**Future Bank** 

2021-22 MSc3 AR3AI100



National Bank of Belgium, Boulevard de Berlaimont, 1950s. Source: hemels.brussels

#### Introduction.

Contemporary society is governed by the regulation and flow of capital. The supply, perceived value and control of money determines, to a large extent, the conditions in which we live, and its accumulation underpins the perceived success of the National Bank of Belgium. This occupies a vast, triangular individuals, companies, cities, regions and nation states.

scale. It does however place limits upon it. In order to regulate the austere, 200m long, columnar façade that announces it to capitalist economies, complex financial systems have the Boulevard de Berlaimont. developed, which control finance and secure assets. Banks of many kinds provide liquidity and invest wealth. National From palatial beginnings, the present bank developed as a Banks control the production and supply of money, regulate their commercial counterparts and, together with governments, define monetary policy and protect national interests. They are result of a massive reconstruction project that transformed the lenders of last resort at times of crisis.

through growth, a desire for the sustained increase of national secure Belgium's financial reserves within its walls. However, A sustained increase in gross domestic product has been the the requirements placed upon it. Industrial functions like the unbalanced the finite resources of the planet to the extent that decided to redefine itself physically.

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humanity now faces an existential threat. As we attempt to address the enormous challenges the future holds, we ask what might be the role of a future central bank?

Set in Brussels, the project will address the transformation of urban block of 91,000m2 that is situated at a critical moment between the upper and the lower parts of the city. This is made Capitalism enshrines this right of self-enrichment, at every manifest in the 8m sectional shift across the site as it rises from

consolidated aggregation of buildings, planned by Marcel Van Goethem after the Second World War. Its current form is the and rescaled this piece of city into an imposing, yet ultimately alienating urban environment. Built to its boundaries, the Modern industrialised economies measure their performance introverted nature of the complex reflects the historic need to wealth which has underpinned the thinking of National Banks. since its completion, there has been a fundamental shift in mantra of prudent governance, fueled by work and production printing and storage of currency have been relocated out of the and regulated through finance, the control of interest rates and city, or overseas; finance is becoming increasingly digital; while levels of inflation. However, we are arriving at the collective Belgium's membership of the EU has led to much of the Bank's realisation that our obsession with enrichment has come traditional role being subsumed into the European Central Bank at an enormous cost. The relentless extraction of profit has (ECB), based in Frankfurt. In response the National Bank has





SOURCE: HTTPS://WWW.DELCAMPE.NET/NL/COLLECTIES/

NATIONAL BANK OF BELGIUM

Public service contract: Multidisciplinary engineering office for the HOME IMPROVEMENT, RENOVATION and RESTORATION of the building NBB1 of the National Bank of Belgium Part 2: Shorten PVE

11/10/2020

NATIONAL BANK OF BELGIUN

Overheidsopdracht voor diensten:

Multidisciplinair studiebureau voor de VERBOUWING, RENOVATIE en RESTAURATIE van het gebouw NBB1

van de Nationale Bank van België

Deel 2: verkort PVE

11/10/2020

		Office	Where?	Notes	Calculation	Area	-	Total
Typical bank office								25,200
	1	Typical-workspace	Upper floors	1400 total employees, 200 WFH	12 sqm per person x 1200	14,400	1.4	20,160
	2	Typical-collective	Upper floors	Coffee corner, printing, kitchenette, lockers	3 sqm per person x 1200	3,600	1.4	5,040
pecific bank office								1,694
	1	Specific work	Upper floors	-	-	300	1.4	420
	2	Senior management	Upper floors	6 Senior managers 30 people Board room 10 people Diring room 2 small meeting rooms coffee corner	30sqm manager cabins x 6 100 sqm board room 40 sqm dining 30sqm meeting x 2 oroom coffice	400	1.4	560
	3	HR	Upper floors		20sqm coffice 20sqm cabins x 6 40 sqm meeting 20sqm archive	120	1.4	168
	4	Trading hall	Upper floors	Rooms with screens like the Big short Crisis centre Data centre		240	1.4	336
	5	Crisis centre	Underground	Crisis centre Data centre Control room	50sqm 50sqm 50sqm	150	1.4	210
common bank office								1,234
common pank omce	1	Office Reception	Ground			25	1.6	1,234
	2	Recreation room + Club	Underground	ping-pong, darts, pool		120	1.6	192
	3	External recreation	-	-				
	4	Central meeting rooms	Upper floors	4 x 5 people 4 x 12 people 3 x 20 people 1 x 35 people 1 x 50 people 1 x 100 people	10 sqm room x 4 (2 sqm pp) 24 sqm room x 4 40 sqm room x 3 70 sqm room x 1 100 sqm room x 1 200 sqm room x 1	626	1.6	1,002
tank hall								3,376
Sank hall		Entrance hall	Ground floor	Arrival / security		1,000	1.6	3,376
	2	Public reception	Ground floor	Desk + back office		60	1.6	96
*	3	Waiting area	Ground floor	For visitors		50	1.6	80
*	4	Public counters	Ground floor	3 accesses, public domain, personnel, cash handling	30 sqm admin 15 sqm counters x 6 100 sqm safe 100 sqm safe room 50 sqm waiting hall	1,000	1.6	1,600
Public use								
'ublic use		Library + logal + innovation lab	Ground floor		500 sqm library 50 sqm legal library 50 sqm innovation lab	600	1.6	7,206
					50 sqm innovation lab			
*	2	Bank Museum Art gallery	Ground floor Ground floor	-		2,000	1.6 1.6	3,200 480
nstitutional use								1,923
*	1	VIP meeting	Upper floors	Salon for 8 people 2 x 6 people 2 x 12 people	- 12 sqm room x 2 (2 sqm pp) 24 sqm room x 2	40 72	1.6	64
*	3	Public meeting rooms Press room	Ground floor	2 x 12 people 20 seats - mini theatre	24 sqm room x 2 2 sqm per person	72	1.6	115
*	4	Foyer	Ground	250 people	1 sqm per person	250	1.6	400
*	5	Auditorium	Ground	250 people; should be able to function independently	2 sqm per person	500	1.6	800
	6	Exhibition space	Ground floor			300	1.6	480
lospitality								2,560
*	- 1	Refectory	Ground floor	500 people	2 sqm per person	1,000	1.6	1,600
*	2	Restaurant	Upper floors	60 people	3 sqm per person	180	1.6	288
*	3	Lounge	Ground floor	180 people	2 sqm per person	360	1.6	576
*	4	Coffee bar	Ground floor	30 people + standing	2 sqm per person	60	1.6	96
Rental office		Postal analyzana	Linear Group	-	AD COMPANY AND A COO	0.600		9,800
Rental office	•	Rental workspace	Upper floors	- Coffee corner, printing-	10 cent per person a 300	9,600	1	5.040
kental office		Rental workspace Rental collective	Upper floors	- Coffice corner, printing, kitchenette, lockers	<del>12 opn per person x 300</del> 5 <del>spin per person x 300</del> 6000 spin rental offices	900	tot.	5,040 1,260
Rental office		Rental collective Rental		- Goffee corner, printing- kitchenette, lockers -				5.040
		Rental confequence Rental	Upper floors	- Goffee conce, printing, bitchenette, isoken -	6000 sqm rental offices	900	tot.	<del>5,040</del> <del>1;260</del> 9,800
	3	General facilities and	Upper floors	- Geffic centr, printing, kitchenetic, lockers -	6000 spm rental offices 500 sqm gym 500sqm nursery	900 7,000	14	5,040 1,260
	3	General facilities and circulation	Upper floors	- Coffice comer painting, Michaectin, kolues	6000 sqm rental offices	900	tot.	<del>5,040</del> <del>1;260</del> 9,800
Rental office Back of house *	3	General facilities and	Upper floors	- Coffice conservations bitistemetter, backers - - -	6000 spm rental offices 500 sqm gym 500sqm nursery	900 7,000	14	<del>5,040</del> <del>1;260</del> 9,800
	* 3	General facilities and circulation Building services Waste	Upper floors	-	6000 spm rental offices 500 sqm gym 500sqm nursery	900 7,000	14 14	<del>5,040</del> <del>1;260</del> 9,800
	# 3 1 2 3 4	General facilities and circulation Building services Waste Cost checking area	Upper floors	- - 200 people	6000 spm rental offices 500 sqm gym 500sqm nursery	900 7,000 - - - 100		5,040 9,800 5,291 - - - -
Back of house	* 3 1 2 3 3 4 5	General facilities and circulation Building services Waste Coat checking area Changing/ showers	Upper floors Upper floors - - - - - - - - - - - - - - - - - - -	- - 200 people Decentralised	6000 sqm rental offices 500 sqm gym 500sqm narsery - -	7,000 7,000 - - - 100 300	- - - - - - - - - - - - - - - - - - -	5,040 9,800 5,291 - - - - - - - - - - - - - - - - - - -
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lack of house * *	2 3 4 5 6	General facilities and circulation Building services Waste Coat checking area Changing/ showers Medical facilities	Upper floors Upper floors  Ground Upper floors Upper floors	- - 200 people Decentralised Include lactation room with 5 acats	6000 app. nutul offices 5000 app. gro 500 app. gro - - - - 0.5 sign per person	7,000 7,000 - - - - - - - - - - - - - - - - - -	1.4 1.4	5,291 9,800 5,291 - - - - - - - - - - - - - - - - - - -
lack of hosse * *	2 3 4 5 6 7	General facilities and circulation Building services Waste Coat checking area Changing/ showers Medical facilities Finishing kitchen		- - 200 people Decentralised Include lactation room with 5 seats Catering for 300 people	6000 app. nutul offices 5000 app. gro 500 app. gro - - - - 0.5 sign per person	- 7,000 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	5,291 9,800 5,291 - - - 130 390 195 195
lack of hosse * *	3 1 2 3 4 5 6 7 7 8 9 10	General Golikies and circulation Building services Waste Coat checking area Changing/ showers Modical facilities Finishing kitchen Central archive Art store Weschupp	Upper floors Upper floors - - - - Upper floors Upper floors Underground Underground Underground	- - 200 people Decentralised Include lactation room with 5 seats Catering for 300 people	6000 app. nutul offices 5000 app. gro 500 app. gro - - - - 0.5 sign per person	7,000 7,000 - - - - - - - - - - - - - - - - - -	14 14	5,391 9,800 5,391 - - - - - - - - - - - - - - - - - - -
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RENTAL/ PRIVATE: 15%
INSTITUTIONAL USE: 8%
PUBLIC USE: 8%
HOSPITALITY: 4%
BOH AND PARKING: 20%

Competition brief area program

## **Future Bank**

### Week 1.1-1.3

2021-22 MSc3 AR3AI100



#### G1000 A Machine for Innovating Democracy, students Meihui Qi and Johan Löwstett, 2019 Studio City Hall Brussels

#### Working Together.

The project for the transformation of the Belgian National Bank, which provides the starting point for our 2021 graduation studio, embodies two significant aspirations which will together inform the collective research that we will undertake. The first of these provides the economic underpinning for the project. This is the consolidation of the Bank's property portfolio, focusing their activities within their principal site and subsequently selling off ancillary buildings.

The main building complex on Boulevard de Berlaimont, in the centre of the City of Brussels, will become the workplace of the Bank's 1500 office-based staff, while secure facilities for the storage of currency will be transferred to a new building on the periphery of the capital. The Bank, as it presents itself to the city, will transform from being a closed fortress and a partly industrial space for the minting, printing and storing of money to a knowledge centre. An office environment, where people will type and talk and think together. Part of a network of governance and that engages with the European Union, the National Government, the wider banking infrastructure, cities, companies and, ultimately, citizens.

Designing the right working environments for the diverse activities of this Future Bank will be central to the orgoing success of the reformed institution. What relations will they define between people? How can they foster a positive and

Interiors Buildings Cities engaged culture and create a sense of wellbeing while avoiding unnecessary hierarchies and silo's being created which undermine the possibilities for innovation which will be required if our economy and society is to transform itself in ways that allow it to meet the enormous challenges we collectively face?

Understanding the past is fundamental to designing for a possible future and so our work starts with an examination of the history and changing culture of the office, as it has been translated through architecture. Within the Research Course, we will explore these questions broadly, contextualising them through the investigation and analysis of a number of buildings that exemplify the history and development of the office as an idea, through time and in different cultures. The Design Studio will focus and consolidate this more broadly based research through the making of several, related pieces of work.

Working in pairs, students will document each of the 16 chosen office buildings, redrawing them at a series of agreed scales, in order that they can be situated, understood, and compared. These will include, a situation plan, building plans, key sections, facades, a detail plan of an office layout.

Working in groups of four, students will create a model of a spatial fragment within 8 of the precedents that focus on key moments of the development of the office building as a modern type, across the last century. These models will take as their starting point photographs of significant aspects of the office

Palace

# Working Together.



NATIONAL BANK OF BELGIUM DRAWINGS. SOURCE: IBC 2021-22

Studying the National Bank of Belgium



ORIGINAL IMAGES. SOURCE: HENN



REPRODUCED INTERIOR. SOURCE: IBC 2021-22

## **Future Bank**

#### MSc3 AR3AI100 Week 1.5-1.8



Knossos, GR, 1994. Mark Pimlott

#### Social Plinth

If one key aim of the Belgian National Bank is to provide a new consolidated workspace for its employees, another is to capitalize upon the possibilities that might be discovered in its reduced need for security. The Bank proposes to use this opportunity for openness to begin to define what it describes as a social plinth. As it is currently defined, the brief sees this social function in terms of representation. It will offer an invitation to the public to enter the world of the bank, to drink However, one might imagine the opening up of the Bank's site in more fundamental terms, as a catalyst for transforming the ways in which the institution works, or as a means to define its role and responsibilities to society in new terms. Through this brief we ask you to begin to consider what this might mean.

During the remaining weeks of the research course, you will be studying historical examples of banks and examining the developing ways in which their banking halls, forms and facades have engaged with the city and the citizen in representational terms. Thought of in terms of architectural language, the plinth can be understood as a base or fundament upon which other things stand. It is a visible manifestation of the founding of the building, a new ground or platform from which the rest of a wall can be constructed. As such, it often takes on a different expression and material condition for both

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to negotiate with or overcome the limitations of an existing topography or terrain, the plinth can also be understood as something which separates, distances or objectifies the architectural edifice which is constructed upon it, elevating it above its surroundings. This is the manner in which a plinth is traditionally understood in artistic practice, as a base or pedestal upon which an artwork - a sculpture or a statue - is placed in order to objectify it and enhance its presence and power in relation to both the viewer and the context. In this way it can also be understood as a scenography, or a stage; a coffee or look at a painting from the collection perhaps. an architectural device that can monumentalise and express power and authority.

> The idea of a social plinth is one then that requires both critique and interpretation. Is it to be understood as a re-grounding of the institution, as the antithesis of monumentality, as a platform for dialogue? Is it a foundation from which the transformed Bank of the future might be constructed? Or is the very notion of a plinth one to be countered?

The image of the plinth as a robust base, that defines the stability of the whole, has long been employed in the architecture of bank buildings, to assist in proposing them as strong and stable institutions, which people could trust. However, what has long been thought of as a stable economic model, which banks underpinned and National Banks helped regulate, a model of continuous growth supported by industrial aesthetic and technical reasons. In making a new ground production and the extraction of the very materials of which

Palace

## **Social Plinth**



Town hall of Mumbai, with its thirty-four steps. Photo by Rahul Mehrotra.



Town hall of Mumbai transformed on Independence Day. Photo by Rahul Mehrotra.







530 DWELLINGS AT BORDEAUX, LACATON & VASSAL



TOWN HALL MENEN, NOAARCHITECTEN



SITE MODEL 1:500. SOURCE: IBC 2021-22







1876



SOURCE: NBB



1908



SOURCE: NBB





SOURCE: NBB



16/105



1963





1948





Van Goethem additions



NBB, 1980s. SOURCE: NBB





BAEYART TOWER AND NEW BUILDING. SOURCE: NBB

Width of new buildings determined by distance from older structures

Monumental facades



2022 06 22 • P5 Presentation





NBB, 1970s. SOURCE: NBB









ST. GUDULA PLAZA, 1950s



ST. GUDULA SQUARE PARK, 2000s

Relationship with St. Gudula Plaza axis

ΓĒ







UPPER GROUND FLOOR



Inadequate parts of the building removed





UPPER GROUND FLOOR



New volumes: vessel in a vessel





UPPER GROUND FLOOR











Program and circulation axo























2022 06 22 • P5 Presentation

31/105

Mirroring the context







## **Future Bank**

MSc3 AR3Al100 Week 2.1-2.3



Belgian National Bank. View towards Saint Michael and Gudula Cathedral, 2021. Mark Pimlott

City Bank

Having begun to address some particular issues which arise from the brief for the transformation of the National Bank: the forms and histories of the workspace and the idea of the social plinth, we will now turn our attention to the building itself and its situation within Brussels. The façade of the National Bank on the Boulevard de Berlaimont is a continuous colonnade, nearly 200m long, an attenuated temple with little to no hierarchy. It is set against a vast, anonymous street, straightened in relation to the building and the infrastructure below and with a similar sense of disdain for the scale of a human, representing the building's current position as an institution, an entity impossible to either deny or to penetrate. The facades on Rue de la Banque are still more anonymous, apparently undifferentiated, suggesting only that some sort of bureaucratic or administrative labour goes on within. A major part of the facade to Rue du Bois Sauvage, on the other hand, is specific. Although its evocation of a palace in a grand manner may not be particularly inviting to everyman, that same everyman might at least have an idea of significant spaces within: entrances, staircases, salons, inner sanctums. This representation of the Bank also gives a sense that the triangular site on which it sits was once an aggregation of individual building blocks, set within a dense urban grain, before their remnants were sublimated within its present, fortress-like condition. Around it, other institutions are gathered, within a part of Brussels which is at an intersection, in section, of the highly differentiated urban conditions that constitute the

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city, but which is nonetheless bereft of many of the qualities that exemplify it. Therefore, multiple images, suggestions, and relations constitute the 'identity' of the National Bank in the City of Brussels. Together, they might be considered to invoke the several ideas, which the Bank has wished to communicate about itself to the city and the nation over the course of its history: that it is a serious institution, opaque in its operations but with connections to elites and traditions, which is working hard and anonymously on behalf of the State, and by extension, its citizens. The collage of the building exemplifies this sense of aloofness, assisted by the disconnectedness of each of the three sides of the sites: a virtue, one might say, of the triangular block that has been in place for a very long time. But are the fictions of this arrangement and the distribution of its various identities relevant in the present, and how might it be adjusted or transformed to indicate a new reality and a new future for the Bank, at the centre of a transformed economy?

If one is able to penetrate beyond the security lines, which mark the limits of possible engagement for most of the public, into the block's interior, then one discovers a complex, aggregated structure in both plan and section, a labyrinthine and heterogeneous architecture that represents the multiple tasks and hierarchies that the Bank historically developed and depended upon. Much of this complexity and many of the spaces that accommodated are now redundant and perhaps irrelevant to the issues of today. Although the Bank project is ostensibly concerned with the consolidation of its Brussels

## Palace

## City Bank

### Context







## Site plan, figure-ground

$\sim$		
N	0 12.5 25	50m



Site plan, Nolli map






# **Future Bank**

MSc3 AR3AI100 Week 2.4-2.10



Photograph of room with models, of the National Theatre, South Bank, London, with added autograph remarque perspective drawing, 1991, Sir Denys Lasdun RA (1914 - 2001)

#### Bank Building

As we have collectively experienced, the National Bank of Belgium is an accreted, conglomerate form, the complex outcome of many plans, large and small, grandiose and expedient. Together these have combined to create an almost impenetrable, labyrinthine structure. One might understand this as a direct, spatial translation of the many hierarchies and segregations that historically defined both its working processes and the relations between its employees. In some ways, we might also imagine it as a representation of the financial system itself. Since the first buildings of the bank appeared on the site, this has become ever more complex and increasingly challenging to understand and control. The inherent dangers of the ever more tenuous grasp, which institutions like National Banks have managed to maintain on the proliferating and increasingly abstracted mechanisms of the market, are demonstrated in the disastrous effects of the 2008 financial crash on the lives of ordinary people and since inability of governments to adequately control tax or address the global climate emergency.

Our project takes as its starting point the premise that all this is understood. A bank has always been a place to store valuable things, but now it must demonstrate that it knows what needs the Bank is seen as a means to clarify and transform it into an relationships it fosters allow the Bank to listen to those many

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open, transparent and publicly engaged institution, which can speak and listen to all parts of society, as well as itself. We propose that its physical, material character - its architecture has agency in re-understanding its role as a catalyst. One that can assist in the enormous challenge of profoundly reshaping the economy, redefining society's attitude to the expenditure of resources and the questions of fairness that must underpin such a transformation.

The processes and thinking that reshape this reinvented Bank will have as much bearing on the project's success as the final forms and spaces. Questions abound: What will be kept? What can or should be taken away? What will happen to the materials that are no longer needed? What new materials are necessary. and what is their embodied footprint? The Future Bank should understand the environmental impact of its consumption and retention of resources.

In its redefined form, it will need to more fully address people by new threats, such as the rise in cryptocurrencies and the and nature, as well as things. How, for example, will it define a better working environment, one that encourages innovative and open thinking across a spectrum of expertise? How will it represent and communicate its ideas and the necessary changes in systems of regulations, not only to the network of financial institutions of which it is a component, but also to wider society, its own government and those of other nations, to be valued. For us then, the opportunity to physically remake as well as at the level of the individual? How will the new

Palace

# **Bank Building**





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BANK OFFICES BANK HALL VISITOR CENTRE FORUM

RESTAURANT AND CAFE RENTAL OFFICES

PUBLIC CIRCULATION ROUTE





ST. GUDULA PARK, 1950s. SOURCE: NBB

41/105





PROGRAM PUBLIC ACCESS

Visitor centre: Upper ground floor, Rue du Bois Sauvage

$\odot$				
N	0	3	6	12m





Visitor centre: Longitudinal section through courtyards, facing Bank





#### ...

#### Statistics

On these pages you'll find all publications and figures, a complete calendar with upcoming updates and a complete overview of all contact data for each statistical domain



## Online listening event

On Friday, 22 January 2021 the NBB organised an online listening representatives of Belgian civil society organisations shared their policy. A recording of the listening event is available here.

The 28 civil society organisations taking part represented groups sustainability, well-being, businesses, young people, the elderly, th this virtual panel discussion, Pierre Wunsch (governor of the Natio Klaas Knot (president of the Nederlandsche Bank) listened to the hours. Valerie Bauwens and Maxime Paquay moderated the discu themes: prices and price movements, expectations and concerns topical subjects, and communication. Several hundred people atte were also able to state their views by responding to an online poll

The discussions were wide-ranging and varied. The repercussions of the COVID-19 pandemic were mentioned in connection with each theme. While there was often a consensus, there were sometimes also differences of opinion. The participants stressed the importance of stable prices: excessive prices for basic requirements such as food and housing are a source of concern. The current health crisis is causing a rather pessimistic view of the economy, even

though monetary policy is considered to play a stabilising role. Inequality in all its ( ... the climate merit greater attention, but the current price stability mandate seems to allow a response to those issues. In that context, clear, comprehensible and tin communication is essential.

See the full report on the online listening event "The NBB listens".

## "The NBB listens" portal

To supplement the digital panel discussion with the opinions of Belgian citizens, a portal "The NBB listens" has been set up. Using this portal, citizens have been ab thirteen open questions and thus share their points of view on four subjects: "price "economic themes", "other themes" and "communication".

See the report on the portal "The NBB listens"



## Trade with the United Kingdom presents a contrasting profile



#### Monetary policy

Price stability is the main goal of the Eurosystem. To meet this objective, the European Central Bank (ECB) adopts measures via the euro area's single monetary policy. Setting and implementing this policy falls under the basic competence of a central bank. Each central bank strives to keep the value of money stable by making sure that inflation is neither too high nor too low but remains stable and predictable. In the euro area, the objective is to have an inflation rate of 2 % in the medium term. In this way, monetary policy also contributes, inter alia, to sustainable growth and employment.



SNIPPETS FROM NBB WEBSITE, 2022

#### Current NBB initiatives and platforms for citizen feedback

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PROGRAM PUBLIC ACCESS

Forum: Upper ground floor, Rue du Bois Sauvage

$\odot$		<u> </u>		
Ν	0	3	6	12m













Forum: Lower ground floor, Bd. de Berlaimont

$\odot$				
Ν	0	3	6	12m

48/105







Transverse section through Forum grand hall





0 5 10 20m

50/105



3/4 Rental offices + restaurant & recreation room

52/105

Notch in building line



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Rental offices: Upper ground floor, Rue du Bois Sauvage

$\odot$				
Ň	0	3	6	12m



Typical floor plan



NEW/ OLD

PROGRAM PUBLIC ACCESS











56/105





PUBLIC CIRCULATION ROUTE



Bank hall now and then



SITUATION 1960



SITUATION 2020



BANK HALL CIRCA 1960. SOURCE: MARCEL VAN GOETHEM/ NBB





























Public route



Infrastructure of connectivity





ST. MARIA DELLA PACE CLOISTER, ROME







0 5 10 20m











South rotunda and Rue du Bois Sauvage elevation





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NEW/ OLD







Rue de la Banque and North Rotunda elevation



NEW/ OLD


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Boulevard de Berlaimont elevation

# **Future Bank**

#### MSc4 AR3AI100 Week 3.1-3.3



Diocletian's Palace, Split, Plan of original palace 305 AD and Map of 1912

### Intelligent Ruin

A building is a possibility, is conducive, preferably taciturn, silent, is willing, liberates space and mediates. Buildings as intelligent ruins. Suitable for use, fit for purpose, as Charles Voysey expressed it. Good buildings hide daily use; they are stable and stubborn, obstinately distributive and (following Kant) 'purposive without a purpose.' Therein lies the quality of their durability, of their cultural durability, which yields dignity. Expediency asks for the right scale, an utmost precision that leaves everything open that cannot be predicted. Aldo Rossi used to point unceasingly at this: a feeling for measure, discretion and preparedness, committed but not concerned, Architecture does not pass in time: time passes in architecture. Good buildings are straightforward. They are generous. The result of designing and building does not need to be simple but straightforward. We do not solve formal problems but building problems, and because of this, we do not need to involve ourselves with the arbitrariness of formal invention. In doing so, architecture can avoid becoming designed, and it is spared artificial homogeneity.

#### From Bob van Reeth 'Good Architecture' Oase 90-42

How many lives can a building have? When we look at the Pantheon in Rome or the Hagia Sofia in Istanbul, we deal with

Interiors Buildings Cities

form of the city around them. If we think about the Diocletian Palace in Split, we recall the fabric of a building that literally became the bones of a city. Their interiors, and many others, have accommodated changing programmes according to the evolving needs. While a building's programme can be a leading design tool, when functions and necessities change over time look at the given brief for the National Bank of Belgium project - a good building knows how to deal with change.

Vitruvius has given us the trinity: Firmitas, Utilitas, Venustas. Firmness, usefulness and beauty are three characteristics that can order an interior, a building or a city. Each can also be the reason to protect a building from demolition. If a building has a solid structure, this might have a lifespan of more than 100 years; think of the buildings that formed the tissue of the 19th-century expansions of historic European towns and which are now the playground for thankful contemporary architects. Those buildings had facades which were generally part of that structure. Now, thanks to ever more stringent energy policies, a building's skin might last 20-30 years. At the same time, an interior, along with the systems that service it, could change more frequently, depending on its quality and refinement, in line with the changing requirements of users or inhabitants.

So far, you have been thinking about the National Bank of Belgium as a repository of ideas about the city and society structures whose form and material have allowed them to stand while trying to understand and critique its complex programme, the test of time and accommodate many lives, shaping the as described in the brief of the NBB, programme requirements,

Palace

# **Intelligent Ruin**









Inadequate parts of the building removed



RETAINED





Modifications to existing building









Layers of construction











TYPICAL FLOOR



Structural spans







# **Future Bank**

### MSc4 AR3AI100 Week 3.4-3.7



Entrance Querini Stampalia, Venice, architect Carlo Scarpa (1950-63)

#### Fragment

structure and qualities?

#### Fragment of a fragment If the existing building, as it stands, can be understood as an Through a large scale physical model, a fragment of the intelligent ruin, then how do your plans for change at the bank

You have individually started to consider this strategically in relation to the site as a whole and its place within the city. Up to P3, we would like you to translate your more intimate and operation, by concertedly addressing a detailed fragment. You should choose where to work with care, as a means to project elucidate your broader concerns and as being exemplary of your attitude to the whole. It should be a significant part of the building and address significant thresholds: where new relates to old; interior relates to exterior; private relates to public, or the bank relates to another function, for example - focusing on interesting architectural conditions and junctions. Your development should consider the totality of the building fabric, beyond structure and envelope; considering secondary and tertiary layers, how elements such as services and linings might be integrated and the ways in which the resulting architecture might accommodate people and inhabitation in time as well as in space. This development should be presented through large scale plans and sections and three-dimensional models, which might be physical, digital or both.

fragment 1:25 scale, a subsequent brief will ask you to adjust or transform it while taking advantage of its inherent speculate on how different publics might inhabit this piece of building through the course of a day. This engagement in the relationship between strategy and detail is a critical space within which the architect operates. The fragment should allow you to address questions of building technology, construction and material usage at one scale, but the insights gained from knowledge of the buildings, in terms of form, material, structure it should also be folded back into your attitude towards the buildings as a totality and inform your design of the wider

#### Interiors Buildings Cities

Palace

Fragment



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TERRACOTTA THAT RESEMBLES LIMESTONE. SOURCE: NBB

ALUMINIUM CLADDING TO RECALL BANK HALL COLUMNS. SOURCE: NBB

Materiality



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# **WasteBasedBricks**®

The WasteBasedBrick® is our proof that it's possible to build high-quality, aesthetic structures from waste.



WasteBasedBricks® Orange / Punched



WasteBasedBricks® Radish / Sliced



WasteBasedBricks® 2Good2Waste / Sliced



WasteBasedBricks® Mushroom / Raw



WasteBasedBricks® Orange / Raw



WasteBasedBricks® Wasabi / Shine

Potential for circularity







Overall coherence



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Facade and typical wall section, Visitor centre





2.5 5m



PART SECTION

PART ELEVATION

Detailed facade 1/2, Visitor centre



Typical wall-cill-lintel detail, Visitor centre



95/105



Detailed facade 2/2, Visitor centre

0 0.5 1 2m



Roof parapet detail, Visitor centre





Facade and typical wall section, Bank facing triangle court

98/105







PART ELEVATION

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1. WINDOW: - RECLAIMED FIXED ALUMINIUM WINDOWS; 160mm - EXTERNAL ALUMINIUM SLIDING BLINDS (WAREMA); 80mm

2. INTERNAL SURFACES (OUT-IN): - INSULATED WOODEN VERTICAL TECHNICAL CAVITY: 50mm - BIRCH WOOD CABINET/ BOOKSHELF WTH INTEGRATED VERTILATION GRILLS AND HORIZONTAL TECHNICAL CAVITY FOR ELEC. CABLE TRAYS; 250mm WOODEN SKIFTING, SAME AS WOODEN EL ORDING: JOHN

3.0RNAMENTS - PRESSURE SENSITIVE VENT WITH USER CONTROL (DUCO)

4. TYPICAL WALL SECTION (OUT-IN): - EXTRUDED TERRACOTTA ELEMENTS (NBK) OVER METAL SUB STRUCTURE; 100-250mm - WEATHERPROOFING LAVER - BACKING GYPSUM FIBRE BOARDS OVER INSULATION LAVER; 100m - CLT WALL PANEL; 100mm - CLT COLLUMR; 300x300mm

5. SLAB (TOP-BOTTOM): - WOODEN FLOORING; 25mm - CEMENT SCREED WITH RADIANT CEMENT SCREED WITH RADIANT
HEATING/ COOLING PIPES; 75mm
IMPACT AND SOUND INSULATION; 25mm
CLT SLAB; 150mm. CLT BEAM; 300mm.

FIXED VIA BOLTED STEEL L-ANGLES - EXTERNAL INSULATION

- TERRACOTTA ELEMENTS

FLOORING; 20mm



Cloister ceiling detail, Bank facing triangle court

100/105



RAINWATER DOWNTAKE PIPES CONCEALED IN ALUMINIUM CLADDING 'FINS'

RECLAIMED FIXED ALUMINIUM WINDOWS FROM DEMOLISHED STRUCTURES. SHADING VIA EXTERNAL ALUMINIUM SLIDING BLINDS (WAREMA)





VENTILATED FACADE IN RECYCLED ALUMINIUM SHEET PANELS (HYDRO CIRCAL) OVER METAL SUB-STRUCTURE

ACOUSTIC CEILING PANELS FIXED BETWEEN CLT RIBS



'ORNAMENTS' IN FACADE: PRESSURE-SENSITIVE VENT (DUCO), RECLAIMED GLASS BRICKS + LED STRIP LIGHT FIXTURE

## Detailed facade 2/3, Bank facing triangle court

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-2

FOR ELEC. CABLE TRAYS; 250mm WOODEN SKIRTING, SAME AS WOODEN

FLOORING; 20mm









Typical wall-cill-lintel detail, Bank facing triangle court

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2



## Detailed facade 3/3, Bank facing triangle court



103/105







I. PARAPET WALL SECTION (OUT-IN):
- ALIWINIUM COPING SHEET OVER
WOODEN BASE
- Zmm ALUMINIUM SHEET (HYDRO
CIRCAL) OVER LIGHT GAUGE SUBFRAME
BENT TO PROFILE: Joann
- RAINWATER DOWNTAKE PIPES
- CONCEALED WITHIN 'FINS'
- ONCEALED WITHIN 'FINS'
WEATHERFROFING LAVER
BACKING GYPSUM FIBRE BOARDS OVER
INSULATION LAVER; IGmm
- MINERAL WOOL INSULATION; 185mm

2. ROOF SLAB (TOP-BOTTOM): RIGID INSULATION, LAD TO 5% SLOPE TO PERIMETER GUTTER, MIN. DEPTH 200mm IMPACT AND SOUND INSULATION; 25mm CLT SLAB: 150mm. CLT BEAM: 300mm. FIXED VIA BOLTED STEEL L-ANGLES



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