location-modeled after, and the second patterns are also as a polysical location-modeled after, and the second patterns are also as a polysical location-modeled after, and patterns are also as a polysical location-modeled after, and patterns are also as a polysical location-modeled after, and patterns are also as a polysical patterns are also as a particular patterns are

I.02 Mission Statement

Fashion is one of the world's largest industries, crisescrossing the globe in a highly hirticate supply chain of material sourcing and production for fashion goods, including complex retail, research, and marketing networks. These goods including complex retail, research, and marketing networks. These goods included cibriling, footwear, cosmetics, and accessories that range from everyday ready-to-wear and made-to-measure, to elegant besports and haute countre.

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reimagined.

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designer work and new products. These four annual fashion weeks have an outsized influence on the direction—and style—that upcoming fashion goods will adopt everything from luxury, designer brands to department store generic brands closely monitor branches and the store generic brands closely monitor with the store generic brands to department store generic brands to department store generic brands to department industry—from its production centers to industry—from its production centers to methods of relating and marketing, and the supply chains that connect them—are optimized to reientiesely grow and accelerate, paving the way for the art of the store of the

In average to the control of the con

We believe that assisting these businesses mitigates the deleterious impacts of the fishion industry on our environment and climate. We-as a regulatory body-promote and grant certifications to committed fashion brands, their producers, suppliers, and distributors that allow them to access the ever-expanding Red Thread network. These certifications guarantee operational transparency

and are foundational to a networkwide commitment towards slow, regionalized production chains to create a network that mutually cooperates to accelerate change.

In partnership with the five pilot cities' regional administrations, Feshion House supports member brands to produce and retail. Importantly, the Fashion House suppositiates members to contribute their expertise and surpluses to support one another throughout the Red Thread.

throughout the Red Thread.
Fashion Hoses is the operational association of the Red Thread, first implemented in five cliefs and their regional territories: Berlin, Marseille, Rotterdam, Valencia, and Zurich Alf tive are post-inclustrial cliefs that have enoughed leading and zurich cliefs that have enoughed leading to the state of the company of of t

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I.03 About Pattern Book

The Pattern Book consists of Four manuals :

Design and Implementation
This manual specifies the principles
and guidelines to design Fashion
House's physical locations throughout
the Red Thread.

Certification
 This manual outlines the certification systems to which members must adhere—and the application processes for prospective members—to operate within the Red Thread and beyond

3. Governance and Operations
This manual drafts the business model
for the execution and operation of the
Fashion House cooperative, its member
services, and regulatory body with
additional guidance for its day-to-day
functioning.

4. The Red Thread Atlas
This manual compiles atlases that
map the supply chain infrastructure,
logistics, and regional production
centers that operate in and around the
Red Thread network.

Four core parameters guide Fashion House. They direct design, operation decisions and certification frameworks destinate how Fashion thouse acts and how to maintain accountability:

1. Natine Now Fashion House acts and how to maintain accountability:

1. Value & enhanced of cardinary and exclusivity, knowledge and cultural monetization, intellectual property, preservation and heritage, branding, and desirability to name only a flew.

2. Duration

Duration is evident throughout a product's life span, ownership or renal, reasie and repair, seasonal collections and editions, among others.

3. Production

Production occurs not only in material responsibility and innovation, provenience, re- and upcycling, but also House such as window displays, facade elements and other attributes within each city.

4. Consumption

Consumption underlies all forms of pricing, bespoke and mass-customization, mediation, advertisement, and customer experience ranging from in-store desirability and innovation, and underlies all forms of pricing, bespoke and mass-customization, mediation, advertisement, and customer experience ranging from in-store desirability and innovation.

LOS
Terms of Agreement

The Hanseatic League was a medieval commercial and defensive confederation of merchant guilds and market towns of mainly North German merchants, that existed between the Twelfah and Seventeenthe Centrules, the aim of which was to sensure the safety of traveling merchants, and to represent common economic interests, sepecially in markets external to the league. The Hanseatic League heavily influenced economic, political, and cultural development. This league yea has esent today in architectural patternal across former member clief send towns. Hanseatic League (German: Hanse) An intermodal container, commonly referred to as a shipping or cargo container, is a large standardized shipping container designed and built for intermodal freight transport, meaning that these containers can be used across different modes of transport, from ship, to rail, to truck, without unloading and reloading their cargo. Relating or restricted to a particular area or one's neighborhood. Long ton (mass: 2.240 pounds) The long ton is an imperial measurement of weight defined as 2,240 pounds. Causing or resulting in only a relatively small net release of carbon dioxide into the atmosphere. Low Carbon 2030 was the target year of the "Made in Europe" policy initiative by European Union governmental bodies to shift all industries toward regionalization of production and consumption, environmental and social sustainability, and adoption of circular economy procedures. The target goals of these initiatives were successfully met by 2030. Metric ton (mass: 1000 kilograms) The metric ton, or tonne, is a unit of mass defined as 1,000 kilograms. Relating to a town or district or its governing body. A form of offshoring, for a business to establish part of their production process outside of the country in which the business is domiciled, and in a country that is relatively nearby. It usually takes place in bordering countries. Nearshoring A target of completely negating the amount of greenhouse gasses produced by human activity, to be achieved by reducing emissions and implementing method of absorbing carbon disolder from the atmosphere. Nex-zero is not carbon neutrality, which refers to balancing out the negative environmental consequences of carbon emissions through compensatory measures. Not-Collected (recycling) Garments which are not collected for fiber-to-fiber recycling, and therefore, entry into the circular economy recycling process, due to material or construction ineliability. For a business to establish a part of their production process outside of the country in which the business is derivided. The ordinator developes may or may not be owned by, or be a subsidiary of, the business.

For instance, Talwaness semiconductor manufacturer TSMC may offshore part of their microchip manufacturing process by establishing a chip manufacturing plant in the United States of America. Polycentric law is a theoretical legal structure in which "providers" of legal syster compete or overlap in a given jurisdiction, as opposed to monopolistic statutory law according to which there is a sole provider of law for each jurisdiction.

Post-consumer waste is a waste type produced by the end consumer of a materi stream; that is, where the waste-producing use did not involve the production of another product. Depending on the type of waste and the action taken by the consumer, post-consumer waste is recycled, sent to a landfill, or incinerated. Poet-consumar Wasta Derived from Alain Touraine's theory of a post-industrial society, a post-indu city is a city in which the service sector of the economy, generates more we than the manufacturing sector of the economy. This transition from one don sector to the next is accompanied by widespread and deep societal restruct often through economic stratification changes, city district and neighborhoo gentrification and decline. Post-industrial city Provincial Of or concerning the regions outside the capital city of a country. Register ton (volume: 100 cubic feet) The register ton is used to measure the volumetric capacity of ships defined as 100 cubic feet (2.8 m3). Relating to or characteristic of a region. A regulatory body is a public organization or government agency that is responsible for establishing and strengthening standards and ensuring consistent compliance with firm. Unrous regulatory bodies overest different sectors of the economy and public Itle, including transportation, education, and the sale of food - Impose requirements, conditions, and restrictions on businesses and organizations. 1-Parti, Issue, and revies standards. - Conducting inspections and audits. Regulatory Body The act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values. Rehabilitation Repair of garments is rather self-explanatory, and includes mending tears, replacing tost buttons, stitiching loose seams, darning or patching tears and holes on clothes, and replacing spott ippers and stacked elastics.

The earlier one repairs damage, the more one avoids continued damage, and later increased time and effort for repair. Repair (garments) For a business to establish in its domicile country, a part of their production process that was formerly established in another country, and the production process that was formerly established in another country. The production is formerly offshored manufacturing by shutting down some or all plants abroad, and re-establishing those sepects in Talvan.

Secondary cities are urban centers that typically, but don't necessarily have to, follow after the largest cities in their respective countries in terms of population, and which provide critical support services for governance, infrastructural, production, financial, and other functional areas. Several secondary cities are former industrial centers—as a result of national-level economic treats—which heavily distinguishes their commonprosty socio-commic character retriestable. But the production is a secondary city that, while nearly doubling the next largest German City in population, and while having the seat of the German federal government, mostly functions as a support city towards the financial capital of Frankfurt, the technologies innovation hub of Munich, or the automotive center of Stuttgart. 19

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 Cooperation Among Cooperatives
 Cooperatives serve their members most effectively and strengthen the cooperative moments by working together through local, national, regional cooperative moments by working together through local, national, regional cooperatives. For an individual or group to be required or expected to justify their actions or decisions. In other words, for that individual or group to be morally or legally responsible. Adaptive-Reuse The process of reusing an existing building for a purpose other than which it was originally built or designed for. It is also known as recycling and conversion. Alteration is a change made in fitting a garment, such as the lengthening of a sleeve, or the tightening of a waist belt. Covenant of Mayors The Covenant of Mayors is a European cooperation movement involving local and regional authorities, launched by the European Commission to support the efforts of the EU climate and energy package of 2008. Signatories of the Covena of Mayors voluntarily commit to increasing energy efficiency and the use of renewable energy sources on their territories. Carrying Capacity (environmental) The carrying capacity of an environment is the maximum population size of a biological species that can be sustained by that specific environment, given the food, habitat, water, and other resources available. The degree to which a system or machine is efficient, is how much it maximizes productivity while minimizing wasted effort or expense. The degree to which a person is efficienct, is how much they can work in a well-organized and compet way. Efficiency Certification is the action or process of providing someone or something with an official document attesting to a status or level of achievement. The process of certification is performed by a certification body or certification, standard third-party, internal control is called finst-party verification. The granting or denial or certification is the certification decision. The documents making or depital, which attests to certification can also be referred to as a certification. Certification (the Process & Docume The avoidance of the depletion of natural resources in order to maintain an ecological balance. Environmental Sustainability A label or symbol indicating that compliance with standards has been verified. Use of the label is usually controlled by the certification body. Where certification bodies certify against their own specific standards, the label can be owned by the certification body. Certification Label Environmental sustainability European carbon neutrality 2050 This is a stated goal of the European Green Deal. There is a built-in interim goal of a fifty to fifty-five percent reduction of greenhouse gas emissions by 2030. European Committee of the Regions The European Union's assembly of local and regional representatives that provides sub-national authorities (ite. regions, counties, provinces, municipalities and cities) with a direct voice within the EU's institutional framework. Established in 1984, the CoR was set up to address two main issues. First, about three quarters of EU legislation is implemented at Iocal or regional revel, so local and regional representatives need to have a say in the development of new EU laws. Second, here were concerns about a videning upps between the public and the process of European integration; involving the elected level of government closest to the clicities was one way of closing the gap. A circular economy is a model of production and consumption, in which the value of products, materials and resources is maintained in the economy for as long as possible, and the peneration of waste is minimized. A circular economy involves sharing, lessing, resuling, repairing, refurbishing, and recycling existing materials and products for as long as possible, all to resist contributing to climate change, biodiversity loss, waste, and pollution. This stands in contrast to the traditional linear economic model. Circular Economy Garments which are collected for fiber-to-fiber recycling, and therefore, entry into the circular economy recycling process. The European Green Deal is a set of policy initiatives by the European Commission to make the European Union climate neutral by 250. An interim goal of fifty to the prices rependences gas emission reduction from 1960 to 2030 was met.

Economic growth decoupled from resource use. European Green Deal A confederation labe become as confederacy or leagues is a union of sovereign groups or calles united for purposes of common action. There is no one significant definition, but only a series of precedents from history, such as the Hamsent. League, or the European Union, which establish certain consistent patterns. The member states of a confederation retain their sovereignty and some degree of autonomy. The control authority is relatively week, or mon-existent. Confederation Expeditious Done with efficiency and speed. Fast fashion is a fashion industry business model of replicating recent catwalk trends and high-fashion designs, mass-producing them at a low cost, and bringing over the control of the cost of the c Cooperative (Business Model) Democratic Member Control
 One member; one vote.
 Members elect a board of directors
 Members elect a board of directors
 Members elect a board of directors
 Members (and the second sec Fiber-to-Fiber Recycling A recycling system which turns textile waste into new fibers, that are then used to create new clothes or other textile products. Fiber-to-fiber recycling limited by the collection, sorting, and preprocessing production limitations. Guild Guilds are an association of people with similar interests or pursuits.

The act or process of accurately depicting the form, features, and character of a property as it appeared at a particular period of time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period. The limited and sensitive upgrading of mechanical, electrical, and planning systems and other code-required work tim make properties electrical, and planning systems and other code-required work to make properties allow for the depiction of a building at a particular time in its history by preserving materials, features, finishes, and spaces from its period of significance and removing those from other periods.

Shipping ton (volume: 1.1—1.2 cubic meters)

A shipping ton, freight ton, measurement ton, or ocean ton is a measure of volume used for shipments of freight in large vehicles, trains or ships. In the United States of America, it is equivalent to 40 cubic feet (1.1 m3) while in the United Kingdom, it is 42 cubic feet (1.2 m3).

Short ton (mass: 2,000 pounds)

The short ton is an imperial measurement of weight defined as 2,000 pounds.

SMEs - Small & Medium-sized Enterprises

European Commission - SME Definition as per European recommendation 2003/361.

SMEs face fewer requirements or reduced fees for EU administrative compliance.

The main factors determining whether an enterprise is an SME are 1. staff headcount 2. either turnover or balance sheet total.

Company Category	Company Category	Company Category	Or	Company Category
Medium-sized	< 250	≤ euros 50 m		≤ euros 43 m
Small	< 50	≤ euros 10 m		≤ euros 10 m
Micro	< 10	≤ euros 2 m		≤ euros 2 m

A steady-state economy is an economy structured to balance growth with environmental integrity. A steady-state economy seeks to find an equilibrium between production growth and population growth. In a steady state econor the population would be stable with birth rates closely matching death rates production rates similarly matching the depreciation or consumption of good

The capacity to maintain or improve the state and availability of des or conditions over the long term.

The metric measuring the ability to trace all processes from procurement of raw materials to production, consumption, and disposal, to clarify when and where the product was produced by whom.

Transparency (Products & Services)

Twenty-foot equivalent unit (TEU)

An inexact unit of cargo capacity, often used for container ships and contain ports, and based on the volume of a twenty-foot-long intermodal container. Container heights are not standardized, leading to unit inexactitude.

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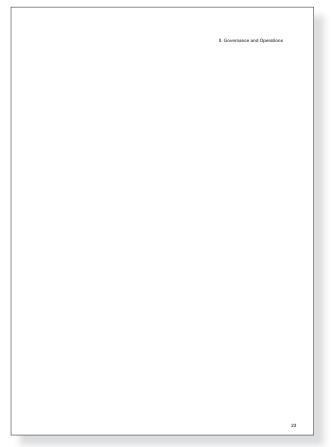
Universal certifications (Fashion House)

Universal certifications are the certifications that specify the requirements that ex-current and new Fashion House member must follow. These requirements ensur-mentaries from the 200 months of the contract of the 200 months o

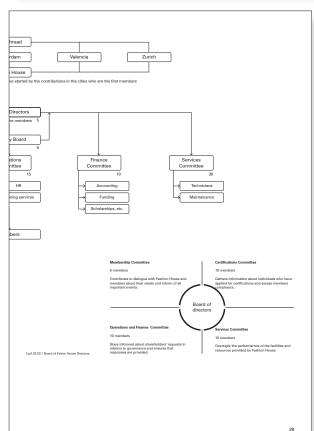
Upcycling

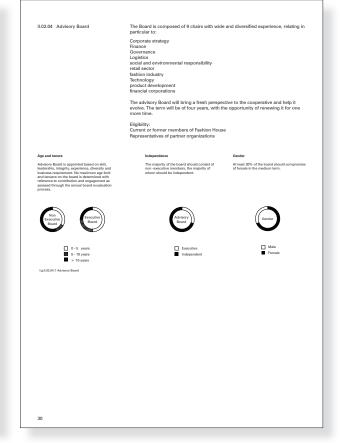
Vegan leather is any leather alternative that is not made from the skin of animals, and which may include stricter requirements against the inclusion of animal products in specific or every part of the manufacturing process.

The wide range of leather alternatives currently includes plastice-based leather alternatives that may be improperly disposed of, and contribute to plastic and microplestic pollution. Vegan leathers based on plant materials may biodegrade.

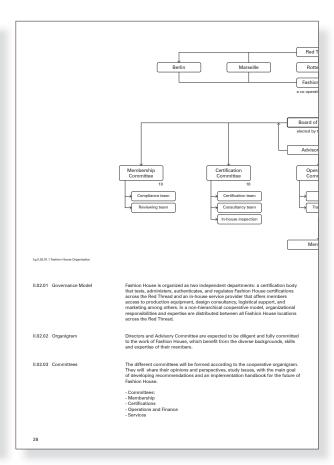




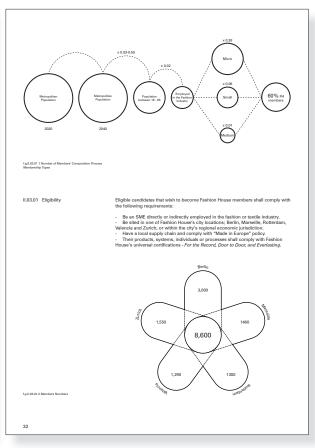








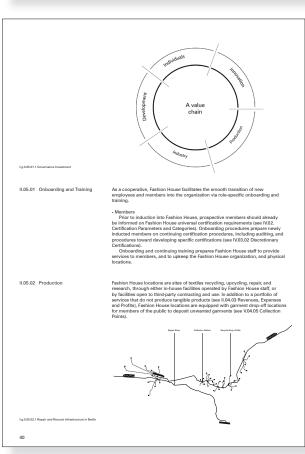




Fashion House Management is organized through the cooperative programment is the second of the cooperative programment is a business where benefits are distributed equitably among its members.

Fashion House Role and Responsibilities

Fashion House strives to create best practices with local brands, producers and platforms, framed by the highest environmental and social standards.



II.04.01 Investment Policy (taxes, incentives, etc)

Fashion House is initially funded by municipal grants in the form of non-reinbursable investments. The municipalities in which it is established are emerging creative industries that seek to sterengthen and position the fashion and textile sector as one of its main contributors to their economy. Once established, fashion floace with run as a privately owned cooperative whose business model is challenged to the company of the contribution floace runs with a minimum of 10,000,000,000 euros for its operational annual expenses.

Membership fees are divided in three types, S, M and L. The S type has a cost of 4,000 euros per year and only gives access to universal certifications. The Mype cost is 4,500 euros per year thy type memberships include universal and specific certifications, access to Fashion House's services services - workshops and training spaces—and Fashion House's members network. The Lype has an annual cost of 8,000 euros and gives fully and unlimited access to all Fashion House's services including constitution;

Fashion House is established under the premise of degrowth, speculating that the fashion and textile market will slow down and shrink until full circularly is achieved. Accordingly, members are inlined to a fixed quantity of 5,000 members distributed throughout the five participating cities. However, during the first five years of its establishment, Fashion those considere possible expansions to nearbitles to the field Thread network in this case, the number of members will be recalculated in elaboration to he near before population and excile industry market.

	Salamana da anta d Falamana 4,000 Giyear	4,800 6/year	L Factor Plane galler pare; el ser serbiene ellotteta. 8,400 €/year
Universal Certifications	/	/	/
Bring up to 3 guests at a time to your local FH	/	/	/
Specific Ceriffueison		/	/
Bring up to 2 guests at a time to all tearubes of FH		/	/
Access to FH workshops, and balling spaces		/	/
Regular events in any FH or related bosolions		/	/
Connect with other FH members worldwide through our app		/	
PH consultancy services			7

II.04.02 Employees (different committees, policy of employment, diversity, etc)

Fashion House substantiates the principles laid out by its baseline universal certifications, and supports the economy of the Red Thread city region, by, whenever economically or logistically feasible, sourceinj internal staff and contracting entities, and equipment and operational material procurement, from within city region economic jurisdictions.

Fashion House employment policies operate under the following standards and principles:
- Fashion House does not employ anyone underage.
- We operate under a safe, healthy and respectful environment where everybody has equal opportunibles regardless of gender, ethnicity, age, physical appearance, ability, illness, and political religious or sexual orientation.
- Any physical, sexual, specifological or verbal harrament or abuse towards
- Gender equality and diversity is promoted among employees, partners and suppliers.

suppliers.

We offer training programs that range from the use of the facility and its equipment to social and environmental sustainable practices.

Our supply chain is highly monitored to secure working conditions that comply with the standards here mentioned.
Fashion House implements the four-day worktweek where employees only work for 32 hours a week and have three days off.
We encourage workers to avoid overtime. However overtime is voluntary and paid, and it shall comply with the permitted hours stated in the laws and regulations of seat hourstry.
We promote remote work. Workers can work remotely three to five days a week, therefor festible vordispases are implemented.
We have the seat of the Fashion House operates through a membership business model in which its net sales are distributed in three main areas, taxes and amortization, operational expenses and profit. Taxes and amortization represent y percent of the net sales. The operational expenses include personnel expenses - suages, stailers, and social contributions - administrative expenses, maintenance, repair and utilities, and funding for the Equity Road foundation stated in Maincals.

It is a support of the contributions of the support of t II.04.03 Revenues, Expenses and Profits

Fashion Notice is a service-providing husiness. It provides services to its members primarily at its physical locations throughout the Red Thesa. In addition to the core portfolio of services offered at each Fashion House location, there are services unique to one or more locations, referred to as Flex programs (see VO4.08.2 8 Appendix).

- Consultancy Fashion I Nuss provides consultancy services to regional fashion industry micro- to These include satisful the enterprises. These include satisful the enterprise in applying for and following local, regional, and state-level financial programs, private funding programs, and bureaucratic and legal procedures.

-Llaison
Fashion House offers intermediary services between an enterprise client and
Fashion House location municipal governmental agencies and departments, in
matters concerning municipal business regulation, law, and financial incentive
programs.

-Production Workshops Fashion House locations offer production workshop spaces for clients and members to use. Woodworking and metalworking workshops are offered at each Fashion House location.

II.05.04 Ethical Position On Sustainability

Fashion House considers carbon neutrality as an upright objective from a consequentialist standpoint. Carbon neutrality is a means toward a more livable wordt, as it inherently decreases carbon emissions, the main driver of climate change, which directly increases the likelihood of climatic conditions and disaster which threaten all life on the planet currently living, and all life yet to come into being. The extent to which processes get closer to achieving carbon neutrality, the more upright those processes are.

Tangibly, adherence to standard operating procedures which are economic circular as default, and which uphold carbon neutrality as much as possible, is considered upright behavior.

II.05.05 Commitment to Customers & Membersand Members

Fashion House commits to delivering a mutually satisfactory exchange of goods and services between the organization and its in-house members and external outsomers. This is to maintain the good reputation of the organization among its target demographic of micro- to medium-sized enterprises, which cannot financially bear to pay for and receive a less-thm-satisfactory service.

Fashion House physical showroom and digital client relations staff are all train in Fashion House sustainability principles (see 105.04 Entical Position On 105.04 Entical Position On They are always prepared to help inform our clients about these sustainability principles and practices across multiple platforms, all to encourage industry-wide carbon neutrality adoption.

II.05.06 Environmental Sustainability Fashion Husse organizational policies, whether in logistics, procurrent, construction, production and more, past for earbon entailty wherever francially or logistically feesible, and then economic circularly as a fall-back default. Fashion House performs cortico emissions calculus on all these derivermentioned processes as part of standard operating procedure, which involves materials and financial auditing of several internal and external service providers, including any third-party logistics services (for example, procurement outside of the Red Thread and/or Firmmean Union). Carbon neutrality is achieved through groups of processes which, on-balance, reduce as many carbon emissions as emitted. Carbon reducing processes can be used to offset the emissions of another process. 1 Ø. - - - - - -The amount of plants without a coloring source with your transformation of the coloring plants around to the transformation of the coloring plants around to the transformation of the coloring plants are COLORING TO T If the activations of plants purchase server adopted and activat up, justicing to expense of course, adopted, alternation materials, the asparance; and expense plants ( the annual of plants were administrated drug to the radius server per part by delife.) Fashion House organizational policies, whether in logistics, procurement, construction, production, and more, operate in economic circularity as default, as required by European Union business law. This means that any raw materials consumed in any of the aforementioned processes lose as little of their value as possible during consumption, and Fashion House produced tense are designed to be durable and long-leating. Economic circularity is verified through the materials and financial auditing of all aforementioned processes. II.05.07 Economic Circularity MADE IN EUROPE increase the number and attractive ness of jobs Reinforce Europe's manufacturing industries' global position Secure the environmental, economic and social sustainability **⑤** EFFRA 42

II.05.08 Transport

Fashion House transport of employees and members for organizational matters, no matter the distance required to travel, shall prefer passenger trains, including public or private services, and including high-speed, intercity, commuter, and light rail.

Fashion House is intentionally sited within four-hundred meters of multiple public transportation stops or stations, including bus and light rail stops, and metro and long-distance rail stations.

Fashion House encourages its staff, and visiting clients and members, to use human-pedal or electric bleveles to commute to Fashion House locations. Fashion blouse, per location, designs and installs bike parties stands in-excess of staff and visitor capacity, electric bike charging stations, and hydrogen-fuel pumps.

Fashion House's offices and administration services are open from 9:00 to 14:00, Monday to Thursday. We work under a 32 hour week four times a week.

III.01 Fashion House Certifications

Fashion House is a regulatory body that grants certifications to products and businesses to ensure the interest of the control of the control

establish a shight Userian surround across the Red Thread.

Certifications are given to a wide gamust of brand's products, services, processes, and individuals services, processes, and individuals with the European Commission's framework for certification types. From individual cardspeople to fully-automated manufacturing the techniques, and garments' utility chic certifications simultaneously establish benchmark standards for fashion goods and stipulate spatial requirements in which the fashion goods and stipulate spatial requirements in which the fashion goods and stipulate spatial requirements in which the fashion goods and stipulate spatial requirements in which the fashion in goods are made, retailed, used, or reprocessed. Each physical full-lime in-house certification committee that maintains a detailed record of their respective members' certification data and compliance status.

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III.02 Certification Parameters and Categories

Fashion House Certifications integrate Fashion House's four key parameters—production, consumption, value, and duration—to champion global paradigms of connected and interdependent regional networks, less request and infilled production cycles, with the control of the control

throughout the tasmon insulary.

Production
The shift from mass-produced to made-to-measure garments shall focus made-to-measure garments shall focus how, hype-personalization, and inhouse production to emphasize quality over quantity, while, at the same time, addressing the environmental impact of products and services to establish fully traceable manufacturing processes.

traceable manufacturing processes.

Consumption
In response to capped regionalized
production within a digitalized and
image-based society, consumption
of products and services will be
inextricably embedded with notions
of data prives, techniques of
of data prives, techniques of
of services will be
inextricably embedded with notions
of services with notions
of services and services will be
fashion industry, alternative spaces
or self-expression and unique
experiences, and shall reimagine
traditional practices that emphasize
environmental circularity.

Value

- Value

Less frequent and capped production—

In addition to more conscientious

consumption patterns, restricted use
of synthetic textiles, and limited new

resource extraction—shall prioritize

sourcing alternative virgin materials

that are environmentally replenishable,
focusing on gramment quality out that

resources in the fashion industry.

resources in the fashion industry.

Duration
The lifespan of gaments and
textiles shall be extended through
commonplace repair and recycling,
and garment sharing infrastructures,
incorporating post-consumer waste
as new resource in the fashion and
bailding industries, and reframing
material waster—to be worthy to use in
new fashion goods.

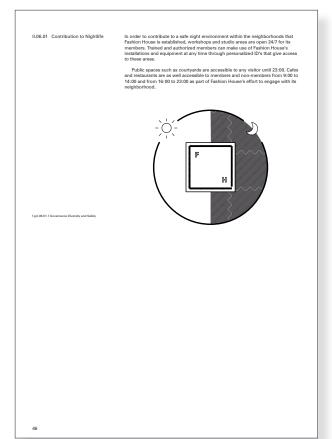
Certifications are classified according to the European Commission's defined categorization for certification framework and types:

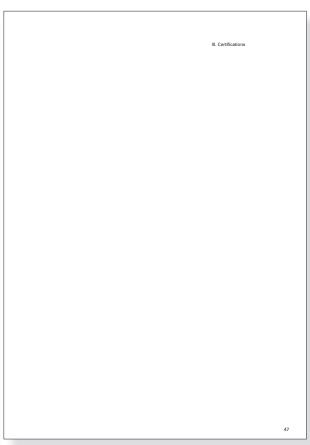
Products or Services
 Certifying a product or service
that meets specific predetermined
requirements that enable their lifespans
to be extended.

Processes or Systems
Certifying a series of procedures that a brand or a company adopts that are interconnected and meet certain quality requirements that contribute to limited quality-focused production and consumption

. Individuals
Certifying that an individual has
amassed—over a set of stipulated
length of time—extraordinary
knowledge, skills, and expertise that
surpass the industry standard or
are proprietary to a specific brand,
product, or tradition that demonstrate
the potential to elevate established
standards in the fashion industry.

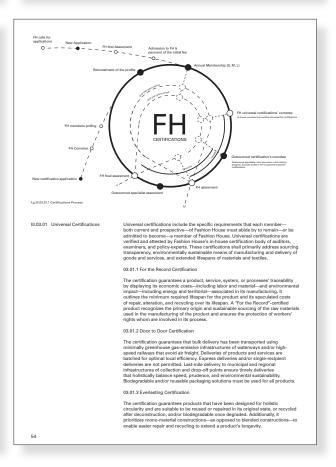
FHCs are granted to recognize brands, companies, or people who have evidently contributed to the fashion industry by adopting responsible and innovative methods of production, shifting patterns of consumption, recentering value in regional know-how, and ensuring extended duration of fashion goods.





Fashion House provides two different types of certifications:

1. Universal Certifications
2. Discretionary Certifications





III.03.02 Discretionary Certifications

Discretionary certifications are specific certifications whose criteria exceed the baseline universal certifications that are developed in collaboration with Fashion House members who limento roles the standards of their products or services to give themselves a competitive edge within the fashion industry. To certify discretionary certifications—whose requirements often incorporate professional experties, resources, or authorizations outside fashion House's qualifications—Fashion House infere external specialists with sophisticated nowledge and expertise of the product, service, or process to verify their compliance with Fashion House Incitation standards.

Tde FH Discretionary Certifications Category: Consumption

03.02.01. Classified Certification

The certification guarantees a mono-directional spatial organization that eliminates double encounters and ensures client anonymity while acquiring a product.

double encounters and ensures client anonymity while acquiring a product, process or service. The certification has three spatial requirements. Each space must have at least two access points to separate entry and exit. Spaces must be organized as an enfliade in which each space is only entered once and exited in succeeding order in the event of multiple possible exit routes, the separating trientabled and/or door must remain ambiguously marked to preserve the anonymity of the succeeding spaces.

spaces.

The certification addresses consumption of hyper-personalized fashion goods and services that require a consumer's privacy to be secured. Therefore, this certification provides fashion brands who explicitly address notions of, or handle products, that wrestle with shame, embarrassment, or guilt with an ideal strategy to quarantee their cliented's privace.

External FH Consultant: A spatial-patenting expert

03.02.02. Growing-the-Scene Certification

The certification quarantees locations that are well-suited to, and fulfill the spatial requirements, to host spectacular events. Locations must be unique, locolic, timeless, and embody extraordinary experiences.

Prospective locations must adhere to the following parameters and will be determined relative to its speculated impact within the urban fabric. The entrance must not only be a threshold but be holistically incorporated into the experience must not only be a threshold but be holistically incorporated into the experience must not only be a threshold but be tholistically incorporated into the experience must be prospective location orfers. On the premises, enclosed spaces with limited access for members and collaborations that are designed to ment in problems and continued in the provided. There must be one extraordinary architectural more than the provided them are the provided in the prov

03.02.03. Know-lt-All Certification

The certification quarantees professionals that have concurrently achieved handicrafts skills competency in at least five distinct fashion artisanal disciplina-toward becoming increasingly generalist professionals. Individual competencies can be attested by professional auditors representing disparate business entities including vocational schools, manufacturers, and discipline-specific organizations, associations, unions, or federations. The minimum five competencies must be evaluated within one examination space within a three-month timespan, upon completion of the first competency. The examination spaces must be appropriately outtitted with necessary equipment, machinesy, materials, tools, furnishings, and other learns that the proposition of the propriate challenge and rigor to determine the knowledge and understanding of handicrafts skills necessary to work at a high level.

tests that are, per discipine, or spanyor...

knowledge and understanding of handicrafts skills necessary to work at a nigni level.

The "certification advocates the training and proliferation of professionally autonomous generalist artisans in the fishion industry. These professionally generalist artisans are best stude to revitailize regional legacles or reinforce emerging handicraft industries through individual manufacturing capacity, and the dissemination of skills and knowledge through mentoship and product sales.

External FH Consultant: A professor with an expertise in generalization

# 03.02.09. Savoir-Faire Certification

OBJOZIOS. Sevoit-Faire Certification
The certification guarantees products that have been crafted in strict accordance to local traditional techniques by brands or individuals in workshops that are similarly authentically organized and/or supplied a othat the product and its associated know-how are persetuated to new generations.
Certified products shall be required to be made at premises that have learning and/or study spaces for apprentices to practice, and shall be flexible elementation spaces and the study spaces for apprentices to practice, and shall be flexible elementation spaces shall be designed—by including promerades, balconies, or theater seating to name a few examples—to allow students, apprentices, and the peneral public to easily observe the certified products\* amunificativing reconst to promote its dissemination and continuation.

With the create of fully-automated manuals and the office obsoletions therefore becoming more highly-acought after as louvry learns that stimulate downstram general-production processes to adopt traditional schriques that are by virtue slower, less wasteful, and rocted in crafted quality.

03.02.10. Made-from-Scratch Certification

The certification guarantees modifished digital mannequins that are used to exhibit products on online platforms. A certified mannequin shall use anonymously-collected user adds to generate usunbinady presentations of fashion goods in an exclusive and secure manner.

The production of the production

External FH Consultant: A data analyst

FH Certification Category : Value 03.02.11. Good-as-New Certification

G302.11. Good-sa-New Certification
The certification guarantees the cleaning process for resold or rested fashion goods to meet quality, selfey, and sanitation standards that require no traces of any hazardous materiation or contaminants, and are processed using only soc-friendly cleaning products and energy-efficient equipment.

Certified fashion goods shall undergo a rigorous process—or a editorial contamination of the product of the contamination of the contamination of the contamination of the cleaning, goods shall be carefully examined for quality control and prepared for cleaning, goods shall be carefully examined the quality control and prepared for elicients of the contamination of the

External FH Consultant: A laundry technician

03.02.12. Made-to-Last Certification

G3.02.12. Made-to-Last Certification
The certification guarantees products that have been manufactured with meticulous tailoring techniques that are made with highly durable raw materials, and are designed to seamlessly be continually repaired, alterated, and updated over an individual's working career.

Tailored alteration shall be conducted in bund-run or brand-approved and the continual programment component substitution or renewal. These attellers shall be furnished with all requisite equipment and work rares for simpler or extensive alterations, and shall be hospitably designed to host networking events for working professionals.

Products designed to be continually redesigned mirror industry-wide revaluing high-quality hand-raft. By establishing tileong relationships with the gramments—on matter how frequent or extensive his renovation—consumers will personalize their wardrobes and be more self-responsible for its proper care and maintenance.

External FH Consultant: A tailor

0.30.2.13. With Love Certification

The certification guarantees garments that have been carefully repaired and customized by the local repair experts, customers, and qualified robots. Garmens' lifespars must be prolonged and visible repairing alteration to their appearance—Trough examples such as stitching, daming, or needle felting—or visible transformation and upgrading—such as resizing, remaking, redecorating, or received felting—or visible transformation and upgrading—such as resizing, remaking, redecorating, or received felting—or visible transformation and upgrading—such as resizing, remaking, redecorating, or received felting—or visible transformation and upgrading—such as resizing, remaking, redecorating, or different settings and/or scales of repair and alteration, distinct requirements shall be mandated for certification, At 10-90 or express repair stations, robotic scanning and inspection machines shall be required at the stations' terminus to examine garments before they are rep-packaged and available for pick-up. At 8t-down 'flod tyourself' repair centers, desks and/or vordstations for volunteers shall be provided in place view to encourage friendly exchanges repaired garments have been responsibly mended. At consultancy-based repair and alteration studios, degues as pease shall be provided for inspection officers to undergo quality control reviews and shall be trunished with sufficient digital instructures to register products in Tashalon Houses' falgled latebases and repairs and the provided in place of the providency and the providency of the place of the providency and the providency of the place of the providency and the providency of the place of the providency and the providency of the place of the providency and the providency of the place of the providency and the providency of the place of the providency and the provide

External FH Consultant: A veteran seamstress

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03.02.04. Shameless Certification

The certification guarantees individuals that have fulfilled a three-month residency in which they—in close contact with consumers—have been empowered to rethink fashion and body norms and design, owns and design, owns and design, owns and design, and around a design atelier situated within an enclaved social condenser that is used as teating ground by both design, applied testing, and design referenser. The testing ground shall reside outside overvidual residency must be a sense of the second shall reside outside overvidual residency and the sepacet design on most shall incorporate spaces in which consumers can see and be seen by one another in both normative and subversive spaces and be seen by one another in both normative and subversive spaces in which consumers can see and be seen by one another in the certification stimulates permital reconsiderations of stabion and have consumers and the special stabion industry and its consumers from deep-noted consumption patterns established by fast fashion.

External FH Consultant: A travel and fashion influence

03.02.05. Perfect Match Certification

The certification guarantees ceremonial processes, events, and public functions that—through a carefully constructed protocol that integrates traditional and contemporary regionally-appropriate membdes—see situated in forgotten landscapes for their protection and locational rejuvenation after its completion. Certified ceremonies shall be located in remote, yet not difficult-on-each, venues that have dilipidated or otherwise destabilized natural features. Temporary and/or sensi-permanent event installations shall simultaneously protect landscape features for the duration of the ceremony and—upon its completion—shall contribe the their indicapes continued replacements. Destable shall developed continued adjusted protection of developed contributions of the discaped continued replacements. Destable shall developed contributed and developed contributed to the developed contributed to the developed contributed to the contribution of the developed contributed to the contribution of the ceremon process of the developed contributed to the contribution of the ceremon of the contribution of the contribution of the ceremon of the contribution of the contribution of the ceremon of the

FH Certification Category : Production

03.02.06. Off-the-Shelf Certification

03.02.05. Off-the-Shelf Certification
The certification guarantese brands that exclusively use mono-materials and instantaneous production-processes to create personalized litems. Zero-waste production—a but a additive manufacturing and overall reductions in markerial debris and off-cuts—shall be used by certified brands to make products that can be additive manufacturing and overall reductions in markerial debris and off-cuts—shall be used by certified brands to make products that can be additive manufaction of the shall be added to the shall provide clearly identified pick-up points on the facility's premises for customers such as biometric washing tracks to test foreware. Additionally, brands shall provide clearly identified pick-up points on the facility's premises for customers to retrieve their purchased goods. Storage spaces shall be meant solely for presonalization marketing of the shall be producted. The shall be added to the shall not be used for display or shall be added to the shall be used to the shall be used to the shall provide calculations to the shall be used to the shall be used to the shall be used to the shall provide calculations and the shall be used to the shal

External FH Consultant: A material scientist / researche

03.02.07. On-the-House Certification

Loss. Loss. Considerations contained that have been manufactured without the intention to make profit by requiring products to be made, re-cycled, and re-made in a closed-loop cycle that only uses new material when the recycled stock is too diggraded to be reused.

It requires that the producer implements official trade-in and pickup locations for products so that they can be remade. Additionally—and most especially—this certification requires that the product sharberalons is unlicensed or outsourced and is made at a single location from beginning to admit unusual manufacture of the products are made without compromising its quality or intensit with the certified products are made without compromising its quality or intensity to the control of the products are made under the certified products are made under the certified products and competitive pressures on brands to increase revenues, thereby shifting brands' locate from brands to locate and the products that reflect a shift towards brand loyally becoming the most highly-yield asset.

External FH Consultant: An independent investigation auditor to track monetary flows

03.02.08. Re-Scents Certification

G0.02.08. Re-Scents Certification

The certification guarantees fragrance and perfumery products that recreate natural fragrance smells by combining extracts from organic scents and oils from greenhouse-grown botancies with detailed compounds from food waste into fragrance mix solvents.

The certification requires that all constituent ingredients in a certified fragrance base notes shall be adequately collected, extracted, sampled, and tested in accordance with established stationed or forganicipation and malytical inspection. Carefully monitored botanical greenhouses, dedicated temperature and moisture regulated storage pasces for food waste, and sanitary bilarotations shall be required on the same premises in which the fragrance is produced. Fusing together techniques or material preservation and inventive waste regulated storage places for the diagrance is produced.

Fusing together techniques or material preservation and inventive waste regulated storage in the same premises in which the fragrance is produced.

Fusing together techniques or material preservation and inventive waste regulated storage in the same premises in which the fragrance is produced.

External FH Consultant: A botanical scientist

# 03.02.14. Sweep-Up Certification

G3.02.14. Sweep-Up Certification

The certification pusartenes as far and sanitary method to collect human hair for safekeping or for use to make new personalized products, including hairs-westerns, socks, and wigs.

Collected hair must be kept at hair banks in strict observance of the following regulations: hair must be collected from hair bank-diffillated salons and barbenhops and transported to the hair bank in climate-conditioned packing. Collected hair must be sorted in specifilly-designated areas according to their intended purpose—safekeping or repurposing—and separately washed at designated variety products and strict in the safe of the s

External FH Consultant: A bank executive

03.02.15. Sorted-Out Certification

The certification guarantees textile recycling processes that properly sorts, shreds, and stores textile and post-consumer waste so that it can be seemiesely transformed into new products.

"Sorted Cut' certified recycling facilities shall implement fully-automated sorting equipment and storage spaces that have segregated individual textile and fairless based on a three-parameter criteria—material type, quality/degradation, and color—so that recycled reatiles can have beet "second-use" lifespans. Furthermore equipment to concentrate full-circle textile recycling to single close-to-home locations.

Dispersal services recovered to the contraction of the

locations.

Dispersed, semiautonomous, and fully-automated sorting and recycling facilities will complement progressively increasing volumes of discarded recyclable textiles to fuel public adoption of remade fashion goods.

External FH Consultant: A garment recycling expert

03.02.16. Clothes-the-Loop Certification

vaxv.r. to Loones-the-Loop Lertification. The certification upwarters made-to-order cladding materials that have been manufactured using exclusively locally excused and of-life sorties and fabrics. Certified facilities shall be required to operate and maintain a connected network of textile pick-up locations in its regional vicinity, and shall provide display areas for reprocessed end-of-life textiles and cladding manufacturing areas to reprocessed end-of-life textiles and cladding manufacturing areas to reprocessed end-of-life textiles and cladding manufacturing areas to reprocessed end-of-life textiles and cladding manufacturing reasons the precision of the control of the processed of virgin materials are possible—from reclaimed construction materials instead of virgin materials reprocessed in the processed of virgin materials are source for another industry, light-industrial water-processing-cum-manufacturing plants circumvent was a continuation of the products that one longer be sensibly recycled and celebrate the prolembils of thely closed-top and inserconnected economies.

External FH Consultant: An architect

03.02.17. Nowhere-to-Hide Certification

03.02.17. Nowhere-to-Hide Certification

The certification guarantees breeding, raising, euthanizing, pating, crafting, and retailing practices of animal-origin virgin materials at a single destination that synchronously focuses on product quality and the continued well being of the animal until euthanization all within the animal's natural habitat.

Certified facilities—including farms, ranches, aquariums, and plantations to name a tive swarples—afaili provide detailed reports and study for the brad debahavical training—that is developed in close consultation with zoological and behavical training—that is developed in close consultation with zoological and wildlife researchers and conservationists. The conclusive findings of these reports shall inform the landscape design, preservation, and/or attention of each certified callify aproperty to sensue suitable inhabitation for the animals while also particularly contributing to its locale's blodivestly. All constituent processes—from breeding premises in which the animals have been untainable as of but their provenance can be faithfully recorded. Each certified facility must be clearly delineated from its surroundings using physical separation—such as fences, mosts, or has has barrier—and shall incorporate closed-loop scosystem maintenance infrastructures to record an regulate ecological balances.

and a products—cultivated and crafted at single-address natural landscapes—provide attractive and bespote attenantives to mass-produced virgin-material's fashion goods.

External FH Consultant: An animal biologist with an expertise in ecological balance

03.02.18. End-to-End Certification

G0.02.18. End-to-end Certification

The certification guarantees totallic products that are entirely biodegradable and made using sustainable methods in a fully circular production chain in which supply, design, planning, processing, and packaging are exclusively conducted in a closed-loop system.

Certified products undergo rigorous evaluation to verify provenance, quality, contamination, and performance testing. Certified products shall be producted and products a shall be producted and products and product product products and product products shall be proportionately-sized to exacting standards to produce a predetermined number of products annually, with constituent spaces—that are designated for specific stages or production processes—sized accordingly.

While initiaty only economical for fuzury textities such as site, cashmere, and where, exceedingly strict product and production requirements gives and every cash of the product of the processes of the production processes and contains the product and production requirements give and contains the product and production requirements give and production processes and production production processes and production production

External FH Consultant: A sustainability consultant specializing in tex

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### 03.02.19. As-Found Certification

Os.20.19. As-Found Certification

The certification guarantees organizations and institutions that rehabilitate displated religionations of the desirable locations by forming locally-run luxury biopolar control of the certification of certificati

External FH Consultant: A travel influencer

## 03.02.20. Cult-rated Certification

The certification guarantees digital collectibles and fashion goods that meet superlative standards for quality, authenticity, and uniqueness that make them recognized high-value, low-visk, and exclusive investments.

Certified digital collectibles shall be cached in secure, climate-controlled, and private digital data vaults that can only be accessed by collectible owners. This is to ensure that these collectibles are maintained in mint condition and uncorrupted from outside conditions.

Progressive expansions—and integration—of digital platforms and collectibles with stainlow with challengthe provenance of collectibles and their creative singularities, necessitating both regulatory and incentive-based counternessures—and to a conditional digital marketiples can of tight-desirable counternessures—and to a conditional digital marketiples can of tight-desirable counternessures—and to a conditional digital marketiples can of tight-desirable copyrighting.

External FH Consultant: A product designer specialized in digital technologies

The certification guarantees individuals who have completed the requirements for—and have demonstrated appropriate demeanor to—become independent inspectors and reporters that unbiasedly test and promote fashion goods' performance, quality, and durability before mass-production approval. Certified individuals shall conduct performance testing—and disseminate their inspectors, and the control of the control o

# 03.02.22. Right-to-Replica Certification

The certification guarantees fashion goods that have demonstrably significant merit as heritage assets—both tangible and intangible merit, such as rare antique materials and historically-significant technique, respectively—that can be reproduced as contemporary simulacrums as a method of heritage conservation. To obtain certification, prospective fashion goods shall undeep rojerous evaluation on its technical and material credentials on the basis of its contextual historic importance and its potential to be reproduced. Upon certification, a certified good shall be archived in climate-controlled facilities that—in a single inservation of the controlled facilities that—in a single inservation of the controlled facilities and the controlled facilities that is a single inservation of the controlled facilities that in a single inservation of the controlled facilities that is a s

creation.

Expanding on conventional notions of archiving and knowledge-preservation, reproduction-based archival methods ensure that historically-significating armers and fashion goods are not relatives to solely as artifacts, but maintain inherent qualities of utility and self-expression because they are once-more wom in everyday scenarios.

### 03.02.23 Beady-to-Grow Certification

The certification guarantees individuals who have sufficiently completed the requirements to own and operate wool textile production facilities—including, but not limited to, sheep farms, ware spinner, felting worshape, and knitting studios— in coordination with and from financing of non-profit foundations. In coordination with and from financing of non-profit doundations are and already efficiently with a studies of the studies of the studies of the for a minimum of two years. These wool-producing facilities shall be full-service producers that have expertise across the entire garnut of wool textile making— from husbandry to shearing, and felting to knitting—in a consolidated environment. Reglenatized co-control extreative sill replicative to covarred resources, offering social mobility through vocational training in vital emergent industries.

External FH Consultant: A wool farmer

# Certification Protocols

- The Fashion House Certification Committee shall take up to three months to report the compliance of prospective and current members after thorough evaluations of their product and/or services.
- Members and brands that seek discretionary certification shall only be considered if they are already compliant with Fashion House's Universal Certifications.
- 3. FHC's are initially granted for up to five years to awarded brands, companies. or individuals upon which an Official Certification Display Document (refer to —). This includes the certification warrant is presented to the awarded recipient, which provides the recipient the authority to use the certification.
- certification.

  4. When the product, process, or an individual displays an avarded an individual displays an avarded so that the product process of the process of the product process of the coding systems of Fashion House (refer to 10/66 01). Fashion House's coding systems govern how certification warrants must be displayed on a brand's products, services, sationers, advertisements, environments, on their premises and on delivery vehicles to name but only a few examples.
- The wexamples.

  5. In the event that a member can no longer fulfill the standards required for universal and/or discretionary certifications, their awarded status shall be temporarily withdrawn during a one calendar year grace period in which to correct their inaccuracies. Members pieced into this grace period within the correct their inaccuracies. Members pieced into this grace period House membership dues if seeking reinstatement. If—at the verification inspection concluding this mandated grace period—the member still cannot fulfill the expected standards, the brand's Fashion House membership shall be immediately withdrawn.

- All certification warrants are audited by the Fashion House Certification Committee in advance of at least one calendar year before their expiration.
- A certification may not be renewed if the quality and/or supply for the product or service no longer sufficiently meets the guidelines established by Fashion House at the time of renewal.
- 9. The certification committee reserves the right to—and shall—perform annual unannounced on-site inspections to verify member brand's compliance with FHC standards.
- 10. Any certification awarded to a bran that undergoes ownership change or becomes financially insolvent shall be automatically reviewed and may be revoked if FHC standards cannot be demonstrably met.

III.05 Coding System

Organizes all information of registered fashion house companies and products into a digital platform. Each Fashion House company has a registered number and each new as companies or a halfway product base companies or a halfway product base on unique code. The code can be seen on the label attached to the product and has an RFID tag on it. Customers can each the smart tag and see all of the complete unique code, history, manufacturer information, materials, certifications, etc. The structure of companies of the product number: registered company. The coding system is reflected in the graphic design of the Fashion House logo.

III.04 Discretionary Certifications Title Description Type CLASSIFIED Certifies a mono-directional spatial organization that eliminates double en-counters and ensures client anonymity while acquiring a product, process or service. Certifies locations that are well-suited to, and fulfill the spatial require-ments, to host spectacular events. Locations must be unique, iconic, time-less, and embody extraordinary experiences. GROWING THE SCENE KNOW IT ALL Certifies individuals that have fulfilled a three-month residency in which they-in close contact with consumers-have been empowered to rethink fashion and body norms and design. SHAMELESS Individual PERFECT MATCH PRODUCTION OFF THE SHELF Certifies brands that exclusively use mono-materials and instantaneous production processes to create personalized items. Process RE-SCENTS Certifies fragrance and perfumery products that recreate natural fragranc smells by combining extracts from organic scents and oils from greenhouse-grown botanicals with distilled compounds from food waste into fragrance mix solvents. Certifies products that have been crafted in strict accordance to local tradi-tional techniques by brands or individuals in workshops that are similarly authentically organized and/or supplied so that the product and its associ-ated know-how are perpetuated to new generations. Certifies modifiable digital mannequins that are used to exhibit products on online platforms. A certified mannequin shall use anonymously-collect-ed user data to generate customized presentations of fashion goods in an exclusive and secure manner. MADE FROM SCRATCH DURATION GOOD AS NEW Certifies the cleaning process for resold or rented fashion goods to meet quality, safety, and sanitation standards that require no traces of any hazardous materials or contaminants, and are processed using only eco-friendly cleaning products and energy-efficient equipment.

Type Certifies products that have been manufactured with meticulous tailorin techniques that are made with highly durable raw materials, and are de-signed to seamlessly be continually repaired, alterated, and updated ow an individual's working career. MADE TO LAST WITH LOVE Certifies garments that have been carefully repaired and customized by the local repair experts, customers, and qualified robots. SWEEP UP Certifies a safe and sanitary method to collect human hair for safekeeping, or for use to make new personalized products, including hair-sweaters, socks. and wids. SORTED OUT Certifies textile recycling processes that properly sorts, shreds, and stores textile and post-consumer waste so that it can be seamlessly transformed into new products. CLOTHES THE LOOP Certifies made-to-order cladding materials that have been manufactured using exclusively locally sourced end-of-life textiles and fabrics. VALUE NOWHERE TO HIDE Certifies textile products that are entirely biodegradable and made using sustainable methods in a fully circular production chain in which supply, design, planning, processing, and packaging are exclusively conducted in a closed-loop system. END-TO-END Product Product CULT-RATED Product Certifies individuals who have completed the requirements for-and h demonstrated appropriate demeanor to-become independent inspend and reporters that unbiasedly test and promote fashion goods' performance, quality, and durability before mass-production approval. Certifies fashion goods that have demonstrably significant merit as heritage assets—both tangible and intangible merit, such as rare antique materials and historically-significant technique, respectively—that can be reproduced as contemporary simulacrums as a method of heritage con-servation. RIGHT TO REPLICA Product Certifies individuals who have sufficiently completed the requirements to own and operate wool textile production facilities—including, but not limited to, sheep farms, yarn spinners, felting workshops and knitting studios—in coordination with and from financing of non-profit foundations. FRIENDLY WOOL Individual/s

Transitioning from traditional labeling systems and inspired by Maison Margiela—where each garment is labeled with a series of numbers that correspond to the fluther of selang process—Fashion Process includes a labeling system for all of the fluther of selanger process—Fashion Process includes a labeling system for all of materials, certifications, among others. This system is meant to reflect Fashion House focus on minimum standards (refer to IV/03) towards a conscious and slow-paced fashion industry.

Fashion House has two types of labels.

The first rough table is for protovers that are made from scratch inside Fashion House. The second type of labels is for protoved garments that enter the circular process of Fashion House.

The first includes automatic identification and data capture through an RPID tag system. The second type of labels is for protoved garments that enter the circular process of Fashion House. The second type of labels is for protoved garments that enter the circular process of Fashion House.

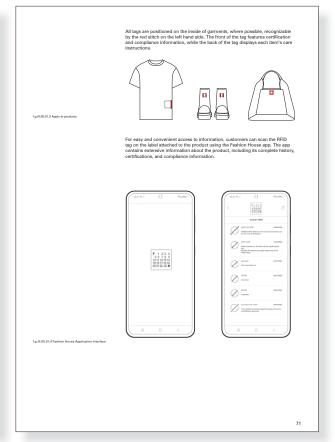
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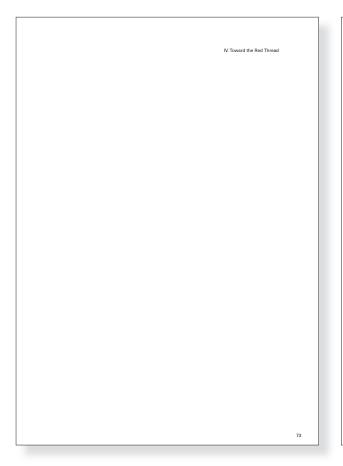
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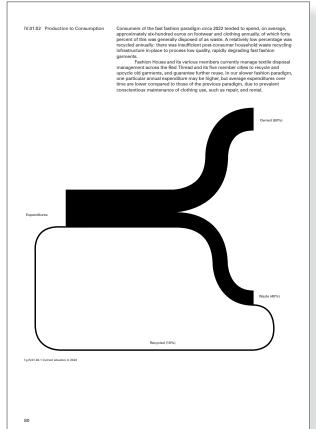
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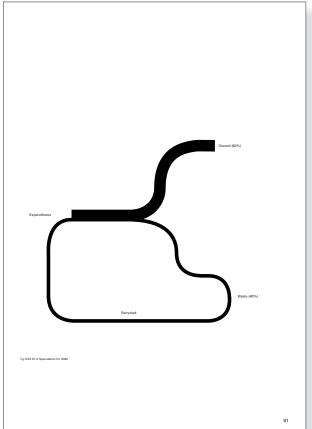
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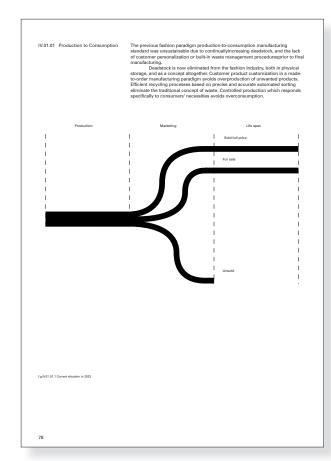


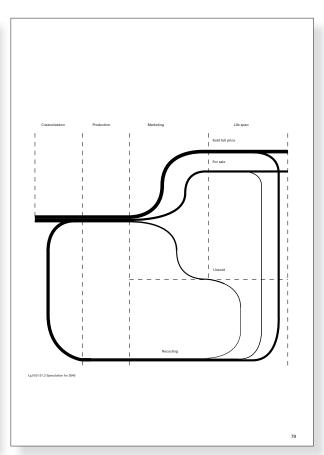


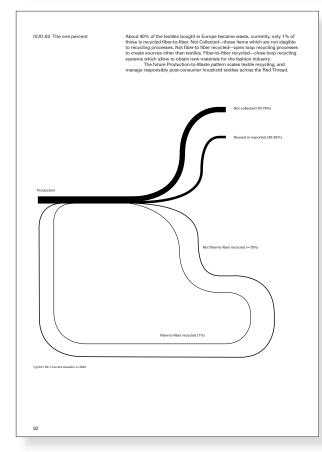


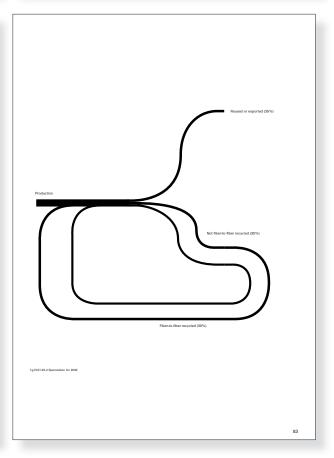


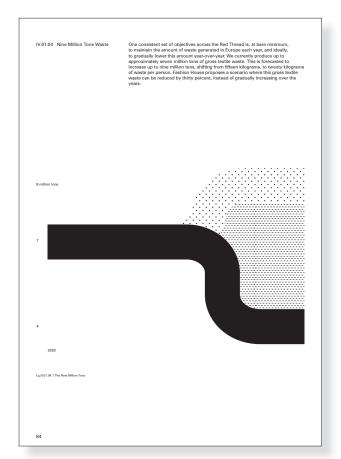


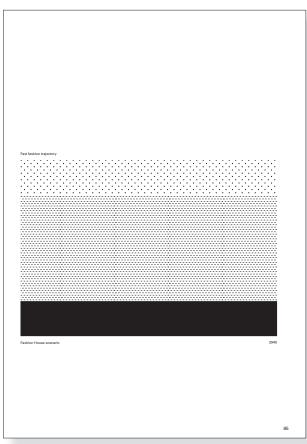


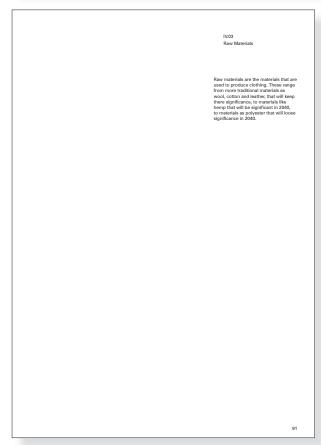


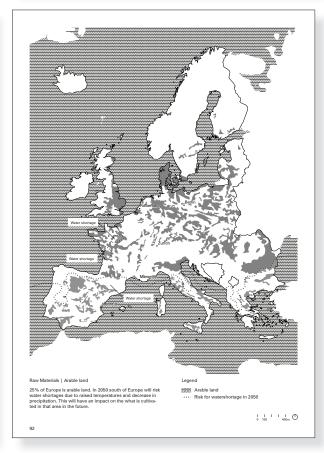


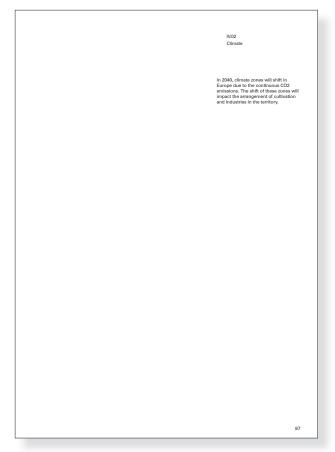


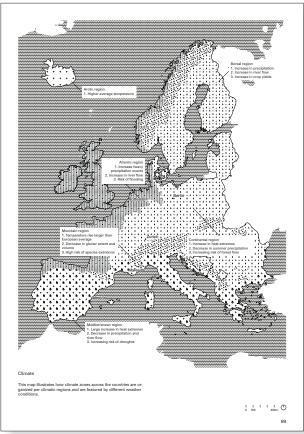


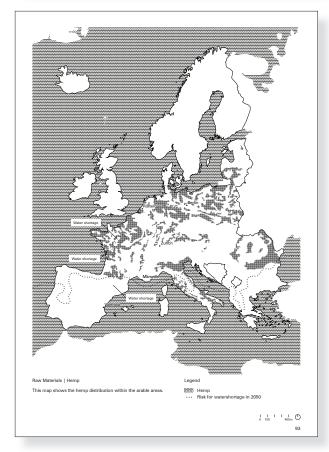


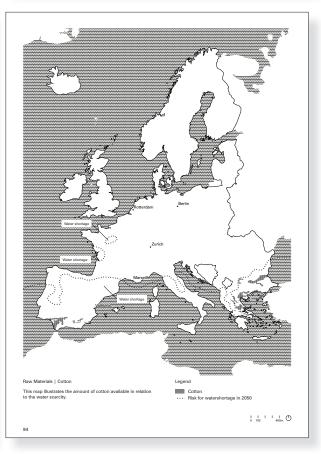


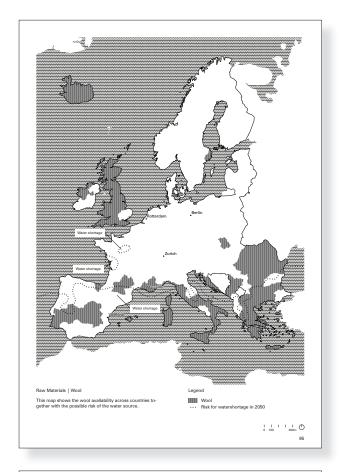


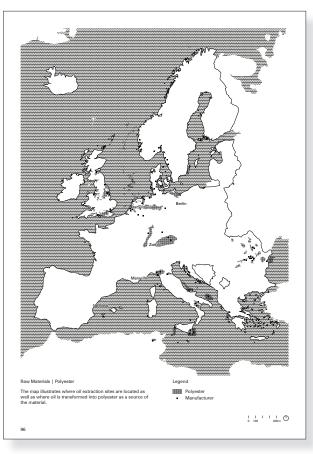


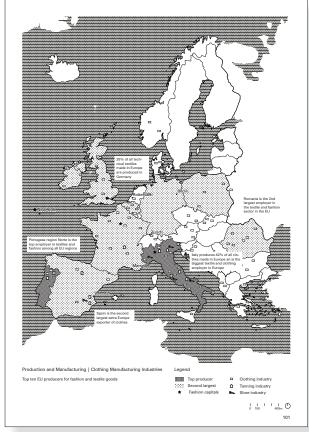


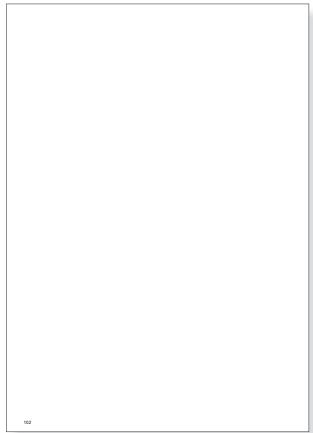


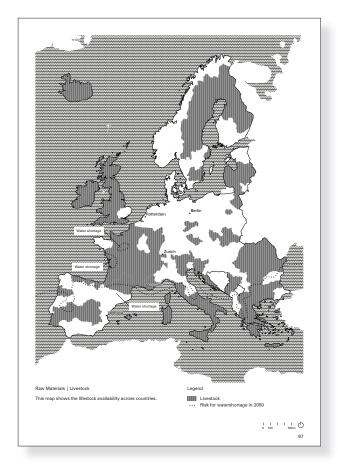


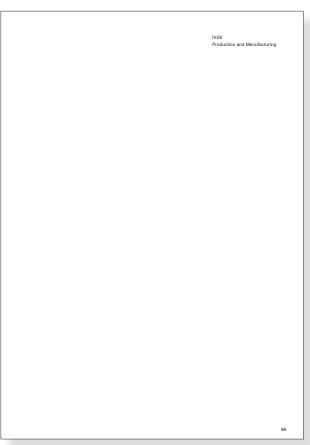




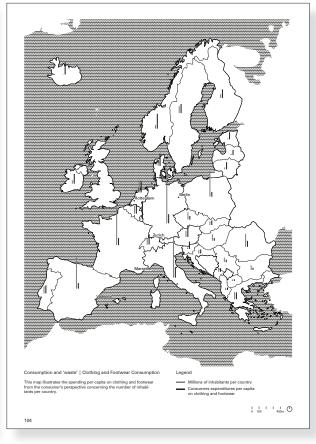


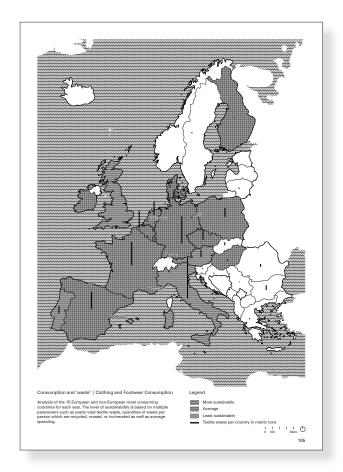


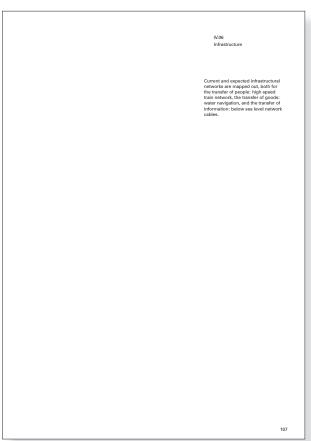


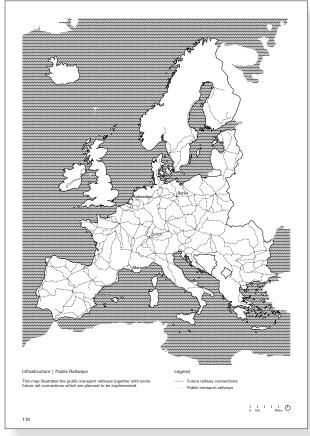


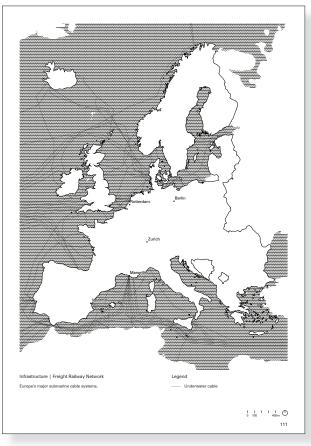


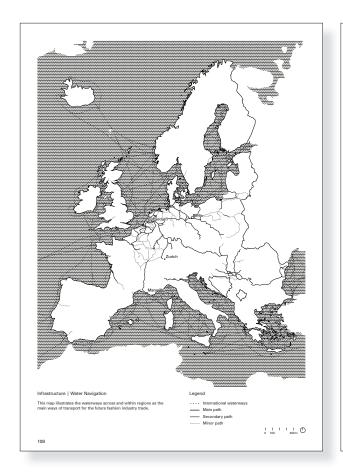


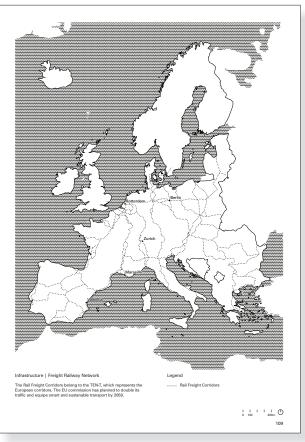




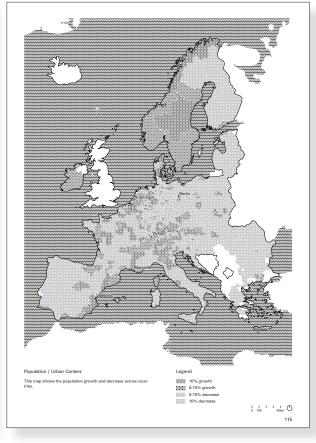


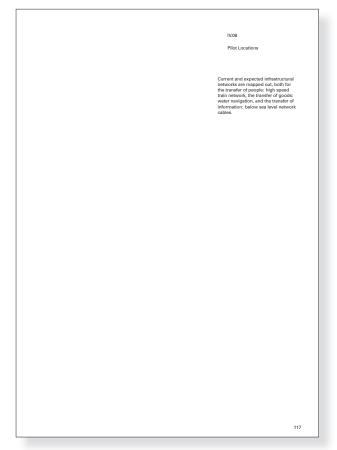


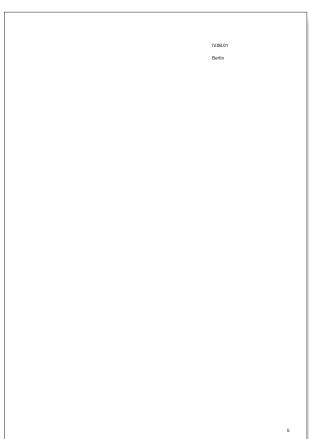


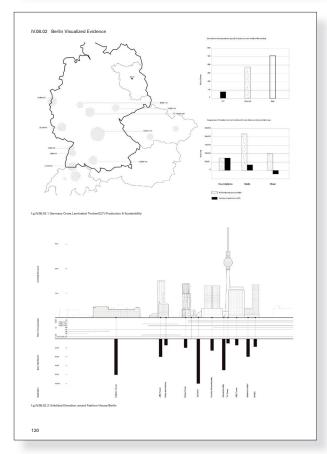


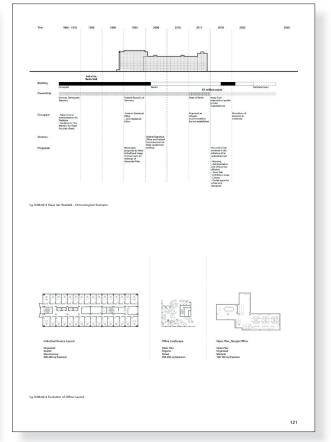


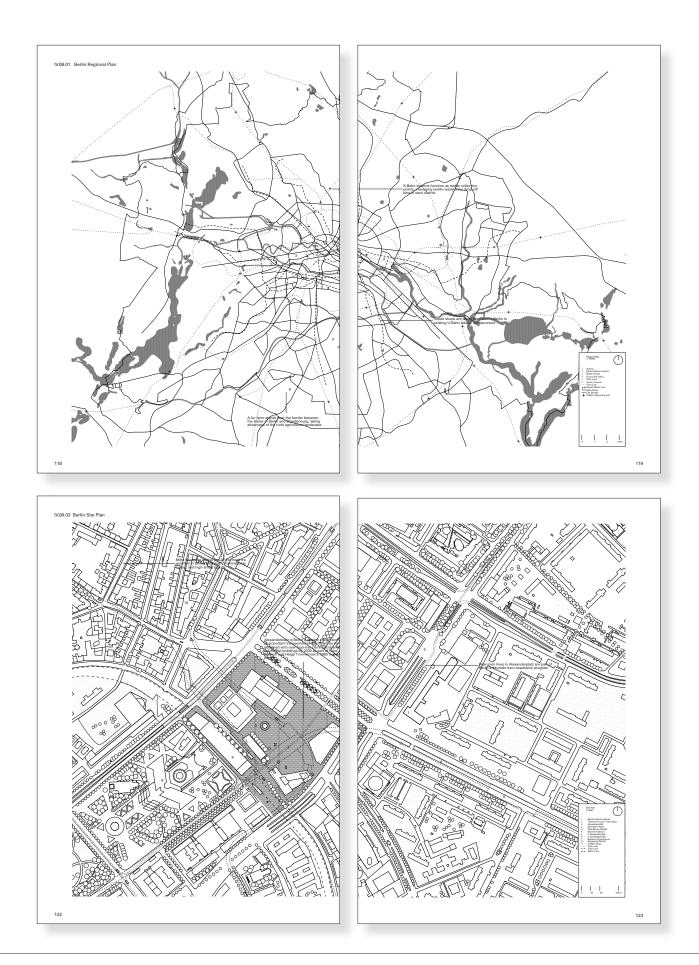


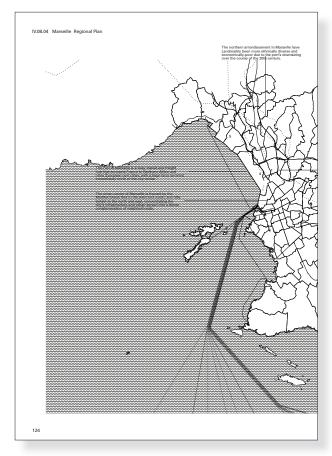


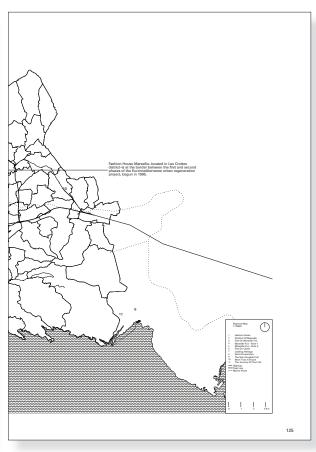


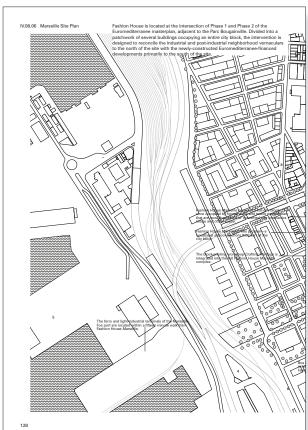


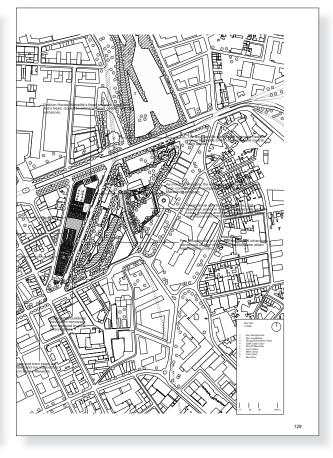


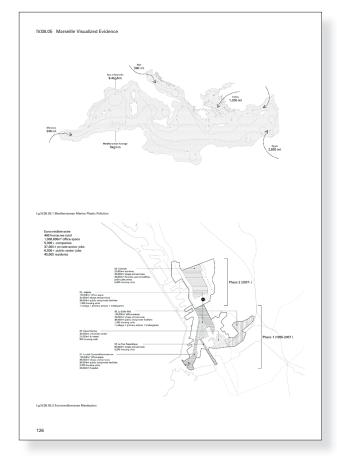


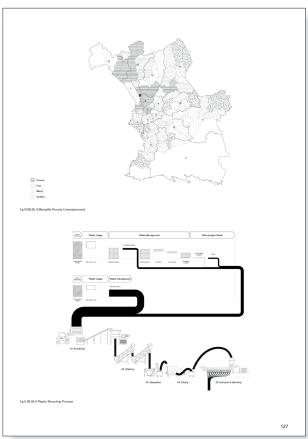


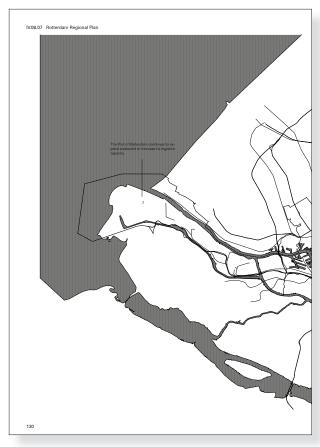


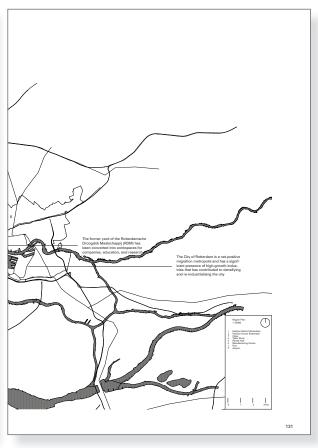


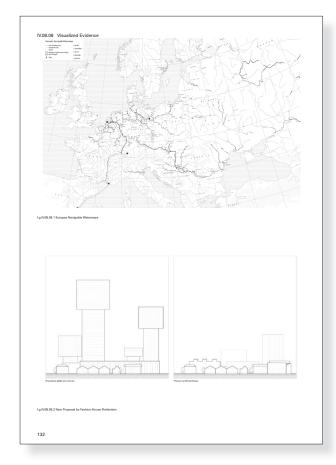


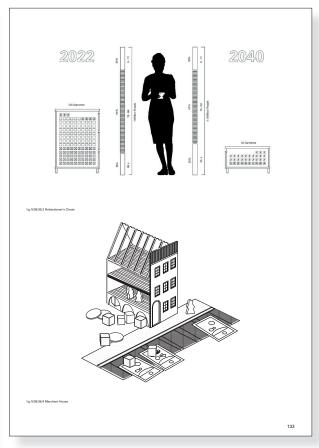


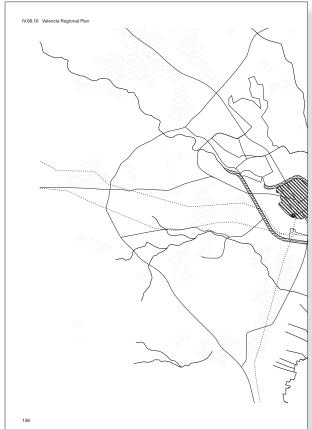


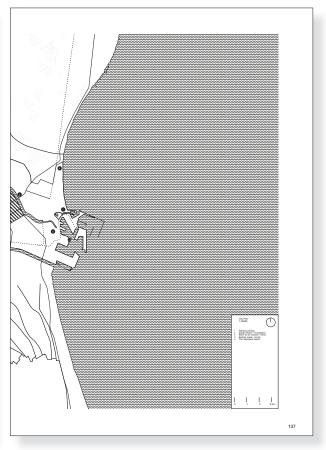


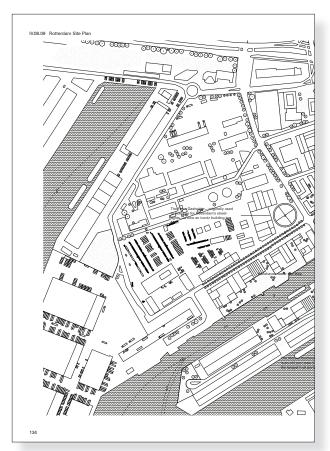


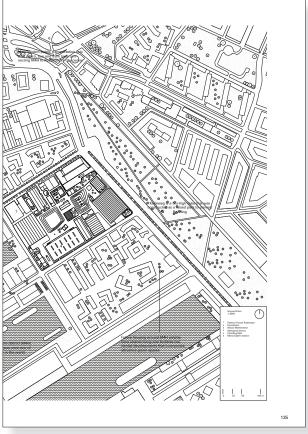


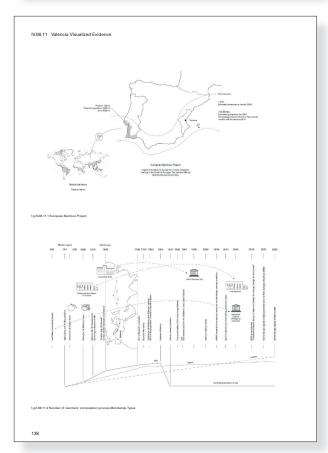


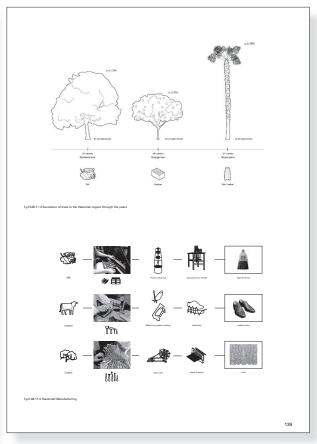


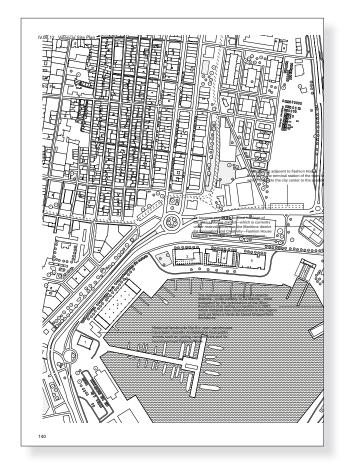


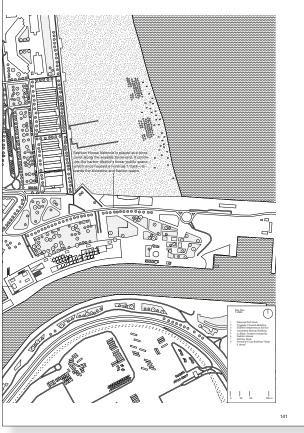


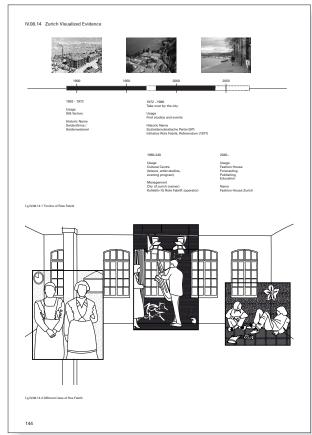


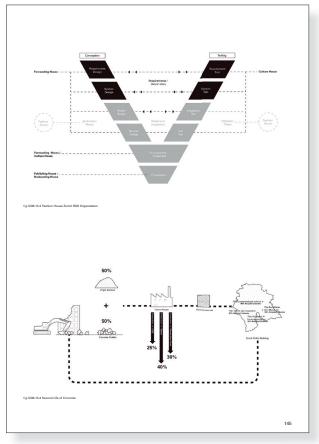


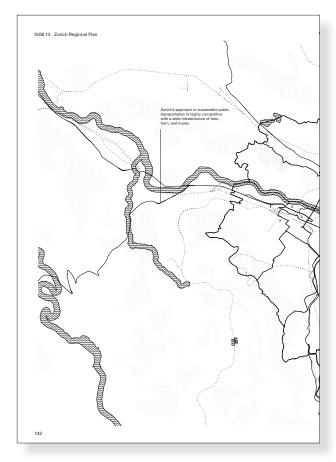


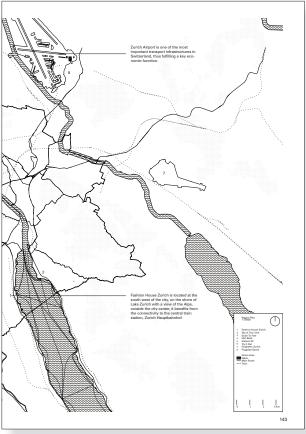


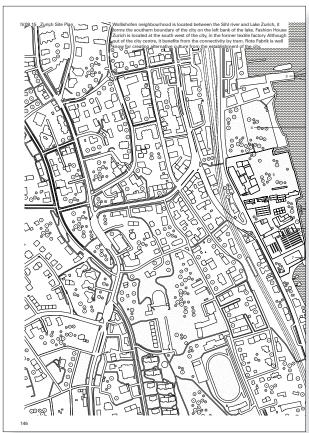


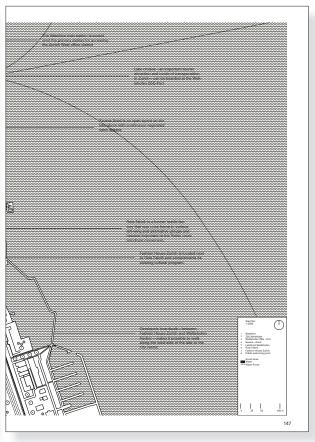


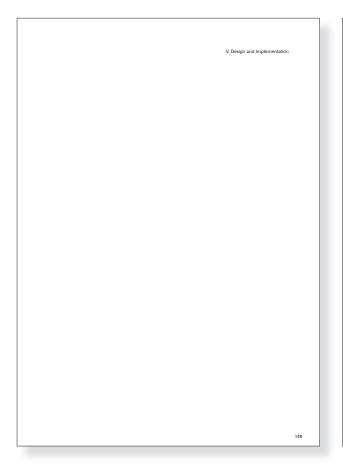


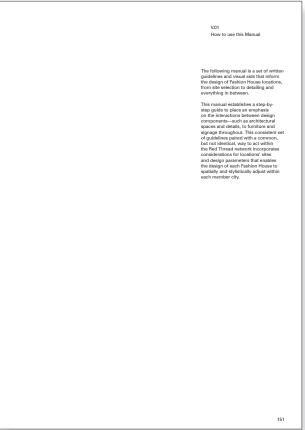


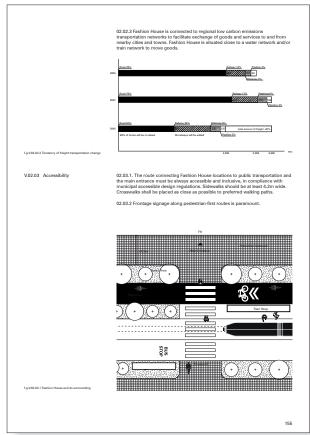


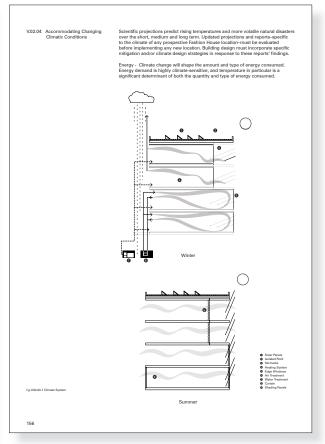




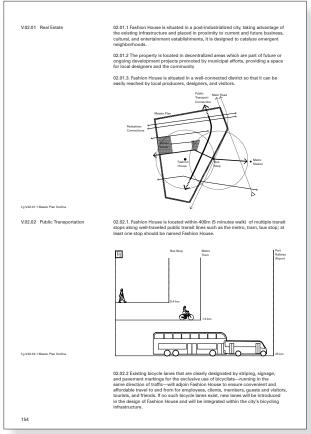




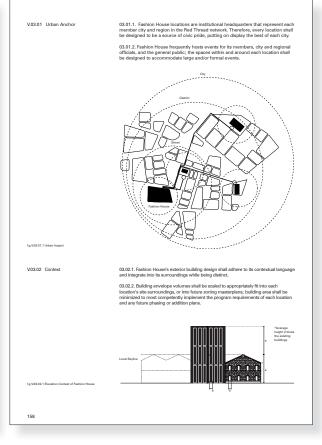


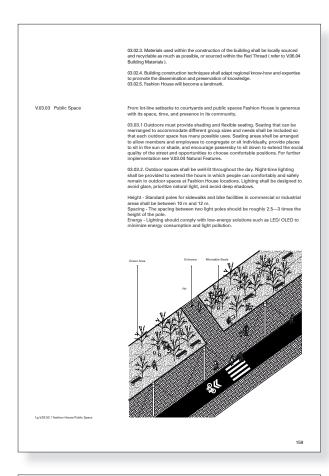


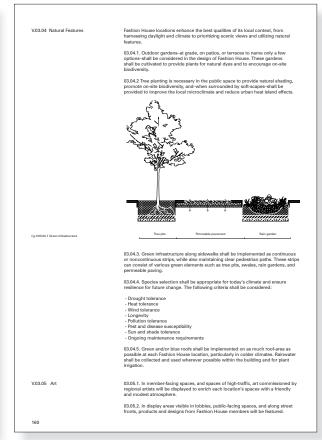


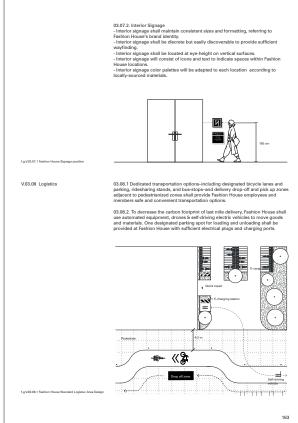


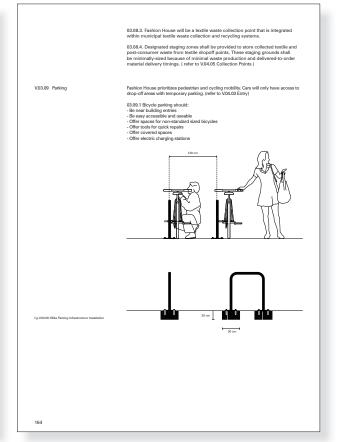


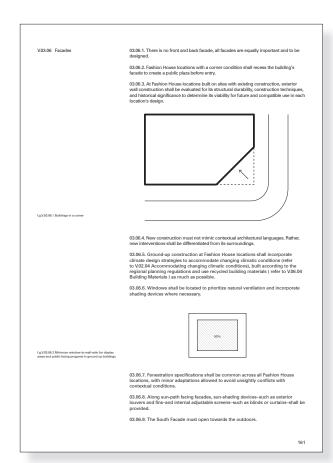


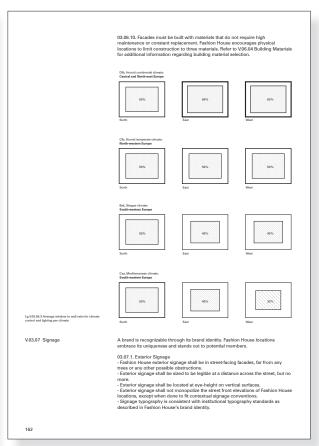


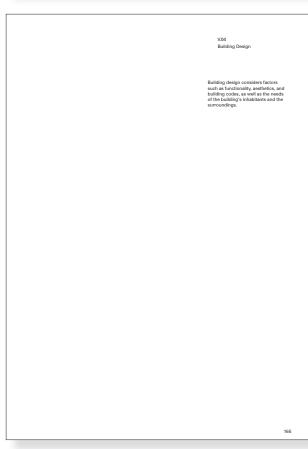


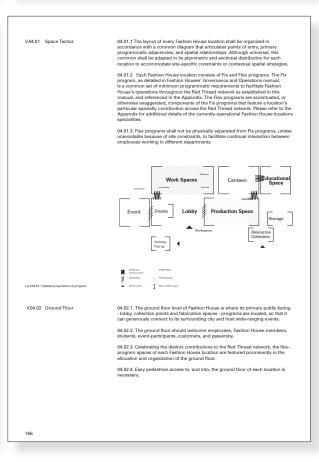


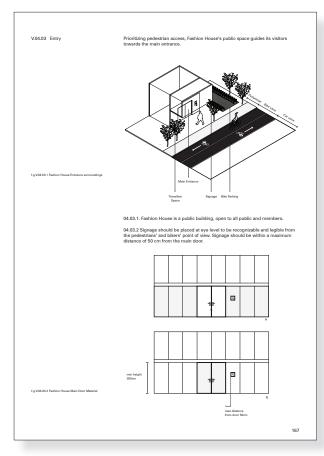












State of the building plot to create a transition between interior and exterior. The entry threshold is articulated with a small vestibule prior to entering the lobby space to create anticipation and provide a climate-controlled buffer, as required.

Od. 33.4 There shall be a height difference between the vestibule and lobby to emphasize the interior space of the lobby.

Od. 35.5 Firmary entry facedes shall juxtapose sections of opaque (or solid) wall constructions with sections of transparent vision lites to add visual interest and maintain window-wall railos. For instance, lite entry door is made with a transparent, glass-like material, the adjacent valles should be solid; alternatively. If the main door is built with an opaque material, the adjacent valles should be solid; alternatively. If the main door is built with an opaque material, the adjacent valles shall be transparent.

Od. 35. Entry doors shall specify automatic sliding doors to minimize temperature transmission.

The lobby is the main public space at Feshion House and articulates its other main programmate spaces. It is both the point of departure and convergence of all activities that ocar at Fashion House. The lobby consists of three main elements that shall be prominently featured at all locations: shelves and clothing racks for display (refer to VAGA, 3), as elf service and information losis, (refer to VAGA, 3), and demonstration table (refer to VAGA, 3).

Od. 4.1. Entry lobbies are generous spaces that welcome visitors into an open-floor display area.

Od. 4.2. Lobbies are used for members' products display and meeting point to network and exchange expertises.

Od. 4.3. Then thouse of the House's policy, displayed products and goods are only purchasable on online platforms. Multi-configurable sheves and clothing racks shall attached playing member products and goods are only purchasable on online platforms. Multi-configurable sheves and clothing racks shall attached playing member products and approvide customers and provide customers platfo

Deadstock elimination and made-to-order production processes allow storage spaces to be significantly reduced in size, enabling them to be self-contained within larger public spaces as collection points and accessible by foot and by small self-driving electric vehicles.

D4.05.1 Collection points within Fashion House shall be located either inside or adjacent to the lobby space and in close proximity to the main entrance as freestanding clearly-visible modules. These collection points are divided into three categories: I presources collection point, studie drop off, and 3] clothing pickup.

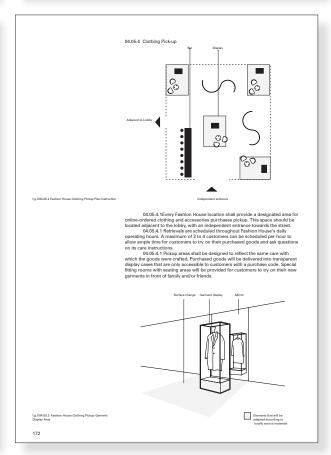
D4.05.2 Resources collection point, studie drop off, and 3] clothing pickup.

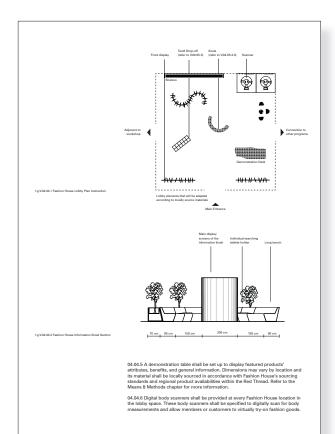
D4.05.2 Resources collection point studies are products-such as pain leather and madeler root-to-synthetic products-such as pain leather and madeler root-to-synthetic products-such as post-consumer plastic waste-depending on each location's regional speciality. An appeal of the self-picker collection points and produces are products-such as paint self-and produces are products-such as paint self-and the anticipated resources collected and early bicycle lanes and shall provide an independent entrance for eliveries and resource retrieval by small self-driven electric vehicles.

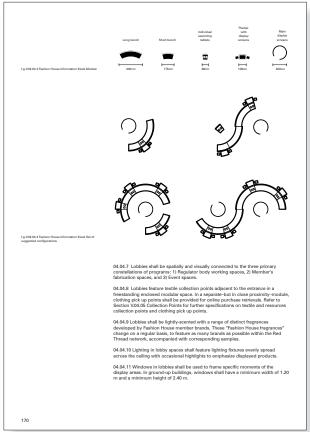
D4.05.2 Testila Drop off points

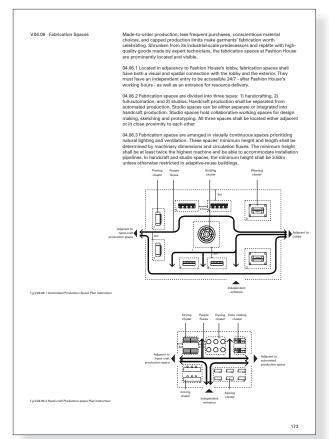
O4.05.3 Textila Drop off points will consist of deposit doors and drop-yell exclusive and post-consumer textile waste.

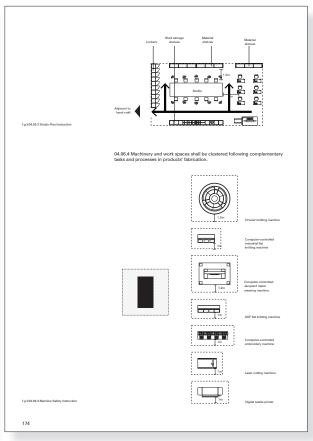
O4.05.3 Textila Drop off points will consist of deposit doors and drop-yell interactions signage. Each door corresponds to a single compartment that is individual to more easily self-sort their textiles.

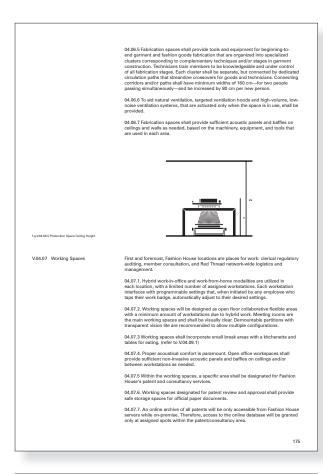


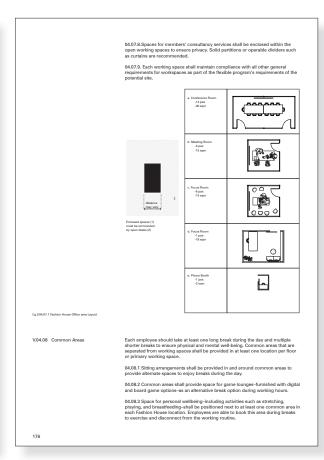


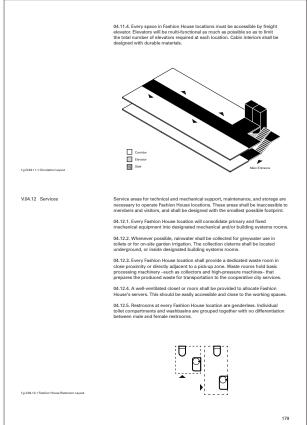


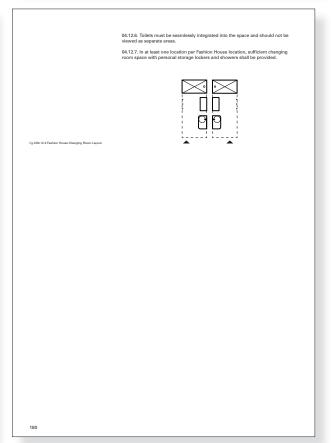


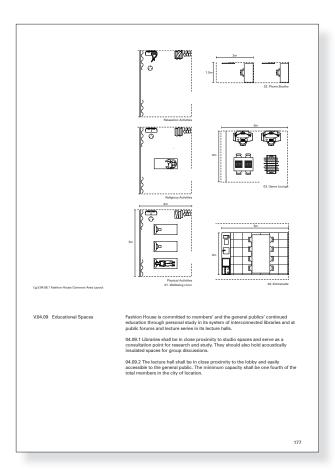


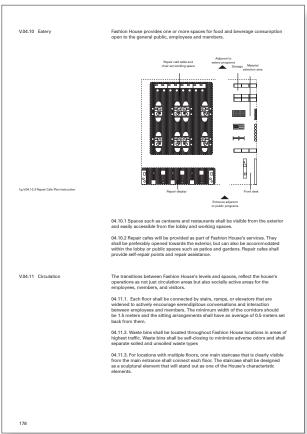


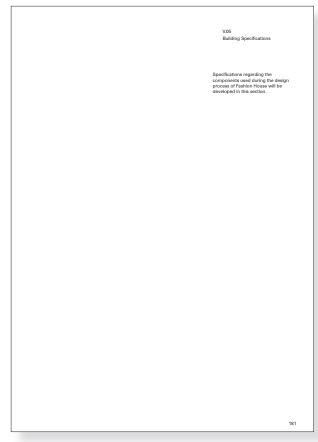


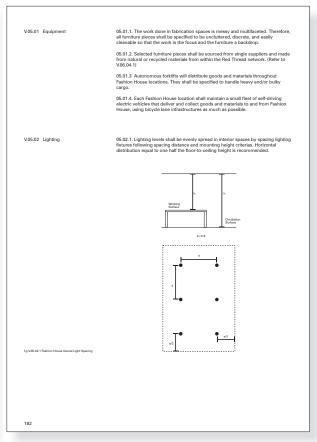












65.02.2 Avoid placing lights in corners to reduce unnecessary light fixtures. Repeatable patterns in ceiling construction, except when creating highlighted lighting features, are recommended.

65.02.3 Lighting fixtures shall be connected to automated smart-lighting programming and controlled by digital interfaces that adjust to outside weather conditions and to interfor occupancy.

65.07.4 Lowes-possible lighting levels shall be maintained wherever possible - in particular in open office websquess- and supplemented with task-lighting to avoid glare and minimize energy consumption.

65.02.5 Indirect natural light shall illuminate as many spaces as possible.

V05.03 Climate Control

65.03.1 Climate zones are established-according to program type and spatial organization-to maximize passive heating and cooling strategles, and to minimize the necessity for active climate-control.

65.03.2 Natural windsides on should be prioritized, to avoid dependency on active climate-control.

65.03.3 Automated, integrated climate-control systems - such season the building interiors where applicable in each location. Employees, particularly those who spend the majority of their working day at a deak, should have manual override control operate these systems.

65.03.4 Mechanical ventilation systems will utilize the highest industry-standard filtration systems available, particularly in colder climates and near busy street fronts.

05.03.5. Passive heating and cooling systems - like heat sinks, heat chimneys, or hollow-core salabs - shall be incorporated into the design.

05.03.6. Sufficient insulation shall be provided in the exterior envelope of every feathors Mouse location, particularly in cooline climates or in climates with large enread temperature swings, is applicable wall construction.

Existing construction that does not sufficiently facilitate proposed uses nor holds significant historical value shall be removed.

6.62.1 Existing elements on Fashion House sites are not needlessly removed. Instead, Interventions after an little as possible to implement its objectives, whether that be minimal alteration or extensive overhaut.

6.62.2 Salvaga, recycle, or resure as much non-hazardous construction waste as possible, and ensure proper handling to minimize contamination or commingling.

V.06.03 Construction Techniques

6.63.1 New construction should not specify techniques that require specialists or equipment that is not readily procurable within the fled Thread network.

6.63.2 Non-invasive attachment techniques for easy dismantling in case of change of program or future extensions are encouraged.

V.06.04 Building Materials

Fashion House strives to minimize waste and environmental damage by prioritizing material reduction, reuse and recycling, when possible construction should avoid new materials, New construction should avoid specifying material that require specification or equipment that is not readily procurable within the first Thread network.

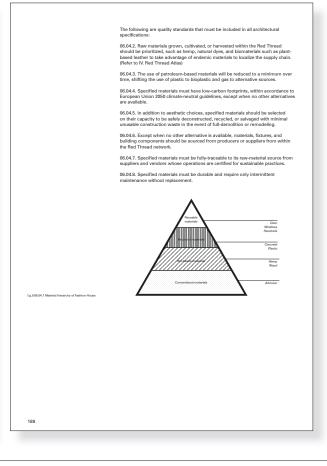
6.64.1 Fashion House strives to minimize waste and environmental damage by prioritizing materials for equipment that is not readily procurable within the first Thread network.

6.64.1 Fashion House has the following hierarchy to make material choices:

1 - Reuse materials (Refer to V.06.01.2)

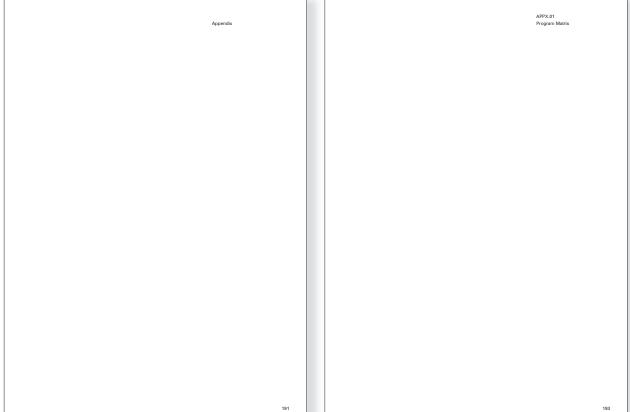
2 - Recycled materials (Refer to V.06.01.3. to V.06.01.7)

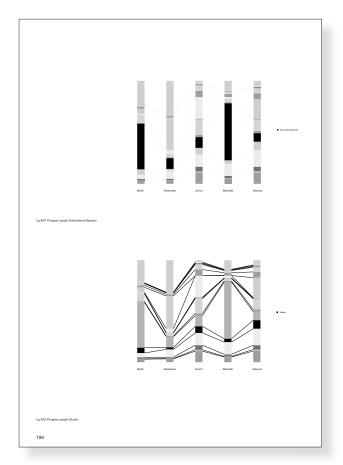
3 - If no other alternative, use Conventional materials: conventional building materials can be an option, with considerations to carbon emissions, environmental impact, and its capacity to be reused or recycled at the end of he life.

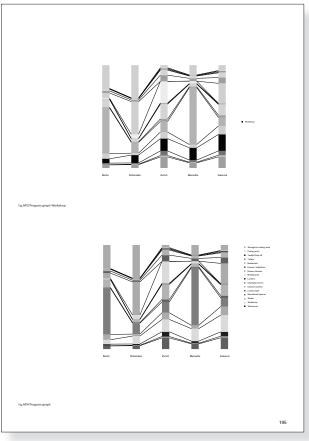


Manus & Marinus

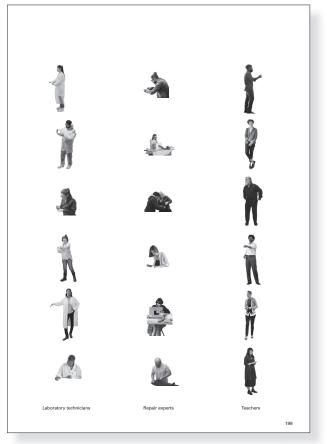
Manus

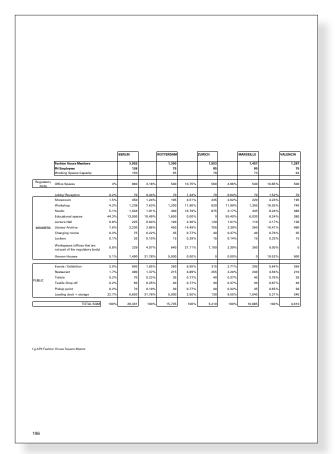


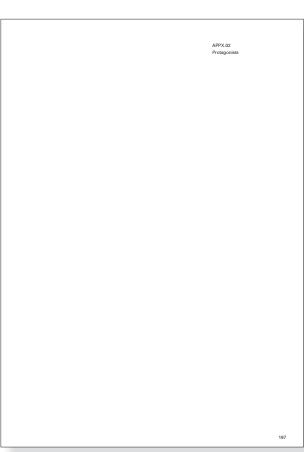


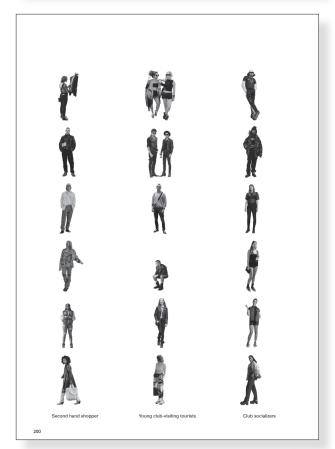


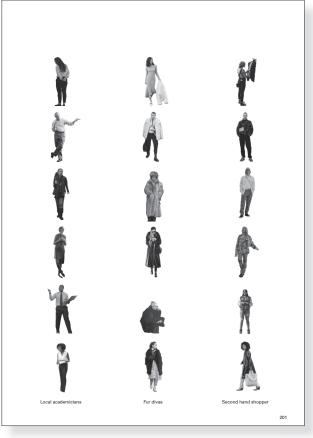




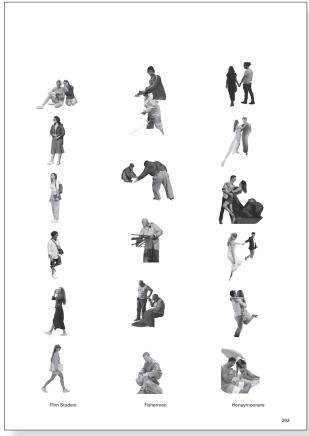


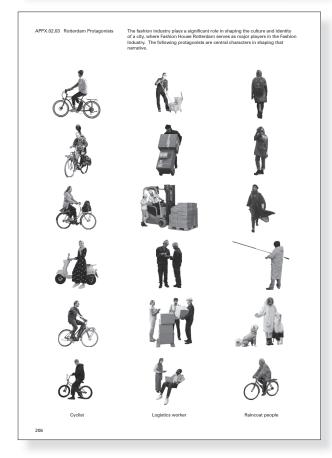






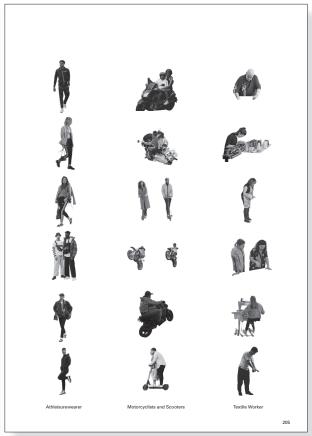




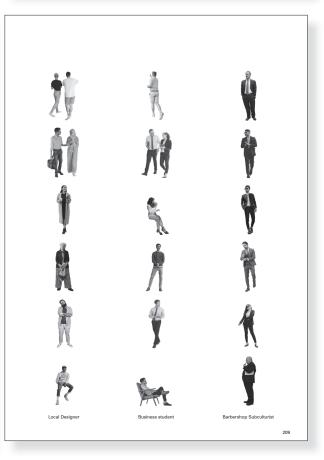


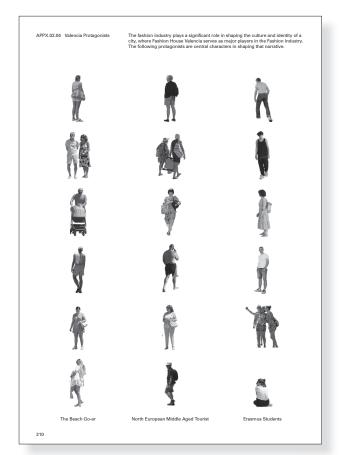


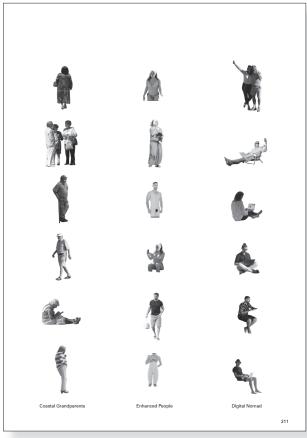




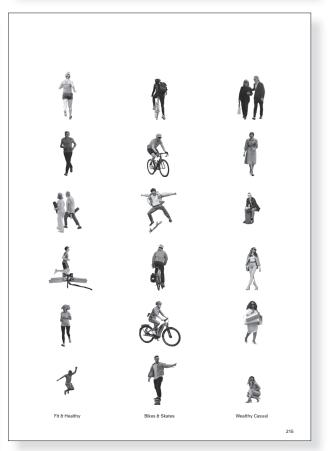




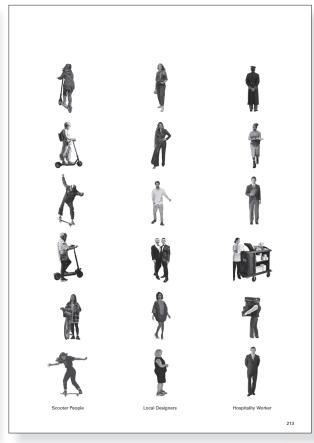












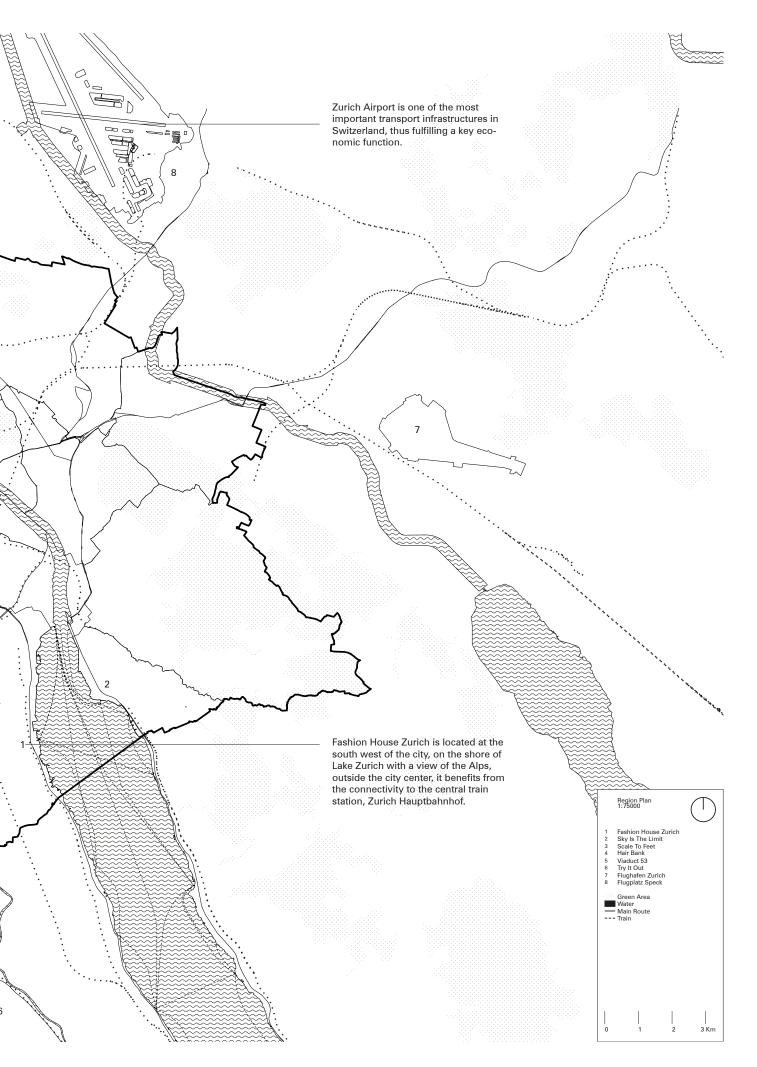




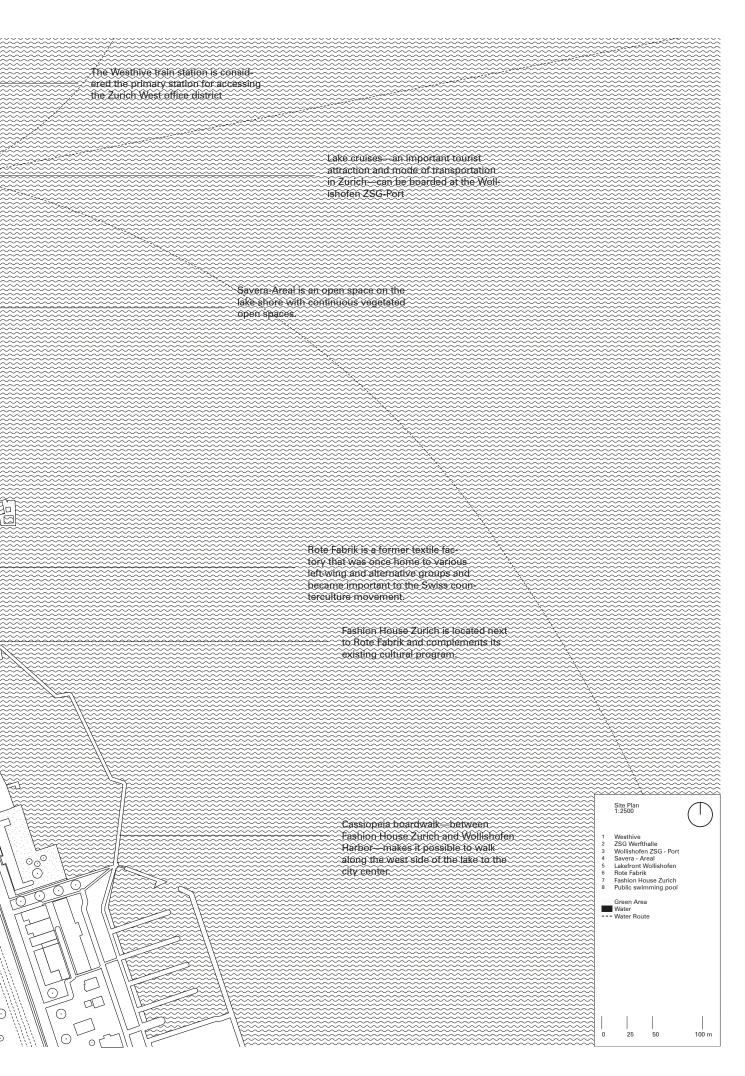
Yours, Forever	With Love	Out of the Fabric
Make Scents	Aporia	The Journey of Your Life
Non-fungible Cult	Crafting Heritage	More than a House
Retro-Prospective	The Unmentionables	Ready-to-Rent
The Establishment	Shelf Life	Ready to Grow
Bone to be Natural	Built to Crack	The Standard Resort
Sky's the Limit	Hair Bank	Try It Out
Scale to Feet	Viaduct53	

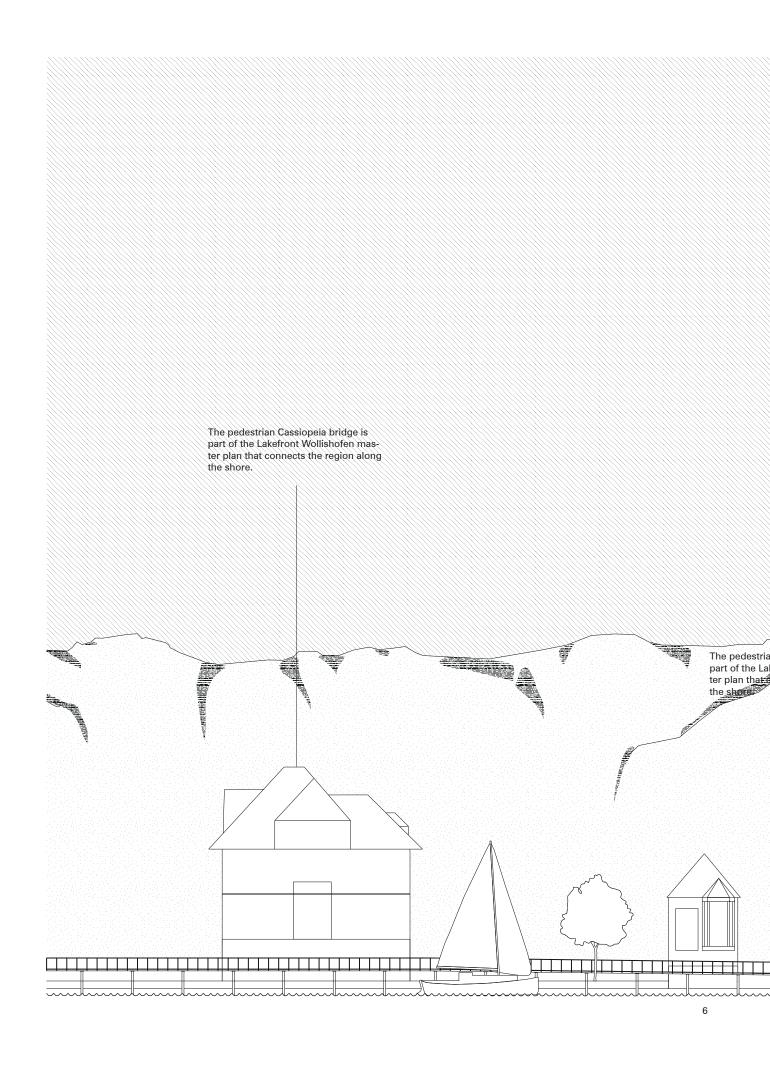
Fashion House is a collective project exploring architecture and the fashion are sited across five European cities—
Berlin, Marsellis, Rotterdam, Valencia, Zurich—that are emerging today as mere fashion cartess, challenging the work of the control of the second of the

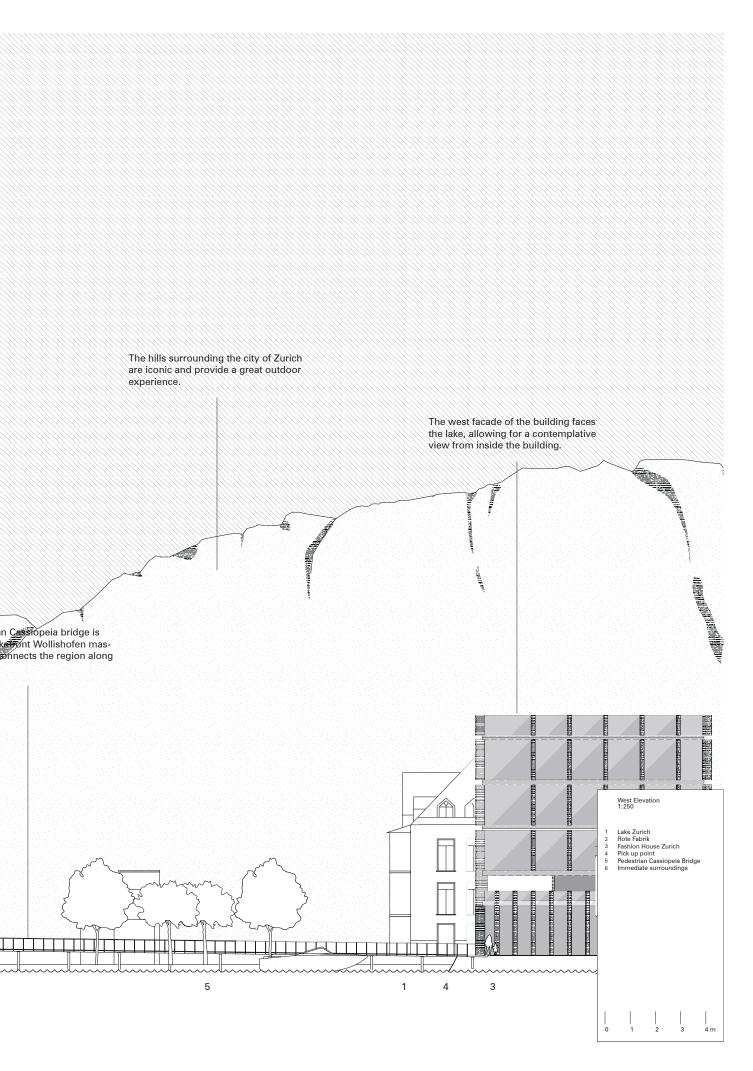


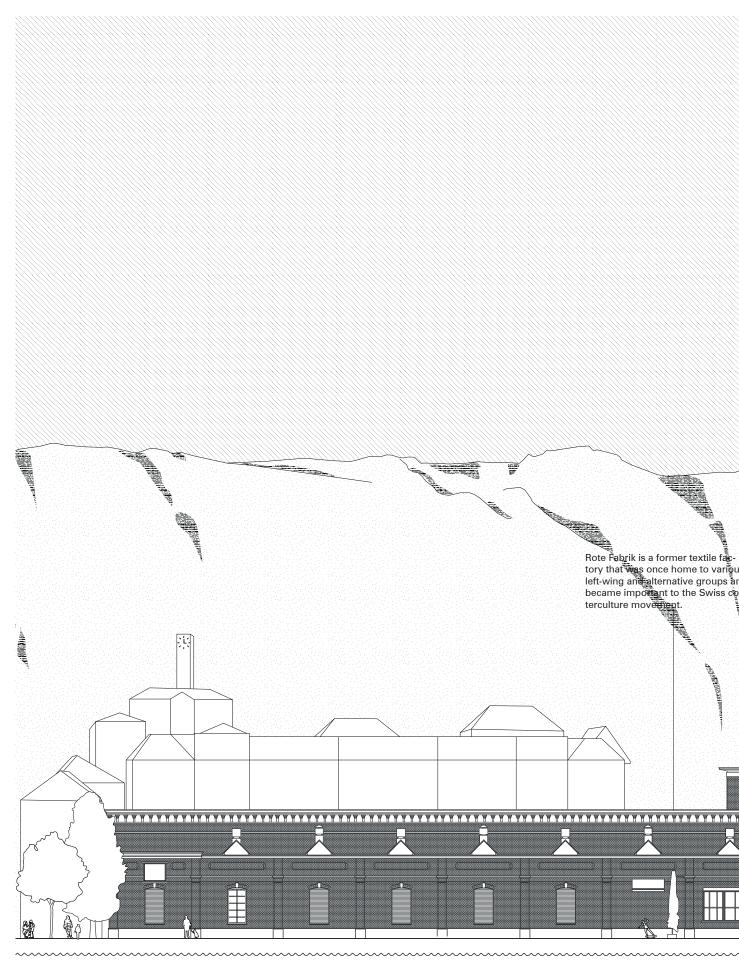


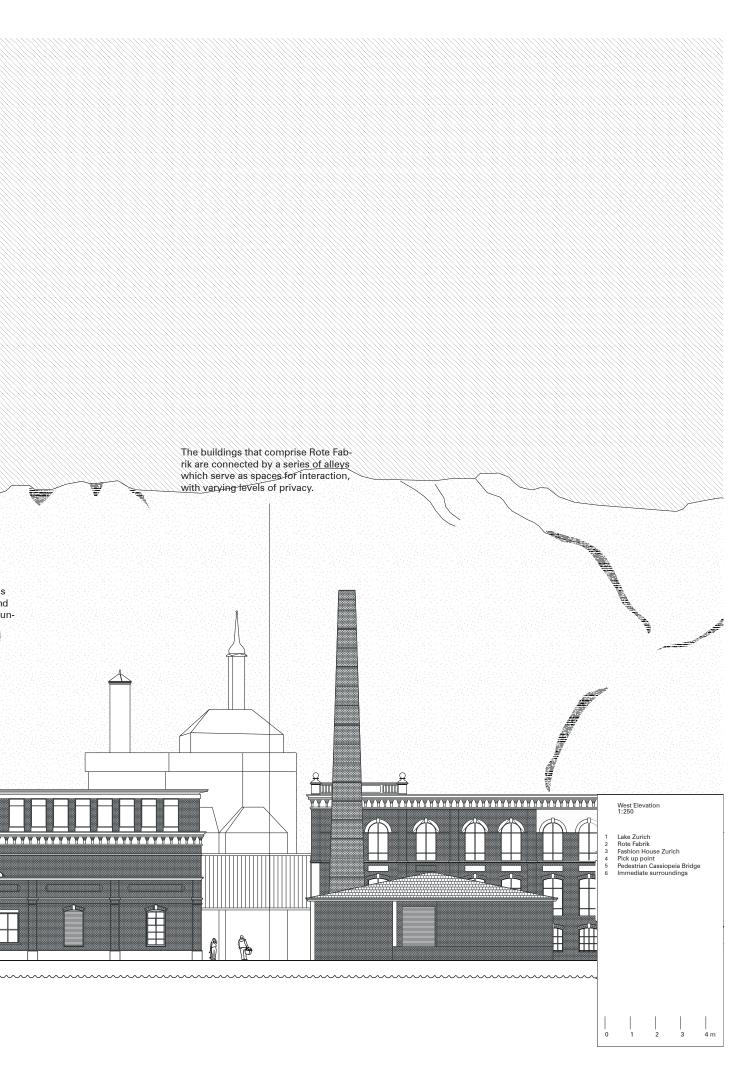


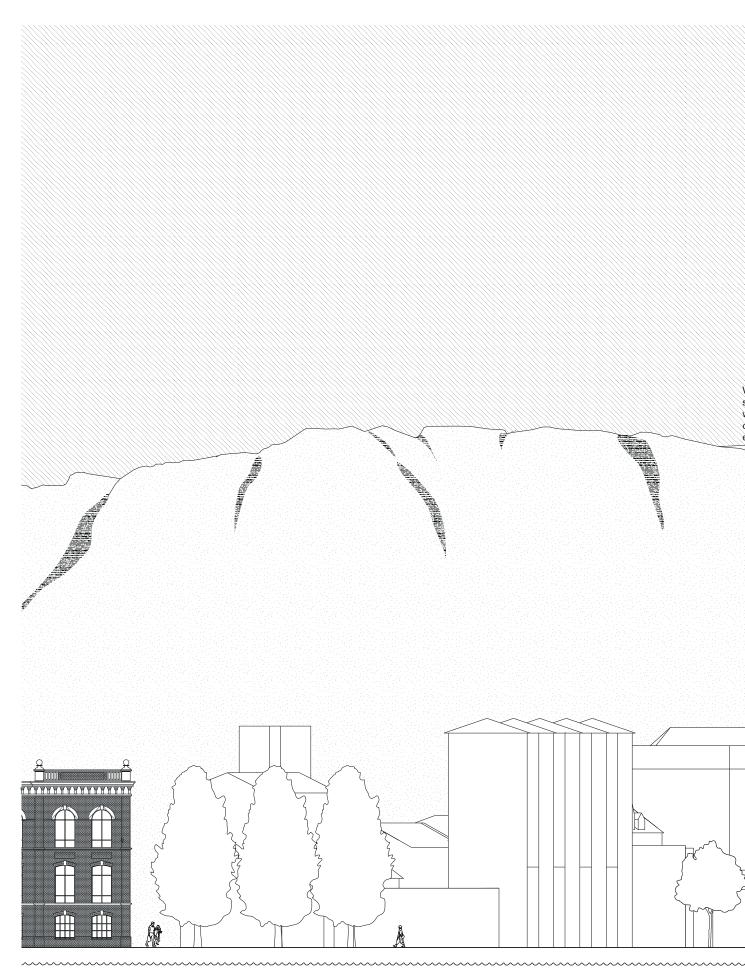


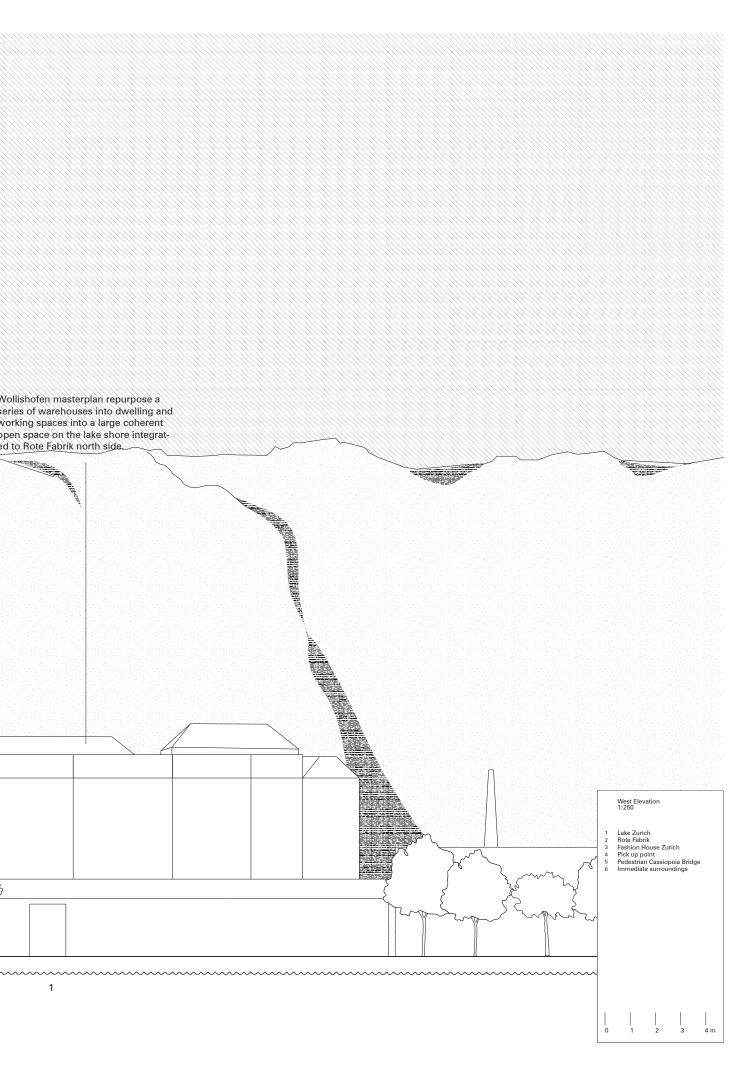


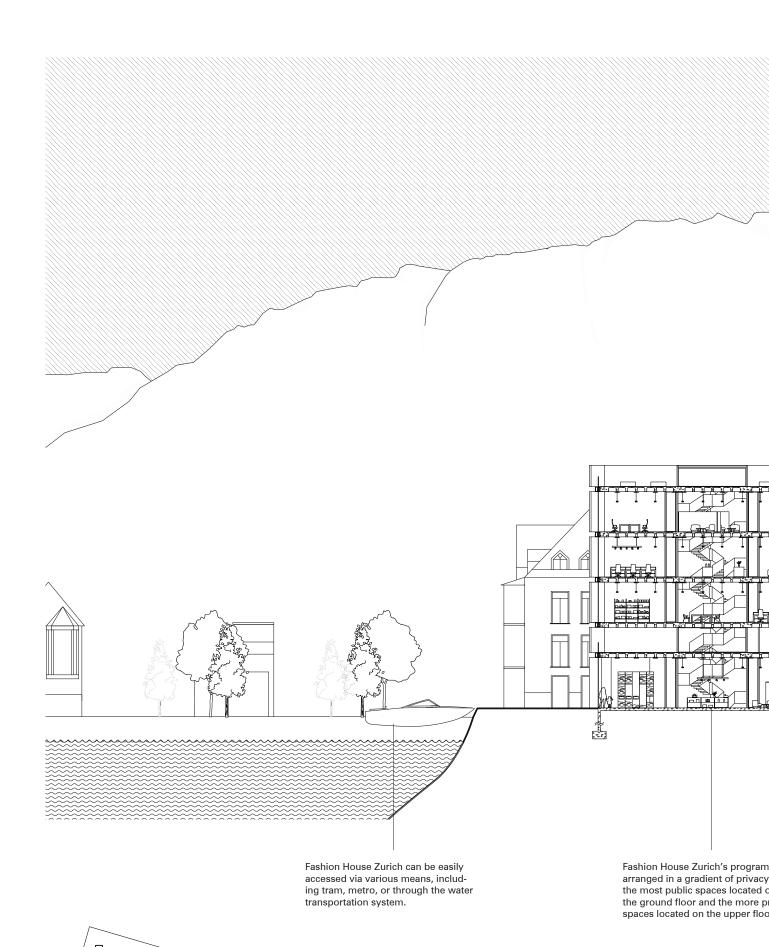


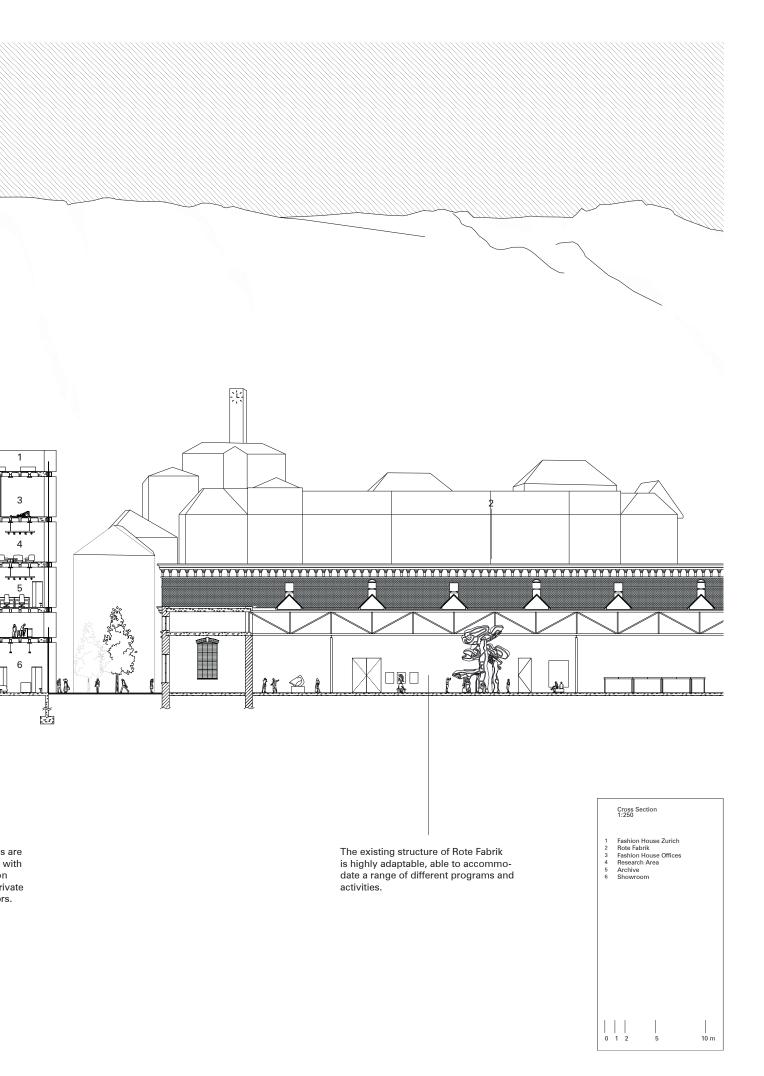


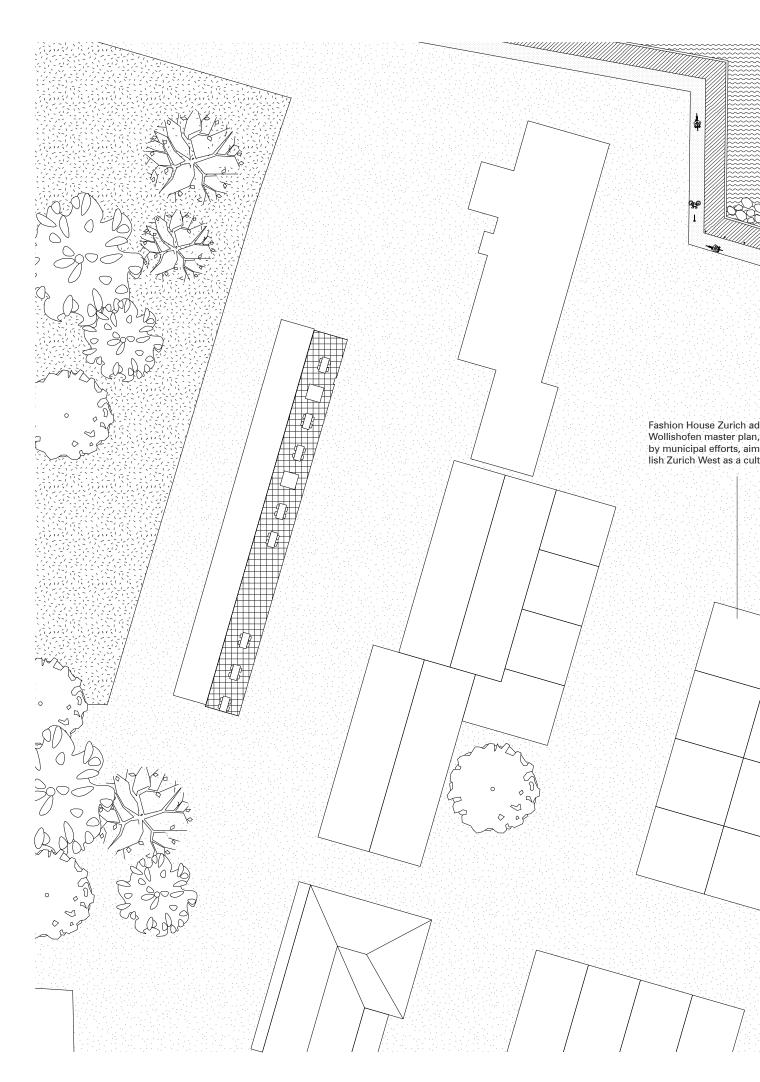


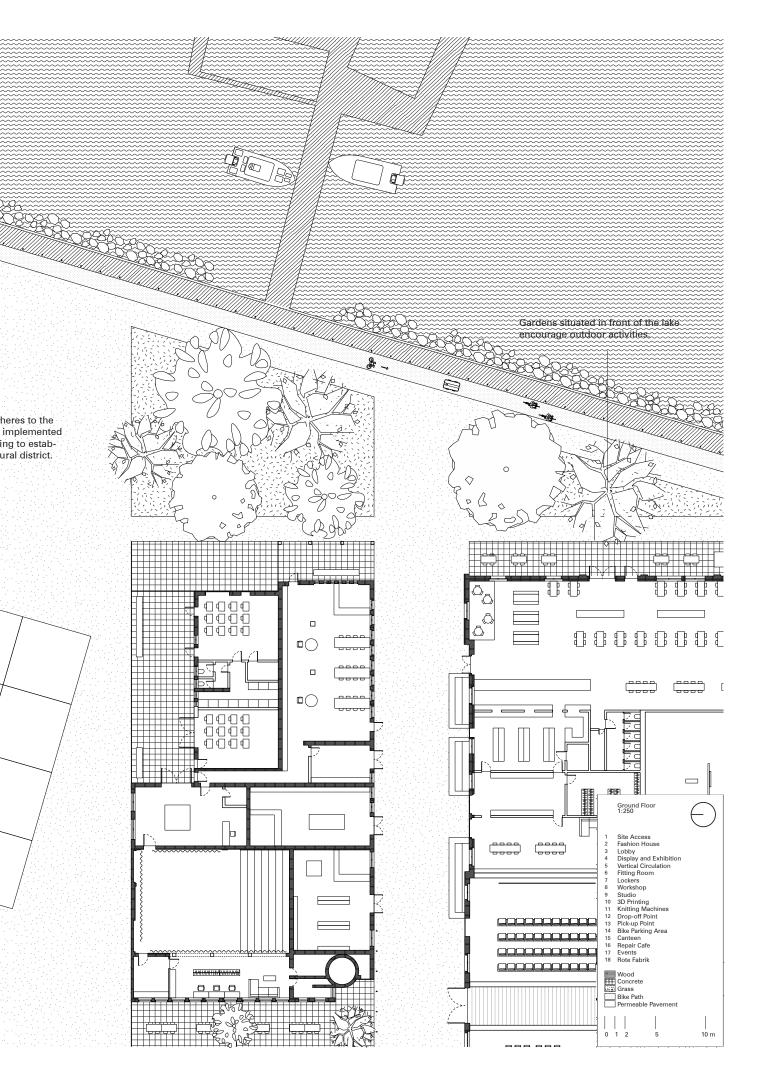


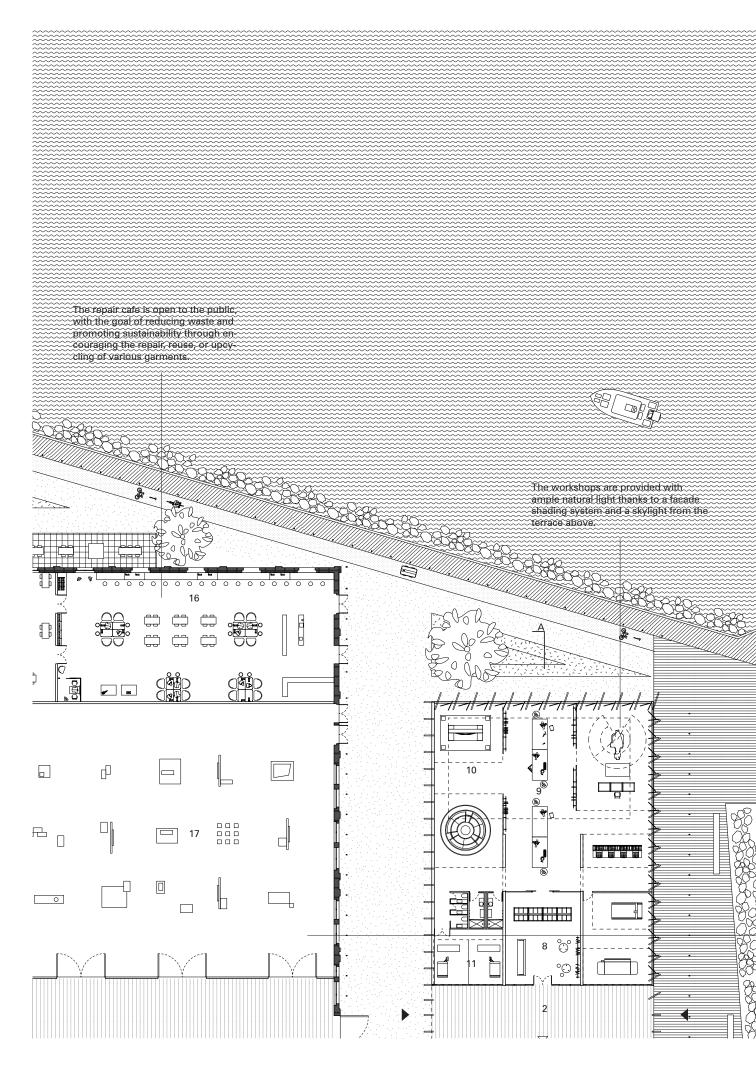


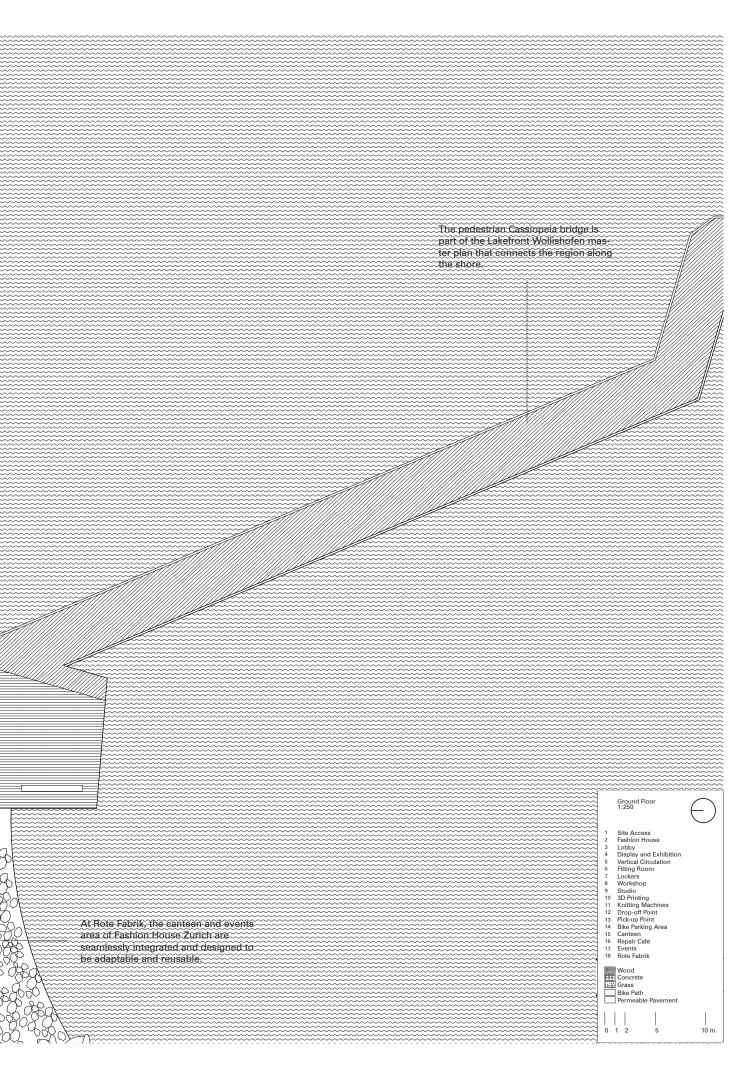


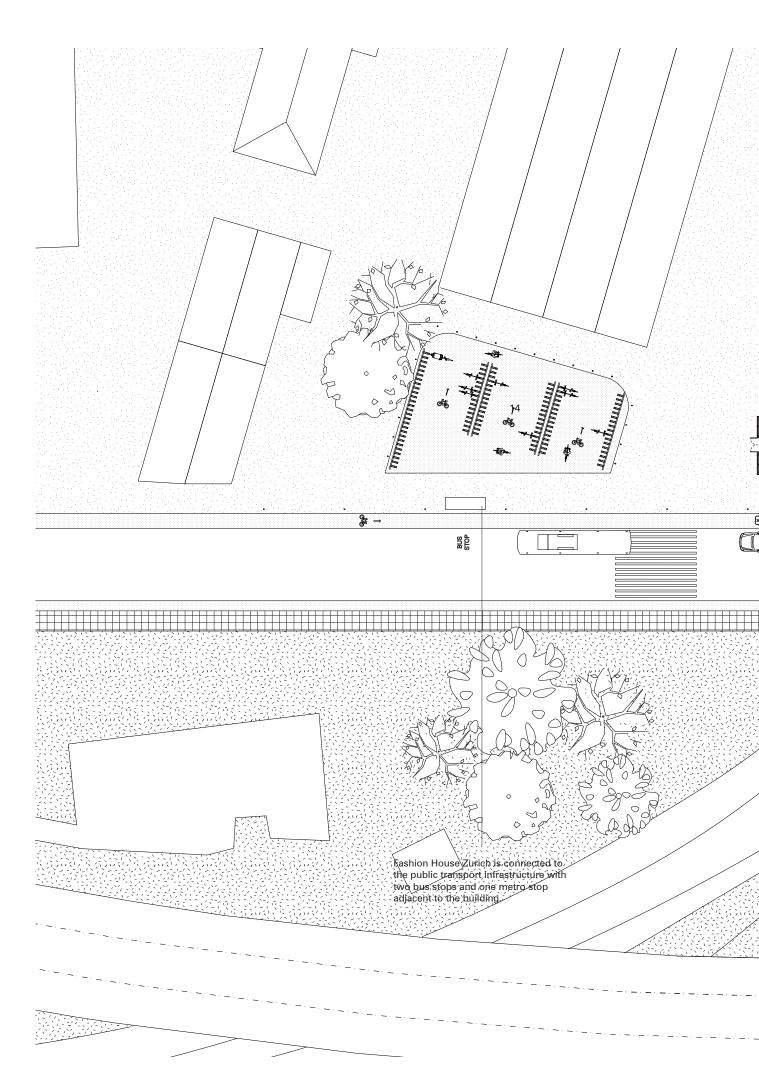


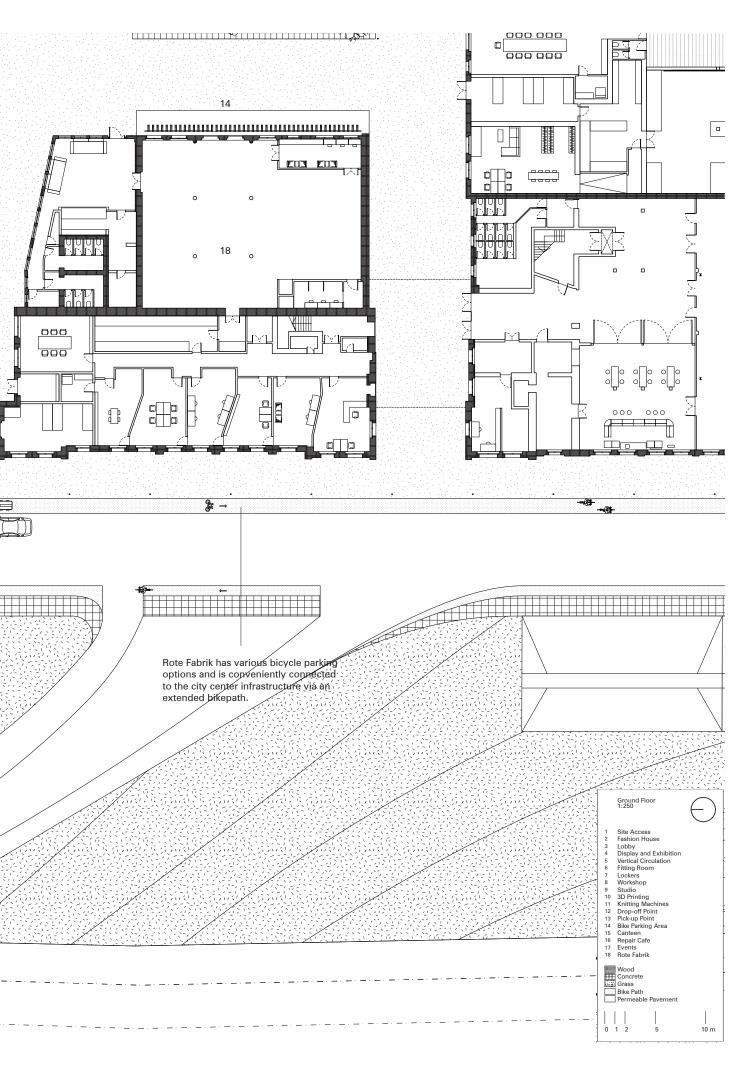


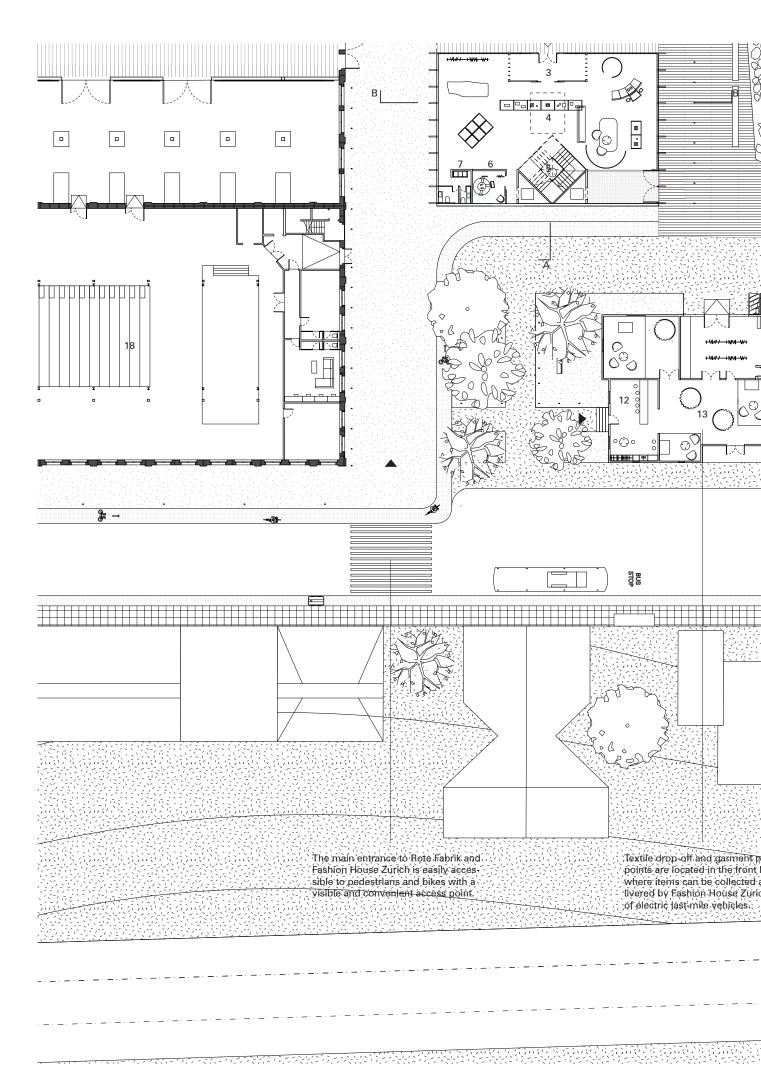


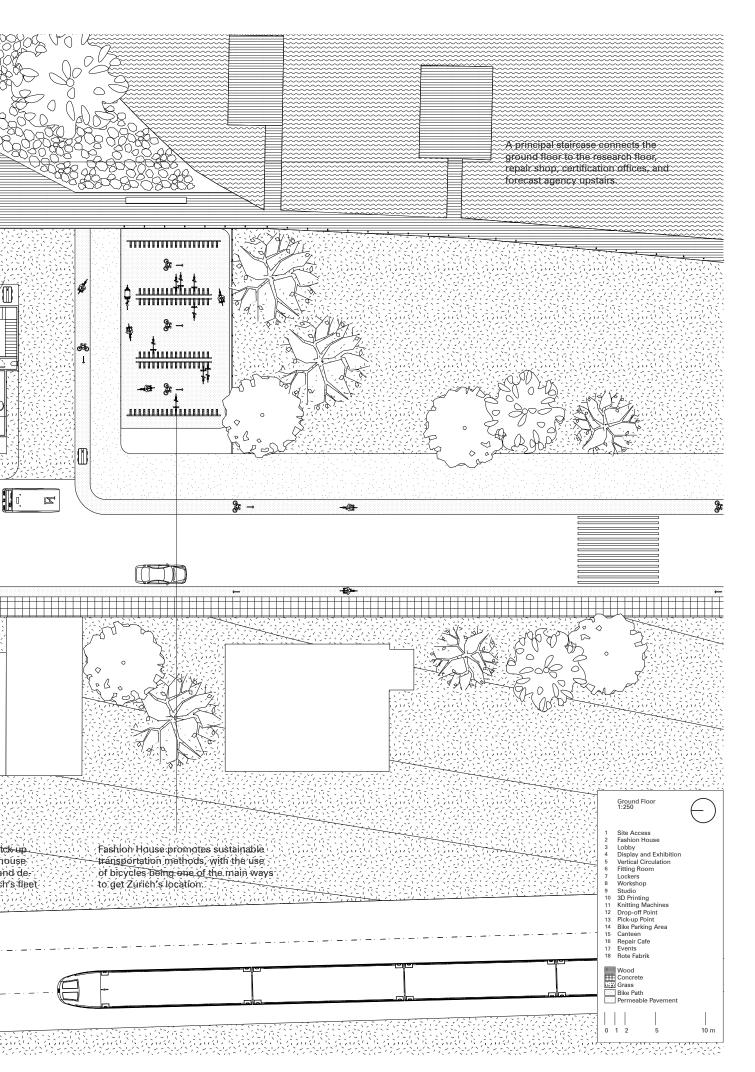




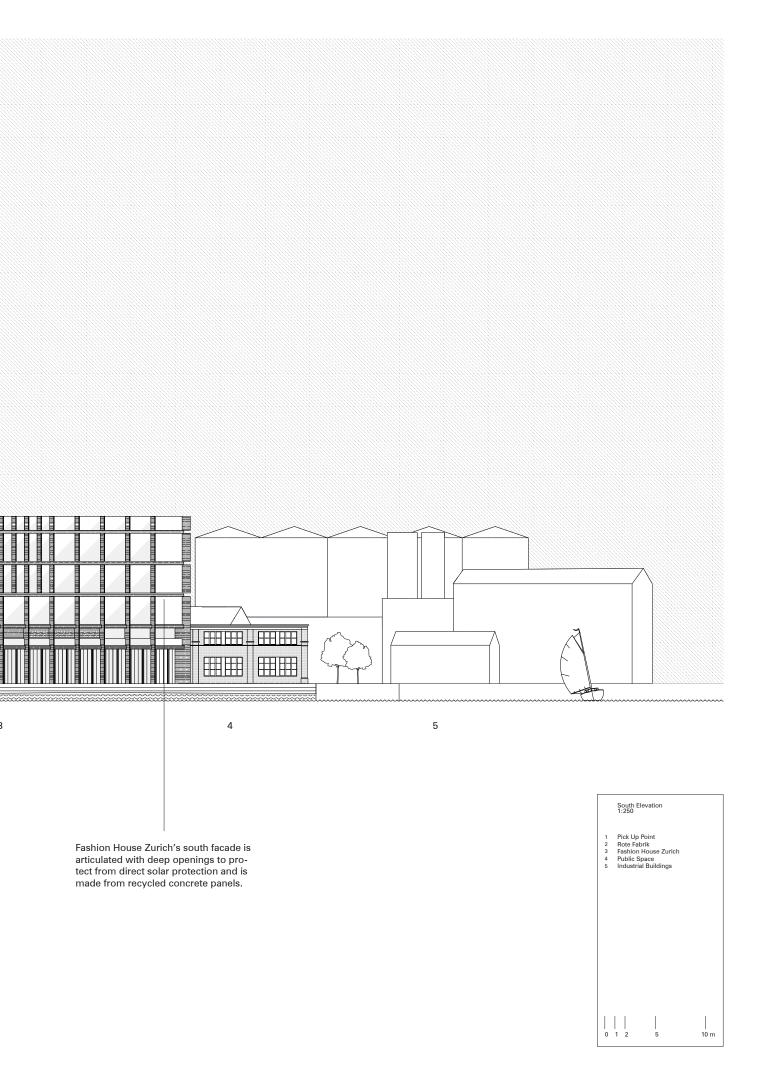






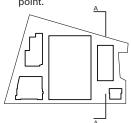






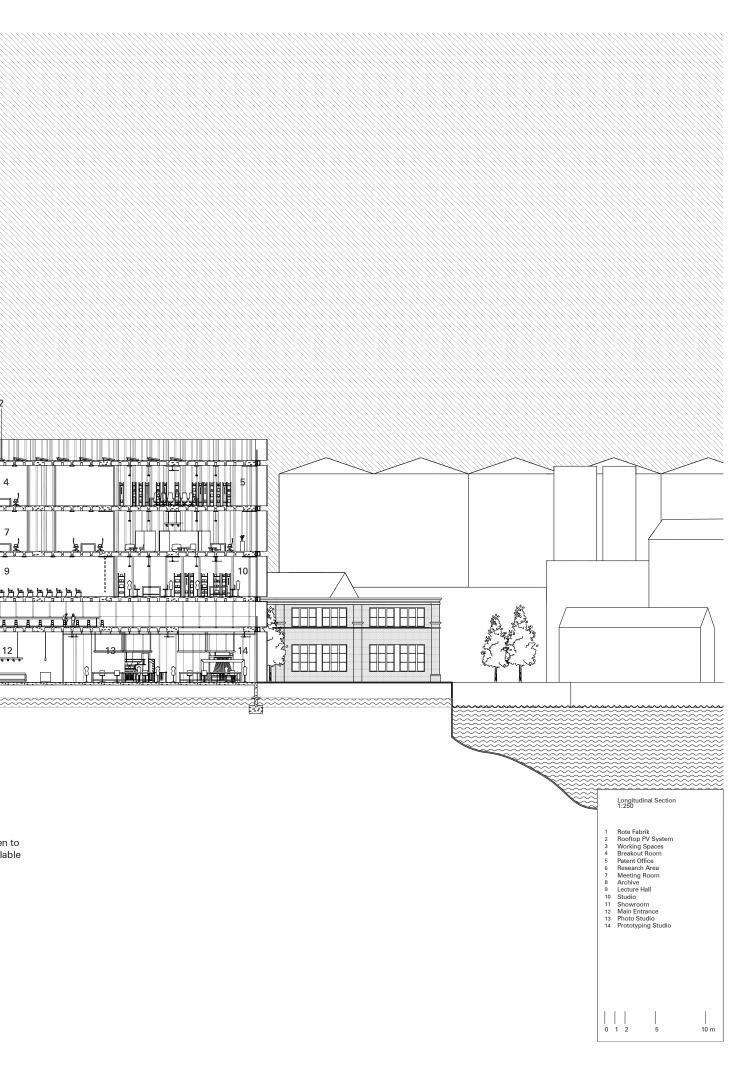


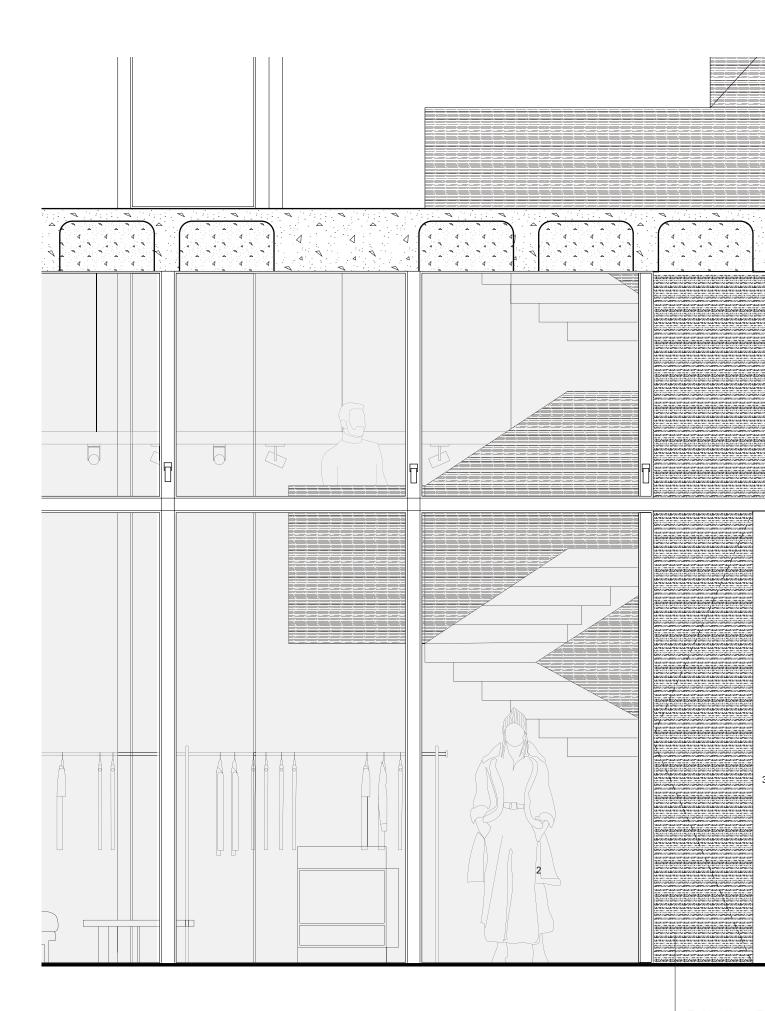
Fashion House Zurich repurposes satellite buildings on site: the former street-facing house is converted into a textile drop-off and garment pick-up point.



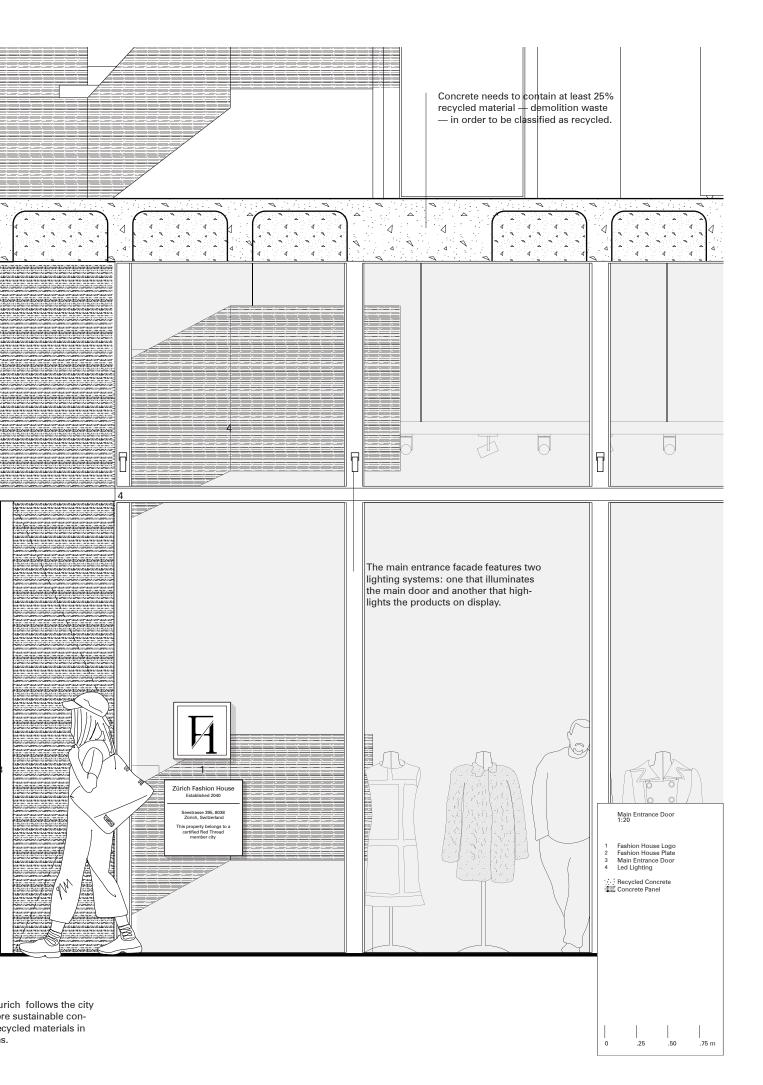
The existing street-facing house and Fashion House Zurich are connected by a garden, creating a seamless connection between the two properties.

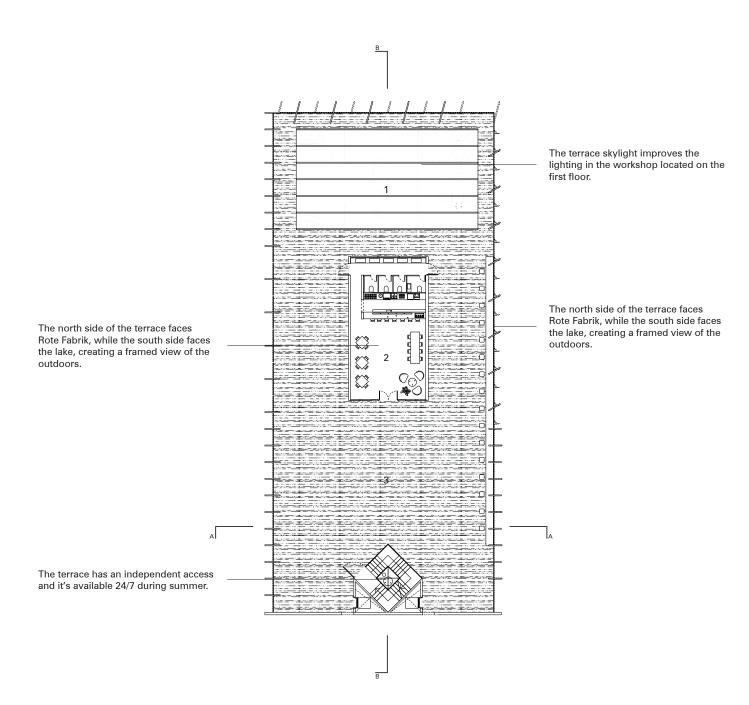
Ground floor and terrace are open non-members, and they are avail 24/7.

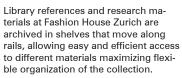




Fashion House Zi incentives for mo struction using re new construction

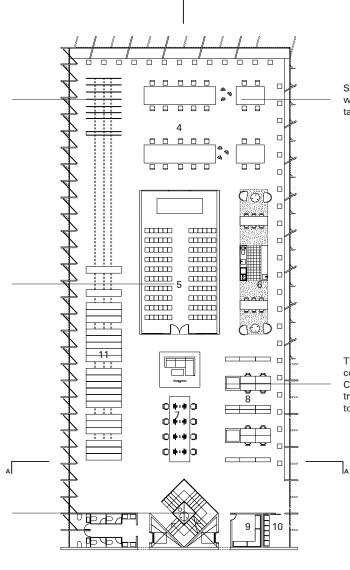






Each floor has a central core which serves as structure and encloses the most private activity in each floor like the auditorium in the first floor.

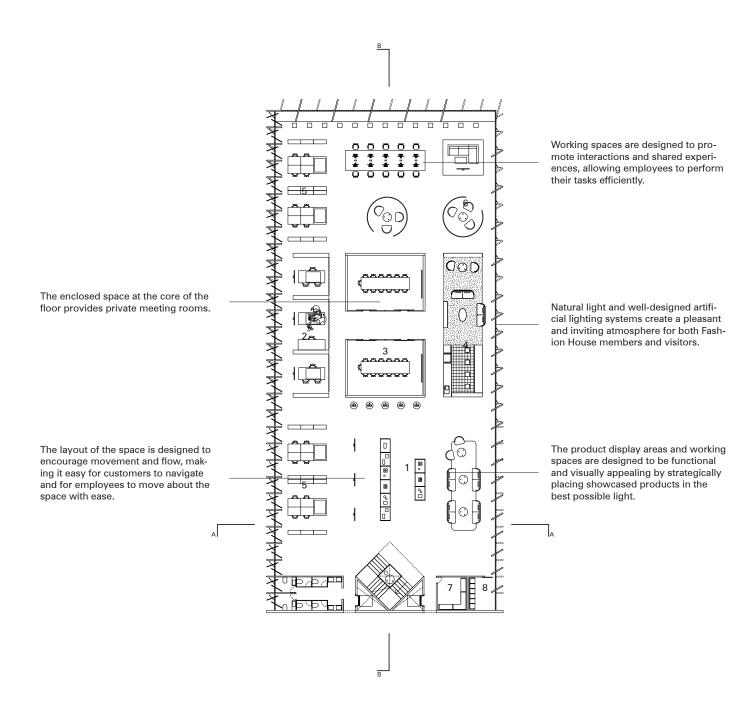
Fashion House Zurich concentrates vertical circulation and building services into a solid core at the western edge of the building to liberate the remaining floor area to be an open workspace.

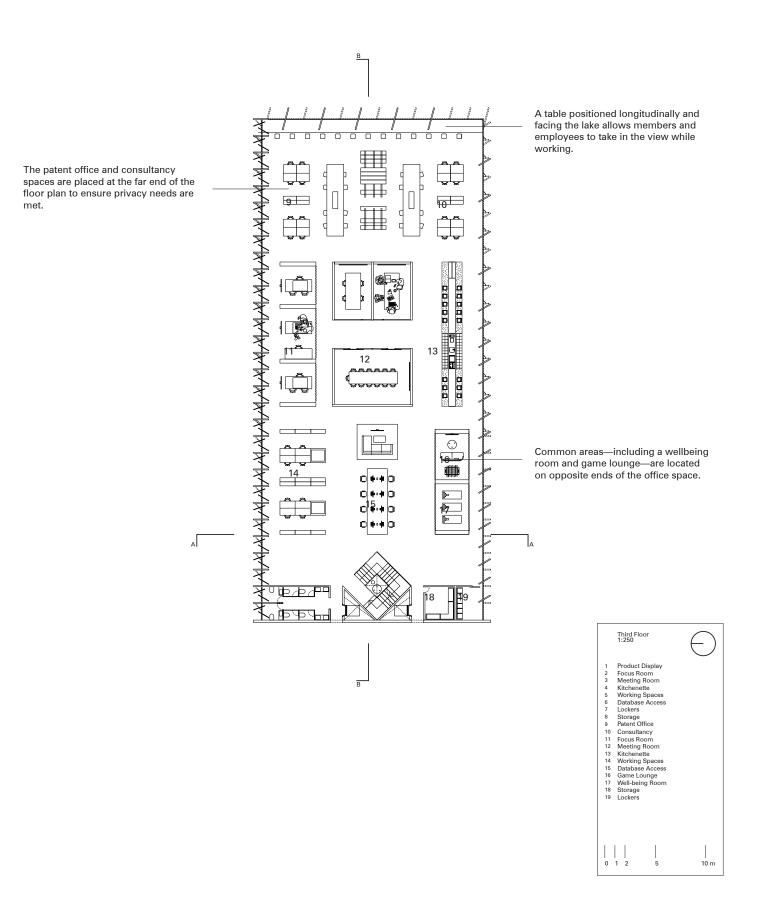


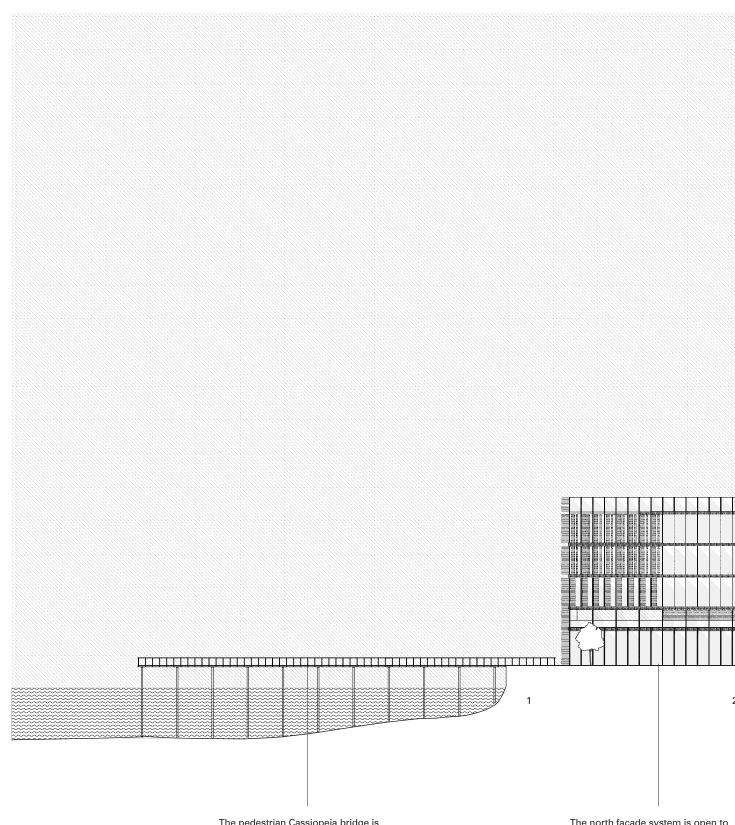
Studio areas allow members to work with large materials on comfortable tables.

The research area is equipped with computers and resting spaces Circulation and services are concentrated at the west part of the building to open up the floor plate.



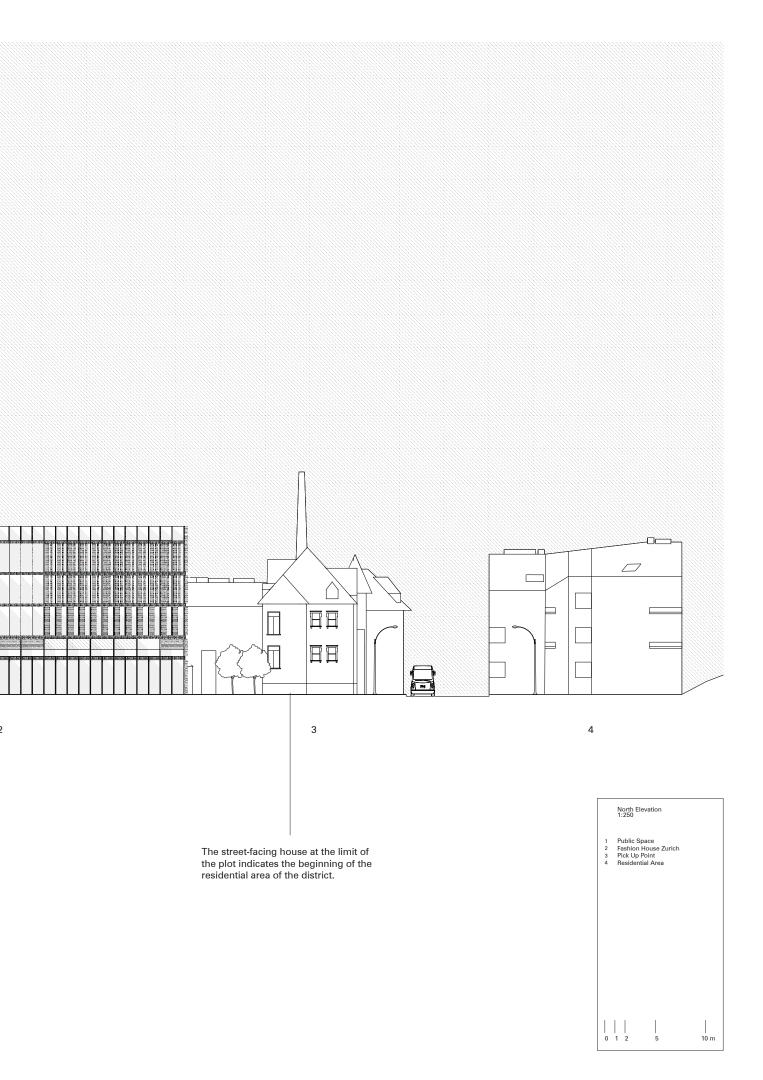


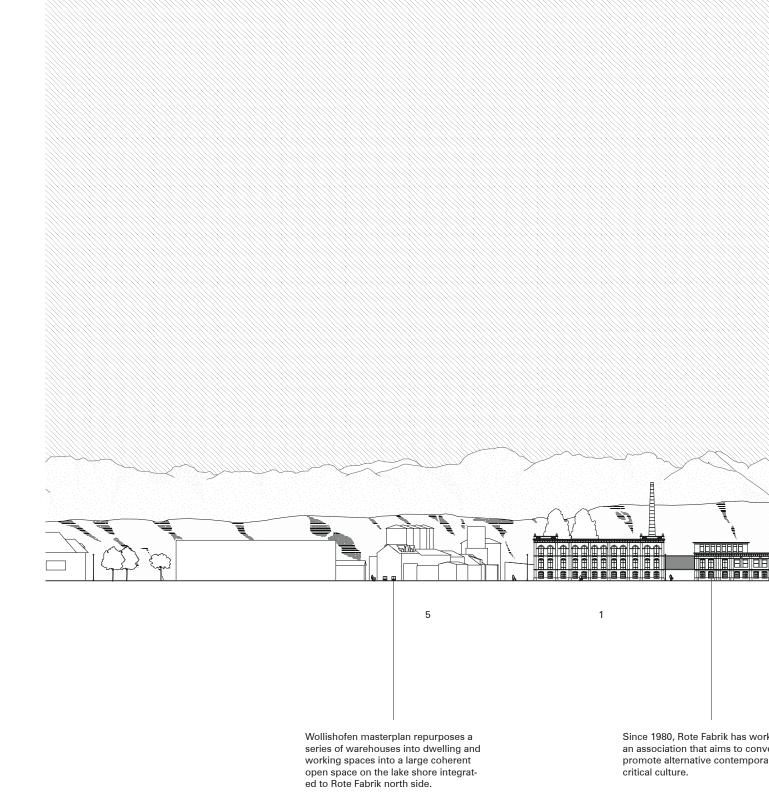


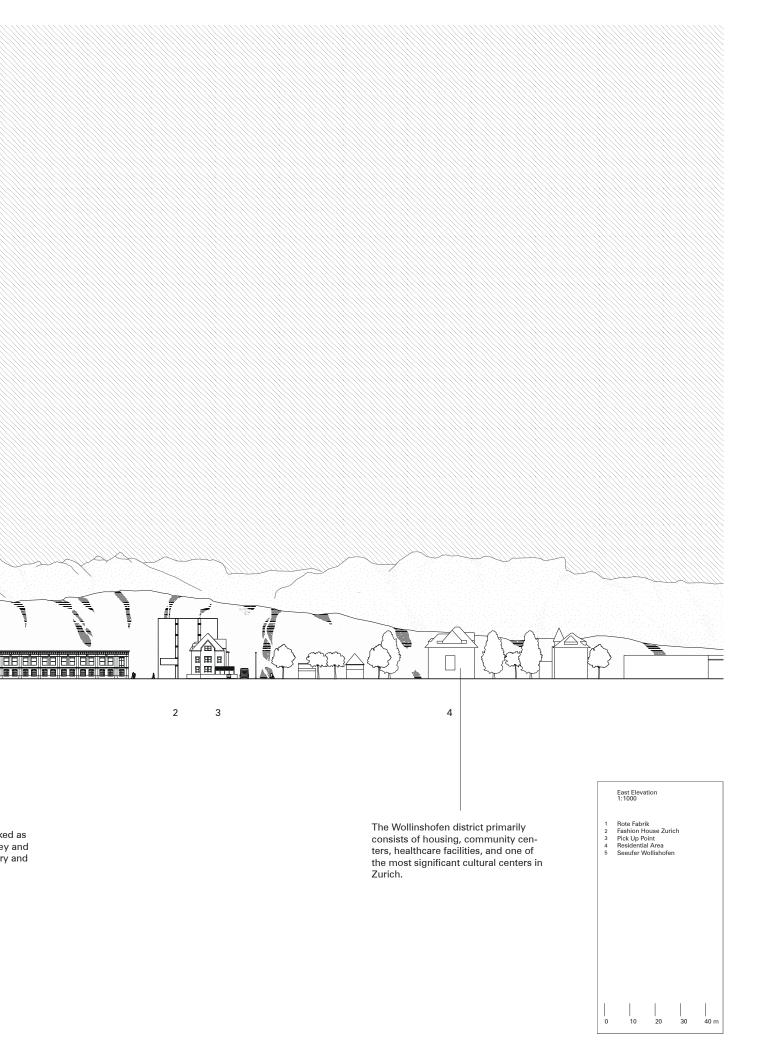


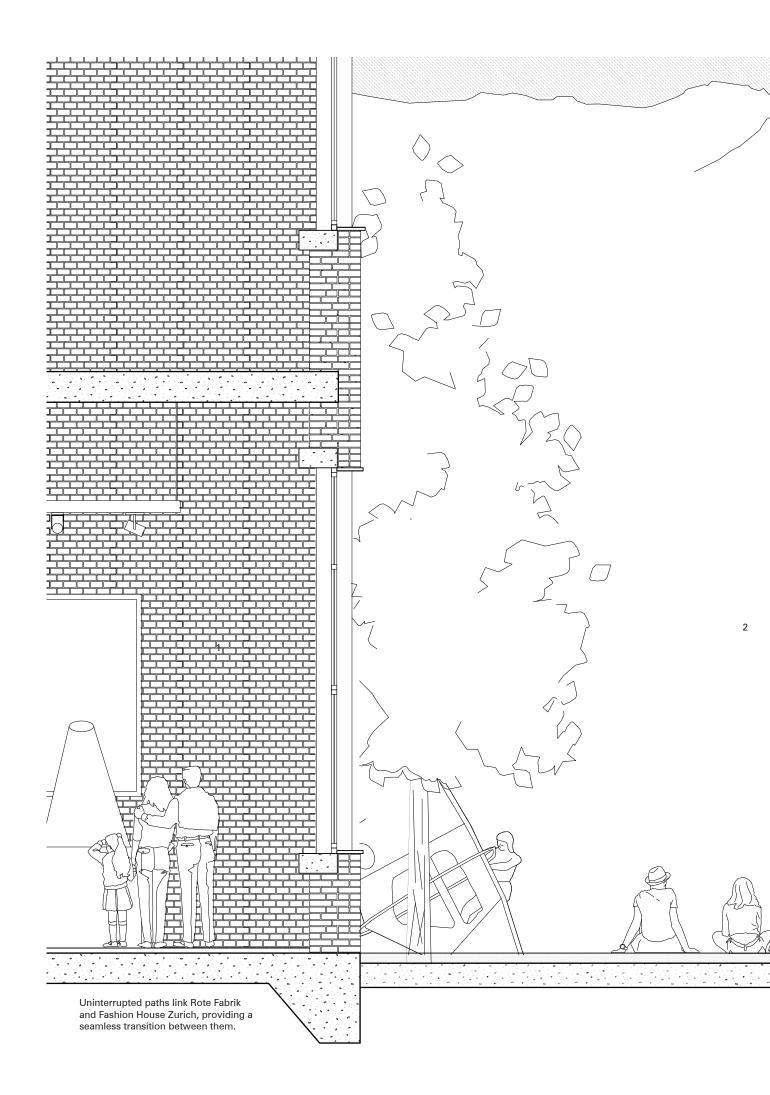
The pedestrian Cassiopeia bridge is a public space that is part of the Wollisnhofe master plan that connects the region.

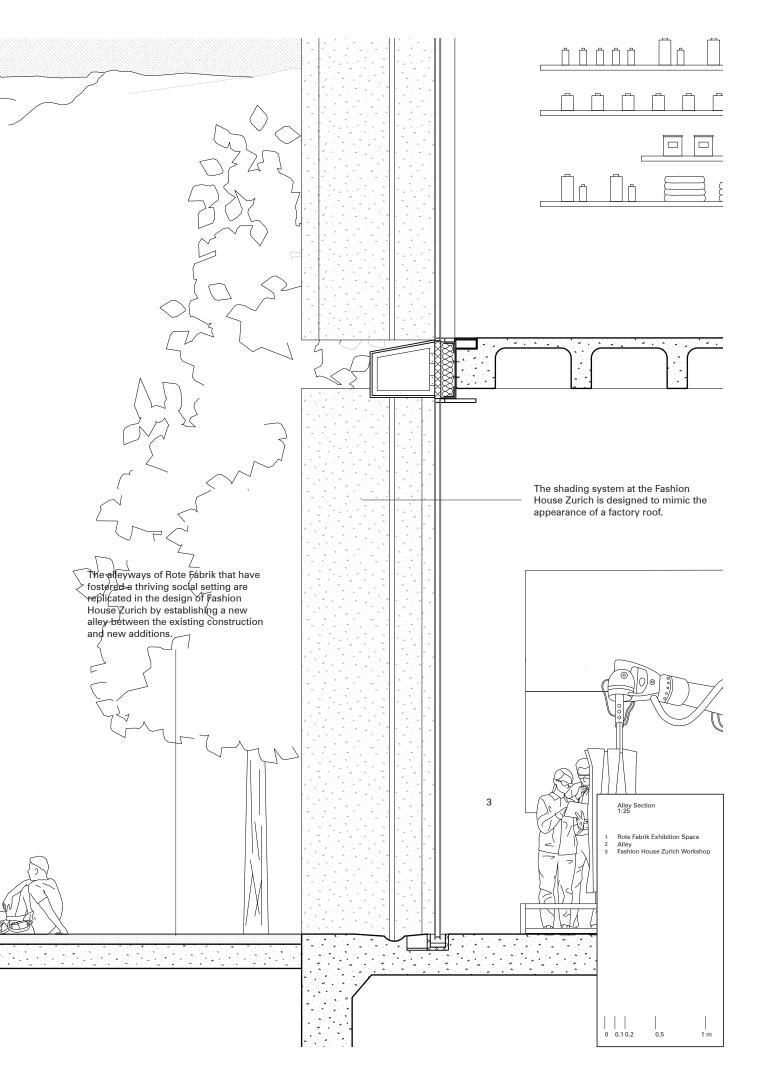
The north facade system is open to frame the view towards Rote Fabrik.













Fashion is technological,

Not only for the available modern tools at our disposal, but also for the innovation that help us do other things better.

Vistapointe.net, Neanderthals clothes speculation (70,000 BCE), 2021

The exact date when fur was first used in clothing is debated. It is known that several species of hominoids including Homo sapiens and Homo neanderthalensis used fur clothing. For centuries, our warm clothes meant heavy garnments with high maintainance.

"The Prehistoric Development of Clothing: Archaeological Implications of a Thermal Model". Journal of Archaeological Method and Theory.



Commonly in the fashion industry as a puffer jacket or simply puffer, is a quilted coat which is insulated with either duck or geese feathers. Air pockets created by the bulk of the feathers allow for the retention of warm air.

Cameron, Gwen. "24 Tool User". Alpinist.



The down jacket was created by outdoor adventurer Eddie Bauer in 1936. Following a hazardous fishing trip during which Bauer almost died of hypothermia, the adventurer invented an outer jacket encased with feathers, originally sold as the "skyliner". It remained popular within winter outdoor sports communities for decades.

Yotka, Steff. "The Top 25 Puffers to Ever Grace a Fashion Show". Vogue. Retrieved 2021-02-11.



Until the last decade fiber technology and materials science were confined to specialist but with the ongoing "material revolution", textile and clothes brands are investing in research and development, leading to a increase in functional wearables:

## A) Rising investment;

- Smart textile expected to grow from (2020) \$93 billion to \$475 billion by 2025;
- · Regulation on smart textiles are increasing

## B) Radical experimentation;

- Investments in research and development of new technologies are increasing due to lower cost of cutting edge technologies.
- Patents increasing 8x from 2013 to 2019.

McKinsey&Company, The State of Fashion 2020.











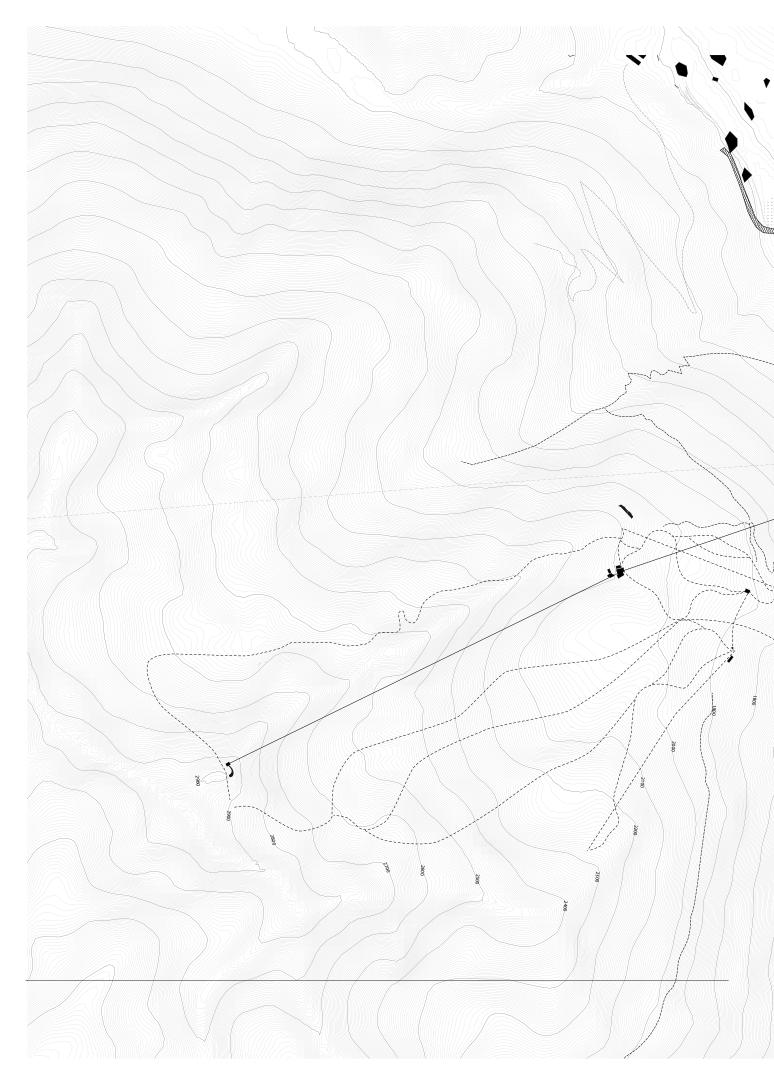


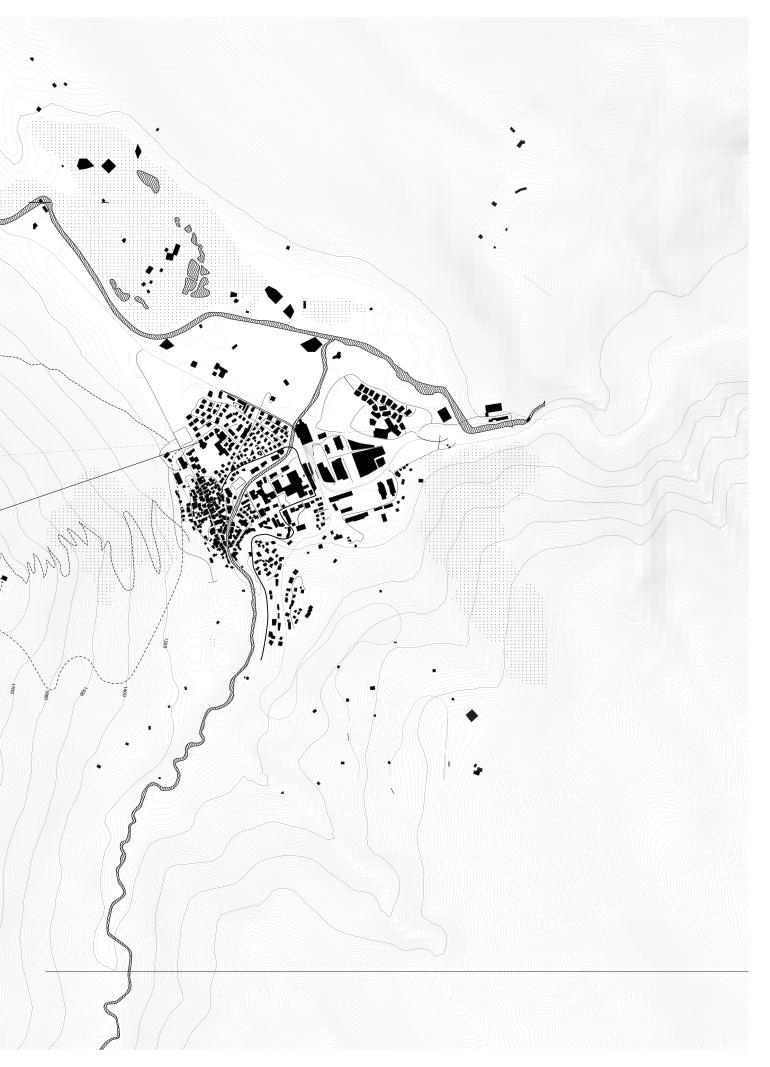


C) Commitment to sustainability;

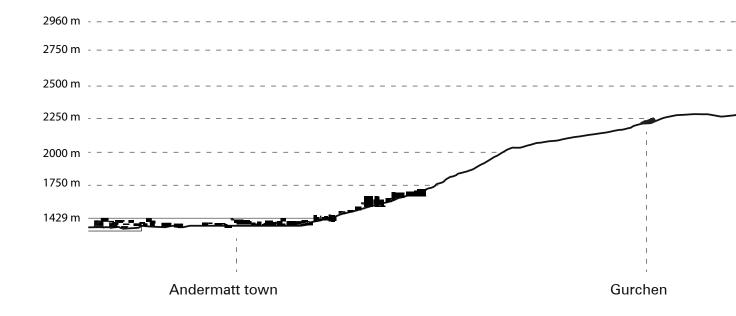
- Consumer shifting sentiment towards consumption due to environmental awareness
- Consumer wanting fashion that reflects their technological lifestyle.

  McKinsey&Company, The State of Fashion 2020.



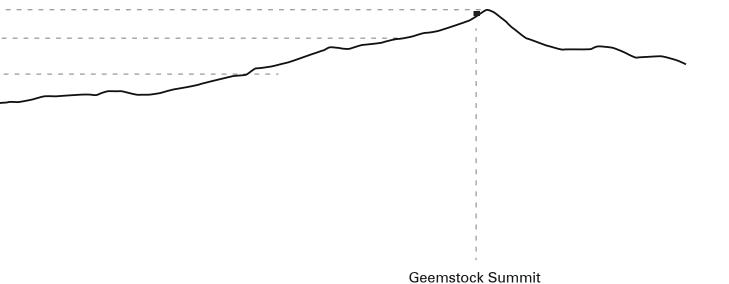


## Altitude Makes



The section profile from Andermatt to Gemsstock summit shows the altitude that creates rel test under extreme conditions





iable snow coverage throughout all seasons, creating the ideal scenario to

# Andermat



## t Attractions



## Andermatt

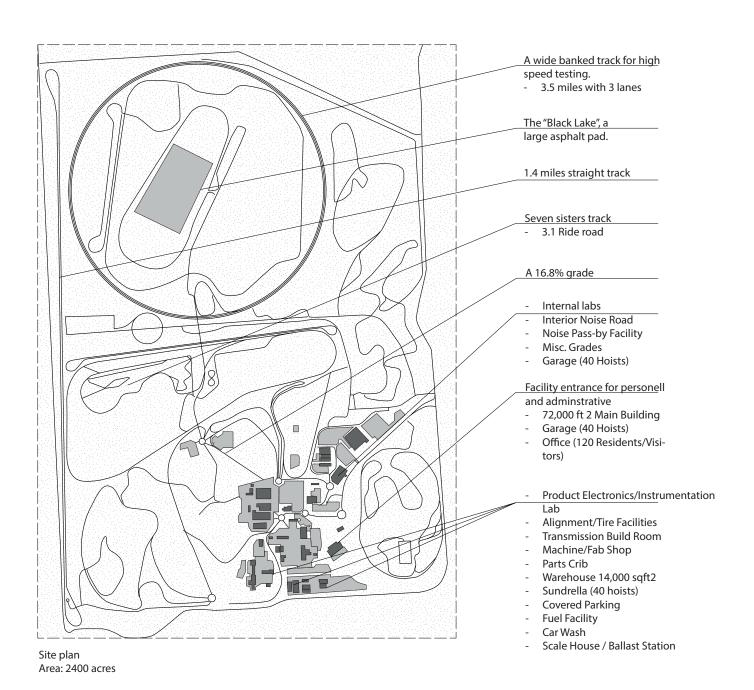


# City Context

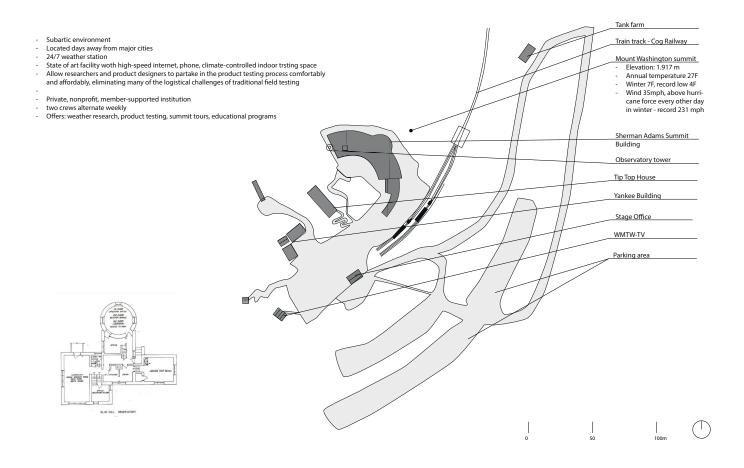




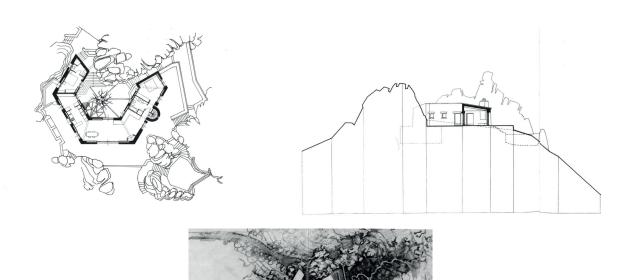
# Yuma Desert Proving Ground GM Motors Research and testing facility for cars on roads under extreme high temperatures



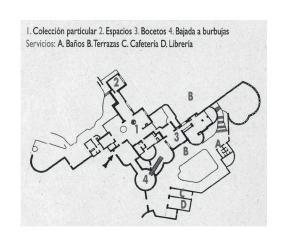
# Mount Washington Observatory Research and testing facility under extreme low temperatures

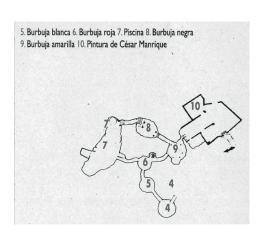


Alberto Poni Casa Gostner - Sardegna, Italy, 1998



Cesar Manrique Tahiche House- Canary Island, 1960













## Bearth & Deplazes Monte Rosa Hut - Switzerland, 2009











of th Dysham Anchorous Churl Zipach.

4 O'D Speller Herman Read Allow St. Speller. Anchorous Churl Zipach.

4 O'D Speller Herman Read Allow St. Speller. Anchorous Churl Zipach.

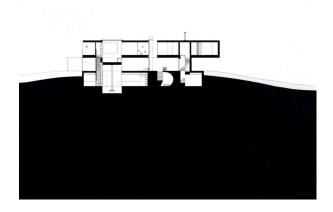
4 O'D Speller Herman Read Allow St. Speller. Anchorous Speller.







Rem Koolhaas Villa Bordeaux - France, 1998

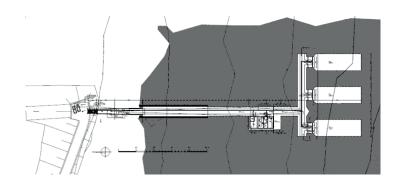


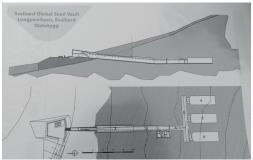






## Atlas of cabins under extreme low temperatures



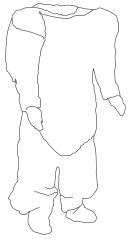








### **Evolution of the Winter Jacket**









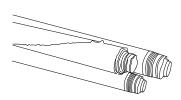


Weight Date Garment 3-4.5kg 70,000 BCE Neanderthals clothes speculation

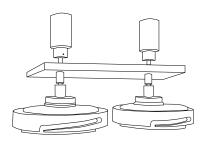
= 100 g

1 kg 1936 The first down jacket 116 g Today Wind jacket

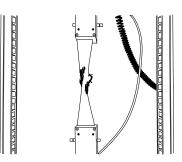
## **Textile Testing Procedure**



Textile Roll ready for testing



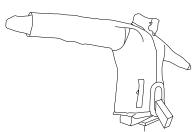
Abrasion Resistance: Rubbing the textile against different surfaces to measure its duration



Stretch Resistance: Stretching from both ends to measure the rupture point of the textile



Water Resistance: Preassuring the textile against water to test impermeabilization capacity.



Air-tight: Inflating the garment to test protection against wind and thermal capacity



Approved Garment

### @ThePowerOfTrust



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Bear Grylls\_Survivalist Somewhere into the wild



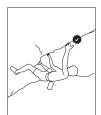
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Pauline Ferrand-Prevot Best World Biker 2022



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Adam Ondra Andermatt - Geemstock Mountain



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Ed Stafford\_Survivalist

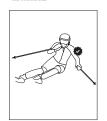


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Mikaela Shiffrin Ski Best world skier 2022



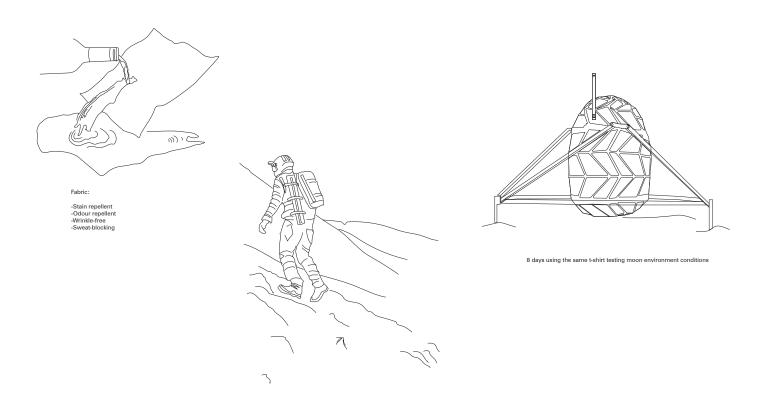
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Douggs McDougall\_Wingsuit Geemstock - Andermatt

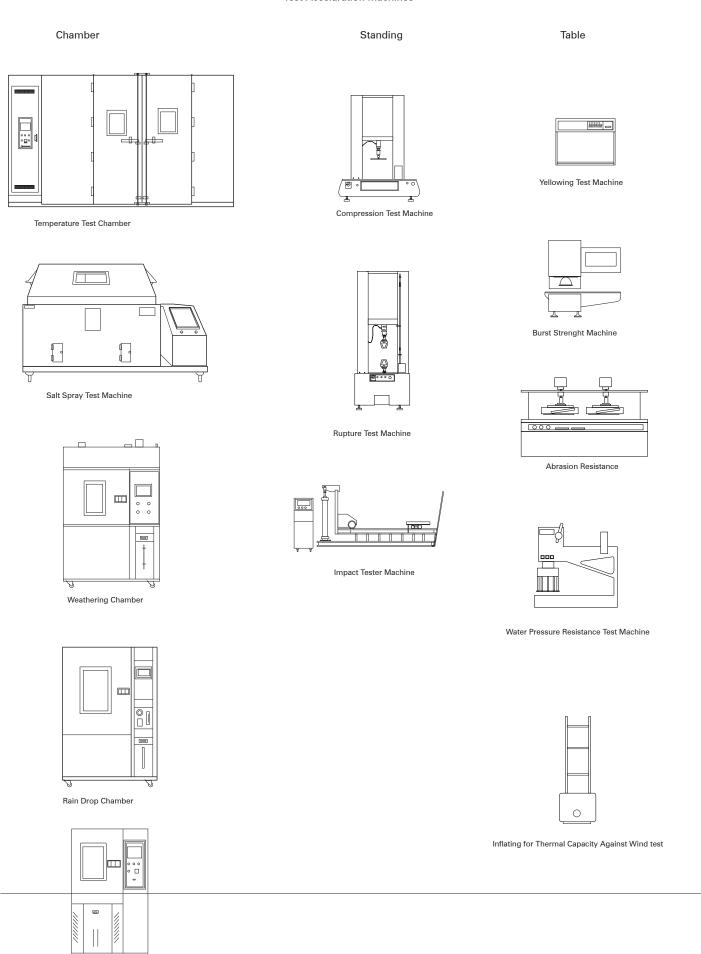
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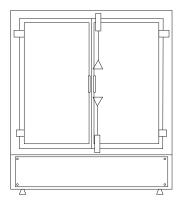
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## 100 days 10 t-shirts \_Moon-proof wear

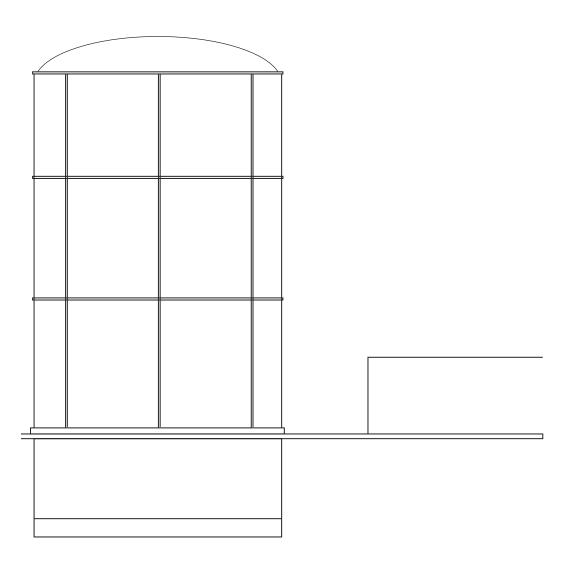


### Test Accelaration Machines

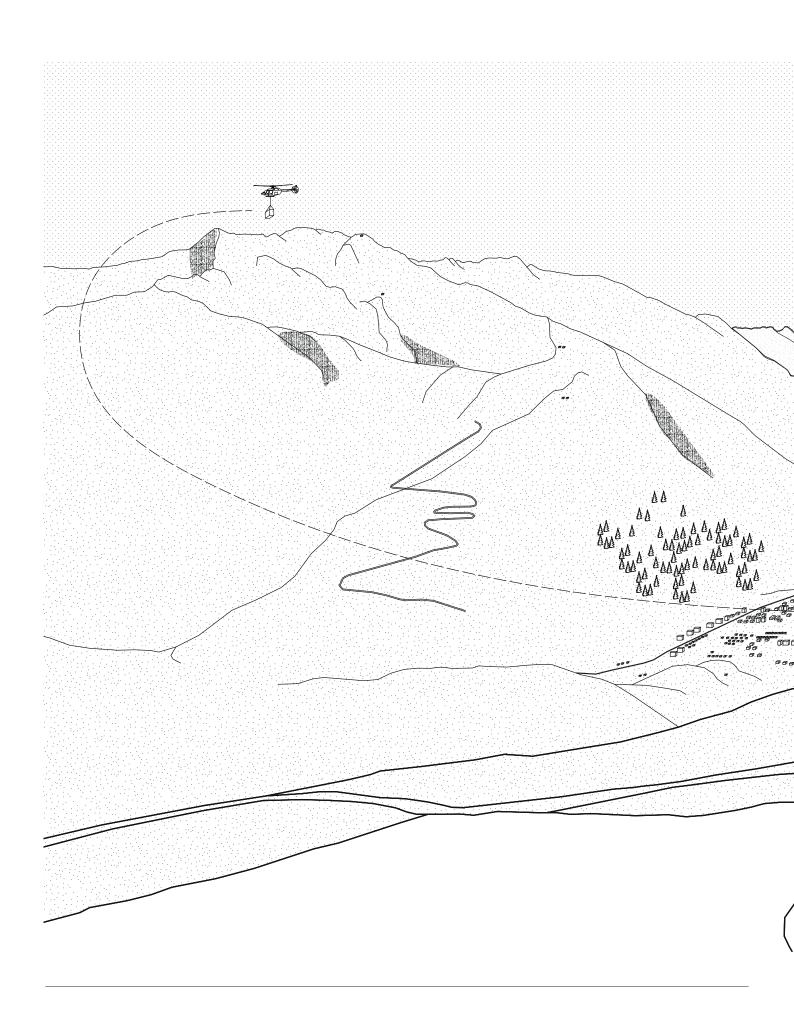




Abrasion Chamber



Vertical Wind Tunnel





Brian Fitzgerald
Director of Education of Mount
Washington Observatory
Speaker CM - Cristhy Mattos
Speaker BF - Brian Fitzgerald

#### CM

Could you please start by stating your name and explaining your carries path at the Mount Washington Observatory? BF

My name is Brian Fitzgerald, I'm the director of education for Mount Washington Observatory, I started my observatory career as an intern, an internship on the summit. So sort of learning about and supporting the main operations of the summit weather station. And then I was fortunate enough to become a weather observer myself. So I was a weather observer and had sort of a joint position as an educator. So it was education sort of focus. And so I carried out what is still the core responsibilities of our operation, which is measuring the weather. And so we're unique, particularly for North America, in that we're a weather station that has human beings manually recording weather observations every single hour of the day, 24 hours a day, seven days a year, 365 days a year, and we report that to the National Weather Service. So our federal government, we have a contract with them to provide that data, though we are a private, nonprofit organization, so it's unique for a variety of reasons, but those are sort of the big ones. The federal government collects lots of data. They also do purchase it from private organizations as well, like

But to be a nonprofit mountaintop weather station is a little unusual. And to have human beings living and working up there is even more. So I know in many ways sort of inspired by some of the observatories that are out in the European Alps and things like that, where some stations that have continued to exist. But at any rate, yeah, we've been going for about 90 years now, 90 years as of this October, measuring the weather. And now we have a long term look at climate in

the mountains of the northeastern United States for that reason. And since 2016, I've been the director of education. So not on the summit as much, but I basically help develop, carry out, and evaluate our educational programs. And those go for a variety of audiences. So school age children, but adult, general adult audiences. And then we connect with academia and things like that, and researchers, things besides. Yeah. So programming for a variety of ages and interests.

#### CIV

That's really interesting.
Could you describe the main
activities of the mountain Washington
observatory? So there's the educational
program, the weather monitoring, and
also product testing.

#### BF

Yeah, so we kind of break it down into three different categories. One is the weather operations, so that's measuring the weather, but it's also forecasting the weather as well. So our observers put out a mountain weather forecast twice a day.

CM Okay.

#### BF

The other piece is research projects and product testing. So either conducting research projects using our own data and measurements, collaborating with other researchers, or researchers might come and do a project on site using our data, or off site, they might use our data to conduct a project. And then we do product testing so that's everything from outdoor gear and clothing to things like wind turbines to windows, robots, hug, coffee machines, little automatic coffee machines, and medical devices too. So people aren't only coming just to test in the outdoors in the harsh environment. So high wind, cold temperatures, lots of ice, those sorts of things. We're a relatively high elevation for the Northeast, the highest peak in the northeastern United States, and so we sit at about more than a mile above sea level. And so there are some consumer products that are tested for high elevation. So in the case of, like, coffee machines and even, like, dialysis medical equipment and things like that, they're testing products that maybe it's a city like Boston that doesn't want to

have to ship their stuff out to Denver. Colorado or in the mountains out west, we're a little bit closer, so they can go drive to the top and test that at higher elevations, because that.

#### CM

Directly I had no idea that would interfere on the performance of the coffee machine.

BF

Yeah, well, pressure pressure changes with height. So when we bring bags of even, like, potato chips to the summit, sometimes the bags will actually pop before we get to the summit. The pressure difference is that much? It's about 20% difference.

#### CM

That's a great difference. Okay.

#### $\mathsf{BF}$

I forgot educational programs. And that's the last piece. Yeah.

#### CM

Okay. So just to clarify a little bit further, first, the product. A company could just hire the service to ask for the testing in specific items. Like, I want to see how performance in this and this and this. And then you also from.

The Mount Washington Home
Observatory. If people from It wants to make projects or want to research these or university, say, like, hey, can we research? And then you do partnerships in this manner.

CM

Yeah, correct.

Okay. And then the educational programs. What's the main goal of what you wanted people to get close to the takeaway?

#### BF

Yeah, very broadly, our mission is to advance the understanding of weather and climate globally, but more specifically to our work, we are definitely experts in mountain weather and climate. So we're trying to impart the specifics of how weather behaves in the mountains. And for our community, it's a tremendously popular place to recreate. We're close to lots of major cities that are within a day's drive, so there are just so many people who come to recreate in the mountains. And part of that is educating people how to do it safely. And that's through understanding the

weather. So, yeah, the big takeaways are the safety piece and the awareness around weather. But then from a climate perspective, it's how is the nature of climate and the mountains changing? So people are pretty familiar with climate change in major urban areas may be close to home, but they may not be as familiar with this unique environment that exists in the Northeast, how the climate is changing there.

### CM

I'm going to squeeze in your question. Have you seen like a difference in the pattern of the snow or the cold since we started there, since you were there for such a long time?

#### BF

We have, yeah. So temperature is the most notable, so it's certainly warmed snowfall is well, I should say the winter season seems to be getting shorter. We can see that in our data for sure. But one thing that is kind of unusual is although we've seen significant warming and to some degree less snowfall, there's measurement even just at the base of the mountain. That's gone back almost 90 years now too. And there's a difference between what's happening at the top of the mountain and the bottom of the mountain, really. So what we're seeing through that and what we're kind of theorizing is that, again, mountains can kind of be a place onto themselves where they really stand out and are unique and sometimes they're subject to different exposure to different parts of the atmosphere. And so it may actually be a case that the top of Mount Washington is a little bit like a refuge in some senses from some effects of climate change, but not to a great extent and how long might that continue to exist and some of those things. So again, it's sort of the unique nature of mountains that seems to stand out here

#### CM

That's very interesting, but otherwise it is yes. Consistent with global climate change.

Well, next question it is about the spaces of the Interior organization of the Monte Washington. I saw there were different buildings as an architect. Obviously, I researched to see if I could find, like, a floor plan to understand how a weather observatory that also

test programs are organized, because, honestly, something type that I never studied. So I was curious to understand how the inside of it is organized. If you can share a little bit.

#### BF

Yeah, sure. Well, so I'm happy I can share my if you give me permission to share my screen, I could kind of describe a little bit, and there may be some interior photos that I could share after the fact.

#### CIV

Okay. You were a host now.

#### BF

All right. Yes. Mel washington is a complicated place from a landowner perspective. Give you the full history because we'll be here all day. So Mount Washington Observatory, again, is a private organization. We're not for profit, and we exist within. Right here on the top of Mount Washington is a state park. It's state owned land by the state of New Hampshire, and then it's surrounded by national forest. So federally owns land. And then there are private roadways, a private cog railway that goes to the top of the mountain. So there's a number of different landowners. So we actually rent our space from the state of New Hampshire, and we share the Sherman Adams State Park building, which is this sort of semicircle building here. It was built with us in mind. We preceded the state parks incorporation. We were in a couple of different buildings over our history. One, that's a replica building here that still stands today.

### CM

Nice. Oh, it's a replica.

BF

And then another building that used to exist here that we were in for 40 or 50 years.

So this is our observation tower here at the end of the building. And really, we kind of just occupy this I would say it's like a quarter or less of this overall building. This is the top floor that visitors can walk on the roof of.

CM Okay.

#### BF

And the rest of the building is otherwise space for visitors and home of the Met, Washington State parks, living quarters, and staff as well. So we occupy this observation tower, the floor below the ceiling here, which is the weather station room and workspaces, and then the floor that's all the way down at ground level is our living quarters, kitchen, living room, bathroom, and bunk rooms. So we have 17 bunks total for staff and visitors there.

#### CM

What do you mean by 17 bunks?

BF

So individual beds.

CM

Oh, okay. Because you rotate who stays for one or two weeks straight, right? Something like that.

BF

Correct. We always we typically have three weather observers on duty on the mountain for one week at a time. So one week on, one week off is their schedule. And then we may have interns, visiting researchers, educational program participants, a number of different people who may use the rest of the beds.

#### CM

I see. Interesting. Thank you for sharing this. That's very nice. Yeah, I would love to see the photos as well. If you can share at some point.

BF

Sure. Yeah.

### CM

Something that intrigued me. If the ongoing research projects are a consequence of the educational programs, if some people start doing educational programs and get interested in research or if it's that related or not, how that works?

#### BF

Yeah, that's a good question. I think it does go a little bit both ways. I think primarily it's our weather and research activities on the mountain that spur our educational programs. And so our educational programs meant to be almost like a translation service for what is happening and to either build appreciation or understanding for those services. But in some cases, like, in order to appreciate the research or understand the research, we need to help people build a baseline understanding for some of the concepts involved with some of that

work. So it's very much a part of our mission to, I guess, build that baseline understanding for basic weather concepts and climate concepts, things like that.

CM

So then they can move forward with.

The precise way yeah, exactly.

Makes 100% sense. And then how does the partnership with the universities, universities and the researchers work? Is there an elegance or they approach you or it's open for them to reach? How does that work?

### BF

Yes, it happens in a variety of ways. We have an open internship experience that is really popular with undergraduate students at universities across the United States who typically come from atmospheric science or meteorology programs. But we do work that crosses over into environmental science, computer science, engineering education. So we'll get students that come from those programs, but that's open to different universities. So it's an open, competitive opportunity, largely in the summer. That's when a lot of university students have time to pursue those internships. For research projects, we may have either agreements that are already set in place for partnerships to either guarantee additional either internship or researcher positions for specific projects. So we have a couple of relationships like that now with universities that either might be nearby or further away, typically in atmospheric science programs. And then we'll have researchers even like yourself, who reach out out of the blue who say, I'm doing work related to data you collect, and it may not necessarily be atmospheric science related. We might have someone who's like a biologist who reaches out and says, I'm studying bird populations in the mountains, and I'm curious if you can share your climate data, because I'm wondering how climate may affect migration of birds or something like that.

So we'll get researchers who are doing independent work who may just want our data. And I'm sure there are other situations like that, but anyways, those are kind of the most common situations that's extremely.

CM

Yeah, it's neat when we see the science connect beyond our own sort of like narrower focus of just one aspect of Earth science.

Yes. And on that, do you think the educational problems do contribute to climate change mitigation?

I would like to say yes, certainly in terms of literacy, yes. And helping people understand what are the evidence for climate change and climate change in our region and for some people in their own backyards. In terms of measuring how that may actually impact people's willingness to act, I'm not sure. But the optimist in me says yes, that for some people who may be on the fence or are looking or may come actually away from our programs, feeling like they not only have a better understanding of the science, but perhaps are a bit more motivated to protect the places that they care about. Because people don't really live on Mount Washington or in the mountains themselves, but people care a lot about the places where they recreate and have fun.

Interesting. Yeah, I do. Just this idea of sharing the data and having the experience, I think it already impacts in different levels.

RF

Yeah. We don't have a political leaning and we don't advocate for specific policies. In some ways we might feel limited in our ability to really rally for action, but at the same time, I think there's a lot of public trust in the information that we share, so we're careful to protect that.

Okay. And then I think that's perhaps the toughest one. What do you see for the future of the facility? Facility for nine there is there for 90 years or its ongoing for such a long time. How do you see the future of it? Do you think it's going to continue being the same? You think it's turning to something else or what's the future of the educational programs?

Yeah, that is the million dollar well, hundreds of million dollars. Question so the building we are in now, has it was it's been occupied since 1980? So it's already been around for quite a while. In one of the more

extreme climates in the world. There is constantly ongoing discussion around sort of that topic, what does the future hold? And so, I don't know. We could see ourselves in a building all on our own. We could be in another shared building in the future with other partners. There's a lot of conversation, and maybe I can share a news story or two with you around. There's a commission, a Mount Washington commission that's made up of all the stakeholders that have interests on Mount Washington, including the observatory, that have been going through a master plan process to basically do long term future planning. And there's a number of different interests and priorities that are all being, I guess, being weighed and balanced and things like that. So for the observatory, we want to stick around for another 90 years at least. And so I think in order to do that. We're looking for long term stability and that's everything from establishing and maintaining good relationships with partners or controlling energy costs and where possible, reducing our fossil fuel usage, which is not insignificant.

And we have challenges around implementing renewable energy given the climate and those sorts of things, but literally the climate on Mount Washington because solar panels and wind turbines don't function up there. So our options are somewhat limited there. But at any rate, a lot of it will be continuing what we're already doing. But I think we're understanding and seeing just a tremendous amount of, in some cases overuse and over visitation of the mountain. So I think moving forward, the discussion is really going to be around what is truly a sustainable operation on Mount Washington from a variety of ways and how do we either reduce or spread out the impacts related to our activities along with our other partners. So those are really the big discussions. And so some of that might be, I don't know, more virtual programming of some kind. From an educational perspective, it's, I think bringing students to the summit of Mount Washington where possible, but having our staff also go out to schools and visit them and sort of bring Mount Washington to them to some degree. So, yeah, it's a variety of those things.

Yeah, thinking that bringing people

I can see how impactful it may be for students to just go there and see what's truly about and how it's powerful. I can imagine that. But I also understand it can be a big impact and probably the heating part is the hardest one. It's so too much heat, too much energy as well. Because it's 24 hours.

#### BF

Yeah, exactly. It uses a tremendous amount of heating oil to be able to keep the building warm through the winter months, even in the summer. It does not get particularly warm in the summer months on Mount Washington either. Very few days where you'd want to wear a T shirt and shorts outside.

#### CM

I can imagine.

What kind of products can be tested at the facility? Immediate surroundings of the facility and also inside the facilities. Do you have a laboratory inside how that works?

BF

Sure, yeah. So for product testing, I mentioned the other kind of a wide variety of both consumer and commercial products that might be tested. One thing I left out is weather instrumentation. So if you're a product manufacturer who makes anemometers or thermometer I mean, mostly anemometers really. But there are other things like visibility sensors, precipitation measurement. Basically, if you can get your instrument to work on Mount Washington, it will probably be good enough for anywhere. But we've tested anemometers that are now and even remote weather stations that are now on Mount Everest, they tested oh, wow, washington. Yeah. So for a lot of people, primarily the testing spaces on our instrument tower or out on the observation deck exposed to the elements, there's some amount of testing space. A little further down the mountain along the Mount Washington auto road, we do operate remote automated weather stations that kind of gives, like, a vertical profile of the mountain to look at the conditions as you go up and down. So people may test instruments at those locations, too, and sort of colocate them. And then indoors, we have some amount sort of like a pretty minimalist laboratory space that we may either rent out space we've actually been renting out space to wildlife biologists who have been raising in captivity a rare

mountain butterfly in that lab space, which is pretty neat.

And as I mentioned, medical equipment that might be testing for its use at elevation robots were tested again, for elevation.

CM

Robot? You mean like robotic arms or robotic Mars robots?

BF

I don't even know how I describe it. I'm not sure if you're familiar with the company Boston Dynamics, but they make these fully capable, animal like robots that sort of look like almost like a dog, like some that jump really high. This one, if you took a mule or horse, like a pack animal. And I think this had probably military purposes for it to be able to carry equipment across rough terrain and things like that. So it was using an internal combustion engine, but again, they were testing it to see how it would do at elevation. So it was part testing it on the terrain, but also at the elevation. So, yeah, it's a whole mess of different things that might come to us.

#### CM

True. Completely different spectrum. That's very interesting because you also see it never gets boring, right?

BF

No, it never does.

#### CIV

Okay. Could you explain a little bit what is the relation between testing inside and outside? Or you usually do more outside if it's products related.

#### RF

Probably outside more than inside, because mostly people are coming to experience the weather.

### CM

I see. And is there prototyping at the facility or the person or client will already bring the idea done, and then you just test there.

#### BF

Usually they'll bring something that's a prototype already. We've in the in rare circumstances, we might work with a company or an academic to move through, like, an entire design process, but that's pretty rare.

CM

Okay, well, thank you. Any anything

else that you, thought about sharing with me that I didn't perhaps ask? BF

Yeah, I'm just trying to think what's most interesting for your purposes. I didn't touch on clothing much, but one of our two of our bigger sponsors, corporate sponsors, are clothing companies. So one is like an Eastern mountain sports, and so it's outdoor adventure type clothing. And so they get to basically outfit our staff and say, look at these really rugged people doing this cool thing in a really harsh environment. It's sort of like weather instruments. If it works on Mount Washington, it should work for you. And so it's a mutually beneficial relationship because then our organization gets clothing which is otherwise very expensive, and our observers wear a lot of it and beat it up a lot. So that's helpful.

#### CM

Do you guys provide feedback? Or if some product like this jacket is not performing that much, the other one was better, or something like that. Like this water going through or something like that?

BF

Yeah, we'll go through phases of that. When they're looking to do, like, a new product line, they may actually test out some prototype clothing. Or for footwear companies we've worked with, we've had experiences with that. And some products that never make it.

#### СМ

To market that doesn't work.

#### BF

Didn't work out, or we don't know why, but sometimes we can have some very opinionated staff. So maybe they get a little more feedback than they're hoping for.

#### CM

I see.

Well, once again, I truly appreciate you making the time and sharing with me your work, your journey, and your knowledge.

3F

Yeah. Well, I appreciate your interest and curiosity, and I'll be really curious if there is anything that you decide if this is helpful in any way with your thesis work or anything like that. I'd be really curious to see how it all turns out. I hope it goes well.

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## Description

Try It Out is a prototyping and testing facility for products that perform under extreme conditions. It combines cutting-edge equipment with the rapid growth of influencers reviewing products and emerges as a state-of-the-art facility, where the landscape is a scenario for broadcasting. Furthermore, it becomes a place where designers and influencers physically meet to showcase innovative products, leveraging their final virtual image.

In 2040, research in fiber technology is an integral part of clothing design. Meanwhile, influencers are valuable assets for product development due to their authority in disseminating highly performative products, whith consumers relying mostly on reviews when buying new products. The Research Centre, located in Andermatt, reflects the rapidly changing tendency of testing and dissemination directly in its architecture, with a kinetic facade that performs both regulating internal temperature, as well as, iconically in the landscape in contrast to the exposed excavated stones inside the technological testing laboratory.

Material research becomes increasingly paramount, as material innovation is one of the main drivers for the fashion industry to tackle environmental challenges. The Extra-Ordinary certification ensures the performance of textile used in the fashion industry is tested before moving into further scales of production, to improve the lifespan of fabrics, create betterperforming garments, and revolutionize production processes.

# Propositions

- 1. In 2040 material research shall drive the fashion industry, as material innovation is key to tackle environmental challenges such as the increase of extreme weather.
- 2. Prototyping and testing textile performance are intrinsic part of clothing design and must precede scales of production.
- 3. Textile testing must intertwine cutting-edge laboratory equipment with influencers reviews in real ground, converting the landscape into building extension.
- 4. Within the Red Thread, the research center will revolutionize how fashion is consumed. Using Fashion House Extra-Ordinary certification to ensure long-lasting, higher quality products.
- 5. The reimagined research center must perform doubly. Iconically in the landscape serving as middle and background for influencers to review products as well as on behalf of energy efficiency.

## Extra-Ordinary Certification

The certification guarantees individuals who have completed the requirements for—and have demonstrated appropriate demeanor to—become independent inspectors and reporters that unbiasedly test and promote fashion performance, quality, and durability before mass-production approval. Certified individuals shall conduct performance testing—and disseminate their findings—in laboratory-based environments that consolidate variegated testing equipment, simulated realworld environments, and seductive broadcasting studios to convincingly and objectively report fashion good prototype results. Independently-reviewed, unbiased, and institutionally-endorsed performance testing exposes industrywide malpractice, progressively safeguarding consumers and reinforcing more conscientious patterns towards a more sustainable fashion industry.

External FH Consultant: An athlete involved in extreme winter sports



Fashion House Zurich

Fashion House Zurich has granted the FH certification warrant to

**Extra-Ordinary Certificate** 

This is to certify that, based on the relevant documentation provided by the company, the materials and operations used for the product or service has been produced in accordance with discretionary standards which are recognized by Fashion House. Compliance with the standard has been audited and monitored systematically under responsibility of Fashion House Zurich and the Red Thread.

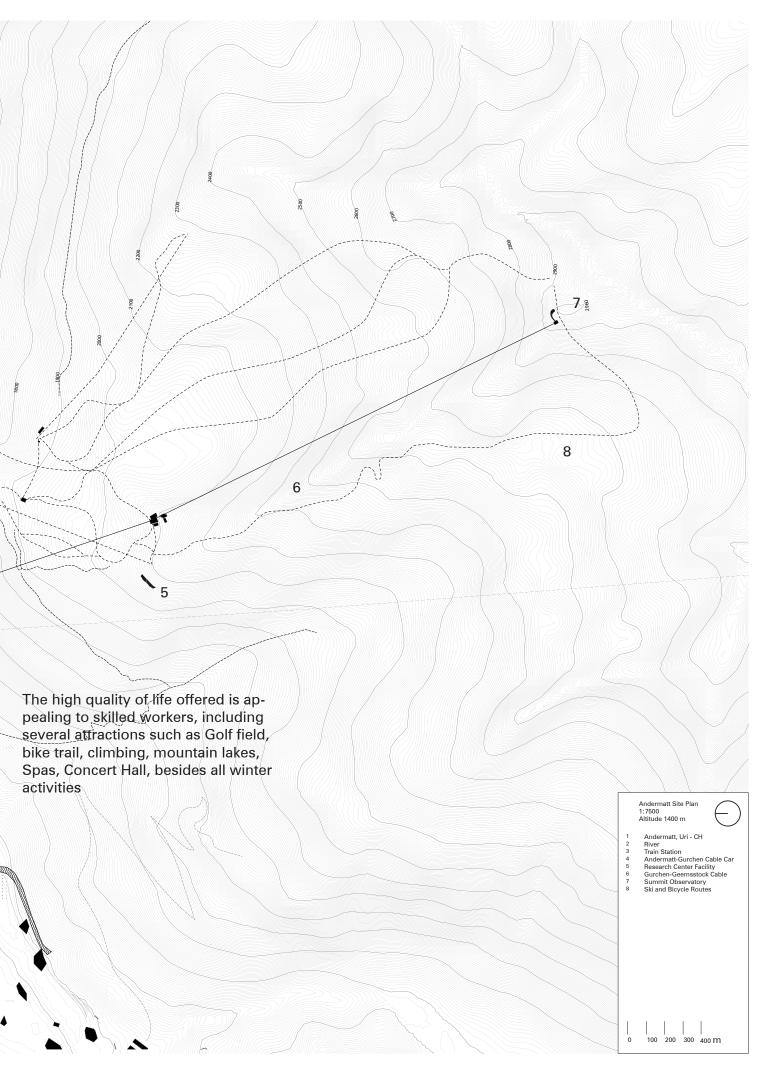
This certificate is granted to *Try It Out* trading under the title stated above and empowers the holder to display the certification warrant in connection with the business but does not carry the right to make use of the warrant as a trademark. The certificate is strictly personal to the Holder and will become void and must be returned to Fashion House in any of the circumstances when it is revoked.

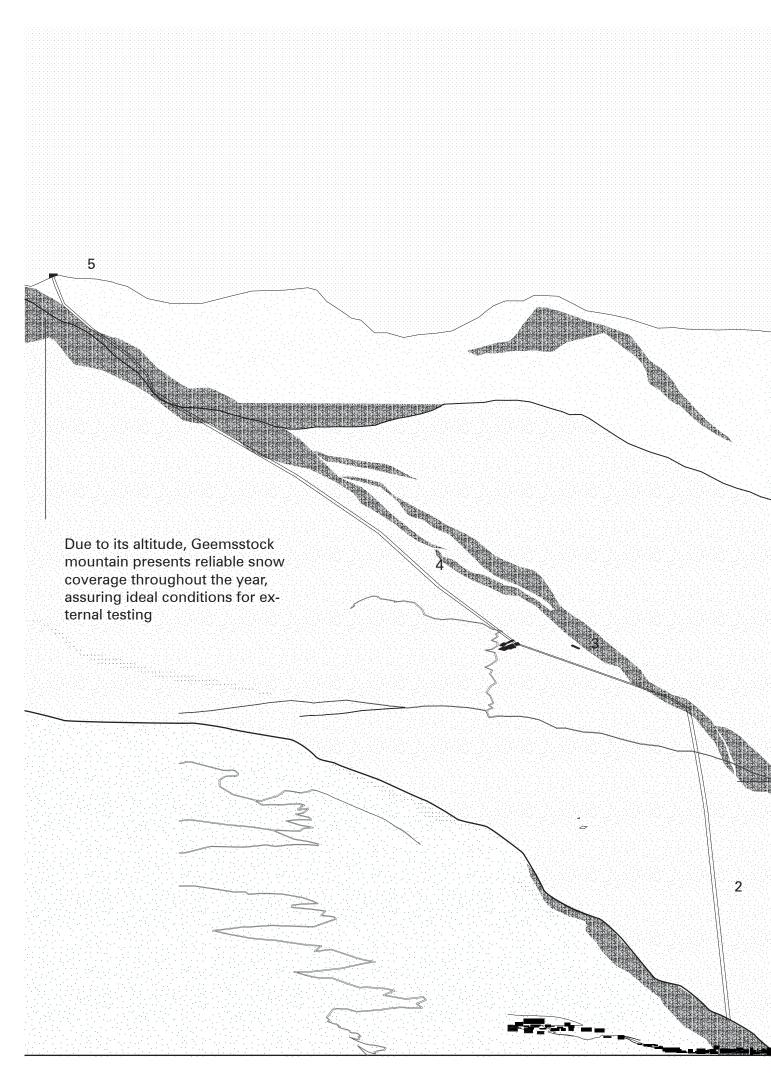
Given under Fashion House Zurich this *twenty third* day of *September* 2040 in the fourth year of the Fashion House

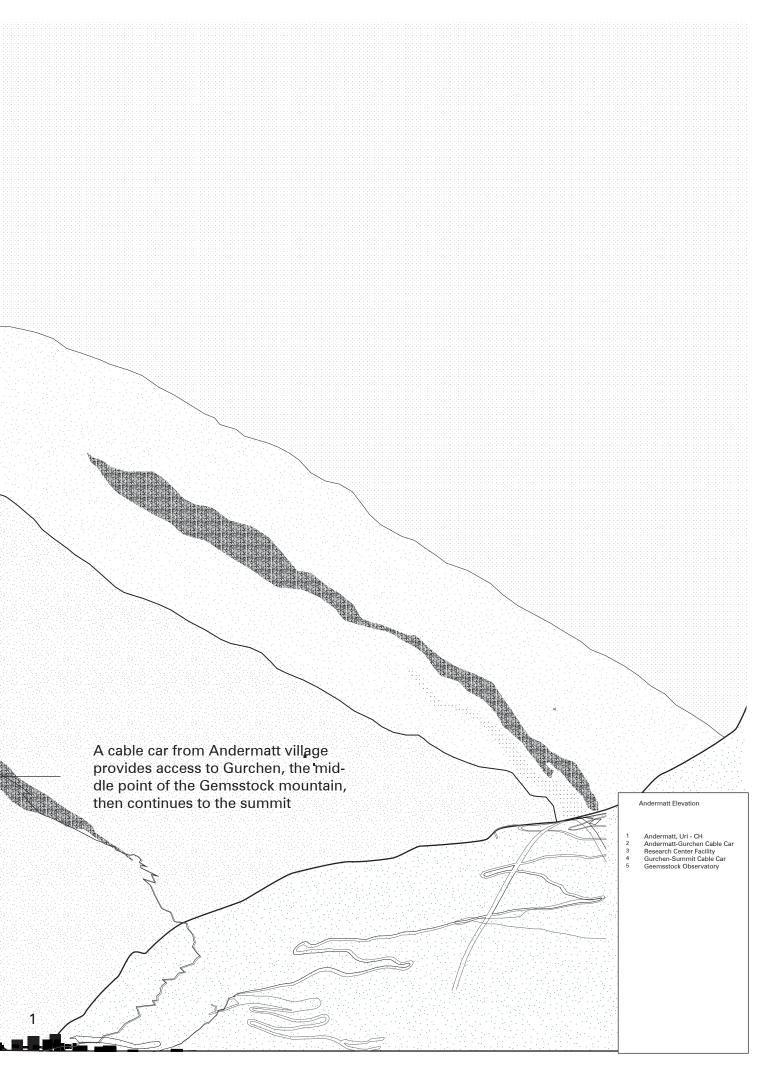


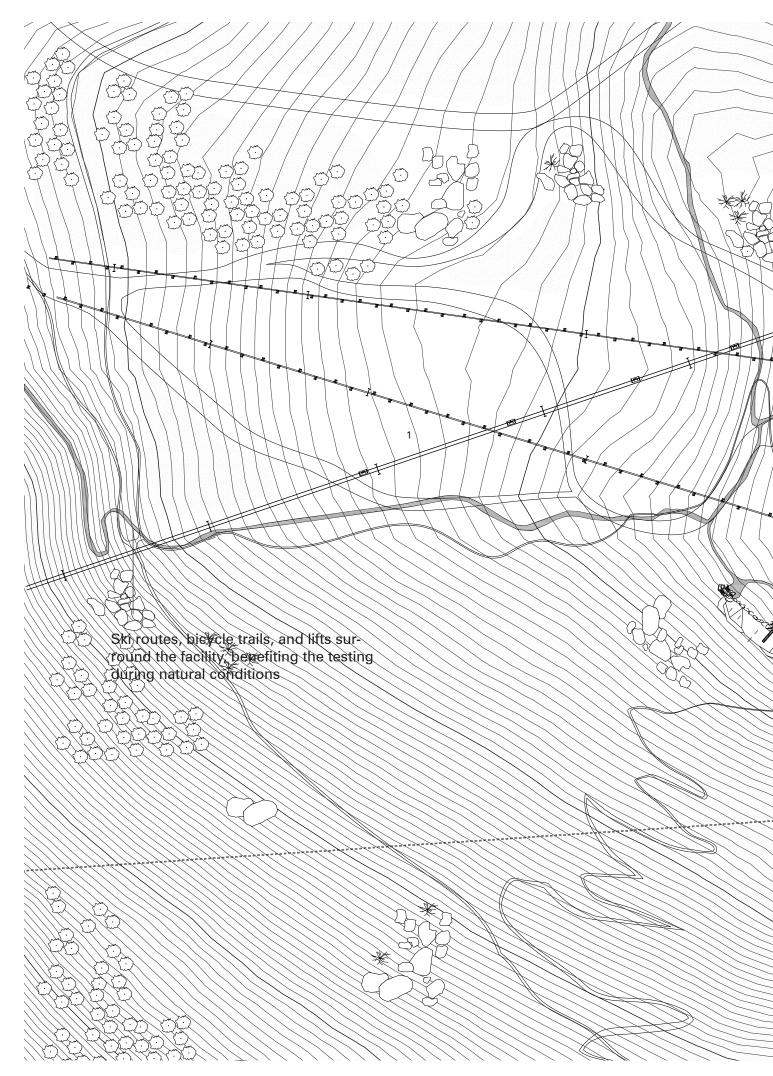
Fashion House Zurich

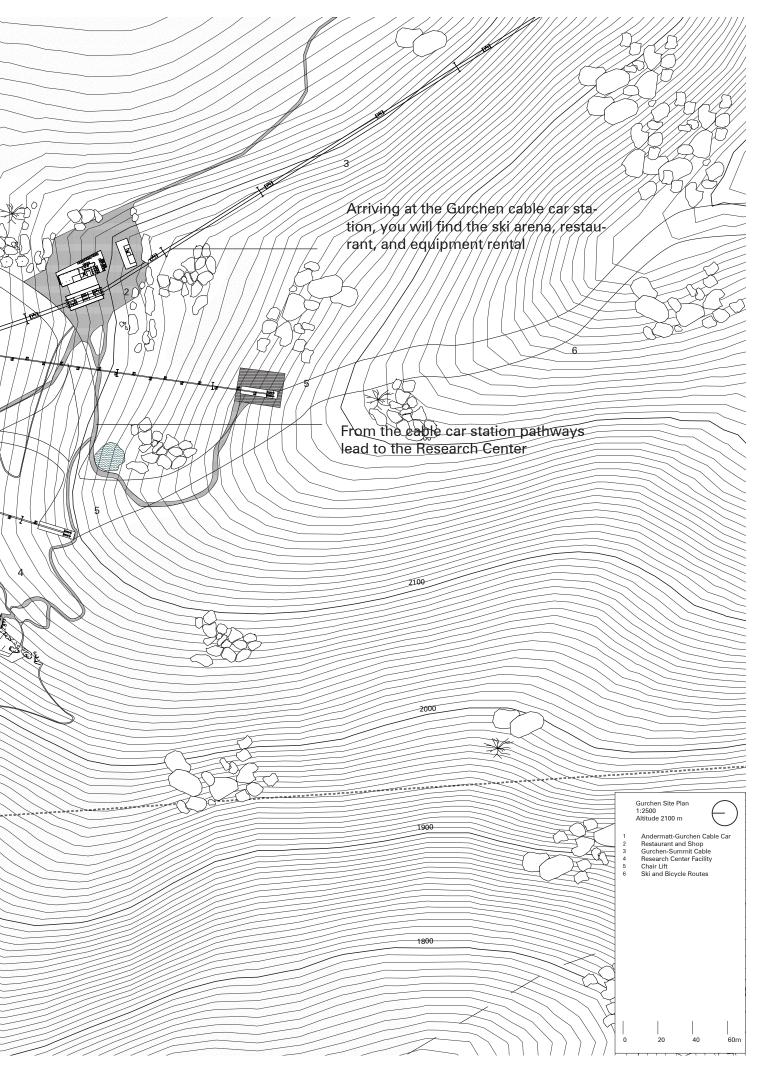


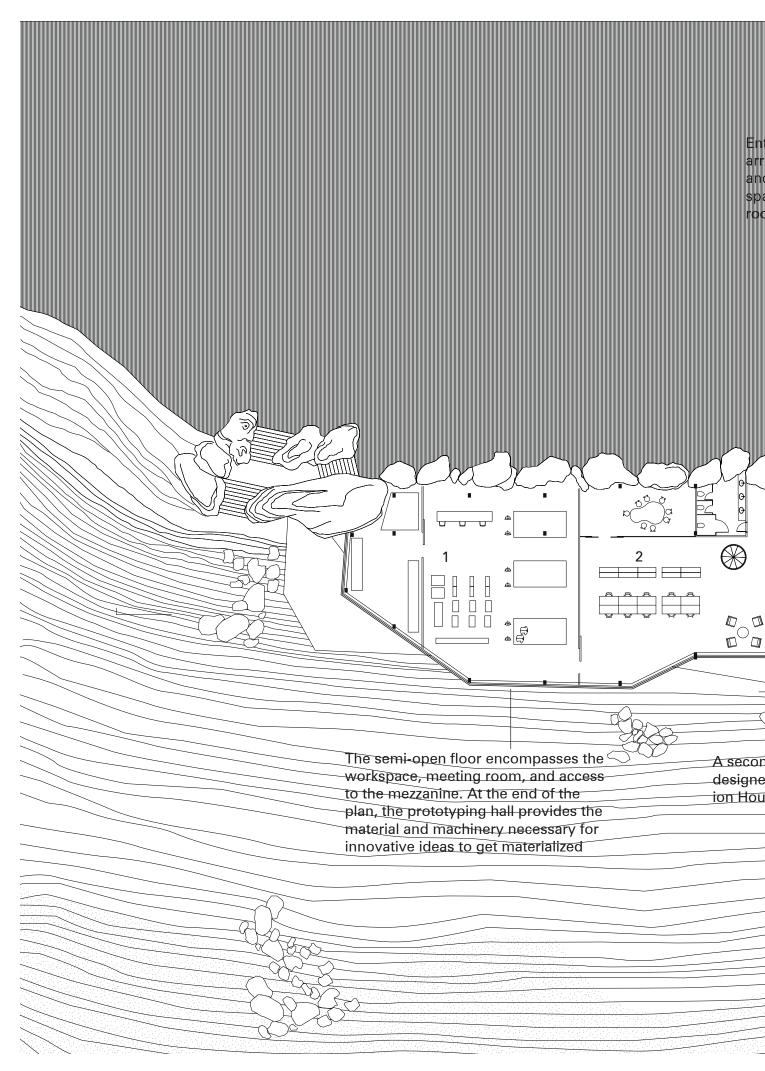


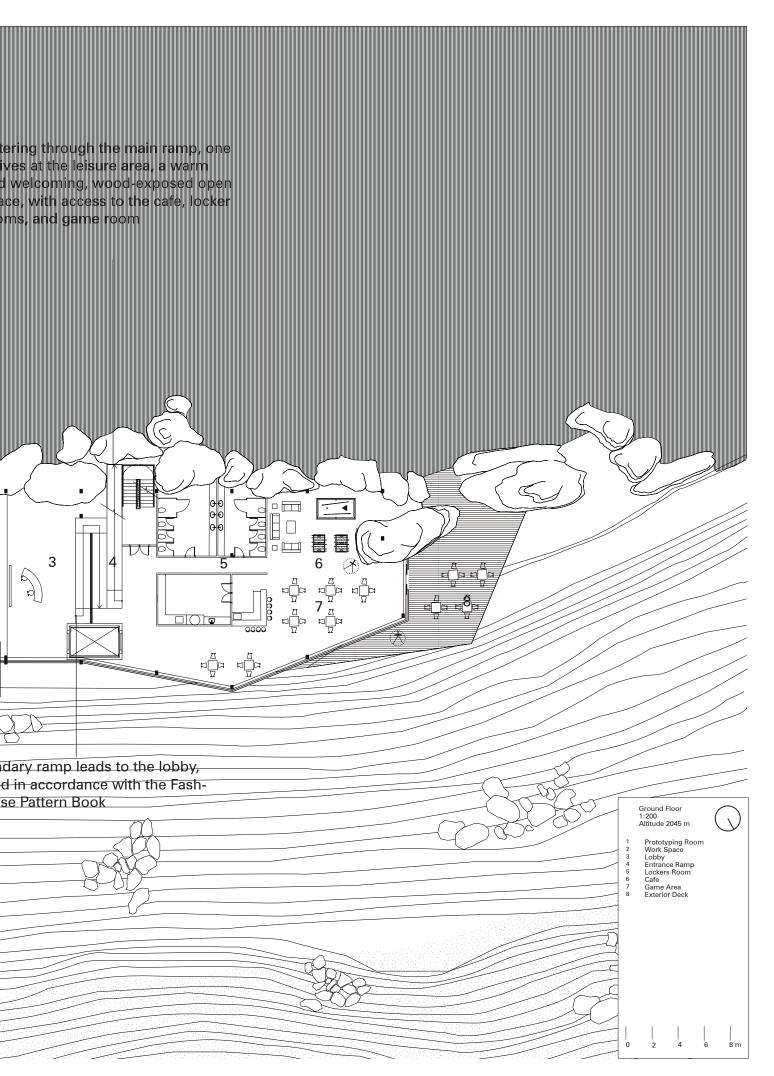


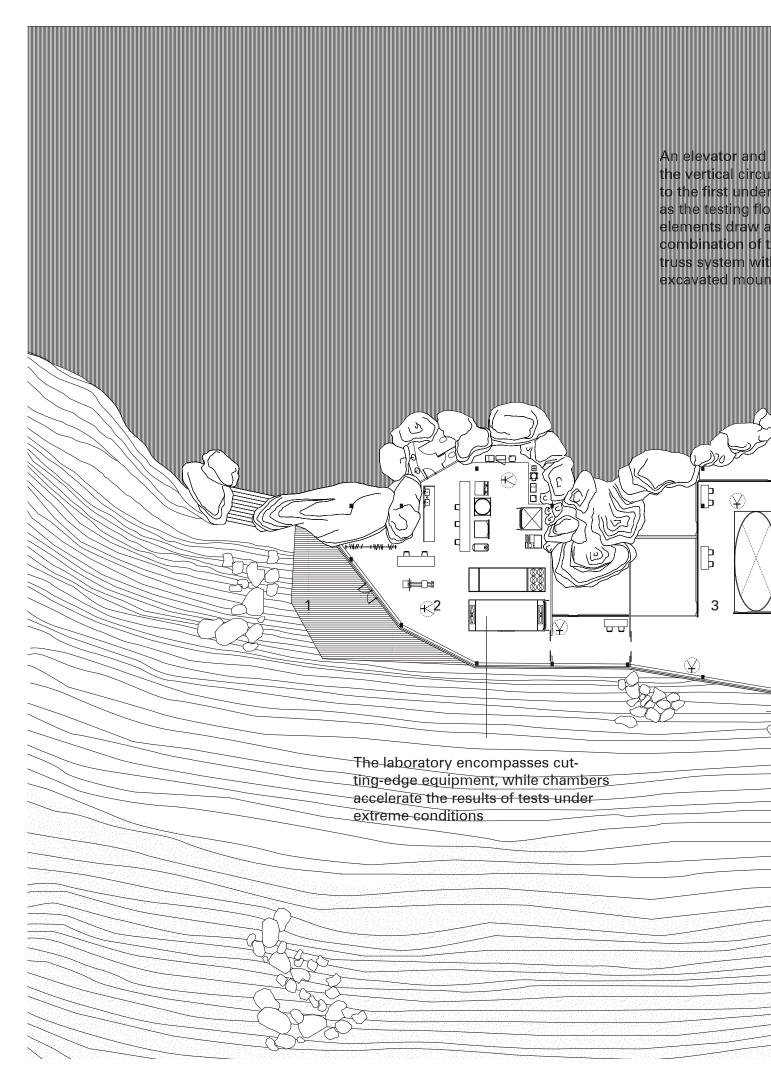


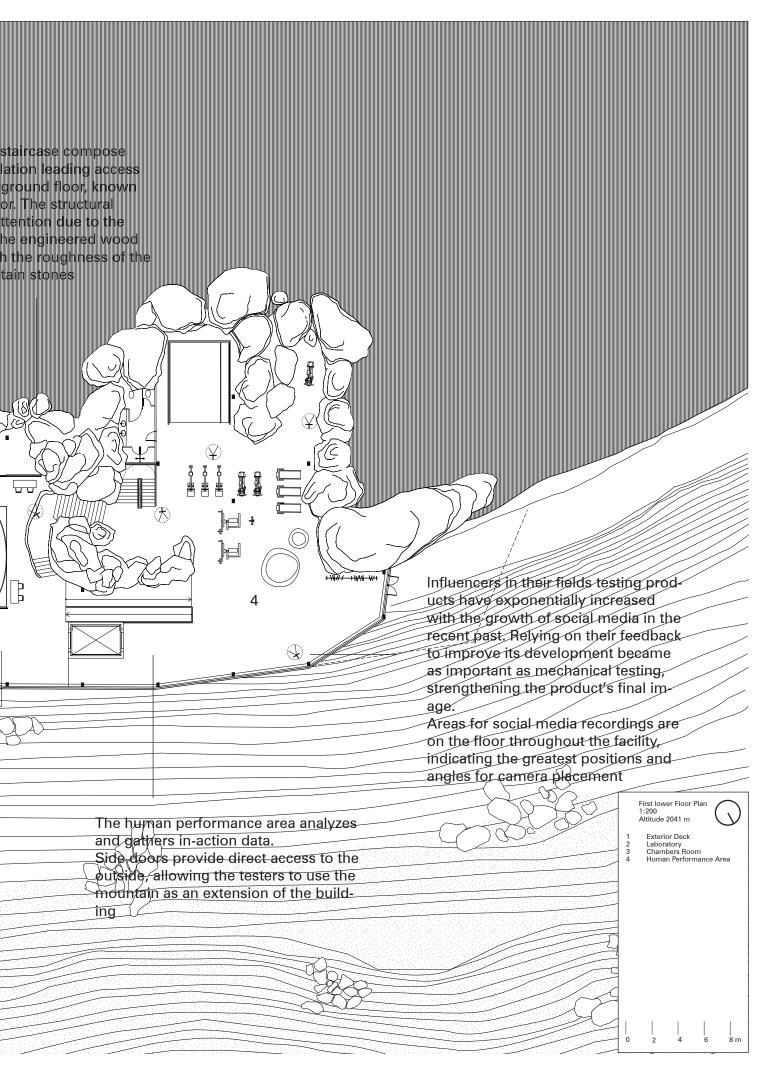


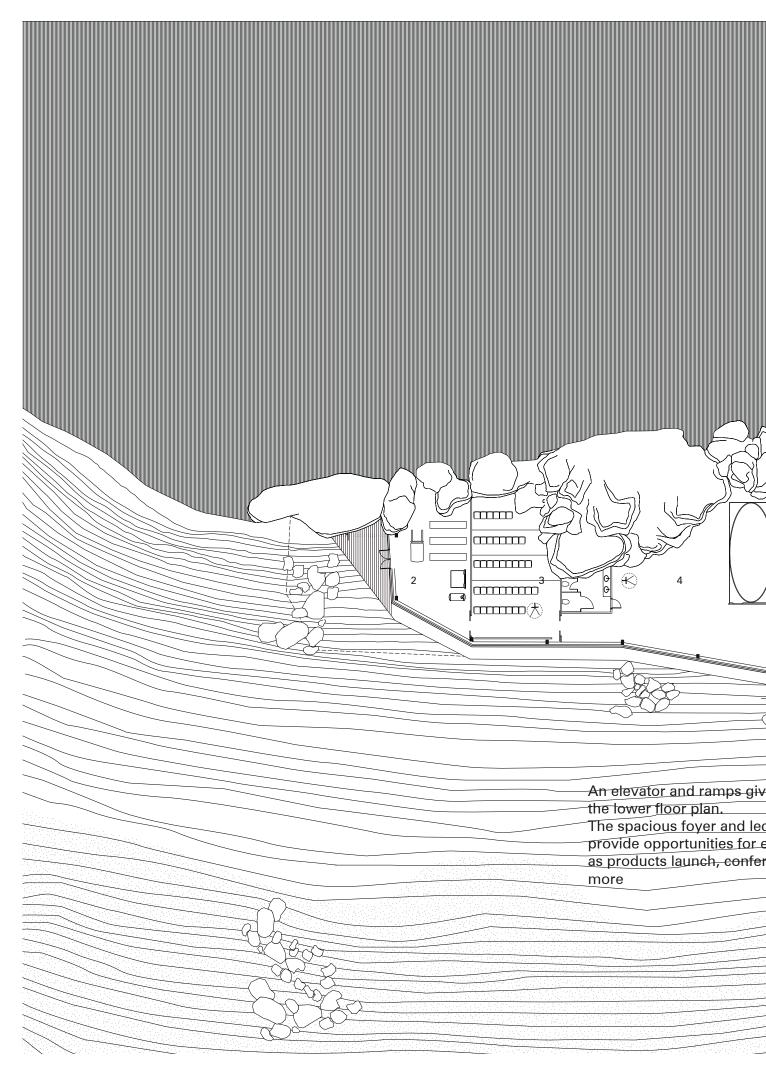


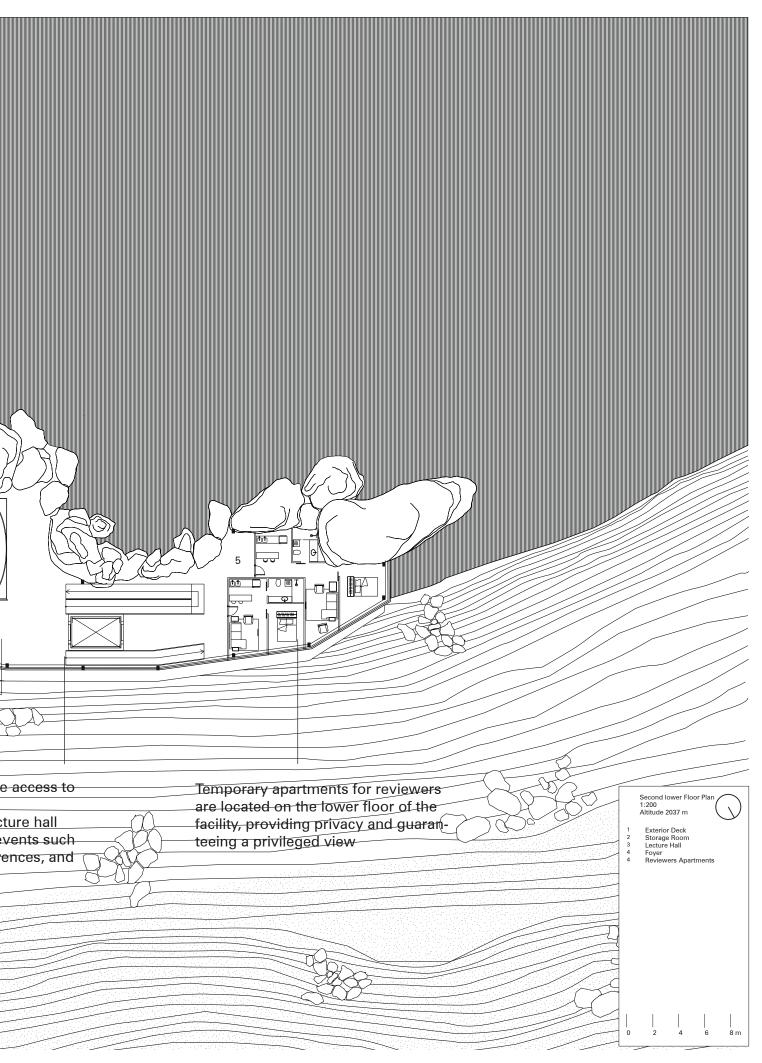


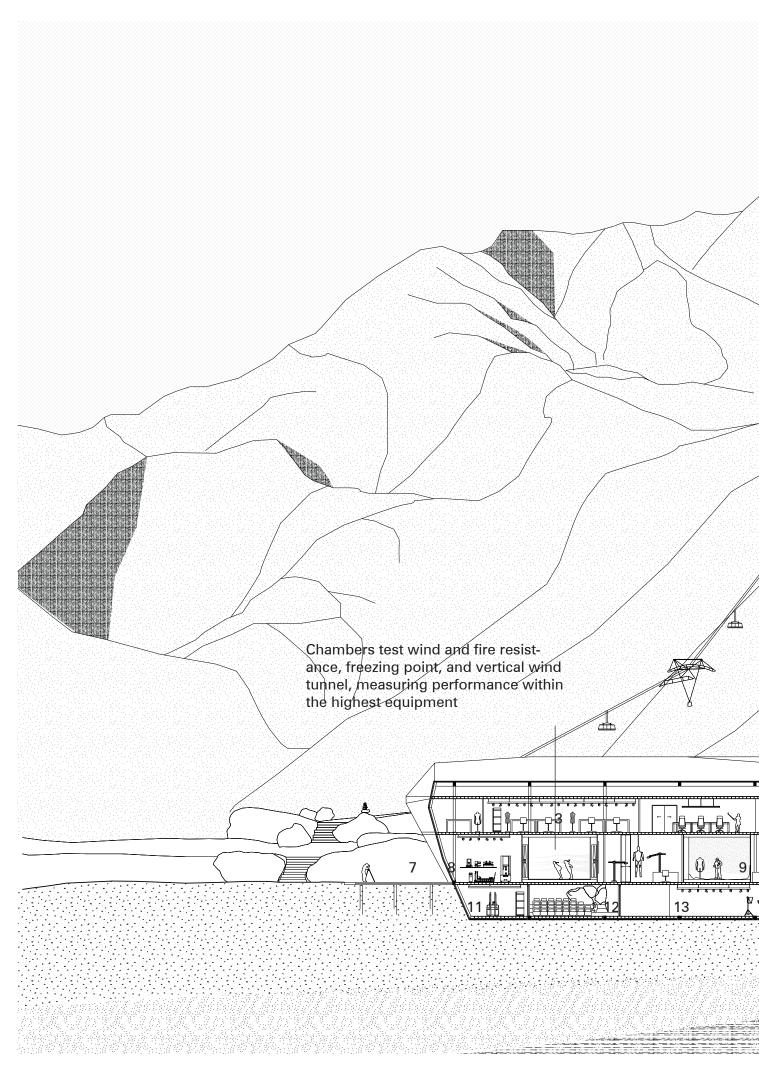


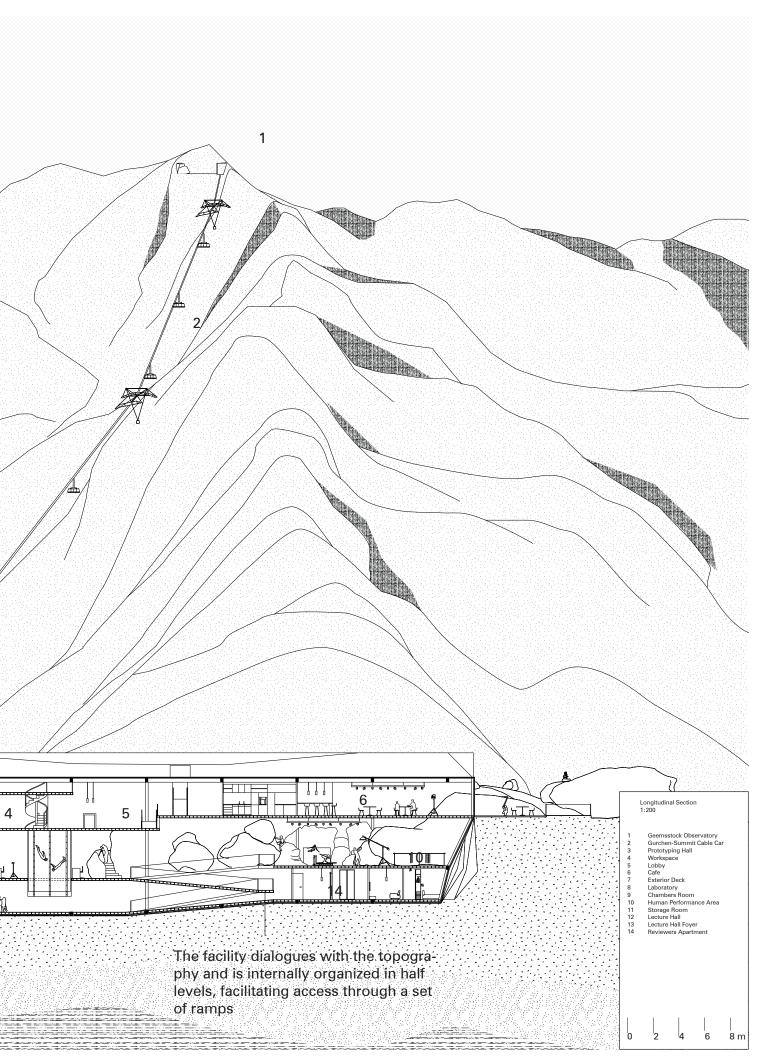




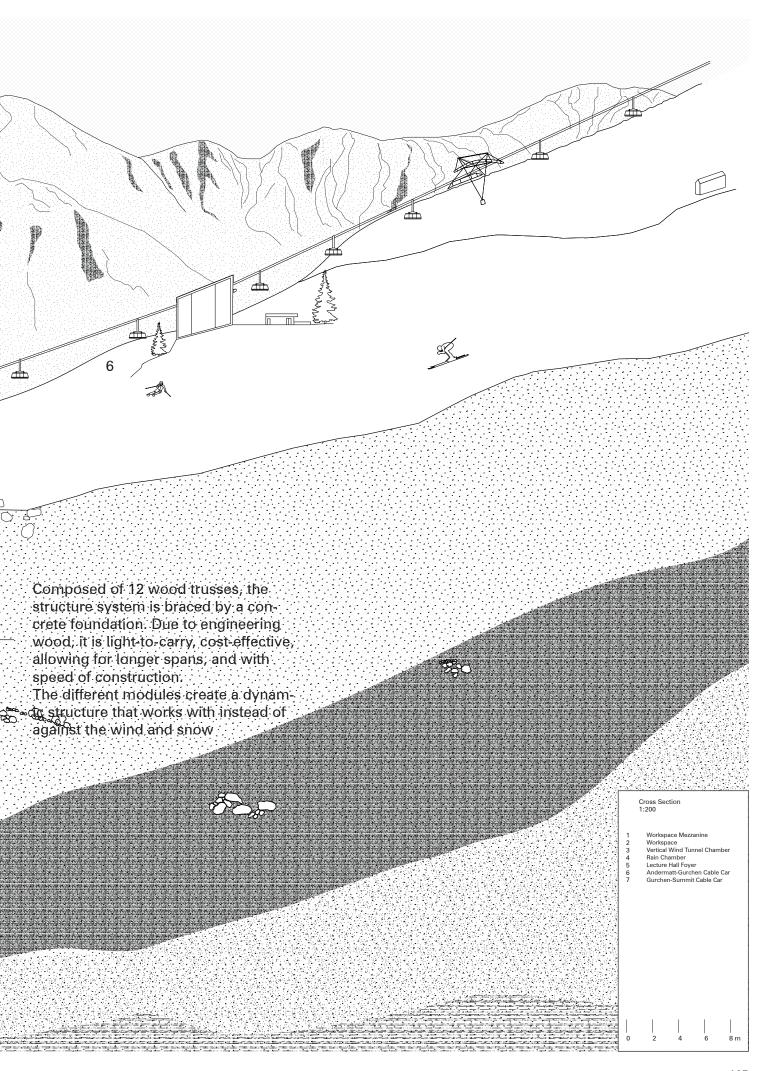


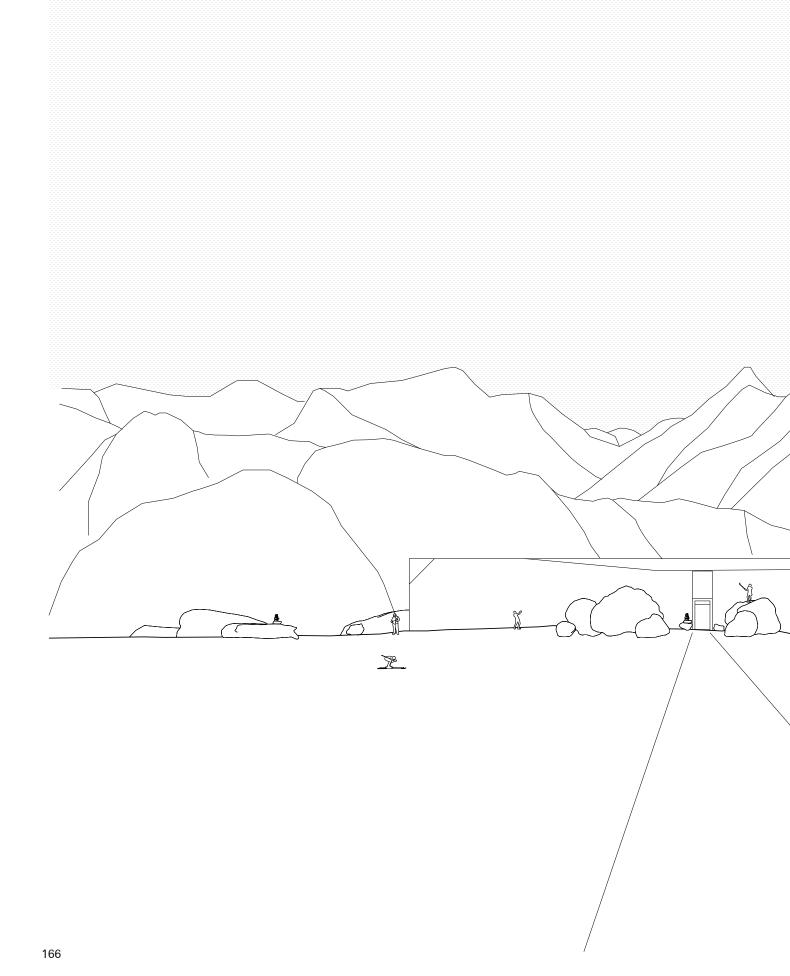


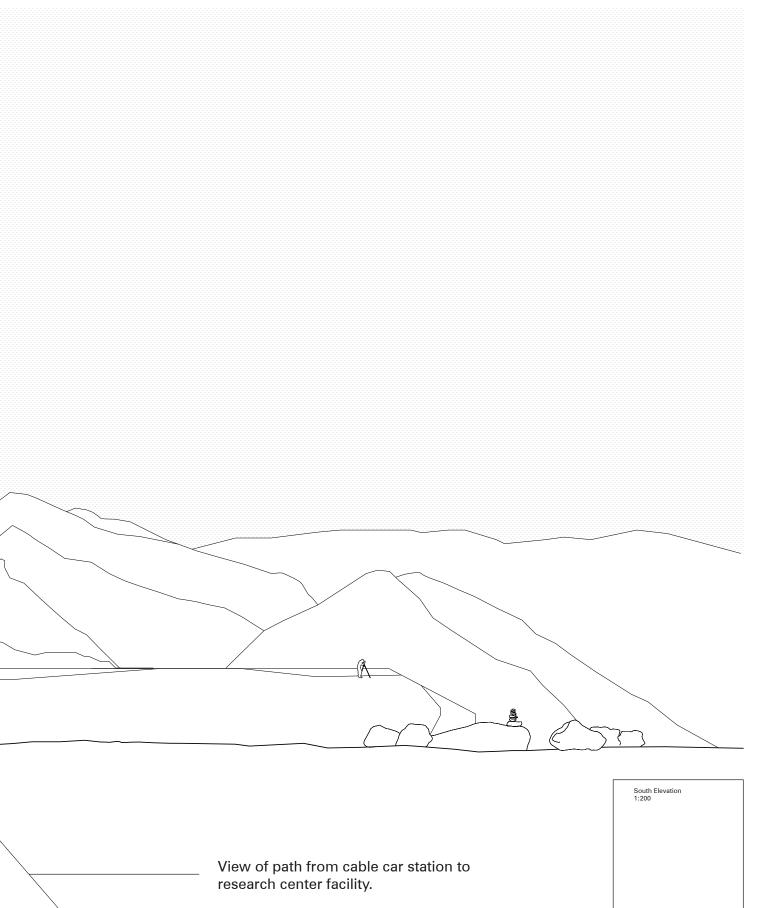


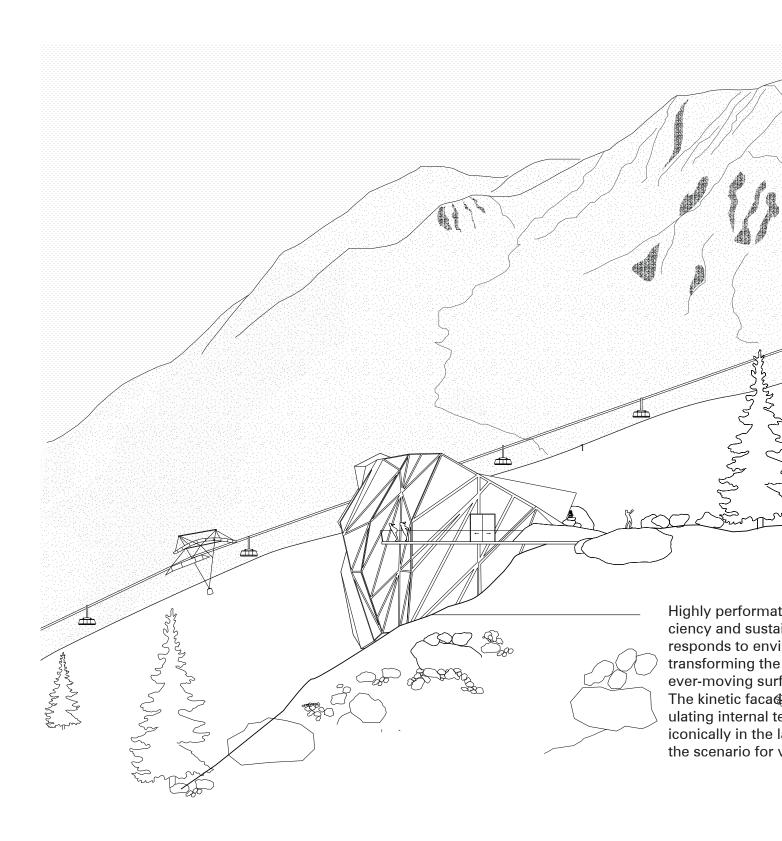


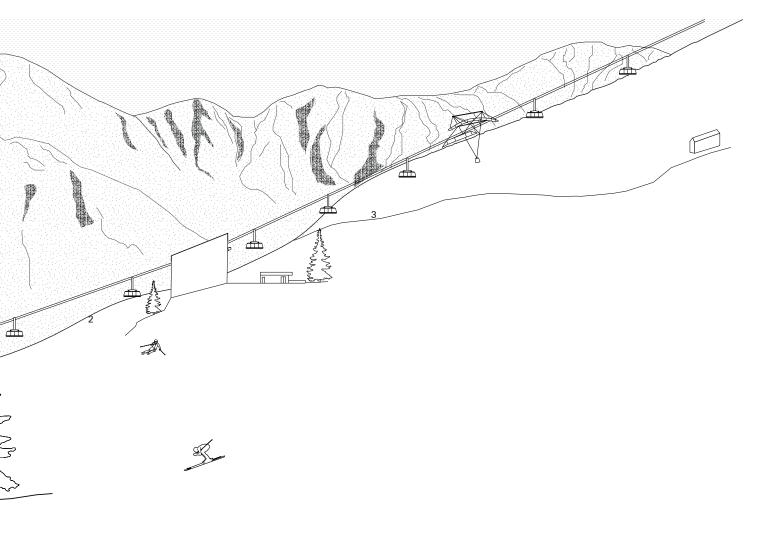


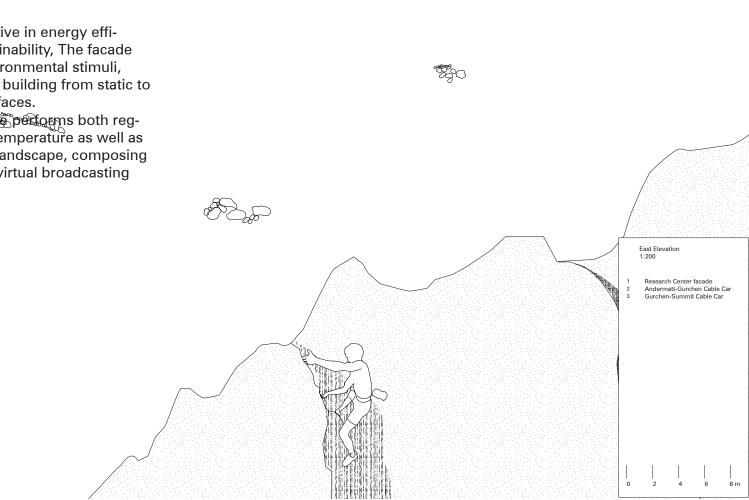


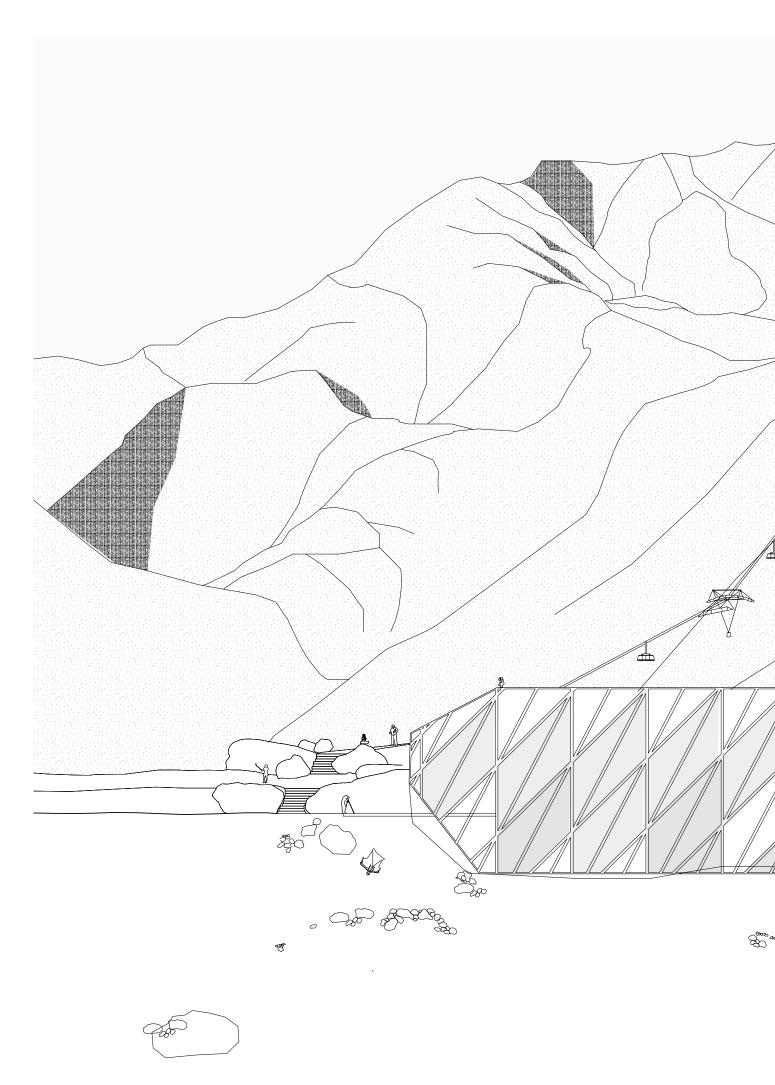


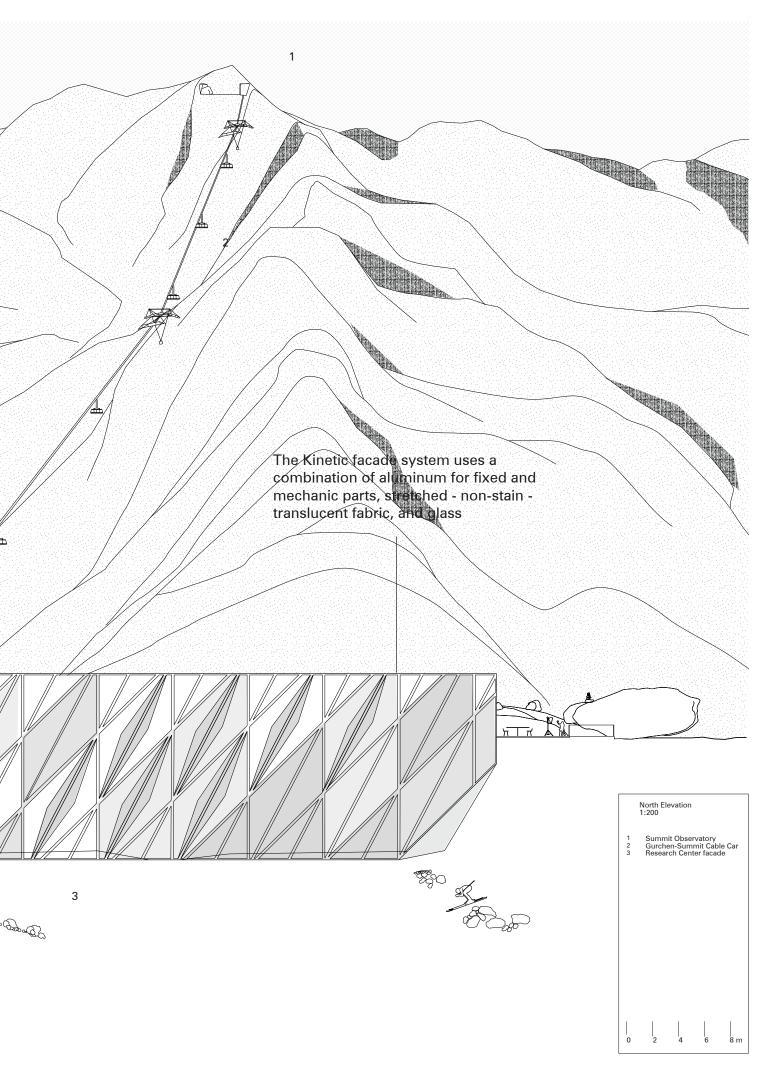


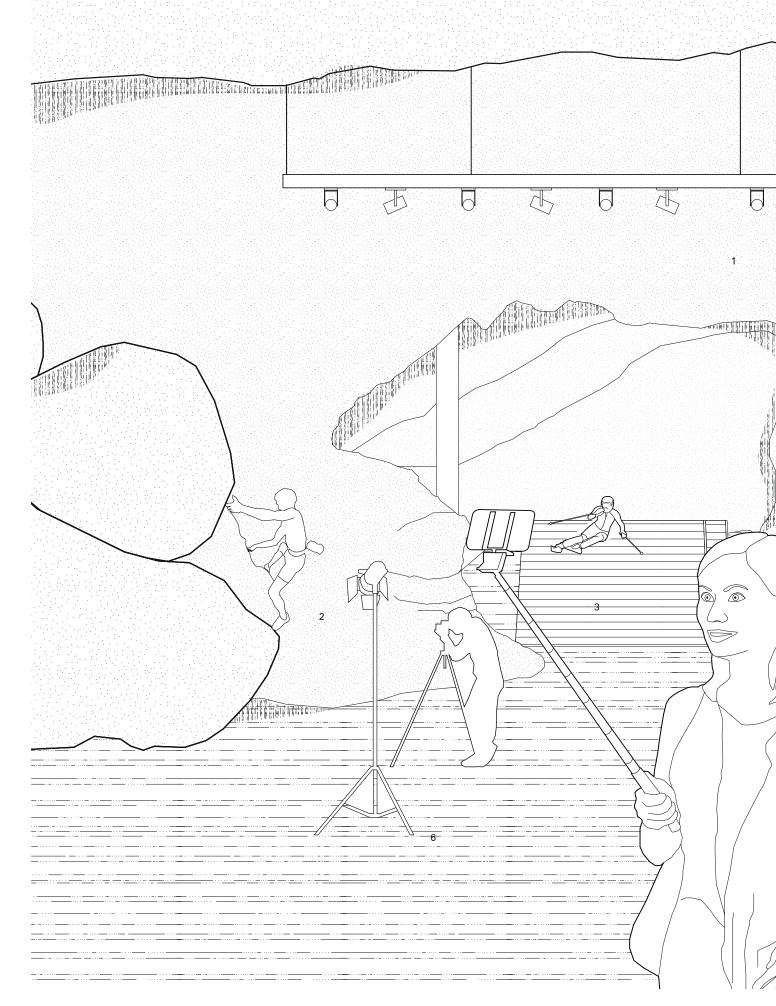


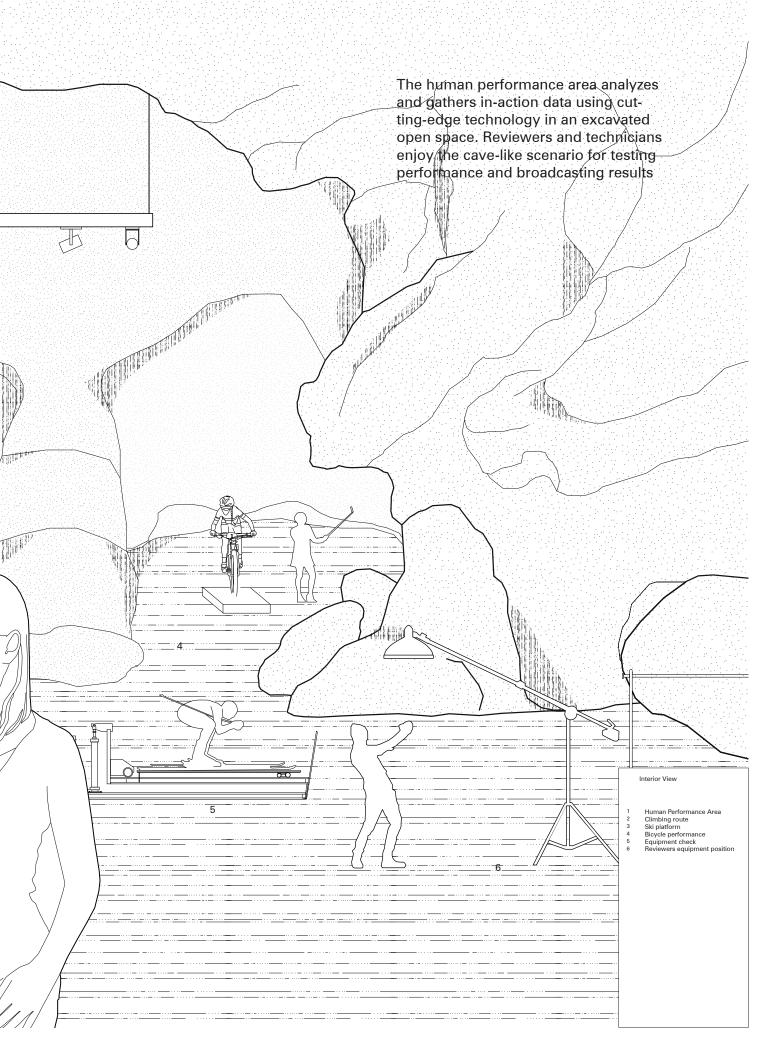


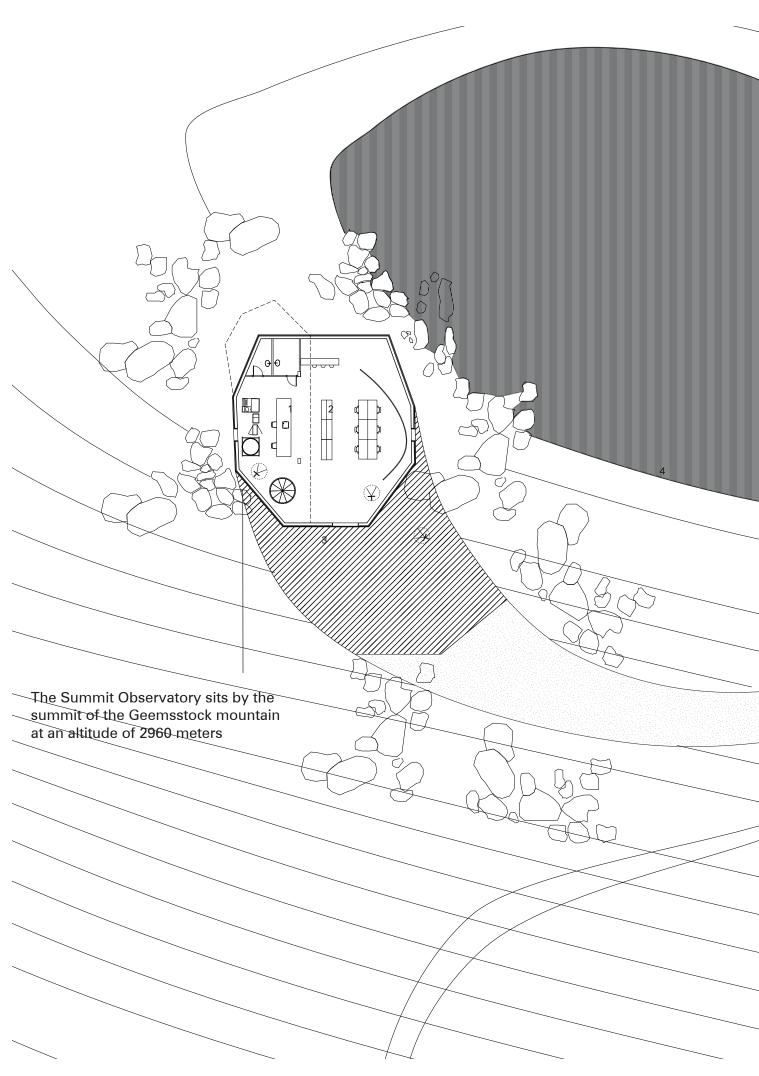


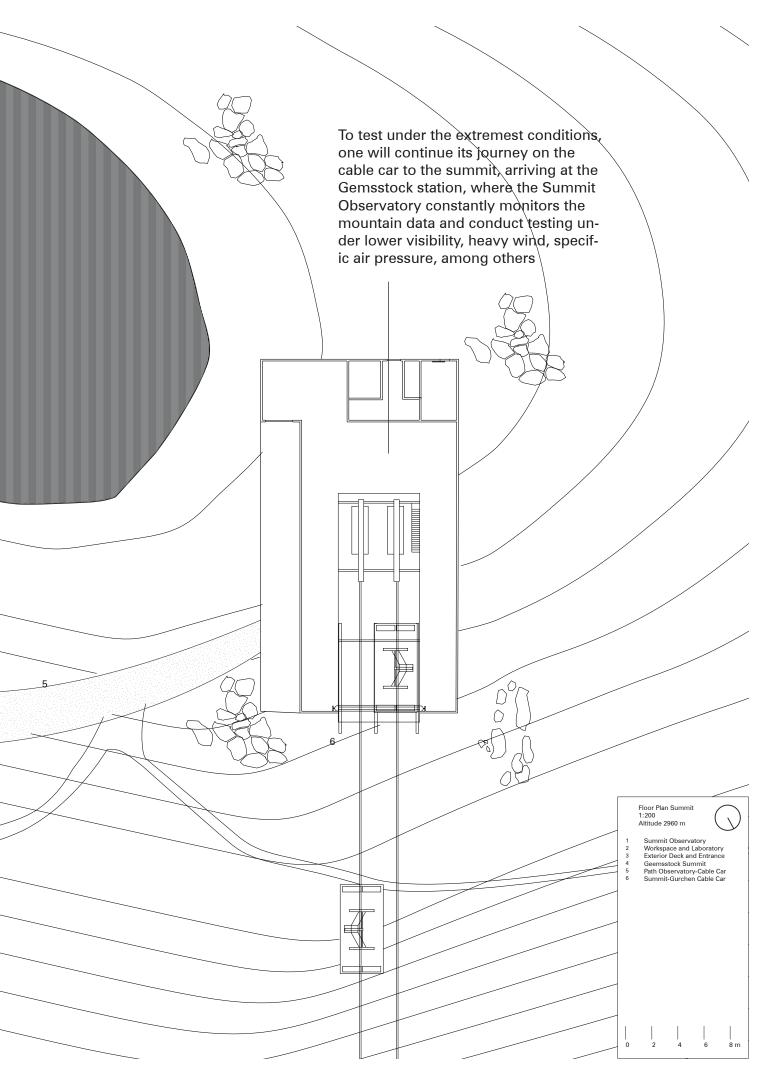


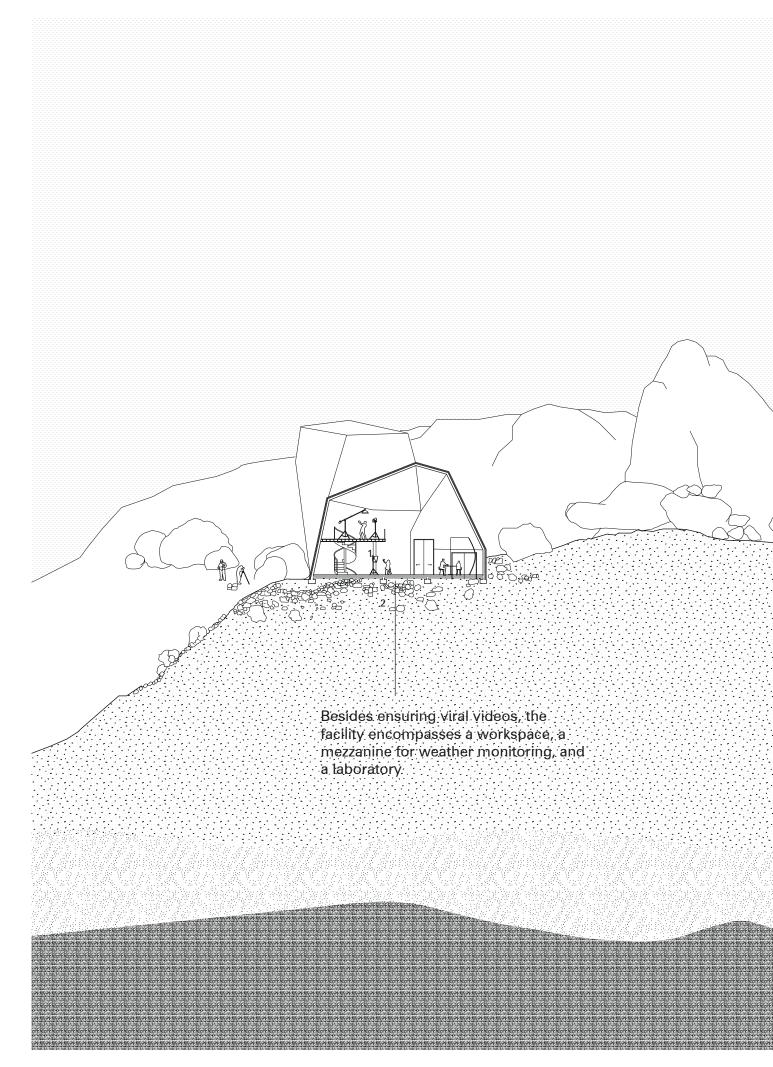


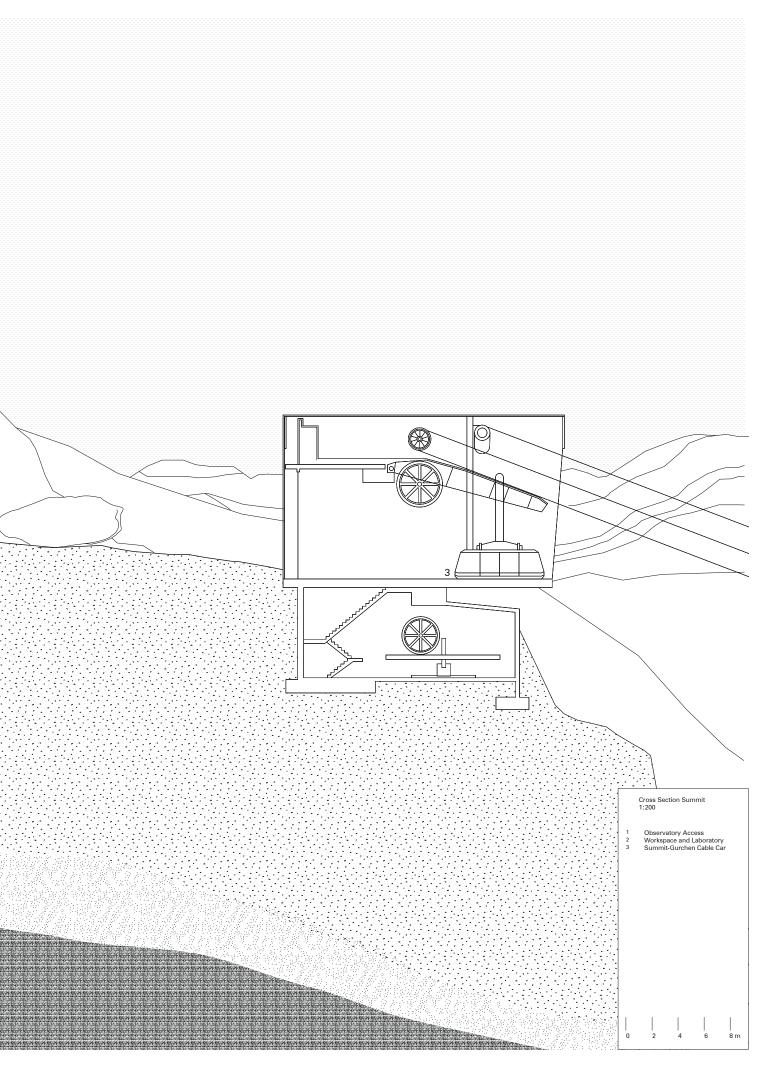


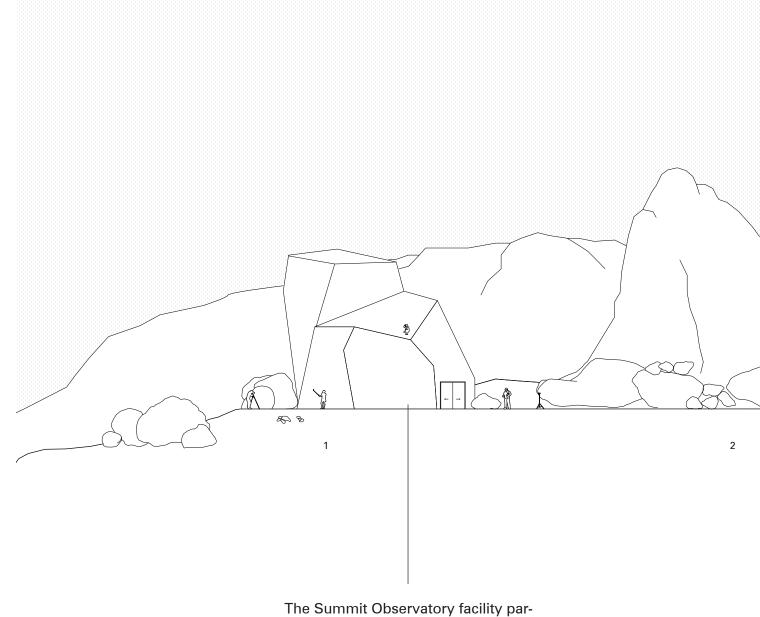




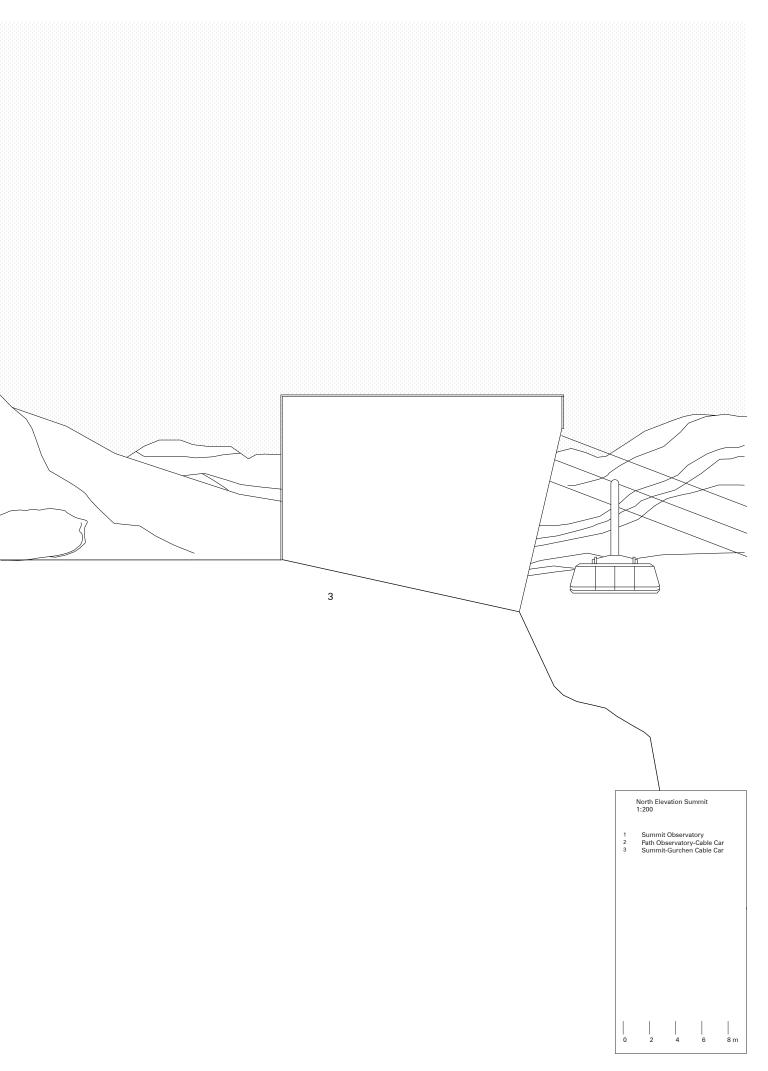








The Summit Observatory facility partially uses Al 3D technology in its design. It consists of robotically prefabricated interlocking wood panels covered with aluminum plate cladding



This contribution is part of *Fashion House*, a collective project on the spatial implications of a decentralized and more tightly regulated fashion industry across Europe that reimagines the function and design for a fashion house.

Try It Out is a research center for prototyping and testing of products that perform under extreme conditions. It combines cutting-edge equipment with the rapid growth of influencers reviewing products. It is sited in Andermatt, Swiss Alps, Switzerland.

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