Personal

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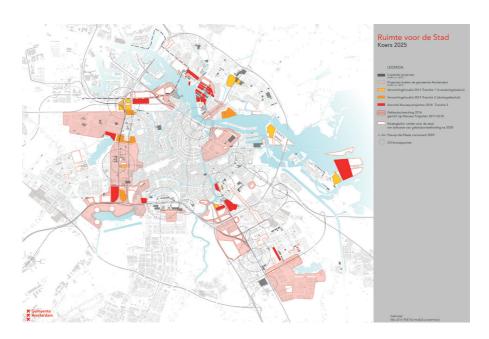
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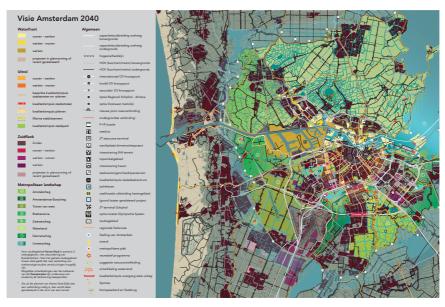
P0- P2

[FUTURE VISION]

from city to sloterdijk

Amsterdam scale
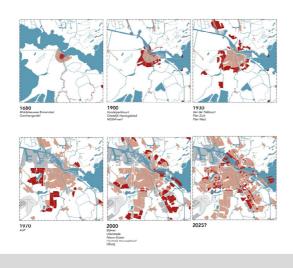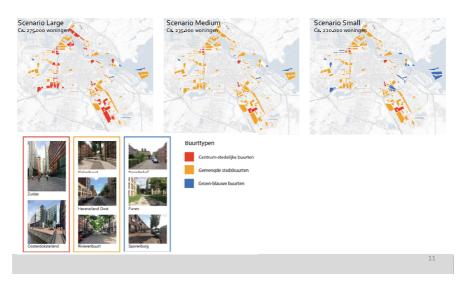

Koers 2025   Ruimte voor de Stad   8

Notes:

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Densification as a turningpoint in the history of growth of the city
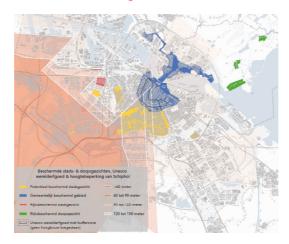
Range hypothetical densification
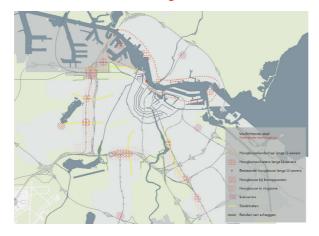
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future vision

Amsterdam scale

Restrictions on high-rise

Amsterdam vision on high-rise

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Further questions:

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future vision

Haven-stad

1. Scholen

👫 1   Aantal basisscholen benodigd tbv ontwikkeling deelgebied

🎓 1   Aantal VO-scholen benodigd tbv ontwikkeling deelgebied

●   Bestaande basisscholen in de omgeving

●   Bestaande VO-scholen in de omgeving

2. Sport

▨   Sportpark: uitbreiden aantal sportvelden

▨   Sportpark: intensiveren gebruik bestaande sportvelden

▨   Bestaande groengebieden: sport in de openbare ruimte

1.

2.

Noorder IJ-plas

Oostzanerwerf

Melkweg

Tuindorp Oostzaan

Kadoelen

Buiksloter-banne

Sportpark Transformatorweg

Westerpark

Spieringhorn

Multatuli

Notes:

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Noorder IJ-plas

Melkweg Oostzanerwerf

Cornelis Douwes 0-1

Cornelis Douwes 2-3

Coen -en Vlothaven

Alfadriehoek

Minervahaven

Sportpark Transformatorweg

Sloterdijk I

Zaanstraat Emplacement

Sloterdijk Centrum

Groot Westerpark

De 12 deellocaties

Further questions:

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Sloterdijk centrum (2017)

Culinair wildplukken tijdens een NS-wandeling

Tussen station Halfweg-Zwanenburg en station Sloterdijk vind je een NS-wandelroute van tien kilometer door de natuur met bijzondere planten, kruiden en dieren.

Wandel over grasdijken, langs kanalen en slootjes en volg slingerende struinpaadjes. Een mooie wandeling voor jong en oud, waar niet alleen gewandeld hoeft te worden. Kruip onder omgevallen bomen door, klim via oversteekjes over hekken en steek de sloot over met een trekpontje!

Wildplukwandeling

Het is ook mogelijk je op te geven voor een wildplukwandeling. Een wildplukwandeling duurt ongeveer vier uur en wordt afgesloten bij restaurant Bret met een drankje en wildplukhapjes, gemaakt van de onderweg geplukte eetbare planten.

Meer informatie:
wandelnet.nl/traject/de-bretten-ns-route

Foodtrucks

De gemeente Amsterdam is op zoek gegaan naar vijf ondernemers voor staanplaatsen in Sloterdijk-Centrum. Er is ruimte voor een bloemenstal met aanvullend aanbod en een viskraam op het Orlyplein. In de Tuin van Bret, op het Piarcoplein en op het Carrascoplein is plek voor een foodtruck. De selectieprocedure is nog in volle gang. De 'winnaars' zijn uiterlijk 6 juli bekend.

Voorzieningen

Horeca
1. Bret, Orlyplein 76
2. Wissenkerke, Radarweg 236
3. Mama's cheese, Orlyplein
4. Brasserie Helder, La Guardiaweg 66a
5. Ven, La Guardiaweg 5 (opent najaar 2017)
6. Grand Café Hermes, Orlyplein 150
7. Clubs en Subs, Teleportboulevard 110

Horeca in het station
8. Het Zoete Stationnetje, Orlyplein 117
9. Smulkers, Orlyplein 109
10. The Döner Company, Orlyplein 105
11. De Broodzaak, Orlyplein 109
12. Mr. Long, Orlyplein 105
13. Starbucks, Orlyplein 103
14. Julia's Pasta, Orlyplein 103-B
15. Kiosk, Orlyplein 109

Hotel
16. Amsterdam ID Aparthotel, Naritaweg 51
17. Meininger Hotel Amsterdam City West, Orlyplein 1-67
18. Mercure Hotel Amsterdam Sloterdijk Station, Naritaweg 1
19. Amsterdam Teleport Hotel, Heathrowstraat 5
20. Hotel2Stay, Tempelhofstraat 2
21. Holiday Inn, Zaventemweg 3
22. Train Lodge, Changiweg 121
23. Urban Lodge, Arlandaweg 10-14
24. Hotel Park Inn en B-aparthotels, La Guardiaweg 5

Onderwijs
25. Hout- en Meubileringscollege, Arlandaweg 173
26. ROC van Amsterdam, MBO Westpoort, Tempelhofstraat 80
27. Tijdelijke school, Naritaweg 31
28. Hogeschool TIO, Tempelhofstraat 5

Sport
29. Klimhal, Naritaweg 48
30. AMHC Westerpark (hockey), Sportpark Spieringhorn 5
31. AFC DWS (voetbal), Seineweg 3
32. Padel, Station Sloterdijk/Radarweg
33. Footy Park (voetbal), Sportpark Spieringhorn 10
34. ASC Sterk door Wilskracht (voetbal), Sportpark Spieringhorn 11

Winkels
35. Spar to go, Orlyplein 147
36. AH to go, Orlyplein 113
37. Etos, Orlyplein 117
38. AKO, Orlyplein 99

Overig
39. Acibadem (medisch), Arlandaweg 100
40. Holland Casino, La Guardiaweg 5
41. Rijwielshop Sloterdijk, Orlyplein 109
42. Tuin van Bret, Kastrupstraat 11

♥ FAVO PLEK

MEMET AKSOY (41 JAAR, WERKNEMER MEININGER HOTEL)
Ik vind het Orlyplein erg mooi geworden. Een paar jaar geleden was het nog heel grijs en saai. Nu staat het vol met bloemen en is het er ontzettend kleurrijk. Verder vind ik dat het plein ook goed functioneert. Ik hoor dagelijks van onze hotelgasten dat zij heel tevreden zijn met de goede verbinding met het centrum van Amsterdam. Ook de goede aansluiting tussen de (Flix)bussen en de trein is positief. Ik heb eigenlijk niet echt een plek in Sloterdijk waar ik negatieve associaties mee heb of die ik lelijk vind. Ik vind het een fijne plek om te werken en de verbinding naar Zaandam, waar ik woon, is ook goed.

Notes:

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Sloterdijk (2013)

17 Landschapspark De Bretten prikt als een groene vinger de stad in en is een aaneenschakeling van drukte en rust, cultuur en natuur, heden en verleden. / De Bretten allotment park and nature area pokes into the city like a green finger and is a succession of activity and calm, culture and nature, present and past.
Kaart: Stadsdeel Nieuw-West

━━ noord-zuidverbinding / north/south connection
━━ oost-westverbinding / east/west connection
⭐ gewenst bijzonder punt / prospective place of special interest

18 De Bretten ligt tussen de Haarlemmerpoort en Halfweg, en loopt eigenlijk door tot het Noordzeestrand. Het park kent een grote variatie aan landschappen met cultuurhistorische waarden. / Situated between the Haarlemmerpoort city gateway and the village of Halfweg, De Bretten actually continues all the way to the North Sea coast. It boasts a whole variety of landscapes with cultural-historical qualities.
Foto: Bartele van der Meer

17

Further questions:

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sloterdijk (2015)

infographics Veel van de vitale functies van de stad bevinden zich in Westpoort. Het is nationaal en internationaal zeer strategisch gelegen in de logistieke westas van de Amsterdamse metropoolregio, met verbindingen naar Schiphol, Greenport in Aalsmeer, Zaanstad, Haarlem, IJmuiden en het centrum van Amsterdam. / Many of the city's vital functions are situated in Westpoort. It boasts a highly strategic location, nationally as well as internationally, in the logistical western axis of the Amsterdam Metropolitan Area, with connections to Schiphol

Airport, Greenport in Aalsmeer, Zaanstad, Haarlem, IJmuiden and the centre of Amsterdam.

kaart Westpoort bestaat uit de haven en de deelgebieden Sloterdijk I, II, III, IV en Sloterdijk Centrum. / Westpoort – literally the 'Western Gateway' – consists of the port as well as the Sloterdijk I, II, III, IV and Sloterdijk Centre subsectors.

1 Totdat er woningbouw is gerealiseerd is er ruimte voor tijdelijke evenementen. Op de foto, festival Trammeland. / Until the housing is constructed there is space for temporary events. This photo was taken at the Trammeland Festival.
Foto: Martijn van den Dobbelsteen

2e	15%	2.300	47.000	1.400.000
haven van Nederland / ranks as 2nd largest port in the Netherlands	van de Amsterdamse economie / of the Amsterdam economy	bedrijven / companies	werkenden / employees	ton afval jaarlijks verwerkt, deels omgezet in energie en water / tonnes of waste are processed every year, in part transformed into energy and water

1 Uit het akoestisch onderzoek van Westpoort blijkt dat de 55 dB(A) geluidcontour (oranje) teruggelegd kan worden. Dezonering laat het bestemmen van wonen toe in Sloterdijk Centrum en Sloterdijk I. / The acoustic study of Westpoort revealed that the 55 dB(A) noise contour (marked in orange) can be teruggelegd pushed back. Zoning regulations permit the use of Sloterdijk Centre and Sloterdijk I for residential purposes.
Bron: PIP / Kaart: DGRM

3 Kernbegrippen in de nieuwe strategie voor Sloterdijk Centrum zijn: variëren, verblijven en verankeren. / Key concepts in the new strategy for Sloterdijk Centre: variation, spending time and embedding.
- gemengd stedelijk gebied, te transformeren / mixed urban area, awaiting transformation
- gemengd stedelijk gebied, nieuw te bouwen / mixed urban area, awaiting development
- plintfunctie / street-level functions
- verankering / anchor

Nu ook wonen

Aanvankelijk was wonen in de Sloterdijken niet mogelijk vanwege te veel geluidhinder. In de aanloop naar een nieuwe bestemmingsplan voor Sloterdijk Centrum (2013) is met een verfijndere rekenmethode gekeken naar hoeveel geluid de daar aanwezige wegen, sporen en industrie exact maken en in welk deel van het gebied deze geluidhinder laag genoeg is om woningen te kunnen bouwen. Dit bleek mogelijk in Sloterdijk I (zie in de kaart bij cijfer 1) en het zuidelijk deel van Sloterdijk Centrum (in de kaart: het rode kader met cijfer 2). In De Bretten zullen beslist geen woningen komen.
Het noordelijk deel van de Sloterdijken (3) valt momenteel nog binnen het gezoneerde industrieterrein Westpoort. Hier zijn woningen nog niet mogelijk. Op dit moment wordt gewerkt aan een zogenaamd *Provinciaal Inpassingsplan* waarbij de omliggende geluidszone in het noordelijke deel van de Sloterdijken kan worden teruggelegd. Hierdoor zou op termijn wellicht naast woningen in het zuidelijk deel, ook woningbouw in het noordelijk deel van de Sloterdijken mogelijk kunnen zijn.

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5 Op deze kaart is te zien dat in het bestemmings-plan naast kantoren, veel andere functies mogelijk zijn. De rode en oranje vlakken zijn geschikt voor woningen, bijvoorbeeld in bestaande kantoren en op onbebouwde kavels. / This map shows how the zoning scheme allows for many other functions besides office premises. The red and orange areas are suitable for housing, for example in existing office buildings and on parcels of land that are still undeveloped.
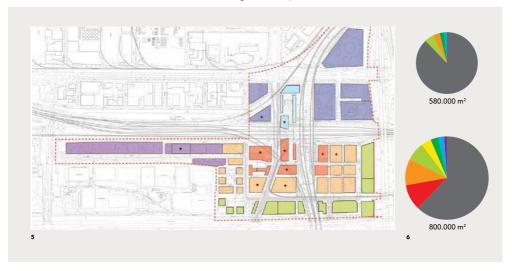
Programmamix per blok is toegestaan: hotels (h), voor-zieningen (v), *extended stay* (e), woningen (w), kantoren (k) en bedrijven (b) / The permitted programmatic mix per block: hotels (h), amenities (v), extended stay (e), dwellings (w), offices (k) and industry (b)

- h / v / k
- v / k / b
- h / v / k / b
- h / v / e / w / k
- h / v / e / k / b
- h / v / e / w / k / b
- ★ kantoor niet toegestaan / offices not permitted

6 Boven huidige programma en onder 2023. / The programme at present (above) and in 2023 (below).

- kantoren / offices
- woningen / dwellings
- hotels / hotels
- onderwijs en zorg / education and care
- *extended stay* / extended stay
- voorzieningen / amenities
- bedrijven/ industry
- cultuur en sport / culture and sport

580.000 m²

800.000 m²

5

6

- statuswijziging Haarlemmerweg / upgrade of Haarlemmerweg's status
- ★ potentiele verblijfsplek / potential place to linger

4 De Haarlemmerweg (links) is een rijksweg waar 70 km per uur gereden mag worden. Door de combinatie van het brede profiel, de hoge snel-heden en de flinke geluidsproductie van deze weg, vormt de Haarlemmerweg een forse barrière tussen Nieuw-West en Sloterdijk Centrum (rechts). De ambitie is om (een deel van) de Haarlemmerweg te upgraden naar een stadsweg, zoals de Haarlem-merweg dat binnen de Ring A10 ook is. / Haarlemmer-weg (left) is a national highway where the speed limit is 70 km/hour. The combination of this trunk road's broad profile, high traffic speeds and considerable noise production means that the Haarlemmerweg constitutes a major barrier between Nieuw-West and Sloterdijk Centre (right). The ambition is to upgrade a section of the Haarlemmer-weg into an urban high-way, like the Haarlemmerweg that lies within the A10 orbital motorway.
Foto: Martijn van den Dobbelsteen
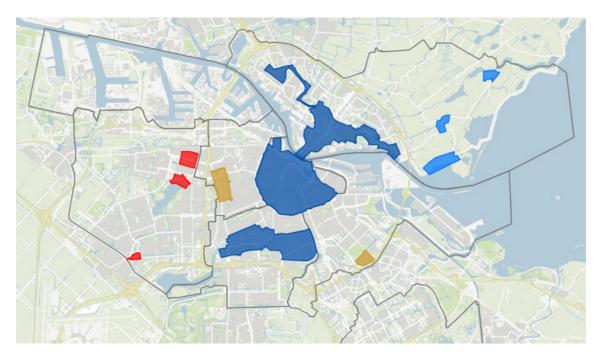
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Further questions:

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Protected area

Municipal protected cityscapes

Van Eesterenmuseum
Since 2008 Amsterdam has a municipal protected cityscape: the Van Eesterenmuseum. It concerns the area in the New West district, between the Burgemeester van Tienhovengracht (Gerbrandypark) and the Burgemeester Vening Meineszlaan. The face is named after the urban planner Cornelis van Eesteren, under whose leadership the General Expansion Plan (AUP) of Amsterdam - of which the area is a part - was developed. The Van Eesterenmuseum is part of the expansion plan Tuinstad Slotermeer, which was established in 1939 by the municipal council. Although partial plans had already been established, Tuinstad Slotermeer was the beginning of a new era. It was the first residential area outside the Ring Railway that was designed by the City Development Department. The buildings in the Van Eesteren Museum are both urban and architecturally representative of the experimental development stage of the post-war residential area. The design was developed before the war and realized in modified form in the early 1950s, as the first part of the Western Garden Cities. It is in many ways a transitional form between pre-war innovations and later parts of the Western Garden Cities such as Slotervaart and Osdorp.

North bank
On 18 October 2017, Noordoever was designated as a municipal protected city. The Noordoever area is part of the expansion plan Tuinstad Slotermeer (1939) and the design for the Sloterpark

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around the Sloterplas, which was established between 1939 and 1974. The designs were an elaboration of the General Expansion Plan of Amsterdam (AUP). In the AUP great value was attached to greenery and recreation in the modern city. From this came the special choice to be the center of the Western Garden Cities, a park and lake. The area Noordoever is at the head of the Sloterplas, and is a characteristic, virtually undamaged part of the AUP. The three gallery flats, the East Bank pavilion with the polka dot terrace and the boulevard with the rows of trees and the (green) port catch the eye. Various types of public space converge in the North Bank area, resulting in a varied and rich environment. In the staging, the urban planning principles of the New Building with which Van Eesteren and his partners / employees designed are clearly visible. All in all, the head of the Sloterplas, area Noordoever, is seen as a highlight in the post-war urban development of Amsterdam.

Further questions:

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Will automated cars take over in 2050?

History of eclectic car (wiki)

1990s: Revival of interest[edit]
After years outside the limelight, the energy crises of the 1970s and 1980s brought about renewed interest in the perceived independence electric cars had from the fluctuations of the hydrocarbon energy market. At the 1990 Los Angeles Auto Show, General Motors President Roger Smith unveiled the GM Impact electric concept car, along with the announcement that GM would build electric cars for sale to the public.

2000s: Modern highway-capable electric cars

California electric car maker Tesla Motors began development in 2004 on the Tesla Roadster, which was first delivered to customers in 2008.[59] The Roadster was the first highway legal serial production all-electric car to use lithium-ion battery cells, and the first production all-electric car to travel more than 200 miles (320 km) per charge.[60] Since 2008, Tesla sold approximately 2,450 Roadsters in over 30 countries through December 2012.[61] Tesla sold the Roadster until early 2012, when its supply of Lotus Elise gliders ran out, as its contract with Lotus Cars for 2,500 gliders expired at the end of 2011.[62][63] Tesla stopped taking orders for the Roadster in the U.S. market in August 2011,[64][65] and the 2012 Tesla Roadster was sold in limited numbers only in Europe, Asia and Australia

Notes:

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Further questions:

1. Extra interest : celebration and sustainability

[SLOTERDIJK]

now and future

12-13 Het 'raamwerk' van Cornelis van Eesteren uit het Algemeen Uitbreidingsplan(AUP) van 1934: een hiërarchisch stelsel van groen, water en wegen. / Cornelis van Eesteren's 'framework' from the 1934 General Expansion Plan (AUP): a hierarchical system of greenery, water and roads.
Kaart en schema: Pieterjan van Agtmaal, Bas Hamers

- autoweg / motorway
- stadslaan primair / avenue (primary)
- stadslaan secundair / avenue (secondary)
- wijkweg / local road
- landschap (regionaal) / landscape (regional)
- landschap (stad) / landscape (urban)
- park / park
- parkstrook primair / greenery (primary)
- parkstrook secundair / greenery (secondary)
- regionaal water / regional water
- stadswater / waterways
- Sloterplas / Sloterplas lake
- gracht / canal
- singel en parkwater / canal and park water

14 De doorkoppeling van het groen in de wijk naar de binnentuinen, zoals hier in de Torenwijk: een oorspronkelijk ontwerp van landschapsontwerper Mien Ruys. / Interconnecting the greenery in the neighbourhood with the internal gardens, as found here in the 'Tower District': an original design by landscape architect Mien Ruys.
Foto: Pieterjan van Agtmaal

14

12

landschap
(regionaal)

weg, and single-family dwellings with gardens in, for example, Nieuw-Sloten or historical, rural Oud-Sloten.
Kaart: Pieterjan van Agtmaal en Bas Hamers

Pre-AUP-gebieden / Pre-AUP districts
beschermingsregime object / object under preservation order
- orde 1 monumentwaardig) / grade 1 (worthy of monument status)
- orde 2 monumentwaardig) / grade 2 (worthy of monument status)

beschermingsregime buurt / neighbourhood under preservation order
- pre-AUP uitzonderlijk / pre-AUP exceptional
- pre-AUP standaard / pre-AUP standard

AUP-gebieden / AUP districts
beschermingsregime object / object under preservation order
- orde 1 en of Architectuur Top (monumentwaardig) / grade 1 and/or Exceptional Architecture (worthy of monument status)
- Stedenbouw Top / Exceptional Urban Design

beschermingsregime buurt / neighbourhood under preservation order
- AUP tuinstad uitzonderlijk / AUP garden suburb, exceptional
- AUP tuinstad bijzonder / AUP garden suburb, special
- AUP tuinstad standaard / AUP garden suburb, standard
- AUP tuinstad raamwerk / AUP garden suburb, framework

Post AUP-gebieden / Post-AUP districts
- post-AUP standaard / post-AUP standard

9

10

11

3 Een voorbeeld van de bebouwingstypologie met de twee gespiegelde haken is te vinden in de Funke Küpperbuurt. / An example of the architectural typology with two mirrored, L-shaped blocks can be found in the Funke Küpper Neighbourhood.
Foto: Pieterjan van Agtmaal

4 De oorspronkelijke bebouwingstypologie van Nieuw-West kenmerkt zich door open bouwblokken en een open hofvorm met twee gespiegelde haken. De opzet is ruim, met brede straten en veel groen. / The original urban typology of Nieuw-West is characterised by open residential blocks and an open courtyard form with two mirrored, L-shaped blocks. The overall layout is spacious, with broad streets and plenty of greenery.
Kaart: Pieterjan van Agtmaal en Bas Hamers

- gesloten bouwblok / internalised urban block
- u-blok / U-shaped block
- los reeks / individual structures, in series
- los solitair / individual structure, solitary
- meerzijdig opengewerkt bouwblok / openwork urban block
- strook / strip development
- haak / L-shaped block
- gecombineerde haak/strook / combined L-shaped/strip layout

3

4

[VOLD]

Hard data collection

[PUBLIC LIFE]

Soft data collection

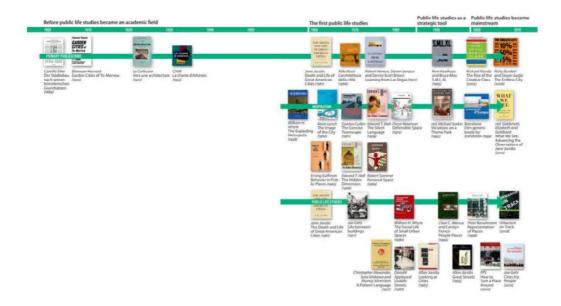# How to reseach public life ?

Notes:

1. Jan Gehl and Svarre Birgitte. How to study public life. (Washington, DC: Island Press, 2013), 40-41.
2. sd sdfsfsdfsdfsdfsfsdfsf
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How did people reseach on public life?

A time line diagram listing a series of prominent public life studies and publications. The time line start in 1889 with the publiction of Camillo Sitte's book on the art of building cities.

Further questions:

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Counting

Counting is a widely used tool in public life studies. In principle, everything can be counted, which provides numbers for making comparisons before and after, between different geographic areas or over time.

Mapping

Activities, people, places for staying and much more can be plotted in, that is, drawn as symbols on a plan of an area being studied to mark the number and type of activities and where they take place. This is also called *behavioral mapping*.

Tracing

People's movements inside or crossing a limited space can be drawn as lines of movement on a plan of the area being studied.

Tracking

In order to observe people's movements over a large area or for a longer time, observers can discreetly follow people without their knowing it or follow someone who knows and agrees to be followed and observed. This is also called *shadowing*.

Looking for traces

Human activity often leaves traces such as litter in the streets, dirt patches on grass etc., which gives the observer information about the city life. These traces can be registered through counting, photograping or mapping.

Photographing

Photographing is an essential part of public life studies to document situations where urban life and form either interact or fail to interact after initiatives have been taken.

Keeping a diary

Keeping a diary can register details and nuances about the interaction between public life and space, noting observations that can later be categorized and/or quantified.

Test walks
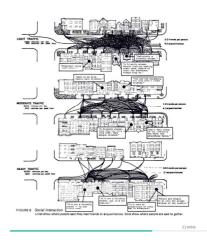
Taking a walk while observing the surrounding life can be more or less systematic, but the aim is that the observer has a chance to notice problems and potentials for city life on a given route.

"Winter day. Tuesday, 2.27.68 (...) Plan B1, which indicates standing and seated people in the area at 11.45 a.m., shows that all the seating in the sun is occupied, while none of the other benches in the area are being used. The largest concentration of people standing is near the hotdog stand on Amagertorv. The plan also shows that people standing to talk and standing to wait are either in the middle of the street or along the façades."
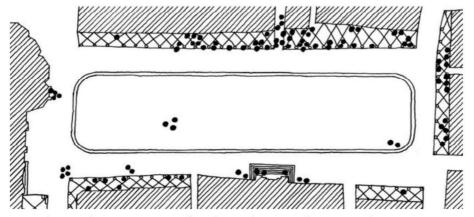
"Spring day, Tuesday, 05.21.68 (...) As in February, about 100 people on average are standing in front of shop windows, but all other forms of activity have increased. Most marked is the growth in the number of people standing and looking at what is going on. It is warmer now, and more is happening, therefore more to look at."
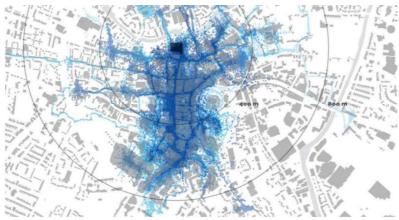

Rentemestervej
Saturday the 13th of September from 12-3 p.m.
Walking patterns at noon, 1, 2, and 3 o'clock

FIGURE 6 *Social Interaction*
Lines show where people said they had friends or acquaintances. Dots show where people are said to gather.

11 mins

Notes:

1.Jan Gehl and Svarre Birgitte. How to study public life. (Washington, DC: Island Press, 2013), 40-41.
2. Gehl, Jan, and Jo Koch. Life between buildings: using public space. (Washington, D.C.: Island Press, 2011),40-44.
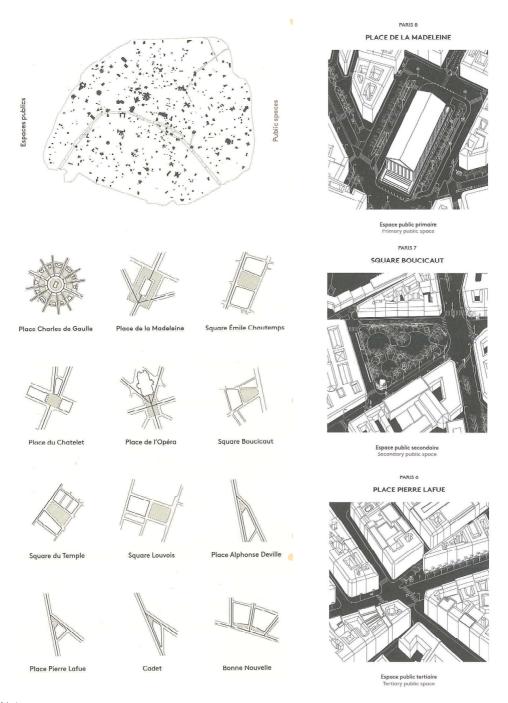3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Behavioral mapping is used to show where people are standing; everyone standing on the piazza at a given point in time is indicated on the plan.

Map of Norwich, England. Top: Capelfield parking garage at the edge of Norwich city center, where GPS devices were handed out. Bottom: St. Andrews parking garage, the other access point for the city center, where participants were also equipped with GPS devices. The dots show where participants stayed and moved around in Norwich's city center.

Further questions:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf
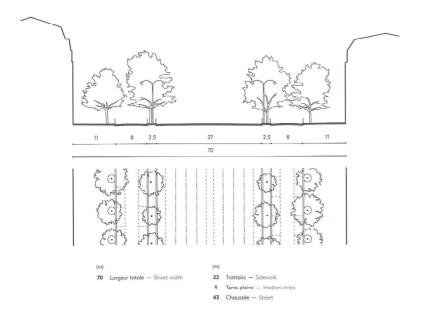
How to analyse the public space ?

Espaces publics — Public spaces

PARIS 8
PLACE DE LA MADELEINE

Espace public primaire
Primary public space

Place Charles de Gaulle

Place de la Madeleine

Square Émile Chautemps

Place du Chatelet

Place de l'Opéra

Square Boucicaut

PARIS 7
SQUARE BOUCICAUT

Espace public secondaire
Secondary public space

Square du Temple

Square Louvois

Place Alphonse Deville

Place Pierre Lafue

Cadet

Bonne Nouvelle

PARIS 6
PLACE PIERRE LAFUE

Espace public tertiaire
Tertiary public space

Notes:

1.Jallon, Benoit, and Umberto Napolitano. Paris Haussmann: Modèle de ville. (Zürich: Park Books, 2017), 19-22.
2. Jan Gehl. Cities for People. (Washington DC: Island Press, 2013), 66.
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

(m)
| **70** | Largeur totale — Street width |
| | |

22	Trottoirs — Sidewalk
5	Terre-pleins — Median strips
43	Chaussée — Street

(m)
| **42.9** | Largeur totale — Street width |

| **23.5** | Trottoirs — Sidewalk |
| **19.4** | Chaussée — Street |
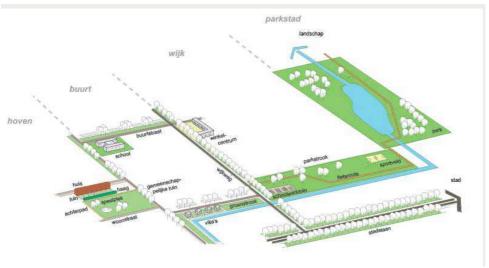
	1900 Old city areas	2000 New city ares (high density)	2000 New city ares (low density)	2000 New city areas (suburbs)
Average size of household	4 people	1.8 people	2 people	2.2 people
Average dwelling area per resident m³/sq. ft.	10/110	60/650	60/650	60/650
Floor to plot ratio	200%	200%	25%	20%
Number of dwellings per hectare	475	155	21	8
Number of residents per hectare	2,000 persons	280 persons	42 persons	17 persons

Further questions:

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2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Notes:

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Further questions:

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2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

BARCELONA 68 %
NEW YORK 60 %
MOSCOW 59 %
CHICAGO 62 %
AMSTERDAM 60 %
LONDON 57 %
MANILA 58 %
TOLEDO 60 %

Walkability

AMSTERDAM
30 % · 16 % · 32 % · 22 %

BRUSSELS
25 % · 28 % · 3 % · 44 %

LONDON
21 % · 44 % · 2 % · 33 %

COPENHAGEN
7 % · 28 % · 36 % · 29 %

DUBLIN
9 % · 48 % · 5 % · 36 %

LISBON
16 % · 35 % · 1 % · 48 %

MADRID
30 % · 32 % · 1 % · 37 %

PARIS
35 % · 53 % · 10 % · 2 %

MILAN
17 % · 41 % · 6 % · 30 %

10 CITIES
23 % · 38 % · 6 % · 33 %

Walkability

Notes:
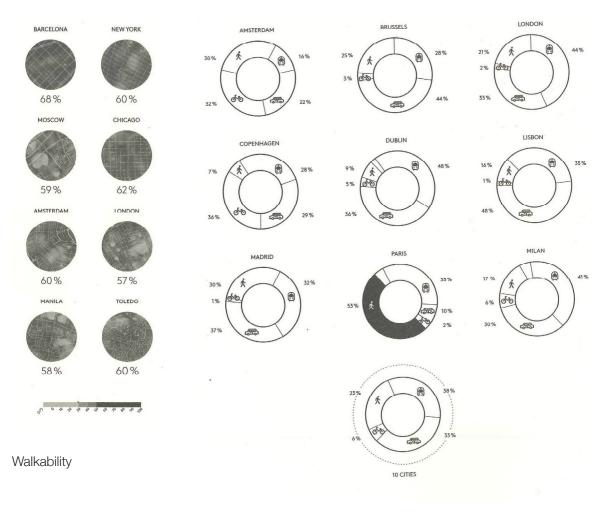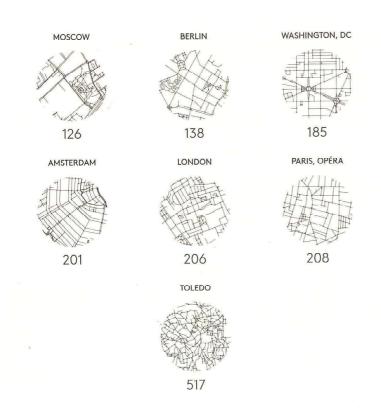
1.Jallon, Benoit, and Umberto Napolitano. Paris Haussmann: Modèle de ville. (Zürich: Park Books, 2017), 19-24

2. sd sdfsfsdfsdfsdfsfsdfsf

3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

MOSCOW

126

BERLIN

138

WASHINGTON, DC

185

AMSTERDAM

201

LONDON

206

PARIS, OPÉRA

208

TOLEDO

517

Efficiency of the reoad networks and the grid
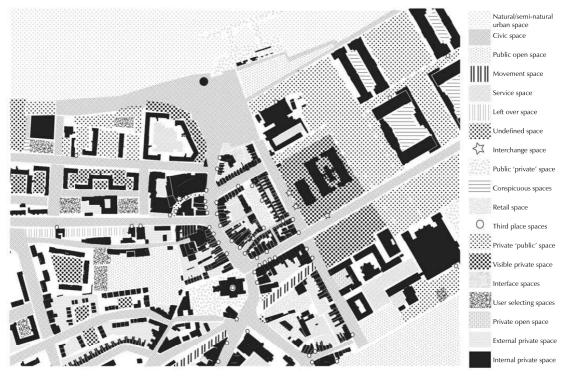
How to analyse public space (2) ?

Table 3.1 Urban space types

| Space type	Distinguishing characteristics	Examples
'Positive' spaces		
1. Natural/semi-natural urban space	Natural and semi-natural features within urban areas, typically under state ownership	Rivers, natural features, seafronts, canals
2. Civic space	The traditional forms of urban space, open and available to all and catering for a wide variety of functions	Streets, squares, promenades
3. Public open space	Managed open space, typically green and available and open to all, even if temporally controlled	Parks, gardens, commons, urban forests, cemeteries
'Negative' spaces		
4. Movement space	Space dominated by movement needs, largely for motorised transportation	Main roads, motorways, railways, underpasses
5. Service space	Space dominated by modern servicing requirements needs	Car parks, service yards
6. Left-over space	Space left over after development, often designed without function	'SLOAP' (space left over after planning), modernist open space
7. Undefined space	Undeveloped space, either abandoned or awaiting redevelopment	Redevelopment space, abandoned space, transient space
Ambiguous spaces		
8. Interchange space	Transport stops and interchanges, whether internal or external	Metros, bus interchanges, railway stations, bus/tram stops
9. Public 'private' space	Seemingly public external space, in fact privately owned and to greater or lesser degrees controlled	Privately owned 'civic' space, business parks, church grounds
10. Conspicuous spaces	Public spaces designed to make strangers feel conspicuous and, potentially, unwelcome	Cul-de-sacs, dummy gated enclaves
11. Internalised 'public' space	Formally public and external uses, internalised and, often, privatised	Shopping/leisure malls, introspective mega-structures
12. Retail space	Privately owned but publicly accessible exchange spaces	Shops, covered markets, petrol stations
13. Third place spaces	Semi-public meeting and social places, public and private	Cafés, restaurants, libraries, town halls, religious buildings
14. Private 'public' space	Publicly owned, but functionally and user determined spaces	Institutional grounds, housing estates, university campuses
15. Visible private space	Physically private, but visually public space	Front gardens, allotments, gated squares
16. Interface spaces	Physically demarked but publicly accessible interfaces between public and private space	Street cafés, private pavement space
17. User selecting spaces	Spaces for selected groups, determined (and sometimes controlled) by age or activity	Skateparks, playgrounds, sports fields/grounds/courses
Private spaces		
18. Private open space	Physically private open space	Urban agricultural remnants, private woodlands,
19. External private space	Physically private spaces, grounds and gardens	Gated streets/enclaves, private gardens, private sports clubs, parking courts
20. Internal private space	Private or business space	Offices, houses, etc.

Notes:
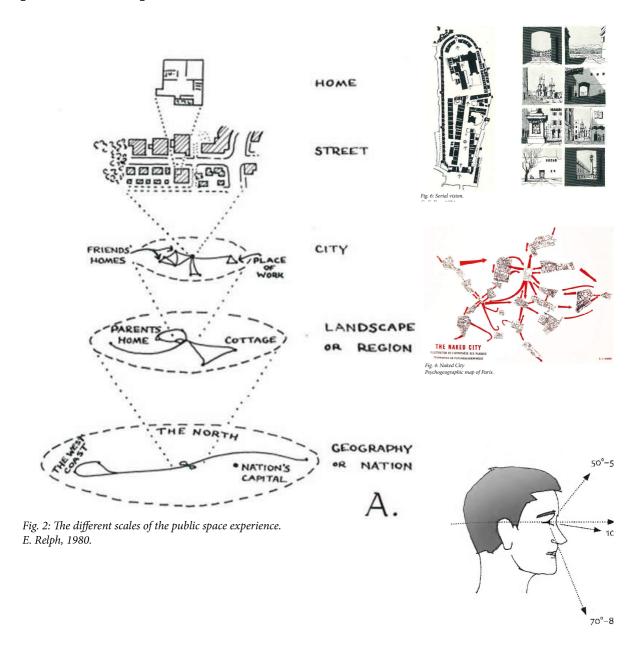
1.Carmona and Magalhaes,*Public space: the management dimension*, 71.
2.Carmona and Magalhaes,*Public space: the management dimension*, 72.
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Natural/semi-natural urban space
Civic space
Public open space
Movement space
Service space
Left over space
Undefined space
Interchange space
Public 'private' space
Conspicuous spaces
Retail space
Third place spaces
Private 'public' space
Visible private space
Interface spaces
User selecting spaces
Private open space
External private space
Internal private space

3.22 Space types: Greenwich

Further questions:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

How to study the perception of the public space ?

HOME

STREET

CITY

LANDSCAPE OR REGION

GEOGRAPHY OR NATION

A.

Fig. 2: The different scales of the public space experience.
E. Relph, 1980.

Fig. 6: Serial vision.
G. Cullen, 1971.

Fig. 4: Naked City
Psychogeographic map of Paris.

Notes:
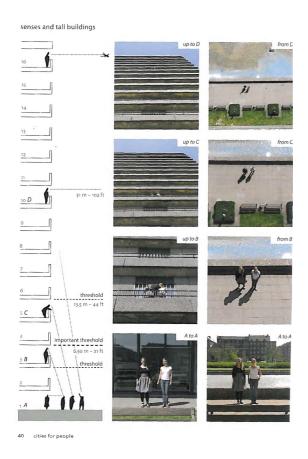
1.Relph, Edward. Place and Placeness. Londre: Island Press, 1980.
2.Debord, Guy. The naked city: illustration de lhypothèse des plagues tournantes en psychogéographique. Copenhagen: Permild & Rosengren, 1957
3. Jan Gehl. Cities for People. (Washington DC: Island Press, 2013), 15-17.
4. Cullen, Gordon. El Paisaje Urbano: tratado de esteticc urbanistia. Barcelona: Gustavo Gili, 1974.
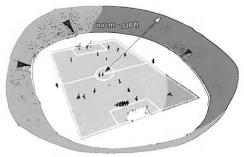
senses and tall buildings

up to D

from D

16

15

14

13

12

11

31 m – 102 ft

10 D

9

up to C

from C

8

7

6   threshold
13.5 m – 44 ft

5 C

4   important threshold
6.50 m – 21 ft

3 B   threshold

2

1 A

up to B

from B

A to A

A to A

40   cities for people

100 m – 328 ft

100 m / 328 ft
80 m / 262 ft
50 m / 164 ft
20 m / 66 ft
10 m / 33 ft
7.5 m / 25 ft
5 m / 16.5 ft
2 m / 6.5 ft
0.5 m / 1.6 ft

What we have here is a highly effective 100-meter (110-yard) "viewing

Further questions:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

What is the history of public space ?

World

Acropolis

Agora

Imperial foru

Time

Greek, 5th B.C.

Roman, 5

Netherlands

Sloterdijk

Notes:

1.Carmona and Magalhaes,*Public space: the management dimension*, 32-40.
2. Mumford, *The City in history: its origins, its transformation, and its prospects*, 138-139.
3. LeGates and Stout, *The city reader*, 33.
4. Hall, *The hidden dimension*, 39
5. Carmona and Magalhaes,*Public space: the management dimension*, 33.
6. Carmona and Magalhaes,*Public space: the management dimension*, 33.
7.Mumford, *The City in history: its origins, its transformation, and its prospects*, 316.
8. Carmona and Magalhaes,*Public space: the management dimension*, 41.

um in rome

Medival public space

Place des Vosges (Paris)

th B.C.

Middle ages

Renaissance and baroque

Further questions:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

World

Covent Garden piaszzza with church and market

Piccadilly Circus

Central Park, 1857

Time

| 1600 | 1800 | 1857 | 1900 |

Netherlands

Sloterdijk

Notes:

1.Carmona and Magalhaes,*Public space: the management dimension*, 28.
2.Heckscher and Phyllis. *Open spaces the life of american cities: a twentieth century fund essay*, 161-170.
3.Kayden, *Privately owned public space: the New York city experience*, 11.
4.Kiyjautiy-Sideris and Banerjee,1998 ,48
5.Kayden, *Privately owned public space: the New York city experience*, 11.

Covent Garden, 1900s

1950s   1960s   1970s   1980s

Beursplein, Rotterdam

Plein 40-45, 1950s

Plein 40-45, 1960s

Gulden winckelplantsoen,
1950s

Bos en lommer markt, 1960s

Further questions:

1. sdfsdfsdfsfsdfsfsd
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What are the event in sloterdijk ?

On November 25th at 4 pm, the rainbow path on the Passerelle of Amsterdam Sloterdijk is officially opened. Initiative and management committee member Münire Manisa, together with daily directors, Ronald Mauer and Erik Bobeldijk, will open the opening. They are assisted by hostess Dolly Bellefleur. The rainbow path must promote the acceptance of LHBTs in the district. (Source Newsletter Amsterdam, November 24,

September 23, 2017, 13:00 - 21:30

Content
The Sloterplas summer festival on Saturday, September 23, presents a program where enjoyment, meeting and experience of Amsterdam's diversity is central. A festival where everything comes together! World cuisine of foodtrucks, music performances by local and national artists, theater and film, a sports market and clinics. At the beginning of the evening, both children and adults can participate free of charge for the 2.5 km interactive interactive race at Sloterplas. Let yourself be surprised by the diverse program and take a look on September 23!

EAT - powered by Taste Boulevard
BEAT - powered by Meervaart
FEET - powered by Sport New West & MOVE
MEET - powered by Petit Socco
Category

November 16, 2017, 19:30 - 22:00

Content
Cycling competitions on the VElodrome track for MAsters.

Category
Sport and game

Target audience
Elderly people

Location Name
Velodrome Amsterdam

Address
Sloterweg 1045, Amsterdam

Website
http://velodrome-amsterdam.nl

TRIATHLON AMSTERDAM NEW-WEST

Order price and order cards
Free.
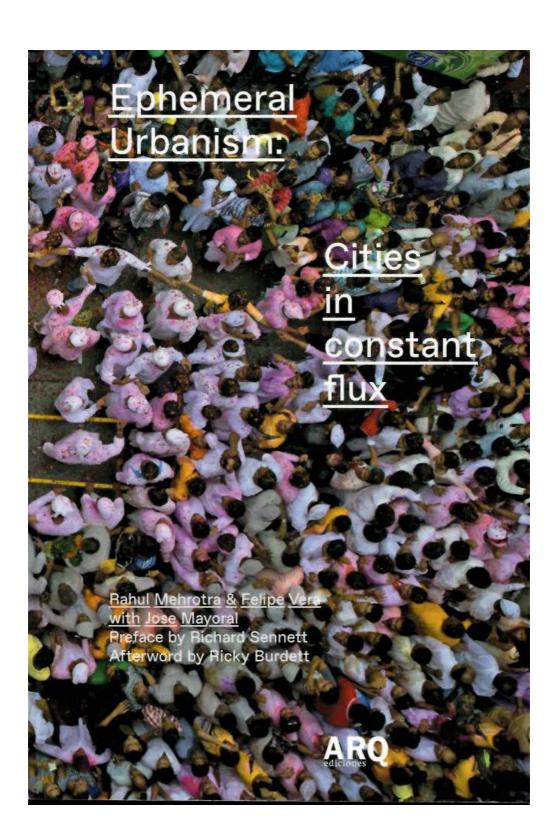
Notes:

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Further questions:

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2. sd sdfsfsdfsdfsdfsfsdfsf
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[EPHEMERAL]

Initial interest in architecture @ P.0

Ephemeral Urbanism:

Cities in constant flux

Rahul Mehrotra & Felipe Vera
with Jose Mayoral
Preface by Richard Sennett
Afterword by Ricky Burdett

ARQ
ediciones

What is ephemeral urbanism ?

Duration (days each year)

Case	Area/km²	Visitors
Afrikaburn, South Africa	0.9	8.500
Glastonbury, England	3.6	135.000
April Fair, Spain	1.2	1.000.000
Feast of Merced, Spain	0.002	2.000.000
Burning Man, U.S.A.	3.8	65.000
Battle of Oranges, Italy	0.8	140.000
Il Palio, Italy	0.12	25.000
Park(ing) Day, U.S.A.	0.000019	1.500
KaZantip, Georgia	0.06	100.000
Download Festival, England	2.63	90.000
San Fermin Festival, Spain	0.07	1.000.000
Oktoberfest, Germany	0.42	6.000.000
Mardi Gras, U.S.A.	0.045	750.000
Rio Janeiro Carnival, Brazil	0.2	2.500.000
Koningsdag, Netherlands	1.7	1.750.000
Jaisalmer Desert Festival, India	0.8	60.000
Byron Bay Bluesfest, Australia	0.11	101.000
Nowhere, Spain	0.035	1.500
Electric Daisy Carnival, U.S.A.	4.9	400.000
Dumbo Arts Festival, U.S.A.	0.13	220.000
Kanamara Matsuri, Japan	0.008	13.000
High Sierra Festival, U.S.A.	0.07	10.000
Bestival, England	1.1	55.000
Oppikoppi, South Africa	0.455	20.000
Outside Lands, U.S.A.	0.28	50.000
Boom Festival, Portugal	0.36	15.000
Coachella, U.S.A.	2.4	450.000
Creamfields, England	0.18	80.000
Electric Picnic, Ireland	1.3	42.000
Lightning in a Bottle, U.S.A.	0.36	20.000
		(per day)

Celebration

(months: January, February, March, April, May, June, July, August, September, October, November, December)

ephemeral [1]

/ɪˈfɛm(ə)r(ə)l,ɪˈfiːm(ə)r(ə)l/ 🔊

adjective

1. lasting for a very short time.
   "fashions are ephemeral: new ones regularly drive out the old"
   synonyms: transitory, transient, fleeting, passing, short-lived, momentary, brief, short, cursory, temporary, impermanent, short-term; More
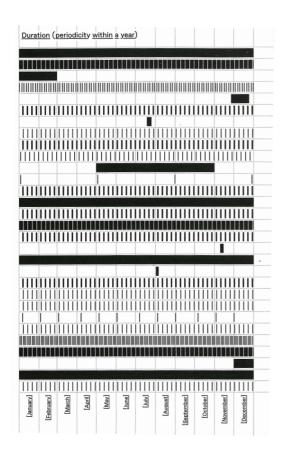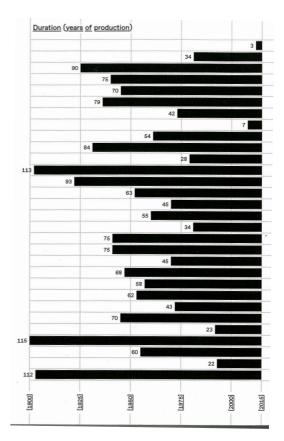
noun

1. an ephemeral plant.
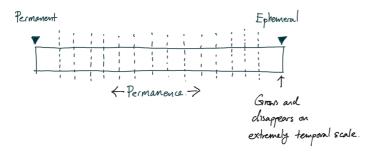   "ephemerals avoid the periods of drought as seeds"

Notes:

1. Dictionary: merriam webster
2. Rahul Mehrotra and Vera Felipe and Mayoral Jose, Ephemeral urbanism: cities in constant -flux (Chile: ARQ ediciones, 2016), 10-21.
3. image: Rahul Mehrotra and Vera Felipe and Mayoral Jose, Ephemeral urbanism: cities in constant -flux (Chile: ARQ ediciones, 2016), 10-276.

Duration (periodicity within a year)

Duration (years of production)

Permanent — Ephemeral
← Permanence →
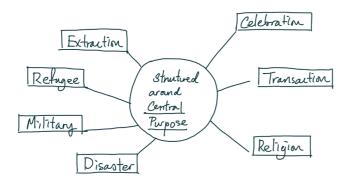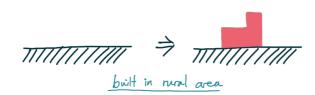Grows and disappears on extremely temporal scale.

Ephemeral urbanism is a study of urban phenomeon at the edge of the scale of permanence and it grows and disappears on an often extremely temporal time scale. It is a board study that encompasses a range of alternative forms of urbanism across more diverse geographies, acknowledging the temporary nature and challenging the notion of permanence as the basic condition of cities.[2]

Further questions:

1. Extra interest : celebration and sustainability

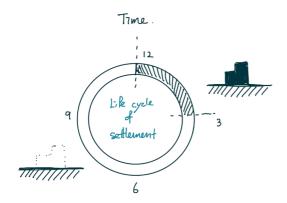# What are the perspectives to look at ephemeral urbanism?

Unlike more permanent ones that have a range of elements that simultaneously support their continuity, temporary cities are usually structured around a central purpose. Therefore, they are divided into different taxonomies according to their purpose such as celebration, transaction, religion and so on.

built in rural area
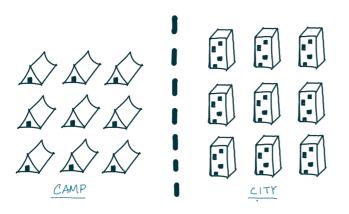

occupied existing urban structure

Temporary cities appear in a wide range of urban situation. Some achieve extreme transformations in rural settings an dsome ephemeral occupations of space act to infill preexisiting situations that work as reactivations of the urban space.

Notes:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Time.

12

Life cycle
of
settlement

9

3

6

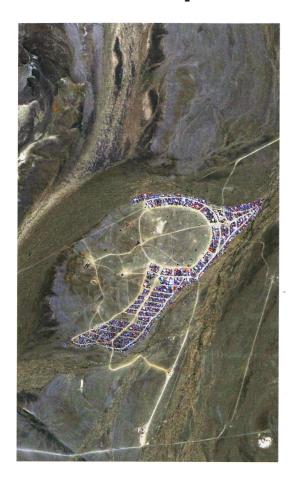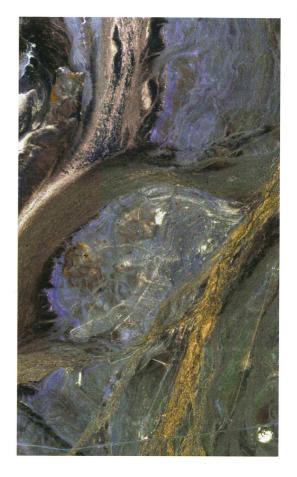Life cycle of the settlement and its material composition are also critical forces that define an ephemeral city's dimensions and complexity. It also concerns the reversibility of constuction and material circularity

CAMP

CITY

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXX

Further questions:

1. Extra interest : celebration and sustainability

Rural example : Afikaburn

built in rural area
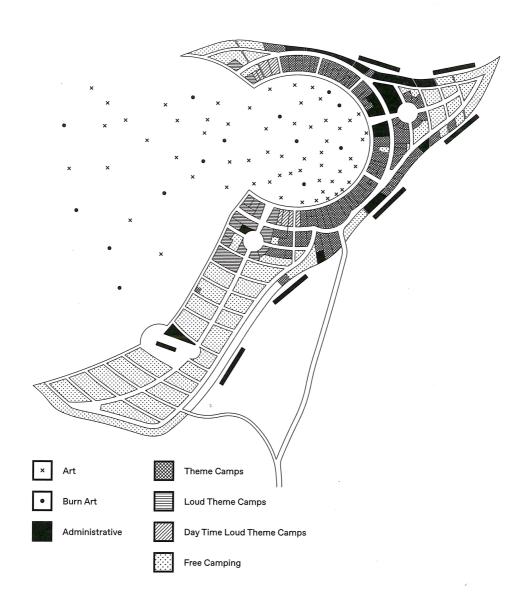
creative expression that occurs annually

temporary city of art, costumes, themed camps, music and performances before the burnin at the end of the event

location : Tankwa Karoo South Africa
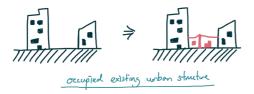
vistors: 8500

duratiion 5 days

area 0.9 km2

Notes:

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2. sd sdfsfsdfsdfsdfsfsdfsf

3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

×	Art	▨	Theme Camps	
•	Burn Art	☰	Loud Theme Camps	
■	Administrative	⧄	Day Time Loud Theme Camps	
		⠿	Free Camping	

Further questions:

1. Extra interest : celebration and sustainability

occupy exsiting example : mexico city

occupied existing urban structure

the market takes over the streets of mexico city has a histry that goes far back into the pre-historic period
location : Cuauhtemoc, Mexco City
duratiion everyday except sunday
area 0.11 km2

Notes:
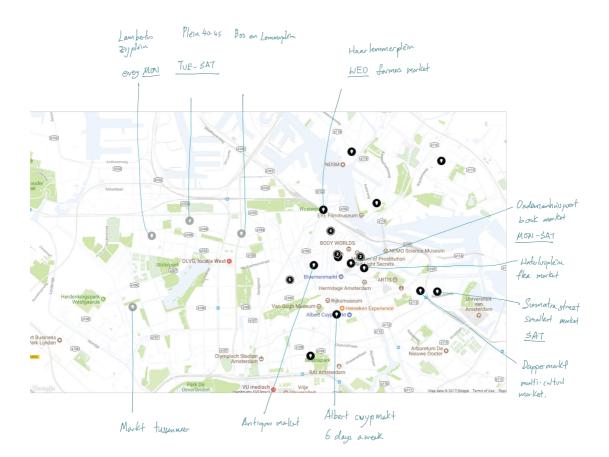
1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Amsterdam market

Type of market / items

- General goods
- Flowers and plants
- Farmers Market / Bioversmarkt
- Art / Antiques and Curiosities
- Books
- Stamps and coins
- Food cars

https://maps.amsterdam.nl/markten/?LAN

Notes:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Lambertus
Zijplein

every MON

Plein 40-45   Bos en Lommerplein

TUE-SAT

Haarlemmerplein

WED farmers market

Oudemanhuispoort
book market

MON-SAT

Waterlooplein
flea market

Sumatra street
smallest market

SAT

Dappermarkt
multi-cultural
market.

Markt tussenmeer

Antiques market

Albert cuypmakt
6 days a week

Further questions:

1. Extra interest : celebration and sustainability

Reversibility : Kumbh mela

[July 2012]

[October 2012]

[November 2012]

[January 2013]
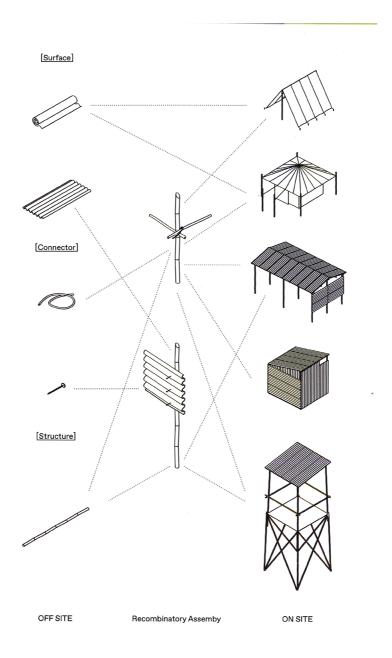
Location llahabad, India
visitors 100 million
duration 55 days
area 19.4 km2
every 12 years

reversibility : leaves almost no trace
on the ground after its disassembly

require huge infrastructureal
investments, similar to permanent
city : roads, bridges, tents of var-
ious sizes and several typologies
of social organization, electricity,
waste management, water sup-
ply,......

Notes:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsdfsdfssrerf

[Surface]

[Connector]

[Structure]

OFF SITE   Recombinatory Assemby   ON SITE

1. Extra interest : celebration and sustainability

Phase 0 : initial interest in architecture

Camp: extraction

CAMP
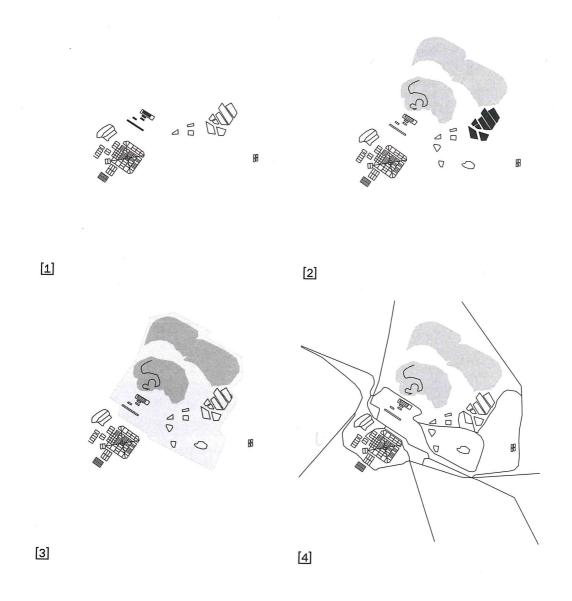
Maria Elena
location : Chile
population 4600
duration 90 years
area 7.5 km2
sodium nitrate extraction
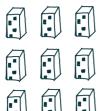
oriented towards productivity , utility and optimization
 labor and work over action

Notes:

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3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

[1]

[2]

[3]

[4]

Further questions:

1. Extra interest : celebration and sustainability

City: burning man
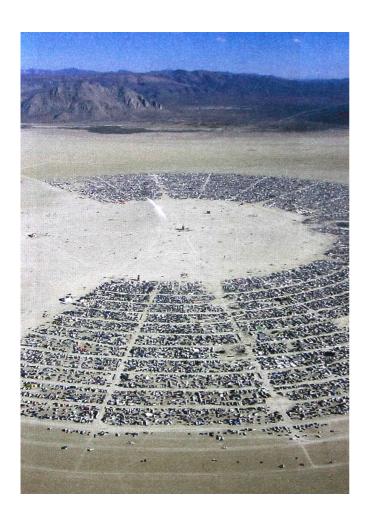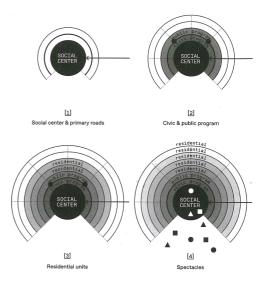
Burning Man
location : black rock city
population 65000
duration 7days
area 3.8km2

celebration, action happens

CITY

Notes:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

[1]
Social center & primary roads

[2]
Civic & public program

[3]
Residential units

[4]
Spectacles

Further questions:

1. Extra interest : celebration and sustainability

Amsterdam festival : king's day/ canal pride

https://www.google.nl/search?biw=1289&bih=680&tbm=isch&sa=1&ei=cH-77WYHVIIWka8m5u5AI&q=kings+-day+amsterdam+street&oq=kings+-day+amsterdam+street&gs_l=psy-

Notes:

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3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Further questions:

1. Extra interest : celebration and sustainability

Event in new west/ sloterdijk

https://i0.wp.com/www.bizoudwest.amsterdam/
wp-content/uploads/2016/03/24H-West-2016_
Deel1-V2.jpg

Notes:

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2. sd sdfsfsdfsdfsdfsfsdfsf
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. BRANDT & LEVIE
RCHANGELKADE 9
2. STICHTING NACHTLAB
OLATORWEG 36
3. BRET
RLYPLEIN 76
. AEB AMSTERDAM
USTRALIÉHAVENWEG 21
. NATUURSPEELTUIN
ET WOESTE WESTEN
VERBRAKERPAD 4
. MUSEUM HET SCHIP
AARNDAMMERPLANTSOEN 140
. GUSTAFSON
AARLEMMERWEG 6A
. NORTH SEA JAZZ CLUB
AZZANISTRAAT 1
. BEGRAAFPLAATS VREDENHOF
AARLEMMERWEG 367
. KESBEKE FIJNE TAFELZUREN
DOLF VAN NASSAUSTRAAT 8
. ZID THEATER
. ROOS VAN DEKAMAWEG 1
. WOW AMSTERDAM
ULTZANGHLAAN 60
. VAN EESTERENMUSEUM
URGEMEESTER DE VLUGTLAAN 125
. STREET ART BY NIGHT
I NIEUW-WEST
ETRO-, BUS- EN TRAMHALTE
E VLUGTLAAN
. PODIUM MOZAÏEK
OS EN LOMMERWEG 191
. BOLOBOOZE XL
FÉ KOOPER, BOS EN
OMMERWEG 218
. THE BOOKSTORE
NEST STAESSTRAAT 1
. STREET ART MUSEUM AMSTERDAM
MMANUEL KANTHOF 1
. MOMA&CO
OS EN LOMMERPLANTSOEN 1
. TERRASMUS
ASMUSPARK 1
. DE NATURELUUR
RESIDENT ALLENDELAAN 4
. THE STUDENT HOTEL
N VAN GALENSTRAAT 335
. SPORTPLAZA MERCATOR
N VAN GALENSTRAAT 315
. NIEUWBAKKEN
DMIRAAL DE RUIJTERWEG 106 HS
. DE TUIN VAN JAN
N MAIJENPLEIN 17
. TOON AMSTERDAM
N EVERTSENSTRAAT 4-8
. DE SCHOOL
. JAN VAN BREEMENSTRAAT 1
. LOLA LUID
ET MONDRIAANSTRAAT 140
. VAN EESTERENMUSEUM RONDVAART
EIGER BIJ OOSTOEVER 1
. WATERSPORTCENTRUM SLOTERPLAS
HRISTOFFEL PLANTIJNGRACHT 4
. STERK
CLERCQSTRAAT 7
. T.I.T.S.
CLERCQSTRAAT 78-3
. MAHARA EN HOUSE OF MULANI
CLERCQSTRAAT 123 HS
. DE NIEUWE LIEFDE
COSTAKADE 102
. HAPPYHAPPYJOYJOY
LDERDIJKSTRAAT 158 HS
. CITYHUB HOTEL
LLAMYSTRAAT 3
. DE HALLEN
ANNIE DANKBAARPASSAGE 33
. BEELDEND GESPROKEN (DE HALLEN)
ANNIE DANKBAARPASSAGE 23
. RASALILA YOGA- & DANSSTUDIO
WEEDE KOSTVERLORENKADE 67
. WESTERMOSKEE
RI REISPLEIN 101
. STREET ART-FIETSTOUR
CONSTANTIJN HUYGENSSTRAAT 31
. MACBIKE
G-PLEIN 84
. LAB111
IE BIEMONDSTRAAT 111
. ARTTOUR OUD-WEST
G-PLEIN TEGENOVER NUMMER 80
. INSIDEOUDWEST
LEIN BOSBOOM TOUSSAINTSTRAAT/
CONSTANTIJN HUYGENSSTRAAT
. COCO-MAT
VERTOOM 91
. RADION AMSTERDAM
OUWESWEG 1

Further questions:

1. Extra interest : celebration and sustainability

What can be learnt from the study of ephemeral urbanism

(+) effect when the ephemeral happens within existing structure of permanence

bottom up condition
unfolding of 'action' in the city to transform and activate spaces
the ephemeral paradigm of space coexists with robust atributes of the permanent, allowing for the creation of a more fluid occupation of the territory

when the ephemeral coexistks with the city paradigm, space is configured in a way in which 'labor' and 'work' serve to the proliferation of 'action'

while when the ephemeral becomes the absolute and perpetuated condition, the camp paradigm emerges, leaving 'action' and 'work' tied to the supporting of 'labor'

Notes:

1.sdfsdfsdfsfsdfsfsd
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

New perspective to look at city : kenetic city/ open city

1) city as dynamic, elastic and in motion; constantly morphing and mutating
TIME is a promanent dimension for city

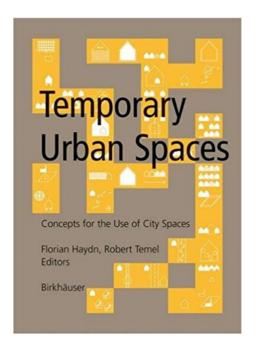challenge the notion of permanence as the basic condition of cities
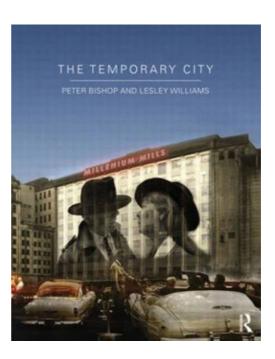
2) a response to contempory phenomenon :

ever increasing flows of human movement (flux)
increasing diaster
unknown economic crisis/ uncertainty is the new norm

ie city should be flexible to resist ineranl and exteranl pressure
reversibility, openess is the way to be more sustainable

Further questions:

1. Extra interest : celebration and sustainability

More related research ?
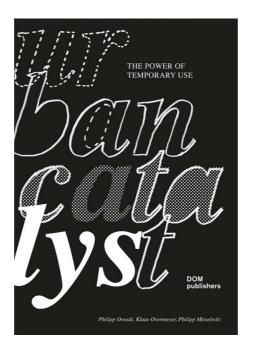
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THE POWER OF
TEMPORARY USE

DOM
publishers

Philipp Oswalt, Klaus Overmeyer, Philipp Misselwitz
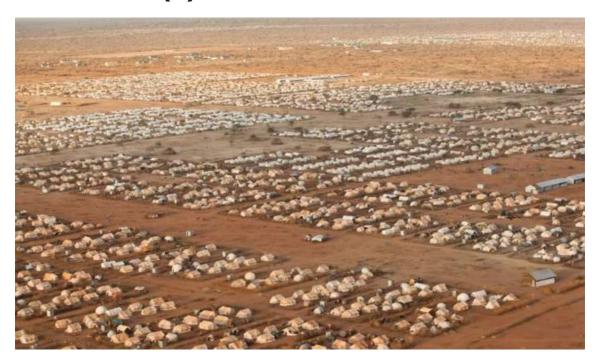
Further questions:

1. Extra interest : celebration and sustainability

Problems(1) :

Miss match : permanence happens in space of the temporal

aspire to be transitional, but turn into an unaccepted permanent solution
built with components not meant for permanence
Dadaab rgugee camp
population 83,083
duration 14 years (since 1992)
area 6.3 km2
largest refugee camp complex in the world,
composed of three camps, organization similar to that of a more permanent city :
adinistrative principles that call for low-density occupation of space that clearly sepa-
rates uses an dfunctions
built in block like any city unit
recognizable center and neighborhodds organized by a grid of 100 meters by 200
meters
incremental growth ---> diverse range of blocks that distinctly express the cultures of
their occupants (Smalis vs Ethiopians)
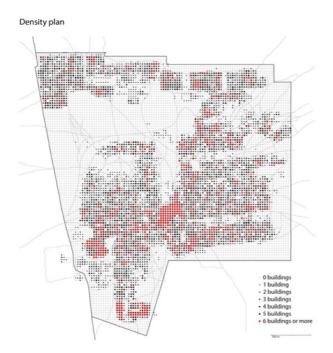
Notes:
_____

1.https://lurgnetwork.wordpress.com/2015/03/10/dadaab-refugee-camp-kenya-africa/
2. sd sdfsfsdfsdfsdfsfsdfsf
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

Density plan

0 buildings
1 building
2 buildings
3 buildings
4 buildings
5 buildings
6 buildings or more

Water tower - locations

watertower in school area
watertower in open space
situation

Further questions:

1. Extra interest : celebration and sustainability

Problems(2) :

Miss match : ephemerality happens in space of the permanene

A city without citizens: The 2010 Shanghai World Expo as a temporary city

Sophie Houdart *

CNRS (French Center for Scientific Research), Laboratory of Ethnology and Comparative Sociology, 68 Rue Waldeck Rousseau, 77360 Vaires, France

ARTICLE INFO

ABSTRACT

The paper draws on field-work on the 2010 Shanghai World Expo, held from May to October 2010. The focus of the study is not Shanghai *per se*, but Shanghai as the site of a world event; Shanghai as a city that becomes temporarily the meeting point of various heterogeneous forces. How to approach such an object? And what does it tell us on traces in cities? While considering the different positions to approach the relationships between a mega-event and the city that hosts it, I will argue that something reminiscent to a *simulated* city is being tested that shows particular models for populating and circulating urban spaces.

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Introduction

From May to October 2010, the city of Shanghai hosted the first World Fair ever held in China.[1] It is well known that World Fairs have played throughout history important roles in the constitution and development of cities. Since the inaugural Expo (the 1851 London's Great Exhibition of the Works of Industry of all Nations) and its Crystal Palace, 19th and 20th centuries saw tens of World Fairs that took part in architectural and infrastructural transformations contributing to reconfigure urban spaces.[2] As summarized by Maurice Roche, "they are traditionally staged either in a prestigious central area of a city, as in the case of the great Paris 19th-century expos, or, alternatively, in an urban area which the city leadership has zoned for economic development" (Roche, 2000, p. 130). As such, Expos are "ephemeral" phenomena (Greenhalgh, 1988) that lead often to spectacular urban extension or renovation: the 1967 Montreal Expo

was the occasion to develop an island area in the St. Lawrence River; the 1992 Seville Expo was aimed at boosting Andalusia region; and the 1998 Lisbon Expo involved "the regeneration of a declining and derelict river-front area on the river Tagus" (Roche, 2000, pp. 133–134). Following the same line of analysis, the 2010 Shanghai Expo is planned to extend the city of Shanghai by the regeneration of a former industrial zone on both sides of the Huangpu River. Along with this aspect, literature on World Fairs often focuses on their "important role in shaping the contours of the modern world" (Rydell, 1993). From Walter Benjamin declaring that "World Exhibitions are the sites of pilgrimages to the commodity fetish" to more recent studies that distinguish the nationalistic versus globalized sides of fairs (see for instance Harvey, 1996; Rydell, 1984), they are depicted as symbolic events that imply particular versions of consumerism, mass culture, and urban landscapes – in a triangulation with theme parks and Olympics games.

However, the question of how a temporary city is *enacted* during World Fairs is often left aside. My aim here is not to explain how the city of Shanghai could be potentially extended by the Expo, but rather to describe how the Expo is organized to provide a temporary urban space, and how it functions, in a deleuzian way, as a *becoming-city*. The 2010 Shanghai Expo provides us with interesting data to follow this process. Although World Fairs have always been seen as moments to celebrate urbanity (from the 1889 Paris Expo to the 1970 Osaka Expo), the Shanghai

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* Tel.: +33 1 46 69 25 98; fax: +33 1 46 69 25 91.
E-mail address: Sophie.houdart@mae.u-paris10.fr

[1] The data used in this paper are taken from an ethnographic field study conducted in Shanghai in June 2010 that was not about Shanghai *per se* but about Shanghai as being the site of a world event. As such, it serves as a comparative point with the long-term study that I conducted in Japan between 2000 and 2005 on the preparation of the previous World Fair, held in Aichi in 2005 (Houdart, 2007, 2008). This personal research is part of a collaborative project, co-directed by Brigitte Baptandier and myself, on the Shanghai Expo.

[2] For an overview of architectural innovations during Expos, see (Garn, 2007).

Notes:

1. http://www.meet-in-shanghai.net/news/news.php?id=1382

2. https://en.wikipedia.org/wiki/Expo_2010#Attendance

3. http://www.nytimes.com/2010/11/03/world/asia/03shanghai.html
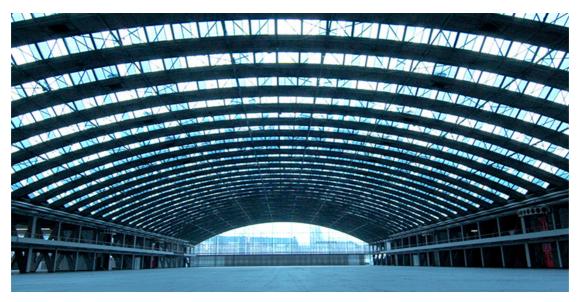
**73 million visitors ,4.2 million are foreigners (5.8%)
daily average 400,000 ppl**

Further questions:

1. Extra interest : celebration and sustainability

Problems(2) :

Miss match : ephemerality happens in space of the permanene

RAI :

conceptually :
the ephemeral happens inside space of permanence

Typologically:
public event should speak of openess happens inside gated space

Practically:
30% of the time is empty, space not fully utilized
same case for big outside public space, usually empty

In case of economic downturn/ crisis, will be even more empty and dead (2008 revenue droped 10% compared to 2007)

Notes:

1.http://www.at5.nl/artikelen/15965/rai-heeft-ook-last-van-economische-crisis
2. https://www.parool.nl/amsterdam/recessie-brengt-rai-in-rode-cijfers~a262933/
3. dfsfsdfsfsfsfsfsfsdfsdfsdfssrerf
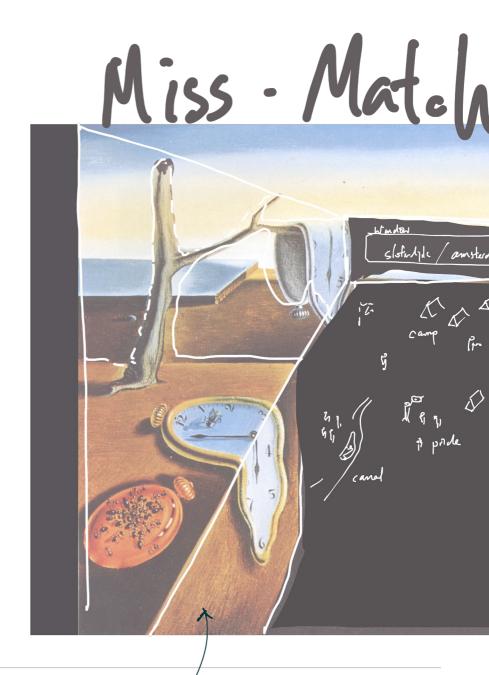
empty public space Ziggo Dome

collage

Miss match : ephemerality happens in space of the permanene
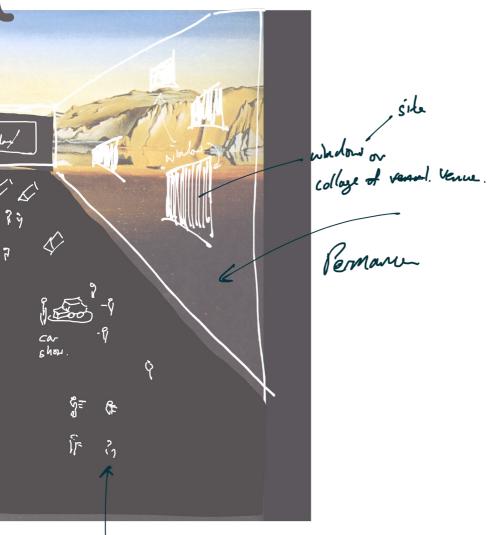
Notes:

1.http://www.at5.nl/artikelen/15965/rai-heeft-ook-last-van-economische-crisis
2. https://www.parool.nl/amsterdam/recessie-brengt-rai-in-rode-cijfers~a262933/
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

site

window or
collage of venal. venue.

Permanen

car
show.

ephemeral.

Research questions :

Research question
Key theme must include.

what u wanna do ⇒ ?

Rigid planning
looser planning
open-source
plannng

urban planning

customization

ICT
Real time

New tech.
future

time

keneth city

Research
perspective

Private
+
Public

Program

ephemeral city

draft
scale

culture
local public space

Potential

problems

miss-match

Constant
flux

utilization
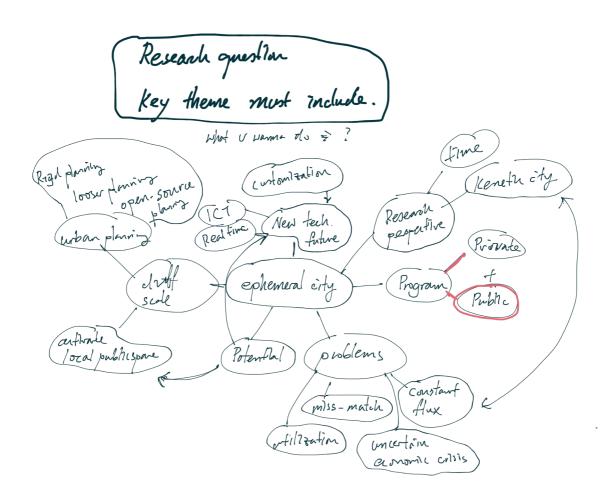
uncertain
economic crisis

Notes:

1. http://www.at5.nl/artikelen/15965/rai-heeft-ook-last-van-economische-crisis
2. https://www.parool.nl/amsterdam/recessie-brengt-rai-in-rode-cijfers~a262933/
3. dfsfsdfsfsfsfsfsfsdfsdfssrerf

economic crisis

/Research/ ① How to include the 4th dimension of a city (TIME)
by studying ephemeral events?

/New/
tech
② How Can the rise of virtuality of our life and
new concept of ownership and sharing can
make the city more fluid and flexible
to facilitate the happening of ephemeral?

/Problem/ ③ How can the future city better
[response to constant flux of people, uncertain] → one name?
economic crisis and further utilize urban
spaces by embracing the ephemerality within
a city

/urban/
planning
④ What can we learn from all ephemeral
elements in a city and apply on
urban planning for the future city.

/Public/
space
⑤ How can we activate the void,
the public space in sloterdijk by embracing
and introducing ephemerality into the area
in the future
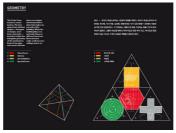
Further questions:

1. Extra interest : celebration and sustainability

Related projects

Transformer (OMA)

Prada Transformer is a temporary structure picked up by cranes and rotated to accommodate a variety of cultural events. The 20-metre high Prada Transformer is located adjacent to the 16th Century Gyeonghui Palace in the centre of Seoul. The pavilion consists of four basic geometric shapes - a circle, a cross, a hexagon, a rectangle - leaning together and wrapped in a translucent membrane.

Shanghai Urban Planning Exhibition Center

The Exhibition Center is a six-storey building, with two basement levels, which displays Shanghai's urban planning and development. The focus of the exhibit is a large scale model of the entirety of urban Shanghai, showing existing buildings and approved future buildings. Other exhibits relate to Shanghai's history and planned development, including smaller scaled models focussing on particular areas of interest such as the Bund. The Exhibition Center also has space for temporary exhibitions with a wide range of subject matter.

Day and night: Amsterdam mayors Eberhard van der
Laan and Mirik Milan. Photograph: Jon Henley

Nachtburgemeester

As cities become increasingly 24-hour and night-time economies grow in scale – the
Dutch dance industry alone, focused on Amsterdam, is worth €600m (£470m) a year
(pdf) and employs 13,000 people full- and part-time – it is a job that needs doing.
"Late-night culture is a massive motor for cities' economic wellbeing," says Milan, who
has been invited as far afield as Tokyo and Rio de Janeiro to talk about the Amsterdam
approach.

"Late-night people are typically young, educated, creative, entrepreneurial – people you
want in your city, and who work in the creative industries and startups you also want. If
places like Berlin have flourished, it's not just because of low rents. It's because they're
nightlife capitals."

Out in Amsterdam-West by the A10 motorway is De School, one of the 10 trial 24-
hour venues just outside the city centre that since last year have been free to decide
for themselves when they open and close. A sprawling former technical college that
opened in January, De School now houses an airy daytime cafe, a gourmet restaurant,
a gym, a concert space, an art gallery that is currently negotiating exhibitions with Am-
sterdam's Stedelijk Museum and the Palais de Tokyo in Paris – and, in the basement, a
cavernous and (at 2.30 in the morning) heaving nightclub.

"The idea," Milan says, "was to take some of the night-time pressure off the inner city,
and to bring something new to the near suburbs." That part has worked: De School has
sold out every weekend since it opened, while its weekday and night activities are also
filling fast.

The early success of De School and several of its fellow 24-hour venues has revealed
another truth, says Kyara van Loenen, its creative director. "People now are very happy
to cycle 20, even 30 minutes, out of the city centre for a bigger, different, more com-
plete experience," she says.

"It's a lifestyle thing. The people coming here work hard – really hard – in the day and
run or work out in the gym several times a week. At the weekend, they want to party.
Being able to open 24 hours a day means we can offer them something that really
matches their needs, that they really want." "We need a 24-hour library, 24-hour work-
spaces for students and creatives and people whose work means they're dealing with
the other side of the world. Shops where you can buy tomorrow's breakfast, or that
cable you need now for that presentation you're giving at 9am. It's possible."

It's not always an easy balance to strike. The night mayor helps us understand the is-
sues better, from all sides, and come up with innovative solutions – like 24-hour licenc-
es. Everyone benefits. It makes a real difference in Amsterdam."

A little further outside the city centre, Radion Amsterdam, a vast former dentistry school
and another 24-hour licence holder, was hosting a 36-hour dance party that started on
Friday evening and would end at 11am on Sunday.

24-HOUR LICENSES

Amsterdam wants a diverse and exciting nightlife. A plan for 24-hour catering can be anything and is not limited to the 'classic' club concepts with dance and DJs for a young target group. The question is whether it is an addition to the Amsterdam night and day life. It can also be quiet places for insomniacs or stranded travelers or anyone else to work, eat, play sports, talk or other activities.

At present, eight 24-hour initiatives are active in the city. They are concepts without compulsory opening and closing times that are an enrichment for Amsterdam. These are: Tolhuistuin (North), De Overkant (North), Toren A'dam (North), De School (West), DOKA (East), Cruquiusgilde (East), De Koning Party Events (Westpoort) and Radion (Nieuw -West).

Stichting N8BM A'DAM advises Bureau Broedplaatsen about the 24 hour plans.
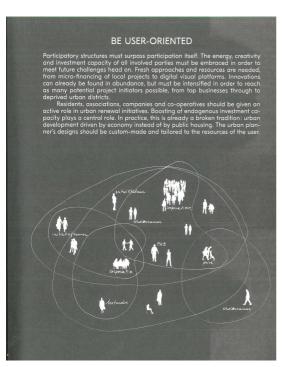
The Spontaneous City
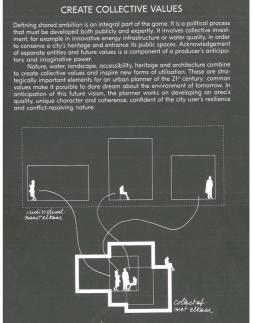
Urhahn advocates the spontaneous city. This concept is rooted in the idea that the city is made with and for its residents. A city must create scope for unexpected (organic) developments, opportunities that present themselves, users that appear, and a wide range of initiatives.
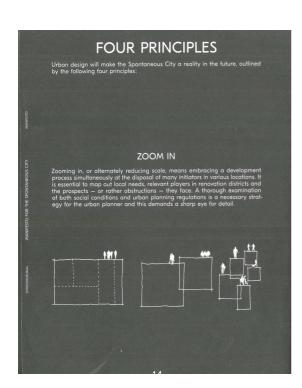
Space for change forms the basis of a sustainable and attractive city. This applies not only to the planning process but also to the completed project. In our plans we always seek a balance between what must be fixed and where you need to create flexibility for users. We prefer to determine this in consultation with (future) users. That is the spontaneous city!
New forms of area development on the horizon
The days of huge growth are behind us. Nonetheless we remain optimistic, because all around us we see forms of area development appearing. More and more residents, entrepreneurs and collectives are working to improve our everyday surroundings. Local authorities and property developers are also rapidly redefining their roles. New perspectives come together to create the 'spontaneous city'. A city built on initiative, Dutch mercantile mentality and public ambitions.
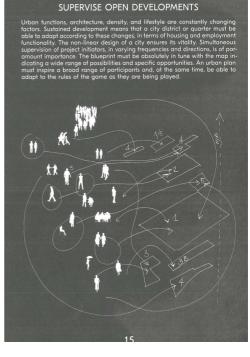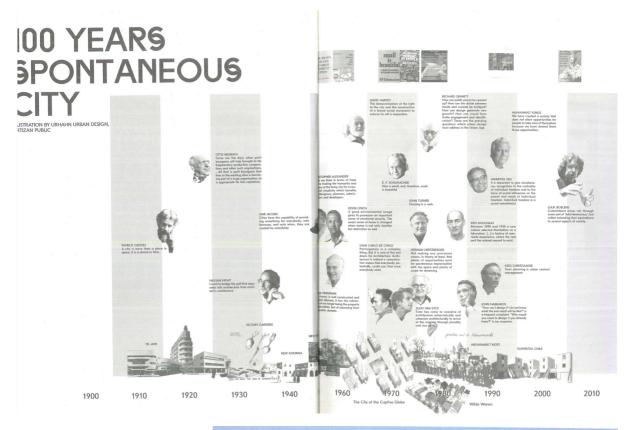
BE USER-ORIENTED

Participatory structures must surpass participation itself. The energy, creativity and investment capacity of all involved parties must be embraced in order to meet future challenges head on. Fresh approaches and resources are needed, from micro-financing of local projects to digital visual platforms. Innovations can already be found in abundance, but must be intensified in order to reach as many potential project initiators possible, from top businesses through to deprived urban districts.

Residents, associations, companies and co-operatives should be given an active role in urban renewal initiatives. Boosting of endogenous investment capacity plays a central role. In practice, this is already a broken tradition: urban development driven by economy instead of by public housing. The urban planner's designs should be custom-made and tailored to the resources of the user.

CREATE COLLECTIVE VALUES

Defining shared ambition is an integral part of the game. It is a political process that must be developed both publicly and expertly. It involves collective investment, for example in innovative energy infrastructure or water quality, in order to conserve a city's heritage and enhance its public spaces. Acknowledgement of separate entities and future values is a component of a producer's anticipatory and imaginative power.

Nature, water, landscape, accessibility, heritage and architecture combine to create collective values and inspire new forms of utilisation. These are strategically important elements for an urban planner of the 21st century: common values make it possible to dare dream about the environment of tomorrow. In anticipation of this future vision, the planner works on developing an area's quality, unique character and coherence, confident of the city user's resilience and conflict-resolving nature.

FOUR PRINCIPLES

Urban design will make the Spontaneous City a reality in the future, outlined by the following four principles:

ZOOM IN

Zooming in, or alternately reducing scale, means embracing a development process simultaneously at the disposal of many initiators in various locations. It is essential to map out local needs, relevant players in renovation districts and the prospects — or rather obstructions — they face. A thorough examination of both social conditions and urban planning regulations is a necessary strategy for the urban planner and this demands a sharp eye for detail.

SUPERVISE OPEN DEVELOPMENTS

Urban functions, architecture, density, and lifestyle are constantly changing factors. Sustained development means that a city district or quarter must be able to adapt according to these changes, in terms of housing and employment functionality. The non-linear design of a city ensures its vitality. Simultaneous supervision of project initiators, in varying frequencies and directions, is of paramount importance. The blueprint must be absolutely in tune with the map indicating a wide range of possibilities and specific opportunities. An urban plan must inspire a broad range of participants and, at the same time, be able to adapt to the rules of the game as they are being played.

100 YEARS SPONTANEOUS CITY

ILLUSTRATION BY URHAHN URBAN DESIGN,
PARTIZAN PUBLIC

1 Party	14 Barbecue
2 Rap	15 Fair
3 Allotments	16 Strolling
4 Art garden	17 Camping
5 Urban beach	18 School gardens
6 Event space	19 City gathering
7 Sport	
8 Pic-nic	A Garden House
9 Kitchen-garden	B House for entrepreneurs
10 Sailing	C House for education
11 Fishing	
12 Staring at the sky	
13 Fair	

0 Plotwise transformation of former industrial buildings, increase in density and mix of housing and public services.

1 House for entrepreneurs, innovative people and people looking for a job. A combination of a café, community center, meeting space, gallery and employment office.

2 House for education, the existing VMBO-College with vegetable garden, education showcase and public library.

3 Garden House, a bier and juice garden to meet and relax. A pleasure for everybody.

4 Noorderveld (Northern Field) offers plenty of opportunities. Here anybody can do for 10 years what he feels like: kids farms, music bands, art gardens, barbecues, horse riding courses, sport fields, everything is welcome.

5 Small scale housing and public services among companies.

6 Promenade along the riverside across small harbours, bathing in the sunlight.

7 Bridge over the IJ for bikes and pedestrians. It can be opened to free the passage for bigger ships

8 The complex of Albemarle provides a contrasting and shining panorama background. If it ever leaves, the mix of nature and industrial monuments will provide a magnificent platform for something new in the city.

9 Open air space for events with cultural festivals, fairs and Ferris wheel.

Participation process in Hoofddorp

Hoofddorp is gradually evolving into a resilient and more vibrant city that residents and entrepreneurs feel more attached to and involved in the developments. The area between the centre of Hoofddorp and the station plays an important role in realizing this ambition. A prominent position is occupied by Beukenhorst West, an office district with a 50% vacancy level.
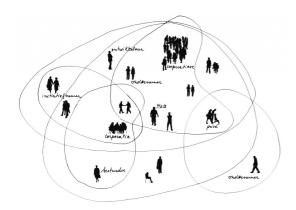
The municipality works in an open process, based on the intensive involvement of residents, owners, entrepreneurs and other stakeholders, on the design and development of Hoofddorp Centraal. The sport hall on Prins Hendriklaan is the epicentre of this process. Building blocks for the development strategy were gathered during three working sessions supervised by Urhahn. In a follow up, Urhahn teamed up with those involved and with Stadkwadraat, landscape architects Dijk&co (park design) and Stipo (office complex) to draw up the design and development strategy for Hoofddorp Centraal.

Organic area development Oostenburg Am-

How to define a zoning plan that meets organic area development? Along with the urban planners of the Central District we proposed spatial constraints. In three sessions in Pakhuis de Zwijger we collected information from future residents and the neighbourhood. Their input changed the plan: it adapts more to the neighbourhood and at the same time it offers more flexibility.

The next step is the design of public space and development of passports for the plots. The industrial identity forms the leading theme for the public space: emphasis on the utilization of space by residents and entrepreneurs, with industrial pavement where cars are only guests. The plot passports always provide a balance between freedom in development, and consistency and security.

Co-creation and space for initiatives
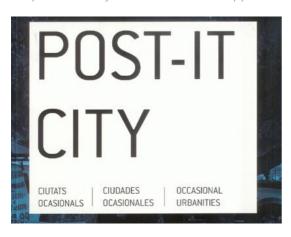
Co-creation and the spontaneous city are closely linked. After all, stakeholders' initiatives have an important role to play in the spontaneous city. In our view, co-creation means working with partners right from the start, and always reserving space for new parties.

A multitude of parties forms the basis for diversity and a mixed city. The energy of initiatives is the engine for transformation. Do more parties mean more complexity? Urhahn welcomes this complexity. Because working with various parties is precisely what we like doing on the basis of co-creation. The discussion provoked is welcome, because we are capable of arriving at new ideas with large groups of people. To achieve that, our team deploys spatial tools such as models and examples from elsewhere to inspire and fire the imagination.

experimentcity

experimentcity SUPPORTS collaborative housing forms and diversity in urban neighborhoods as well as participative and sustainable (re)uses of vacant buildings and land. This offers urban pioneers and innovative housing and cultural projects a platform to publicize their ideas.

POST-IT CITY: The Other European Public

These dynamics carry out a temporary rewriting of the urban space they fill - traditional but also provisional spaces, which are mobilized as a function of events, of the evolution of the city, of the specific individual or group initiatives, constituting a fragile and fragmentary network which filters into the tightly woven structures of urban public space. Post-It City is a functional apparatus of the contemporary city. It is particularly involved with the dynamics of public life, with the behavior of individuals, their modes of encounter, of gathering, of bonding, of recognition, and of distinction, which all leave the traditional paths behind. Equally and more radically, Post-It City is a form of resistance against virtual modes of encounter and the normalization of "public behavior" in the contemporary city - where as Ed Soja reminds us, "even if you don't want to, you have to respect the role assigned to you."
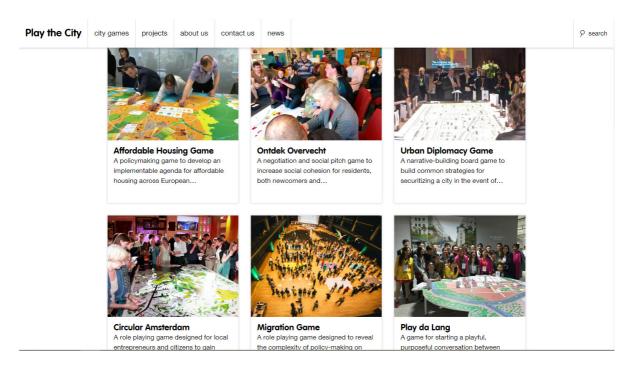
The Post-It metaphor actually concerns a rather narrow spectrum of urban phenomena. But traditional public space, as its representational use value changes, is obliged to take the complexity and heterogeneity of the cultural and social mutations conveyed by these phenomena into account. New collective spaces are joining the network of public places that connote the historical city, and the network of public places that punctuate the density of the contemporary city, which is characterized by a planned diffusion, an extension of relations, an attachment to communication networks. This new reality shifts the traditional dynamics of public life into new conditions. What emerges from these temporary spaces is above all non-codification. Unlike the simulated public spaces whose mechanisms of "controlled reaction" offer inhabitants, tourists and suburbanites very specific chances to meet and exchange, the Post-It spaces have no predominant codification: they are vacant lots, residual spaces around the communications systems,

Pop-Up City

At a time when people and information move faster than ever before, cities themselves are now in a permanent state of change. They are no longer the product of master plans and fixed frame-works, but are increasingly being shaped by citizen-led initiatives and temporary projects by people hoping to make their cities better.

Golfstromen is an Amsterdam-based urban design and communications agency that launched Pop-Up City in 2008, out of a fascination for the ways in which citizens, organizations, enterprises, and governments were coming up with creative and flexible solutions to deal with this new urban dynamic.

https://www.playthecity.nl/page/408/play-the-city-projects

[RAI]

programmatic and typological analysis

How big is RAI ?
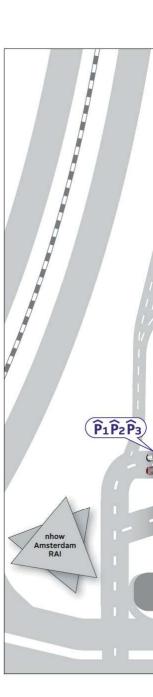
Halls

HALLS	m²	sq.ft.	◌◌	⣿	☀
Hall 1	15,000	161,459	6,900	10,000	•
Hall 1 with balcony	18,240	196,334			•
Hall 2	4,060	43,701	1,840	4,000	•
Hall 3	3,920	42,195	1,600	4,000	•
Amtrium (Hall 4)	540	5812	264	500	•
Hall 5	7,435	80,030	3,440	6,000	•
Hall 6	1,025	11,033			•
Hall 7	10,460	112,590	4,040	8,000	•
Hall 8	12,600	135,625	4,680	10,000	•
Hall 9	2,845	30,623			•
Hall 10	3,970	42,733	1,800	4,000	•
Hall 11	4,165	44,832	1,890	4,000	•
Hall 12	9,035	97,252	3,900	7,500	•
Elicium (Hall 13)	1,985	21,366	1,070	2,000	•

Figures are guidelines, no rights can be derived from these figures. • Available.

nhow
Amsterdam
RAI

P1 P2 P3
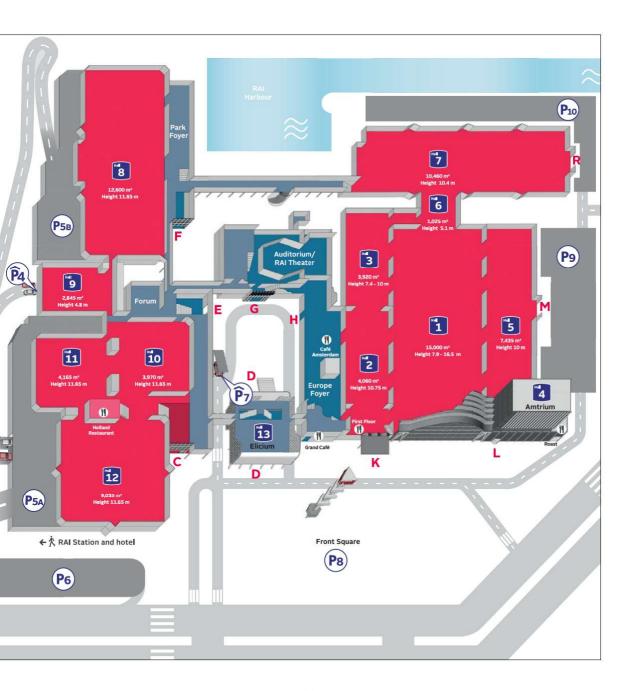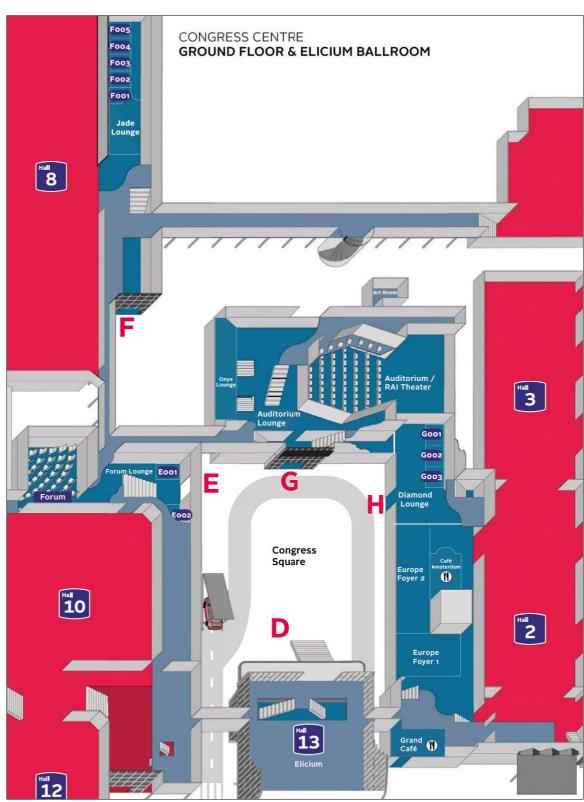
RAI Amsterdam's 112,200 m² (1,207,710 sq. feet) of hireable space make it the largest congress centre in the Netherlands. The fully air-conditioned building has 12 multifunctional halls which can be used for exhibitions, trade fairs, cultural, sporting and other events. It has 68 meeting and conference rooms (1,750 capacity)

RAI Harbour

Park Foyer

Hall 8
12,600 m²
Height 11.65 m

P5B

P4

Hall 9
2,845 m²
Height 4.8 m

Forum

F

E

G

H

Hall 7
10,460 m²
Height 10.4 m

R

Hall 6
1,025 m²
Height 5.1 m

P9

Auditorium/ RAI Theater

Hall 3
3,920 m²
Height 7.4 - 10 m

M

Hall 1
15,000 m²
Height 7.9 - 16.5 m

Hall 5
7,435 m²
Height 10 m

Café Amsterdam

Hall 11
4,165 m²
Height 11.65 m

Hall 10
3,970 m²
Height 11.65 m

D

P7

Hall 2
4,060 m²
Height 10.75 m

Europe Foyer

Hall 4
Amtrium

Holland Restaurant

First Floor

Roast

C

Hall 13
Elicium

D

Grand Café

K

L

Hall 12
9,035 m²
Height 11.65 m

P5A

← 🚶 RAI Station and hotel

Front Square

P8

P6

CONGRESS CENTRE
GROUND FLOOR & ELICIUM BALLROOM

F005
F004
F003
F002
F001

Jade
Lounge

Hall
8

Art Room

F

Onyx
Lounge

Auditorium /
RAI Theater

Hall
3

Auditorium
Lounge

G001
G002
G003

Forum Lounge   E001

Forum

E

G

H

Diamond
Lounge

E002

Congress
Square

Europe
Foyer 2

Café
Amsterdam

Hall
2

Hall
10

D

Europe
Foyer 1

Hall
13
Elicium

Grand
Café

Hall
12

Congress Centre

Ground floor & Elicium Ballroom

ROOMS / LOUNGES	m²	sq.ft.	▦	♁♁	⛭⛭	⊔	▢	☼☼	▽	☀
ENTRANCE D Elicium										
Elicium Ballroom	1,985	21,366	2,000	776	1,128	130		1,070		•
Elicium 1	869	9,353	700	288	468	92				•
Elicium 2	1,116	12,013	1,100	432	654	104				•
ENTRANCE E Forum Centre										
E001*	48	517					10			•
E002*	38	409					8			•
Forum	755	8,127	709	368						
Forum Lounge	1,120	12,056						390	500	•
ENTRANCE F Park Centre										
Park Foyer	1,120	12,056	514					500	800	•
F001*	18	194					8			
F002	90	969	80	40	60	26	32	64		
F003	90	969	80	40	60	26	32	64		
F004	90	969	80	40	60	26	32	64		
F005	90	969	80	40	60	26	32	64		
F002-F003/F003-F004/F004-F005	180	1,938	176	84	120	44	52	96		
F002-F004/F003-F005	270	2,906	250	120	180	60	72	136		
F002-F005	360	3,875	302	160	252	82	92	208		
Jade Lounge	336	3,616						112	250	•
ENTRANCE G Auditorium Centre										
Onyx lounge	795	8,557						360	500	•
Auditorium ground floor + Balcony	1,500	16,146	1,746							
Auditorium ground Floor	1,054	11,345	1,262							•
Auditorium Lounge + Upper Lounge	2,660	28,632								•
Auditorium Lounge	1,600	17,222						496	1,250	•
Upper Lounge	1,060	11,410						424	700	•
Dressing Room 1-3	18	194								•
Artist Foyer*	88	947								•
G001	51	548	50		36	15				
G002	44	474					8			•
G001-G002	95	1,022	110	32	72	31	36	56		•
G003*	43	463					10			•
Diamond Lounge	745	8,019						232	500	•
Europe Foyer	1,833	19,730						1,120	1,250	•
Europe Foyer 1	1,163	12,518						730	750	•
Europe Foyer 2	670	7,211						410	500	•
ENTRANCE M										
M001**	25	269								
RESTAURANTS										
Grand Cafe	480	4,359						200		•
Cafe Amsterdam	245	2,637						80		•

Figures are guidelines, no rights can be derived from these figures.
(2) maximum 3 seperate rooms
*Fixed Seating
**Only in combination with halls.
• Available

CONGRESS CENTRE
FIRST FLOOR & ELICIUM BALLROOM

Park Foyer

Hall 8

F102
F101

F

Emerald Room

Auditorium / RAI Theater

Hall 3

Emerald Lounge

Upper Lounge

Topaz Lounge

G101
G102
G103

Forum

E101

Ruby Lounge

E102

E

G

H

G104
G105
G106
G107
G108
G109
G110
G111

E103

Hall 10

E104
E105
E106
E107

Congress Square

Hall 2

E108

D

Amsterdam Suite

Europe Lounge

First Floor Lounge

First Floor Restaurant

K102 K101

Holland Lounge

Elicium 1   Elicium 2

Hall 12

Elicium Ballroom

Congress Centre — First floor & Elicium Ballroom

ROOMS / LOUNGES	m²	sq.ft.	⬛	🏫	⣿	⊔	⬚	◯◯	▽	☀
ENTRANCE C										
Holland Lounge	270	2,906								•
ENTRANCE D Elicium										
Elicium Ballroom	1,985	21,366	2,000	776	1,128	130		1,070		•
Elicium 1	869	9,353	700	288	468	92				•
Elicium 2	1,116	12,013	1,100	432	654	104				•
ENTRANCE E Forum Centre										
Ruby Lounge	424	4,564						192	250	•
E101	20	215				16				•
E102	239	2,573	240	102	138	42	60	120		•
E103	120	1,292	100	48	66	28	40	72		•
E104 (2)	115	1,239	100	52	66	28	36	64		•
E104-E105/E106-E107	180	1,938	200	98	126	44	52	112		•
E104-E106/E105-E107	280	3,014	260	128	186	66	72	160		•
E104-E107	394	4,241	390	184	228	82	100	208		•
E105 (2)/E106 (2)	80	861	68	30	42	22	28			•
E105-E106	160	1,722	148	70	108	38	44	80	100	•
E107 (2)	115	1,239	100	52	66	28	36	64		•
E108	120	1,292	100	48	66	28	40	72		•
ENTRANCE F Park Centre										
Park Foyer	1,120	12,056	514					670	800	•
F101**	94	1,011								
F102**	44	473								
ENTRANCE G Auditorium Centre										
Auditorium Gr. floor + Balcony	1,500	16,146	1,746							
Auditorium Ground floor	1,075	11,571	1,262							•
Upper Lounge	1,060	11,410						400	700	•
Emerald Room	240	2,583	266	98	168	44	56	128		•
Emerald Lounge	595	6,405						248	280	•
Dressing Room 4-8	18	194								
Dressing Room 9	27	291								
G101	35	377	24	10	22	16	16			•
G102	125	1,346	154	57	90	26	36	64		
G103	125	1,346	134	57	84	26	36	64		
G102/G103	250	2,690	300	114	186	54	64	128		
Topaz Lounge	495	5,328						216	250	•
G104	120	1,292	120	49	76	30	40	64		•
G105	120	1,292	120	49	76	30	40	64		•
G104-G105/G106-G107	240	2,584	277	110	170	54	68	128		•
G106	120	1,292	120	49	76	30	40	64		•
G107	120	1,292	120	49	76	30	40	64		•
G109	100	1,076	88	42	66	34	36	56		•
G108/G110/G111	45	484	32	18	18	14	16	24		•
Amsterdam Suite	70	753					22			•
ENTRANCE K										
K101	80	861					22			
K102	80	861					22			
First Floor Lounge	205	2,207								•
Europe Lounge	282	3,035								
ENTRANCE R										
R101**	35	376					6*			
R102**	72	775					12*			
RESTAURANTS										
First Floor	480	5,167						166		•

Figures are guidelines, no rights can be derived from these figures.
(2) maximum 3 seperate rooms
*Fixed Seating
**Only in combination with halls
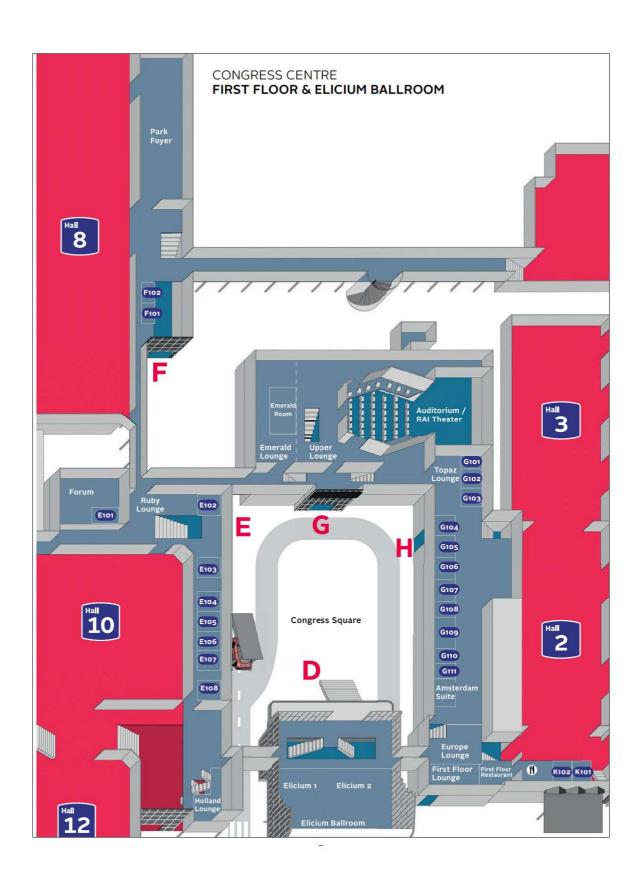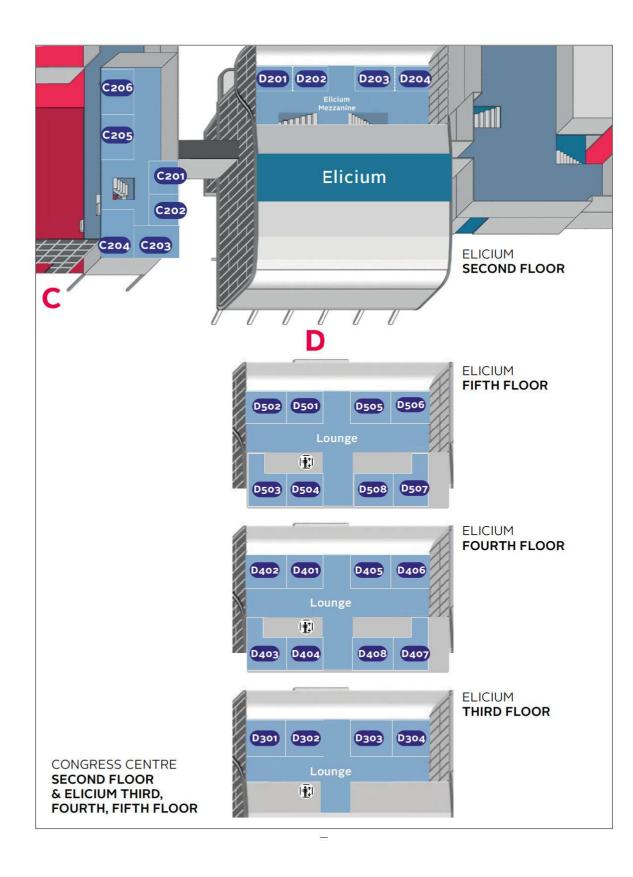• Available

C206

C205

C201

C202

C204 C203

C

D201 D202 D203 D204

Elicium Mezzanine

Elicium

ELICIUM
SECOND FLOOR

D

ELICIUM
FIFTH FLOOR

D502 D501 D505 D506

Lounge

D503 D504 D508 D507

ELICIUM
FOURTH FLOOR

D402 D401 D405 D406

Lounge

D403 D404 D408 D407

ELICIUM
THIRD FLOOR

D301 D302 D303 D304

Lounge

CONGRESS CENTRE
**SECOND FLOOR
& ELICIUM THIRD,
FOURTH, FIFTH FLOOR**

Congress Centre — Second floor & Elicium Second/Third/Fourth/Fifth floor
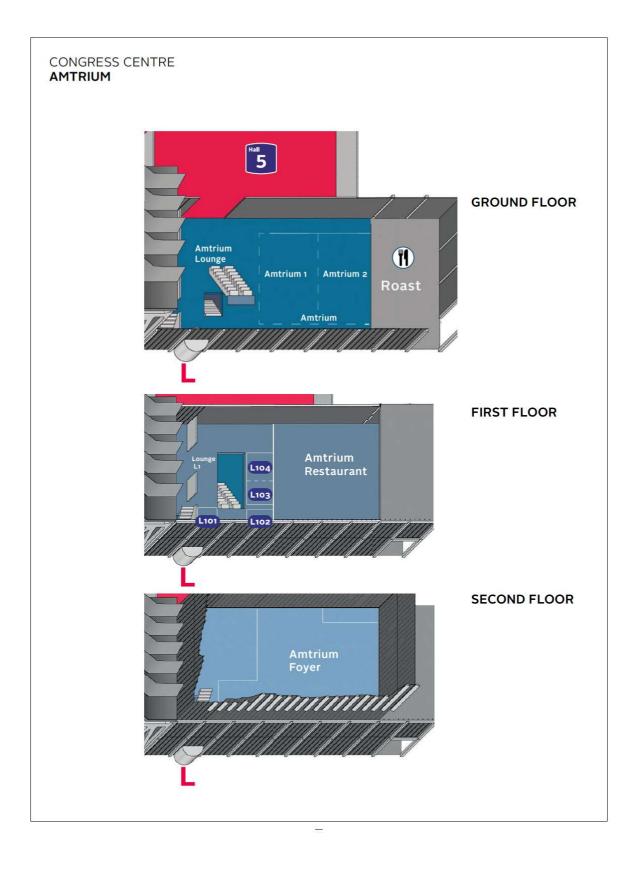
ROOMS / LOUNGES	m²	sq.ft.	⚏	⚎	⚌	⚍	▢	☀☀	▽	☼
ENTRANCE C										
C201*	48	517					8			•
C202*	45	484					8			•
C203*	75	807								•
C204*	58	624					18			•
C205**	34	366					8			
C206**	40	431					8			
ENTRANCE D Elicium										
D201	105	1,130	94	30	42	22	28			•
D202	105	1,130	98	38	54	22	28			
D201-D202/D203-D204	210	2,260	198	72	126	54	60	104		•
D203	105	1,130	98	38	54	22	28			
D204	105	1,130	94	30	42	22	28			•
D301	50	538	28	14	24	18	26			•
D302	40	431	20	10	18	10	18			•
D303	40	431	20	10	18	10	18			•
D304	50	538	28	14	24	18	26			•
D401	40	431	20	10	18	10	18			•
D402	50	538	28	14	24	18	26			•
D403	70	753	48	22	39	20	28			•
D404	50	538	35	18	30	16	22			•
D405	40	431	20	10	18	10	18			•
D406	50	538	28	14	24	18	26			•
D407	70	753	48	22	39	20	28			•
D408	50	538	35	18	30	16	22			•
D501*	40	431					11			•
D502	50	538	28	14	24	18	26			•
D503	70	753	48	22	39	20	28			•
D504	50	538	35	18	30	14	22			•
D505*	40	431					11			•
D506	50	538	28	14	24	18	26			•
D507	70	753	48	22	39	20	28			•
D508	50	538	35	18	30	16	22			•
In Between*	30	323					10			
ENTRANCE F Park Centre										
F201	45	484								
F202	27	290								
F203	69	742								

Figures are guidelines, no rights can be derived from these figures.
(2) maximum 3 seperate rooms
*Fixed Seating
**Only in combination with halls.
• Available

CONGRESS CENTRE
AMTRIUM

GROUND FLOOR

Hall
5

Amtrium
Lounge

Amtrium 1   Amtrium 2   Roast

Amtrium

L

FIRST FLOOR

Lounge
L1

L104   Amtrium
Restaurant

L103

L101   L102

L

SECOND FLOOR

Amtrium
Foyer

L

Congress Centre

Amtrium Ground/First/Second floor

ROOMS / LOUNGES	m²	sq. ft.	⣿	⣿	⣿	⣿	⣿	⣿	▽	☀
AMTRIUM Ground Floor										
Amtrium 1	275	2,970	305	128	168	48	64			
Amtrium 2	265	2,852	270	128	168	46	60			
Amtrium	540	5,812	500	194	294	84	108			
Amtrium Lounge	600	6,458								•
Amtrium incl. Lounge	1,140	12,271								•
AMTRIUM First Floor										
L101	32	344	27	8	12	10	16			•
L102	31	333	27	8	12	10	16			•
L103	53	570	56	20	30	14	20			
L104	53	570	61	26	30	14	20			
L103-104	106	1,140	126	36	70	24	36			
Lounge L1	267	2,874								•
AMTRIUM Second Floor										
Amtrium Foyer	915	2,874								•
RESTAURANTS										
Amtrium Restaurant	538	5,791						250		•

Figures are guidelines, no rights can be derived from these figures.
(2) maximum 3 seperate rooms
*Fixed Seating
**Only in combination with halls.
• Available

[Architectural Refernce]
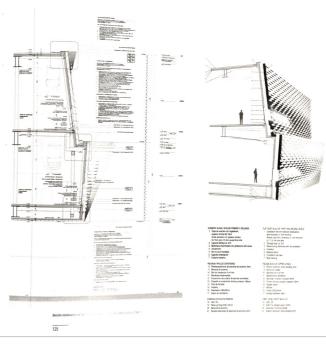
Practical concerns and parameters
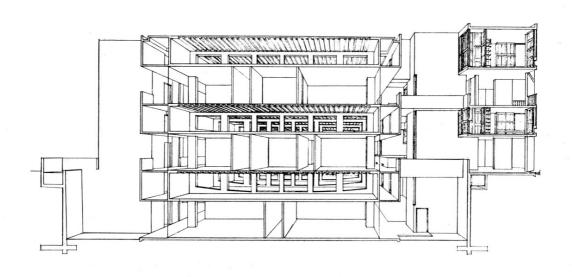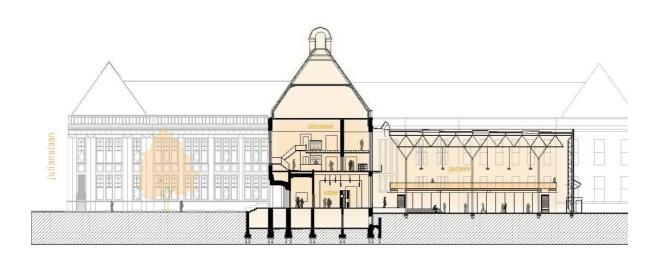
Seccion constructiva de ...

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Notes:

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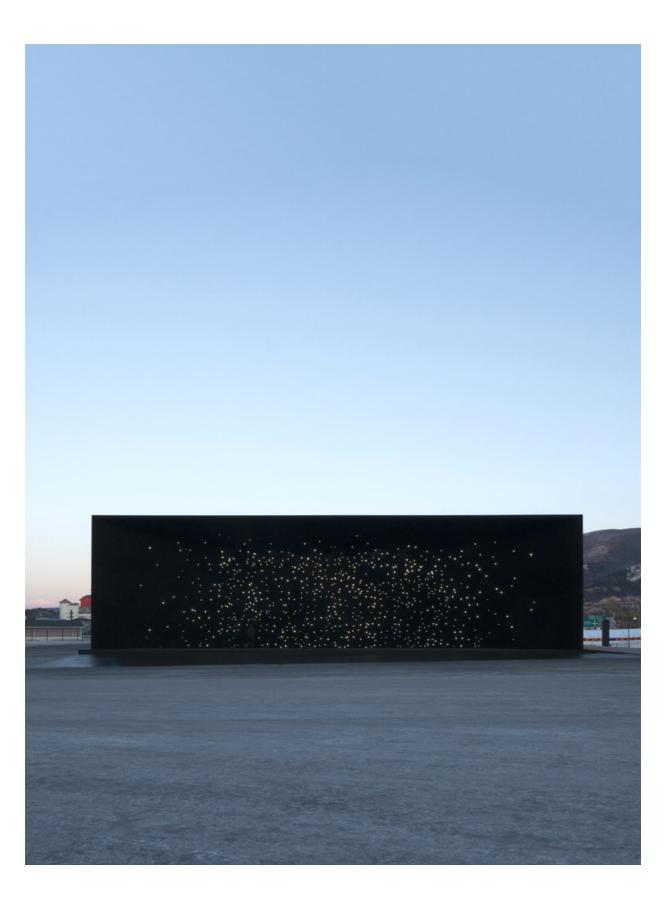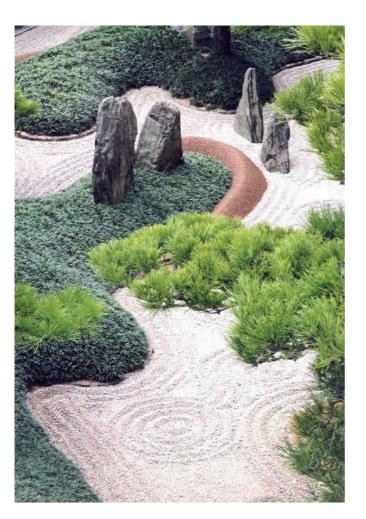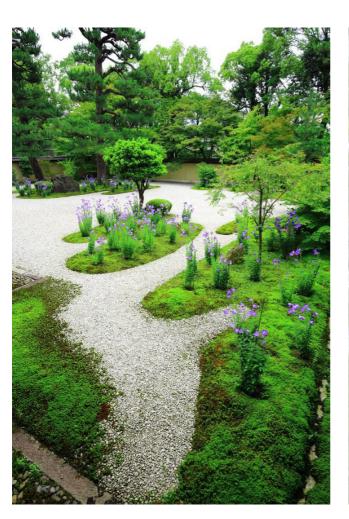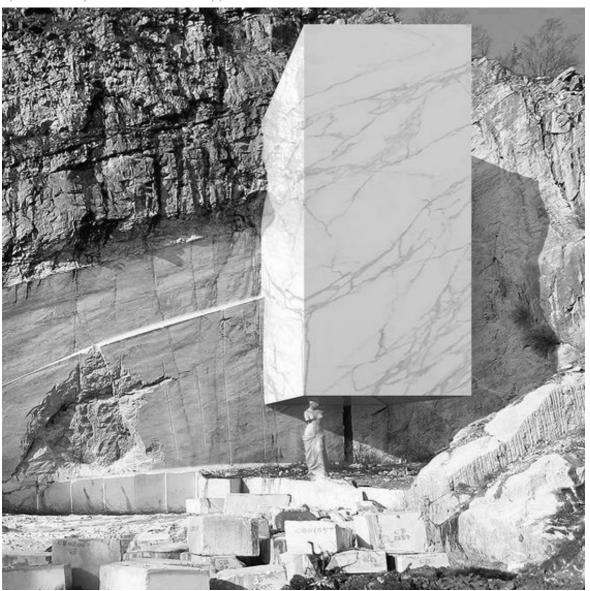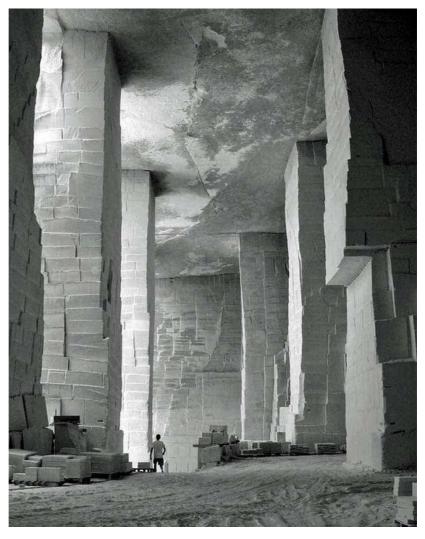
https://www.archdaily.com/521266/hy-fi-the-organic-mushroom-brick-tower-opens-at-moma-s-ps1-courtyard

frank van klingeren meerpaal

https://www.archined.nl/2013/06/frank-van-klingeren-en-de-actuele-roep-om-collectiviteit

[Other Refernce]

Event cirularity

A SKETCH OF THE CURRENT SITUATION OF WASTE

DGTL to get completely waste-free, it is necessary to clarify which material flows associated with the festival, where these materials come from and how they are processed after the festival. This can be done using a Material Flow Analysis (substance flow analysis in Dutch).

ENERGY
WATER
CIGARETTE PACKS: 13,500 PACKS [1]
SHIIPPING CONTAINERS: 186 [2]

SANITATION: 260 [3]
Dixie toilets: 240 toilets [3]
Portable urinals 50 urinals [3]

ITEMS FROM VISITORS: 841 KG [4]

FOOD STANDS: 12.414 KG [5]
Food: 10.127 kg [5]
* Others: 1.642 kg [5]
Paper: 465 kg [5]
Plastic: 180 kg [5]

ELECTRONICS: 44.820 KG [5]
Lights and lazors: 25.141 kg [5]
Speakers: 19.679 kg [5]

COURSES: 55.559 KG [5]
Aluminum: 49.311 kg [5]
Rubber / plastics: 6,248 kg [5]

DECORATION: 73.920 KG [6]
Wood: 46.200 kg [6]
Plastics: 18.480 kg [6]
Steel: 9,240 kg [6]

BACKSTAGE & BARS: 94.516 KG [7]
Drinks: 90,000 kg [7]
Paper: 2,215 kg [7]
Others: 841 kg [7]
Glass: 770 kg [7]
PMD: 690 kg [7]

TENTS: 110,000 KG [8]
Aluminum: 60,000 kg [8]
Steel: 40,000 kg [8]
PVC: 10,000 kg [8]

INFRASTRUCTURE & FURNITURE: 139.292 KG [9]
Steel: 135.932 kg [9]
Bridge: 60.000 kg [9]
Fences: 45.154 kg [9]
Large romney: 14.076 kg [9]
Small Romneys: 8,736 kg [9]
Lockers: 7006 kg [9]
Standing tables: 720 kg [9]
Bins: 600 kg [9]
Wood: 3,876 kg [9]
Tables: 3,360 kg [9]
Cable reel: 516 kg [9]

VIP

DGTL

6

https://www.metabolic.nl/publications/welcome-circular-village/

EMISSIONS

WASTEWATER CO

CIGARETTE BUTTS: 255 000 BUTTS [1]

SHIIPPING CONTAINERS: 186 [2]

INFRASTRUCTURE & FURNITURE: 139.292 KG
Wood: 3,876 kg
Tables: 3,360 kg [6]
Cable reel: 516 kg [6]
Steel: 135.932 kg
Bins: 600 kg [10]
Standing tables: 720 kg [11]
Lockers: 7,006 kg [12]
Small Romneys: 8,736 kg [13]
Large romney: 14.076 kg [13]

Fences: 45.154 kg [14]

Bridge: 60.000 kg [4]

TENTS: 110,000 KG [16]

Aluminum: 60,000 kg [16]

Steel: 40,000 kg [16]

PVC: 10,000 kg [16]

COURSES: 55.559 KG [17]

Aluminum: 49.311 kg [17]

Rubber / plastics: 6,248 kg [17]

ELECTRONICS: 44.820 KG [18]

Lights and lazors: 25.141 kg [18]

Speakers: 19.679 kg [18]

DECORATION & CONSTRUCTION WASTE: 9.100 KG [19]

Wood: 4,600 kg [19]
Plastics: 1,800 kg [19]
Steel: 900 kg [19]
Coarse company waste: 900 kg [19]
Others (cables and concrete): 900 kg [19]

WASTE FROM VISITORS: 3,200 KG [20]

Paper: 1,967 kg [20]
Food: 1,031 kg [20]
Plastic: 140 kg [20]
Metal: 42 kg [20]
Residual: 20 kg [20]

BACKSTAGE & BARS: 4.140 KG [26]

Paper / cardboard: 2,680 kg [20]
Glass: 770 kg [20]
PMD: 690 kg [20]
Mixed: 260 kg [20]

FOOD STANDS: 2.539 KG [5]

Residual: 1,642 kg [5]
Food: 252 kg [5]
Paper: 217 kg [5]
Plastics: 169 kg [5]

HUMAN WASTE: 113.400 KG [3]

Urine: 50 m³ [3]
Faeces: 48 m³ [3]

DOWNCYCLED reused

RECYCLED

Incinerated reused /

RECYCLED reused /

The complete source list of the Material Flow Analysis can be found in the colophon on page 13

* Part of retail unsorted waste stream flowing to operations

——————— Less than 1000kg Not included in the scope of this

— — — research Not in same unit

• • • • •

7

The MFA is visualized in a Sankey diagram, which can be read from left (input) to the right (output), and the relative size of the material flows in mutually holding position; herein, certain material flows so visibly larger than others. For DGTL is the case with steel, largely because of the characteristic 186 containers that are scattered in abundance on the property. In order to be able to show flows of other materials, clearer, and since the sea containers to be completely re-used, it was decided not to take the containers in the Sankey diagram.

ASN WORLD PRIZE

During DGTL Amsterdam we launched the first pilot version of the Eco Coin. The world's first, sustainable currency, designed to balance economy and ecology. Whilst the ECO coin project is still in it's infancy, the potential for evolving into a global cryptocurrency-system has become apparent. After a second test at Welcome to the Village festival and multiple showcases, the Eco Coin has been selected for the ASN Bank's world prize. This prize is meant to stimulate projects, products and services which have the potential to disrupt and create sustainable alternatives. The next phase of the project entails a long-term test to validate the behavioural modification aspects of the new currency's reward mechanism.

This is the most visible and grating form of environmental destruction associated with festivals. Less visible is the fact that waste accounts for about 35 percent of a festival's on-site carbon footprint. But anywhere from 80 to 90 percent of festival attendees say they would separate their waste if facilities were provided. Some festivals trade on that urge by designating themselves a Leave No Trace (Burning Man) or Leave a Positive Trace (Gratitude Migration) event, asking that attendees not litter and also pick up other litter they come across during the festival. This requires a strong culture, a lot of education, and a healthy dose of peer pressure from festival veterans on newbies to do their part.

Other festivals assemble teams of volunteers to help them hit high targets of diversion. Nelsonville Music Festival in Ohio has consistently hit diversion rates above 94 percent over the past few years, saving 6,500 pounds of waste from going to the landfill last year. Clean Vibes, a company that helps music festivals manage waste, helps large festivals like Governor's Ball and Bonnaroo divert waste at rates up to 88 percent. Glastonbury Festival composts between 150 to 200 U.K. tonnes of food waste each festival — the majority of it is biodegradable packaging. Bestival goes further, providing 100 composting toilets on festival grounds.

At some festivals, money – in the form of bottles and can – can be found underfoot. Festivals like Shambala, Coachella, Reading, Leeds, and Bestival are gamifying the waste game by charging deposits for cups and bottles. Collect enough discarded empties and bring them back, and you could get some merch or a fresh beer.

Tents are a particular problem for camping festivals. Attendees buy cheap ones and discard them when they break or get muddy. Leeds Festival and Bestival both invite charities to salvage usable camping gear after the festival is over.

http://www.mindbodygreen.com/0-26179/can-a-music-festival-be-100-percent-sustainable-7-creative-ways-festivals-are-getting-close.html

Several Dutch festivals, including DGTL and Welcome to the Village, have made big strides by eliminating single-use cups and replacing them with their hard cup counterpart. These offer less plastic waste, a cleaner festival terrein, and most importantly, they keep your beer colder longer. To complement the sustainability wins for beverages, festivals have looked to food and some have implemented mandatory rules on caterers to only serve their food with biodegradable utensils and food containers. Besides increasing costs for caterers, biodegradable materials might not be as sustainable as they seem. In fact, most end up in the incinerator, regardless of their potential. And even if they are collected separately and then used for the production of biogas, this use is not the most circular "use" of this nutrient-rich raw material. The best, and most truly circular option, is to return these nutrients into the biological cycle by composting them and returning them to the soil. To do that, efficient collection must be implemented.

Festivals have become synonymous with summer, and the season is well and truly underway. More than 1,300 festivals will take place in the Netherlands this year, of which more than 1,000 are music festivals. Amsterdam alone hosts over 300 festivals. But all this fun also means a lot of waste is produced. Following our partnership with DGTL – an electronic music festival in Amsterdam – this is what we've learned about how festivals can move to becoming truly circular.

With music ranging from techno to classic to pop, there really is a festival for everyone in the Netherlands. But where music goes, infrastructure must follow. It is necessary to provide festival attendees with proper facilities; they require energy, sanitation, catering, water, and waste management. In relation to waste, an average festival goer in the Netherlands generates up to 2,3 kg of waste per day. This is about twice as much waste as an average person generates in their normal daily activities. Considering the number, size, and length of festivals, these numbers are perhaps not that surprising.

Measures to prevent and reduce waste at some festivals have already been implemented. For example, in 2015, DGTL launched the refundable hard cup system to replace disposable plastic cups. For these cups, a small deposit is required, which is returned upon return of the cup at collection points. The cup refunds can even be deposited into your bank account. Post-festival, all dirty cups are returned to the supplier where they are industrially cleaned and inspected. The hard cups keep drinks colder than traditional plastic, they can be reused up to 100 times, and the return system keeps the festival grounds tidier.

Some festivals are setting strict requirements on caterers as well, by permitting only biodegradable cutlery, plates and napkins. But while hard cups and biodegradable tableware may give festival goers the feeling the festival is working on sustainability, they need to be paired with compelling instructions and engagement. In the case of biodegradable tableware, correct separation schemes should be in place. Otherwise, the biodegradable materials will end up in unsorted wastes, where it will not properly decompose and its value will be lost.

Tent waste is another problem facing multi-day festivals with overnight camping. One study estimated one in every four people will leave their tent behind at the end of a festival. Annually, this comes to 25,000 orphaned tents. Solar Festival has partially combated this problem by allowing beachcombers to pick up valuable tents and other supplies by the truckload after the festival. Without large-scale tent recycling facilities available, local reuse has stepped in. Another option is to avoid the use of typical plastic-fabric tents and use a KarTent instead. Dutch-designed KarTents are lightweight cardboard tents which can be reused for up to 2.5 months before being fully recycled, providing a more sustainable alternative for happy campers.

https://kartent.com/info/
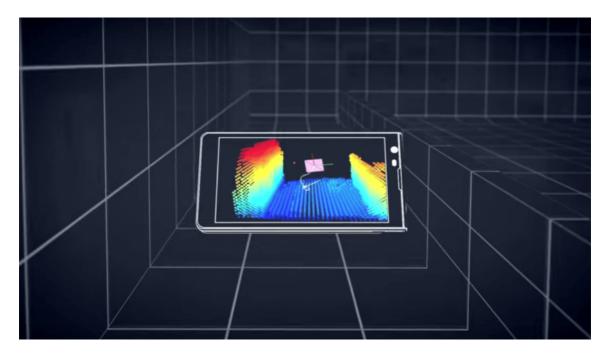
The KarTent is designed in a circular fashion. The cardboard from KarTent is used in several applications, such as boxes in the logistics industry, or festivalgadgets for you to enjoy. In the end of it's life, the KarTent can be fully recycled.

After the festival, the tent will be recycled. This means that it is brought to the recycling factory.

the organization of Welcome to the Village (WTTV) with Netherlands
Clean, Green Events and the Ministry of Infrastructure and the
Environment set itself the goal to become the focus one way to reduce
waste, and on the other hand, for to ensure that the waste that is created,
will be well separated, and, where possible, recycled. This initiative, called
"Green Deal Waste Free Festivals" (or rather resource-rich festivals),
besides WTTV involved nine other major festivals. The Green Deal looks
together with industry and experts to active and effective solutions to
prevent waste or to collect waste in such a manner and process that
produces useful raw materials again. For several pilots are performed for
three years with leaders in the festival world including WTTV, and the best

https://www.metabolic.nl/publications/welcome-circular-village/

[Other Refernce]

New technology

Project Tango technology gives a mobile device the ability to navigate the physical world similar to how we do as humans. Project Tango brings a new kind of spatial perception to the Android device platform by adding advanced computer vision, image processing, and special vision sensors.

Tango-enabled devices (smartphones, tablets) are used to capture the dimensions of physical space to create 3-D representations of the real world. There are Tango tablets and smartphones for developers. Tango's technology can be used to create imagery and layers on top of real-world indoor spaces. In addition, developers can use Tango to create Virtual Reality experiences based on real-world objects and locations. There are already a wide range of partners and apps that have been developed using Tango technology.

https://searchengineland.com/google-showcase-project-tango-indoor-mapping-vrar-platform-google-io-249629

GOOGLE'S CLEVER NEW AI-powered camera is designed to capture stellar 7-second snippets of family shenanigans. Google Clips is a camera, but it only has some of those parts. There's no display. There's a shutter button, but it's completely optional to use. Instead, it takes pictures for you, using machine learning to recognize and learn faces and look for interesting moments to record.

UNDERSTANDING GENERATION ALPHA

A new tribe has arrived – and it could spell the end of an era in marketing
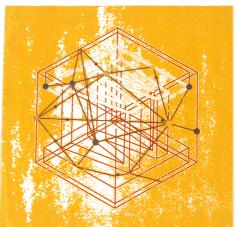
We've had Generation X, Millennials, Generation Y and Generation Z. Now, there is a new cohort in town. Those born from 2010 onwards – branded Generation Alpha by social researcher Mark McCrindle – are the latest, and they all have something in common: they will all be interacting within an unprecedented environment of digital technologies as they grow up. And this environment will change at speeds that we have yet to experience.

New research by WIRED Consulting and Hotwire suggests that the Alpha brain is likely to be even more specialised than previous generations. Digital technologies have moved us away from the operational generalists we used to be and drawn our focus towards an increasingly narrow set of activities and problems. Professor Michael Merzenich, one of the pioneering scientists behind neuroplasticity, suspects that this generation could even herald "a class of super-specialists".

Whether this is a positive or negative development is a contentious issue. Some suggest that younger generations will have improved hand-eye co-ordination, visual attentional processing and higher IQs; others, however, say that dependence on technology – and screens in particular – can ruin attention spans and cause anxiety and depression.

Yet this might change as the next wave of digital technologies begin to decouple from the screen. The introduction of conversational and gestural interfaces has begun and is likely to accelerate. Generation Alpha may indeed be the last group to be anchored to the screen. Alpha will also be the first generation to form emotional connections with AI toys and devices. Our research explores the growing internet-of-toys industry and reveals how it will introduce an intimacy that product developers will cherish – and data-privacy watchdogs will lament.

It is in communicating with Generation Alpha where implications for organisations arise. They will need to double down on platforms such as video and experiment with forms such as augmented reality. Social-media strategies will need to consider the multiple identities that Generation Alpha create online. And they will be dealing with a demanding audience. As Birk Rawlings, head of US media company AwesomenessTV, told WIRED Consulting: "They want everything and they want it now."

What the Alpha era may introduce more than anything else, however, is the death of broad demographic analysis in marketing. Given the sheer quantity of information that organisations have on Generation Alpha's kids, we are entering an era of personalised and targeted marketing.

Talking 'bout my generation? Maybe not for much longer.

TOM UPCHURCH
–
is director of
WIRED Consulting

This report, produced by WIRED *Consulting and supported by Hotwire, explores the Alpha Generation brain. We've aimed to reveal the unique characteristics of this fledgling demographic, as well as the lessons organisations should bear in mind when communicating with them. If your organisation is interested in exploring the effects that disruptive technology will have on business, society and culture in the future, please contact* WIRED *Consulting directly at consulting@wired.co.uk*

The end of spending-led growth

Millennials are leading the way by consuming experiences, not stuff

-

By **Matthew Taylor**

MATTHEW
TAYLOR

–

is chief executive
of the Royal
Society of Arts

without growth then with a great deal less. The promise of consumer capitalism, that most of us would get better off year-on-year, has been broken for well over a decade.

Isn't this broken promise of rising living standards precisely what is driving the rise of Donald Trump, the victory of Brexit and the popularity of Jeremy Corbyn? Perhaps, but what happens when the populists also fail to deliver? Human beings adapt to reality. We may rise up but equally we may, as the very British slogan has it, "Keep calm and carry on."

The most difficult challenge for the late-materialist era – one which we've hardly even begun to face – is getting the politics, policy and economics right. We need politicians to tell us the truth, shape our expectations and give us hope. We need new forms of living, working, travelling and eating. Late-materialist societies won't generate enough tax revenue for paternalistic national public services so we need social innovation to help communities do more themselves. Technology too is vital. It can liberate us from drudgery, transform human productivity and free us to be creative, or it can ensnare us in new addictions, intrusions and widening inequality.

We could be entering an era of unprecedented human flourishing. Unlike money, possessions or power, I can have more love, friendship, caring and fun without you having less. Beyond populism, young people need a cause that is both realistic and visionary. And 2018 will be the year we understand the huge benefits of late materialism.

THINGS THE MILLENNIALS KILLED

AN EXHIBITION

THE CAR

MOTORBIKES

WORK

HOTEL VACANCY

CEREAL

DIAMONDS

HANDSHAKES

BAR SOAP

BEER

GOLF

FAST FOOD

MARRIAGE

GAMBLING

The promise of consumer capitalism, that most of us would get better off year-on-year, is broken

Wired magazine 2018

IN ONE SENSE, THE RAVE SCENE HAS ALWAYS been encrypted. In its heyday, when news of illicit parties spread by word of mouth, you just needed to know the right people. But new technologies are adding another layer to this.

Throughout the last year, rumours of a crypto-enabled rave revival have been rife on the dark net and in closely guarded members-only forums, with some referring to these gatherings more publicly as crypto-raves, trustless raves or the "decentralised autonomous rave scene". This underground phenomenon has been driven by creative tech, in the form of the blockchain. Technologist and artist Mat Dryhurst has seen this first hand. "Like most good things, it emerged slowly and organically," he says. "The first time I went to a crypto rave, I got a text message from a friend who was given a few invites, received my own unique keys to enter and was given an invite of my own to share."

The keys he's referring to can take different forms: PGP-signed messages stored on public blockchains; or decentralised tokens distributed by DAOs (decentralised autonomous organisations), with each token representing a single ticket, in line with the recent explosion of ICOs and the tokenisation of everything that has come to the world of cryptocurrencies.

"One needs a number of 'block confirmations' to have passed to ensure access," explains Amnesia Scanner, a Berlin-based collective of designers and musicians who have been anonymously contracted to play at some of these decentralised autonomous raves. "Once you're in, you'll often be given access to a decentralised application that uses a hybrid of proof-of-stake and proof-of-work, that secures the scene," they say. Instead of peer-to-peer, it's friend-to-friend.

The blockchain is secure and anonymous and, by using it, party organisers can keep their identity hidden and automate usual organisational overheads, while ensuring that the event is open only to people that they trust.

"We know of gatherings broadcast on secure networks such as Facebook being [raided] by the police, or worse still, right-wing [factions] who are intent on doxing and harassing [rave]goers," Dryhurst says.

[These] events have undoubtedly been inspired [by growing] worldwide interest in cryptog[raphy] and digital privacy, but they have their [roots] in the concept of the "temporary auton[omous] zone", a term that was coined in an influ[enti]al 1991 book of the same title by anarchist

Rave culture moves on to the blockchain

Crypto-parties planned on decentralised platforms are helping youth culture reclaim its illicit spark

-

By **Hans-Ulrich Obrist** and **Ben Vickers**

HANS-ULRICH OBRIST

–

is artistic director at the Serpentine Galleries, London

BEN VICKERS

–

is chief technology officer at the Serpentine Galleries, London

and arch-hermetist Hakim Bey, and which would go on to influence events such as Burning Man.

Because of their autonomous nature, there's no single type of music or scene represented at these events, although so far it's mostly been dance music such as techno and jungle. "The common element is an emphasis on privacy and community that I think augments whatever music is being presented," Dryhurst says.

The blockchain isn't the only technology that is being experimented with at these events. Electronic duo Amnesia Scanner has witnessed AR and VR apps that employ hypnotic techniques to induce altered states that drug the user. The pair say that there are rumours about a German decentralised autonomous rave scene where participants ingest sleep medication and force themselves to stay awake.

The scene is growing in places such as the San Francisco Bay Area, Moscow and Berlin, but its greatest potential could be outside big cities, at the periphery of electronic music culture. The technology in use here could also unlock possibilities in music and wider culture more generally. "The magic of blockchains and smart contracts for me is the ability to encode ideology into the things that you create," says Dryhurst. "This could be groundbreaking for music as a medium. Rather than being limited to implying ideology through stylistic gestures and poetry, we are now able to execute ideology."

Establishing automated systems of trust through the blockchain could support an explosion in ad-hoc gatherings – not just raves, but theatre, live-action role-playing games, parties and protest movements, all equipped to evade oppression and stagnation.

[DATA]

Size	Name	Location	Location Index	Visitors (per day)	Area (km
XS					
XS	playground				
XS					
S					
	rainbow path	sloterdijk train station	sloterdijk		
	ABC Tracking	Velodrome Amsterdam	sloterdijk		
	Art event				
	Art Battle	PLLEK, NDSM	amsterdam		
	Independent music and dance event and more shows				
	BANDS & BITES [2]	de hallen	amsterdam		
	Comedy Café	Comedy Café	amsterdam		
	The VR Cinema presents: ADE X Virtual	The VR Cinema	amsterdam		
	Independent exhibition				
	photo exposite fluidity [3]	de hallen	amsterdam		
	dream city in the smallest gallery [4]	de hallen	amsterdam		
	Dream City showcase innovation and sm	de hallen	amsterdam		
	For Keeps / To keep [6]	NDSM Wharf	amsterdam		
	Small workshops				
	reinventing conversation [8]	de hallen	amsterdam		
	Vinyl Rascals [10]	Felix Meritis – F10 Pano	amsterdam		
	Fields and Frequencies (installation)	Hotel Droog	amsterdam		
	Street Art & Culture-Jamming Tour	Felix Meritis	amsterdam		
	Sport related				
	Body Breakfast	de hallen	amsterdam		
	Tango bootcamp day [14]	de hallen	amsterdam		
S	market				
	Maker market	de hallen	amsterdam		
	book market [16]	de hallen	amsterdam		
	Davy Boy Christmas Market	NeL	amsterdam		
S	Sisterplas Nazomer Festival	Sloterplas	sloterdijk		
S					
M					
	Cell therapy congress [19]	RAI	amsterdam	330 [20]	
	ECI (european congress of immunology) [21]	RAI	amsterdam	750	0.
	Romeo and Juliet [22]	RAI	amsterdam	1,745	
	Asaf and Shadmehr [23]	RAI	amsterdam	1,745	
	Swan Lake [24]	RAI	amsterdam	1,745	

(2)	m2	Duration	Nature	Nature 2	Radius (mm) le 1 to 1000	Openness
5	5800800				1262	
	0				8	
	0				8	
	0				8	
0.001	1800	one off	celebration political	converge	18	
0.008	8800	one off	sport	converge	88	
	0					
	0	1 days/year [1]	Cultural	converge		4
	0					
	0	one off	Cultural Entertainment	converge		4
	0	one off	Cultural Entertainment	converge		4
	0	one off	Cultural Entertainment	converge		4
	0	one off	Cultural Entertainment	converge		3
	0	one off	Cultural	converge		3
	0	one off	Cultural	converge		3
	0	one off [5]	Cultural	converge		4
	0	one off [7]	Cultural	converge		3
	0			converge		
	0	1 day/week [8]	Cultural	converge		3
	0	one off [11]	Cultural	converge		4
	0	one off [12]	Cultural	converge		4
	0	one off [13]	Cultural	converge		4
	0					
	0		Cultural sport	converge		4
	0	one off	Cultural	converge		4
	0				8	
	0	2 days/month [15]	Transaction	converge		3
	0	1 days/year [17]	Transaction	converge		2
	0	1 days/year [18]	Transaction	converge		1
0.02	20800	one day , one off	celebration	converge	88	1
	0				8	
	0				8	
0.004	4800	3 days/year	Business event	converge		6
0.001989	1989	4 days/year	Business event	converge		
0.004	4800	1 days/year	Cultural	converge		4
0.004	4800	1 days/year	Cultural	converge		4
0.004	4800	1 days/year	Cultural	converge		4

Size	Name	Location	Location Index	Visitors (per day)	Area (km
	Chippendales [25]	RAI	amsterdam	1,746	
	Sleeping beauty	RAI	amsterdam	1,746	
	Markiplier show [26]	RAI	amsterdam	1,746	
	Dan and Phil Youtuber show [27]	RAI	amsterdam	1,746	
	Disney on Ice 2017 [28]	RAI	amsterdam	1,746	
	World Christmas Circus	Koninklijk Theater Carré	amsterdam		
	whisky festival	Posthoornkerk	amsterdam		
	Pleinvrees on Tour [31]	Paradiso	amsterdam	1,750 [32]	
	Tango festival	amsterdam	amsterdam		
	Stolen Bier Festival	Radion	amsterdam		
	Taste of Amsterdam	Amstelpark	amsterdam		
	Better health event [37]	RAI	amsterdam		0.
	Partnerships for clinical [38]	RAI	amsterdam		0
	Triathlon amsterdam new west	sloterplas	sloterdijk		
	PVH Amsterdam [38]	RAI	amsterdam		
	DGTL Festival	NDSM-wharf	amsterdam		
	WMWE [41]	RAI	amsterdam	3,000	
	Electric & Hybrid Marine World Expo [42	RAI	amsterdam		0.0
	Intermodal Europe [45]	RAI	amsterdam	2,000 [46]	
	Wind europe conference [47]	RAI	amsterdam	2,666	0
	Building Holland	RAI	amsterdam	5,000 [48]	
	Heltech International [49]	RAI	amsterdam	5,000 [50]	0.01
	Modefabriek	RAI	amsterdam		0.04
	Comic Con Europe	RAI	amsterdam	[55]	
	Nationale Carrièrebeurs	RAI	amsterdam	5,500 [57]	
	KunstRAI [59]	RAI	amsterdam	2,430 [60]	0
	Tattoo, Art and Street Art Convention	RAI	amsterdam		
	EFTTEX 2016 [63]	RAI	amsterdam		
	DripWorld Global	RAI	amsterdam		
	Dutch Bangla EXPO	RAI	amsterdam		
	Wasteland [67]	North Sea Venue	amsterdam	6,600 [68]	
	HISWA boat show [70]	RAI	amsterdam	7,000 [71]	0
	Interclean 2016 [72]	RAI	amsterdam	7,500 [73]	
	Holi Festival of Colours	Stadspodium	amsterdam	8,000 [74]	0.0
	Hoed 2017 [76]	RAI	amsterdam	8,333 [77]	0.
	Jumping amsterdam	RAI	amsterdam		
	MRO Europe	RAI	amsterdam	9,000	0.01
	IBC (International Broadcasting Conven	RAI	amsterdam	9,500 [82]	0
	Masters of LXRY [85]	RAI	amsterdam	10,000	0.
	VT Wonen&Design Beurs [86]	RAI	amsterdam	14,866 [87]	0

(2)	m2	Duration	Nature	Nature 2	Radius (mm) In 1 to 1800	Openess
0.004	4800	1 days/year	Entertainment	converge		4
0.004	4800	1 days/year	Entertainment	converge		4
0.004	4800	1 days/year	Entertainment	converge		4
0.004	4800	1 days/year	Entertainment	converge		4
0.004	4800	1 days/year	Entertainment	converge		4
	0	18 days/year [29]	Cultural	converge		4
	0	2 days/year [30]	Public event	converge		
	0	1 days/year [32]	Celebration dance music festival	converge		4
	0	7 days/year [34]	Cultural	diverge		
	0	1 days/year [35]	Cultural food	converge		3
	0	1 days/year [36]	Cultural food	converge		3
0.001956	1956	2 days/ year	Public event	converge		3
0.00397	3970	2 days/ year	Business event	converge		6
0.8	800800	1 days/ year	sport	converge	505	
0.0126	12600	9 days/ year	Cultural	converge		
0.015	15800	2 days/ year [48]	Celebration dance music festival	converge		
0.008	8800	2 days/year	Business event	converge		6
0.009 [43]	9800	3 days/year [44]	Business event	converge		6
0.0126	12600	3 days/year	Business event	converge		5
0.01046	10460	3 days/year	Business event	converge		6
0.017	17800	3 days/year	Business event	converge		5
0.0126 [51]	12600	3 days/year [52]	Business event	converge		
0.019 [53]	61800	2 days/year [54]	Public event	converge		
	0	2 days/year [56]	Public event	converge		
	0	2 days/year [58]	Public event	converge		
0.01046	10460	5 days/year [61]	Public event	converge		
	0	3 days/year [62]	Public event	converge		
	0	3 days/year [64]	Business event	converge		
0.008	9800	2 days/ year [65]	Business event	converge		
0.009	9800	2 days/ year [66]	Business event	converge		
	0	1 days/year [69]	Celebration dance music festival	converge		4
0.00798	37980	5 days/year	Public event	converge		4
0.075	75800	4 days/year	Business event	converge		5
0.008 [75]	8800	1 days/year	Celebration dance music festival	converge		
0.032815	32815	3 days/year	Public event	converge		4
0.017	17800	4 days/year [78]	Public event	converge		4
0.0126 [79]	12600	3 days/year [80]				6
0.11 [83]	110800	6 days/year [84]	Business event	converge		6
0.001955	1955	5 days/year	Business event	converge		6
0.02 [88]	20800	6 days/year [89]	Public event	converge		

Size	Name	Location	Location index	Visitors (per day)	Area (km
	Amsterdam Food Festival	RAI	amsterdam		0.0
	ISE (Integrated Systems Europe) [82]	RAI	amsterdam	18,250 [83]	0.06
	Fespa Digital [96]	RAI	amsterdam		
	PLMA (Private Label Manufacturers Associatio	RAI	amsterdam	12,000	0
M					
L					
L	Maria Elena	Chile	world	4,600	
L	Afrikaburn	Tankwa Karoo, South Africa	World	8,500	
	Hiswa [99]	RAI	amsterdam		
	Interhalls [101]	RAI	amsterdam	7,500 [102]	0.1
	Pregnancy exhibition [105]	RAI	amsterdam		0.1
	METSTRADE [108]	RAI	amsterdam	7,500 [109]	0.08
	Huishoudbeurs [112]	RAI	amsterdam	25,000 [113]	0.1
	Mystic Garden Festival [115]	sloterpark	sloterdijk		
	Lowland Festival [118]	sloterpark	sloterdijk		
	909 Festival	Amsterdamse Bos.	amsterdam		
	Amsterdam winter parade [121]	RAI	amsterdam		
L	24H Nieuw west	various	sloterdijk		
	ARTWEST - First Fridays Amsterdam	De Hallen Amsterdam	amsterdam		
	Sonic Acts	various	amsterdam		
	Freedom Feast [125]	various	amsterdam		
L					
XL					
XL	Tepito Market	Cuauhtémoc, Mexico City, Mexico	World	35,000	
XL	Amsterdam Dance Event (ADE) [127]	amsterdam	amsterdam	40,000 [128]	
	Wintervillage Stadshart Amstelveen [13(	Wintervillage Stadshart /	amsterdam		
	Amsterdam Light Festival	amsterdam	amsterdam		
XL	Burning Man	Black Rock City, United States	World	65,000	
XL	Amsterdam Gay Pride	amsterdam	amsterdam	500,000 [133]	
XL	King's day	amsterdam	amsterdam	700,000 [134]	
XL	Kumbh Mela	Allahabad , India	World	100,000,000	
XL					

(2)	m2	Duration	Nature	Nature 2	Radius (mm) in 1 to 1800	Openness
0.015 [90]	15000	4 days/year [91]	Public event	converge		
0.05 [94]	40000	4 days/year [95]	Business event	converge		6
	0		Business event	converge		6
0.11 [97]	110000	2 days/year [98]	Business event	converge		6
	0					
	0				8	
	0				8	
7.5	7500000	90 years	extraction	converge	1545	
0.9	900000	5 days/ year April 25– May 1	celebration	converge	535	
0.058	58000	4 days/ year [100]	Business event	converge		6
0.11 [103]	110000	4 days/ year [104]	Business event	converge		
0.11 [106]	110000	5 days/year [107]	Public event	converge		6
0.04 [110]	34000	3 days/year [111]	Business event	converge		
0.11 [114]	110000	9 days/year [115]	Public event	converge		
0.8	800000	1 day/ year [117]	Celebration dance music festival	converge		
	0	1 day/ year [119]	Celebration dance music festival	converge		
	0	1 day/ year [120]	Celebration music festival	converge		
0.11	110000	10 days/ year [122]	celebration	converge		3
	0		Cultural	diverge	8	
	0	2 days/ year [123]	Cultural art	diverge		
	0	3 days/ year [124]	Cultural music festival	diverge		
	0	3 days/ year [126]	Cultural food	diverge		
	0				8	
	0				8	
0.11	110000	everyday except sunday	transaction	converge	187	
	0	5 days/ year [129]	Celebration dance music festival	diverge	8	
	0	6 weeks/ year [131]	Cultural celebration Transaction	converge		
	0	52 days/year [132]	Cultural celebration	diverge		
3.8	3800000	7 days/ year Aug 30 – Septem 5	celebration	converge	1105	
	0	1 day		converge	8	
	0	1 day		converge	8	
19.4	19400000	52 days/ every 12 years	religion	converge	3405	
					8	

[1] 18/2

[2] http://dehallen-amsterdam.nl/agenda/bands-bites-29/

[3] http://dehallen-amsterdam.nl/agenda/foto-exposite-fluidity/

[4] http://dehallen-amsterdam.nl/agenda/droomstad-het-kleinste-galerietje/

[5] 21/10

[6] open air photo exhibition

http://www.ndsm.nl/en/event/jaapscheeren/

[7] 14/12/17- 1/3/18

[8] learn conversational techniques and situations are practiced so that you can engage in conversations with a lot m

http://dehallen-amsterdam.nl/agenda/workshop-reinventing-conversations-het-gesprek-durven-aangaan-9/

[9] every wed

[10] http://www.meoko.net/news/10-obscure-events-you-didn-t-know-were-happening-ade

[11] 22/10

[12] 19/10

[13] 22/10

[14] http://dehallen-amsterdam.nl/agenda/tango-bootcamp-day-2/

[15] 18-19/2
monthly on sat and sun

http://dehallen-amsterdam.nl/gebruikers/the-maker-market/

[16] http://dehallen-amsterdam.nl/agenda/boeken-de-hallen-amsterdam-4/

[17] 18/2

[18] 9/12

[19] Transforming innovative research to prosperous Cell & Gene therapy manufacturing

https://www.rai.nl/en/calendar/29576/

[20] https://lifesciences.knect365.com/celltherapy/

[21] https://www.rai.nl/en/calendar/27120/

[22] Shakespeares classic play interwoven with Chinese mystique, performed by the Suzhou Ballet Theatre. Elegant

https://www.rai.nl/en/calendar/31700/

[23] For the first time: Soltane Galbha in Amsterdam! And Shadmehr legendary singer also in Amsterdam! Aref and

https://www.rai.nl/en/calendar/32090/

are confidence.

, modern and energetic.

Shadmehr together!

[24] The 'Swan Lake', a performance full of romance with fantastic music. The Ballet of the State Opera Tatarstan no

https://www.rai.nl/en/calendar/31303/

[25] Hold on, the only real Chippendales return to the Netherlands in 2017/2018 to give you the best night of your life pleasure of the female audience. Book the ultimate girls night out and discover for yourself why 2 million people wait

https://www.rai.nl/en/calendar/29606/

[26] https://www.rai.nl/en/calendar/31994/

[27] https://www.rai.nl/en/calendar/32760/

[28] https://www.rai.nl/en/calendar/27460/

[29] 31/12-7/1

[30] 19-20/1

[31] Pleinvrees on Tour is a Netherlands-wide music festival that was founded on a passion for all things melodic ho happening on 17 February 2018.

https://www.iamsterdam.com/en/see-and-do/whats-on/festivals/overview-music-festivals/pleinvrees-on-tour

[32] https://en.wikipedia.org/wiki/Paradiso_(Amsterdam)

[33] 24/6

[34] 8/12-1/1

[35] 17/2

[36] 31/5

[37] Better Health Event is the healthiest event in the Netherlands!

https://www.rai.nl/en/calendar/27666/

[38] Partner your way to clinical success

https://www.rai.nl/en/calendar/29330/

[39] https://www.rai.nl/en/calendar/20582/

Dutch fair for art, antiques and design.

[40] 14-15/4

[41] WBWE is the most important wine fair worldwide in terms of business transactions focusing 85% of the global a

https://www.rai.nl/en/calendar/21026/

[42] trade exhibition for the electric
and hybrid propulsion of water
craft

[43] http://www.electricandhybridmarineworldexpo.com/en/show-layout.php

[44] 27-28/6.2018

ve brings a new version.

. Their new show Best. Night. Ever. guarantees an evening full of irresistible temptation with only one goal: the
a Chippendales show every year. It will undoubtedly be The Best Night Ever!

use. Today, the festival has evolved to cover music from across the electronic spectrum. The next edition is

pply for bulk wine

[45] Intermodal Europe is the world-leading exhibition and conference for companies associated with the container a

https://www.rai.nl/en/calendar/28441/

[46] http://www.intermodal-events.com/intermodal-europe-conference-2017

[47] A three-day event connecting the entire wind energy supply chain. Expand your knowledge in all aspects of the

https://www.rai.nl/en/calendar/26011/

[48] https://www.buildingholland.nl/beursinformatie/plattegrond

[49] civil and semi-public helicopter
sector

[50] http://www.helitechinternational.com/en/About-Helitech-International/Attendee-Profile/

[51] https://reuk-floorplanning.renova.com/visualisation/heli18/3/cefx.html#floorplan

[52] https://www.tradefairdates.com/Efttex-M5105/Amsterdam.html

28-30/6 2018

[53] https://www.google.nl/search?q=modefabriek+amsterdam+floor+plan&source=lnms&tbm=isch&sa=X&ved=0ah

[54] 21-22/1 2018

[55] 30000

[56] 21-22/1 2018

[57] 11000

[58] 6-7/4 2018

[59] exhibition for contemporary art

[60] 12000 in total

http://www.kunstrai.nl/

[61] 4-6/4 2018

[62] https://www.tattooexpo.eu/en/amsterdam/2018

2-4/11 2018

[63] European Fishing Tackle Trade
Association (EFTTA)

[64] 2-3/9 2017
http://www.comiccon-europe.com/nl/amsterdam/

[65] 24-25/10 2018

http://tomorrow-the-world.co.uk/exhibitions-events/crop-production-protection/cropworld-global-29-30-october-2014-a

[66] 28-29/9 2019

http://www.theindependentbd.com/printversion/details/47747

nd intermodal industry.

wind energy sector and make connections.

UKDwj4rN6EuIXYAhVTJFAKHezMBeEQ_AUICIgB&biw=1259&bih=678#imgrc=r2sV7_klc9bxdM:

amsterdan-netherlands/

[67] https://www.wasteland.nl/party-info/april-16th-2016/

[68] https://en.wikipedia.org/wiki/Wasteland_(event)

[69] 25/11/2017

[70] https://www.rai.nl/en/calendar/22074/

[71] https://www.hiswarai.nl/exposeren/

[72] https://www.rai.nl/en/calendar/30113/

[73] https://www.intercleanshow.com/en/amsterdam/practical-info/2016-event-impression

[74] http://stadspodiumamsterdam.nl/informatie/verhuur

[75] http://stadspodiumamsterdam.nl/informatie/over-stadspodium

[76] The biggest dog event in The Netherlands.

https://www.rai.nl/en/calendar/21619/

[77] https://hond-event.nl/

[78] 25/1-28/1

[79] http://mroeurope.aviationweek.com/eu18/Public/eventmap.aspx?&shavailable=1&exhlist=1&shadsm0

[80] 16-18/10.2018

http://mroeurope.aviationweek.com/eu18/Public/Enter.aspx

[81] trade exhibition for broadcast
and media technology

[82] 57000 / 6 days

[83] https://show.ibc.org/ibc-exhibition/ibc2017-floorplans

[84] 13-18/9

[85] Masters of LXRY is the fair at which the greatest names in art, interior design, gastronomy, jewellery, watches, f

https://www.rai.nl/en/calendar/21619/

[86] largest and most complete
consumer exhibition for
interior decoration and design

[87] 88000 in 6 days

[88] https://www.vtwonen.nl/wonen-design-beurs/deelnemers/

[89] 2-7/10.2018

[90] http://www.yourlittleblackbook.me/nl/foodfestival-amsterdam-rai/

[91] 26-29/11.2015

https://www.huishoudbeurs.nl/

ravel, boats and cars come together.

[92] trade exhibition for the
professional AV and electronic
systems integration industry

[93] 65000/4 days

[94] https://www.iseurope.org/location-opening-hours/#ticketshop-home

[95] 25/1-28/1

[96] trade exhibition for large format
digital printing

[97] http://www.pimainternational.com/trade-show/venue/general-information

https://www.google.nl/search?biw=1259&bih=678&tbm=isch&sa=1&ei=8T0wWqrKlJD6wAKU1KewCA&q=PLMA+%
28Private+Label+Manufacturers+Association%29+rai+floor+plan&gs_l=psy-ab.3...38934.40836.0.41033.10.10.0.0.0.0.

[98] 29-30/5

http://www.pimainternational.com/trade-show/exhibiting/trade-show-schedule-exhibitors

[99] platform for professionals in the food service industry

https://www.rai.nl/en/calendar/22059/

[100] 8/1-11/1

[101] trade event for infrastructure,
traffic management, smart
mobility, safety and parking

https://www.intertraffic.com/amsterdam/exhibition-info/floorplan-and-pricing/

[102] 30000 in total

[103] https://www.intertraffic.com/amsterdam/exhibitors/floorplan/

[104] 20-23/3 2018

https://www.intertraffic.com/amsterdam/

[105] https://www.rai.nl/en/calendar/27491/

[106] https://www.huishoudbeurs.nl/-/media/websites/huishoudbeurs/documents/hhb2017-plattegrond-nl.ashx

[107] 21/2-25/2

[108] world's largest trade exhibition for maritime equipment, materials and systems

[109] 23500 in total

[110] https://www.metstrade.com/exhibitions/floor-plan/

[111] 13-15/11 2018

https://www.metstrade.com/

[112] largest consumer exhibition in
the Netherlands

%28Private+Label+Manufacturers+Association/%29+rsi=floor+plan&co=PLMA+%
10.60.457.10.10.0...0...1c.1.64.psy-ab..0.0.0...0.Vi.Ke5Qokyegilimgnc=662PtDQur0mMV.

[113] 250000 in total

[114] https://show.ibc.org/ibc-exhibition/ibc2017-floorplans

[115] 17-25/2 2018

[116] https://www.iamsterdam.com/en/see-and-do/whats-on/festivals/overview-music-festivals/mystic-garden-festival

[117] 16/1

[118] https://www.iamsterdam.com/en/see-and-do/whats-on/festivals/overview-music-festivals/loveland-festival

[119] 11/8

[120] 26/5

[121] https://www.rai.nl/en/calendar/30051/

https://www.rai.nl/en/calendar/33071/

[122] 21/12-24/12 + 26/12-31/12

[123] 19-25/11

[124] 23-25/2

[125] https://www.iamsterdam.com/en/see-and-do/whats-on/festivals/overview-culinary-festivals-and-events/freedom

[126] 5/5

[127] https://www.iamsterdam.com/en/see-and-do/whats-on/festivals/overview-music-festivals/amsterdam-dance-ev

[128] 200000/ 5 days

[129] 17-21/10

[130] http://www.wintervillageamstelveen.nl

[131] 29/11 to 7/1

[132] 1/12-21/1

[133] https://www.statista.com/statistics/665349/number-of-visitors-at-the-amsterdam-gay-pride/

[134] http://www.dutchamsterdam.nl/78-kings-day-amsterdam

http://www.dutchamsterdam.nl/2310-amsterdam-says-new-approach-to-queens-day-successful

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
RAI		Event Hall				
		1	15,000	69.50	193.85	7.9-16
		2	4,060	44.65	87.11	10.75
		3	3,920	45.00	89.22	7.4
		4 (Amtrium)	540	1.00	1.00	1
		5	7,435	44.10	164.65	10
		6	1,025	33.90	29.80	5.1
		7	10,460	59.50	184.75	10.4
		8	12,600	71.90	170.75	11.65
		9	2,845	47.00	52.00	4.8
		10	3,970	64.40	64.40	11.65
		11	4,165	64.40	64.40	11.65
		12	9,035	94.40	94.40	11.65
		13 (Elicium ballroom)	1,985			
	Auditorium	Auditorium+balcony	1,500			
		Conference room				
	Congress center	E001	48			
		E002	38			
		Forum	755			
		F001	18			
		F002	90			
		F003	90			
		F004	90			
		F005	90			
		F101	94			
		F102	44			
		G001	51			
		G002	44			
		G101	35			
		G102	125			
		G103	125			
		G104	120			
		G105	120			
		G106	120			
		G107	120			
		G108	45			
		G109	100			
		G110	45			
		G111	45			
		amsterdam suite	70			
		M001	25			
		E101	20			
		E102	239			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
.5	1	2.79	N	10,000	1.5		
5	1	1.95	N	4,000	1.0		
	1	1.98	N	4,000	1.0		
	1	1.00	N	500	1.1		
	1	3.73	N	6,000	1.2		
	1	0.88	N				
	1	3.11	N	8,000	1.3		
5	1	2.37	N	10,000	1.3		
	1	1.11	N				
5	1	1.00	N	4,000	1.0		
5	1	1.00	N	4,000	1.0		
5	1	1.00	N	7,500	1.2		
				2,000	1.0		
				1,750		1750	

Building	Sub-building	Hall	floor surface	media point one per m2	number of
RAI		Event Hall			
		1			
		2			
		3			
		4 (Amtrium)			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13 (Elicium ballroom)			
	Auditorium	Auditorium+balcony			
		Conference room			
	Congress center	E001			
		E002			
		Forum			
		F001			
		F002			
		F003			
		F004			
		F005			
		F101			
		F102			
		G001			
		G002			
		G101			
		G102			
		G103			
		G104			
		G105			
		G106			
		G107			
		G108			
		G109			
		G110			
		G111			
		amsterdam suite			
		M001			
		E101			
		E102			

ifts	dimensions	gate (w x h)	loading zone	loading area (m2)	area ratio loading area/m2	Lift	m2 / lift
			p9	7417	0.24		
			p9				
			p9				
			p9				
			p9				
			p10	6970	0.61		
			p10				
			p5	4501	0.36		
			p4	7042	0.64		
			p4				
			p4				

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
	Amtrium	L101	32			
		L102	31			
		L103	53			
		L104	53			
		Lounge/ Foyer/ Entrance				
	Congress center	Forum Lounge	1,120			
		Park Foyer	1,120			
		Jade lounge	336			
		Onxy lounge	795			
		Auditorium lounge	1,600			
		Upper lounge	1,060			
		Dressing room 1-3	18			
		Artist foyer	88			
		Diamond Lounge	745			
		Europe Foyer1	1,163			
		Europe Foyer2	670			
		Holland Lounge	270			
		Ruby Lounge	424			
		Europe Longe	282			
		First Floor Lounge	205			
	Amtrium	Lounge L1	267			
		Amtriym Foyer	915			
		Amtrium Lounge	600			
	Europe complex	Entrance M	238			
		Entrance R	72			
		Cafe/ Restaurant				
		Grand cafe	480			
		Cafe Amsterdam	245			
		Amtrium restaurant	538			
		Car park				
			28,265			
	Summary					
	Event Hall	total area	78,540			
		average	5,610	53	100	8
		L	15,000			
		M	5,000			
		S	2,500			
	Conference room	total number	74			
		total area	5,753			
		average	78			
	Foyer/lounge	total area	11,988			
		average	599			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
			1,000	28.3		
			3,000			
			61,750			
1	2	N	5,146	1		

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
	Cafe/restaurant	total area	1,263			
		average	421			
	Car park	total capacity	4,000 [1]			
		% of max. visitors	6			
	loading area	total area	25,930			
		loading area/ m2 event	0.39			
HKCEC		Event hall				
		Hall 1(A+B+C+D+E)	19,800	78.00	255.00	10.5
		Theater 1				
		Theater 2				
		Convention Hall (A+B+C)	1,819	32.50	56.50	7.7
		Grand Hall	3,880			27
		Hall 3 (B+C+D+E)	14,982	78.00	192.00	10.5
		Hall 3(F+G)	8,917	72.60	120.00	8.25
		Hall 5(BC)	7,598	78.00	104.00	10.5
		Hall 5(D)	1,185	24.00	47.00	5
		Hall 5(E)	5,070	78.00	65.00	8.25
		Hall 5(F+G)	8,917	72.60	120.00	8.25
		Conference room				
		meeting rooms	45			
		Foyer				
		Theater foyer	457			
		Conventiona Foyer	1,740			
		grand hall foyer	2,094			33
		Car park				
			6,996			
	Summary					
	Event Hall	total area	72,168			
		average	8,019	64	120	11
		L	19,890			
		M	6,500			
		S	3,960			
	Conference room	total number	45			
	Foyer/lounge	total area	4,291			
		average	1,430			
	Freight lifts	total	8	2.40	4.17	2.92
		m2/ lifts	1,115			
	Container lifts	total	2	4.50	16.00	4.5
	service lifts	total	13	2.00	3.00	3.5
		m2/lifts	1,523			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
	1	3.27	Y				26 x 26
			N	637			
			N	336			
	1	1.74	N				
	1	2.46	Y				
	1	1.65	Y				
	1	1.33	N				
	1	1.96	Y				
	1	0.83	Y				
	1	1.65	Y				
				2,086			
	1	2					

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
Messe Basel		Event hall				
	Messe Basel	Hall 1.0 south	3,300			9.5
		Hall 1.0 north	20,000			9
		Hall 1.1	32,000			7
		Hall 1.2	14,500			7.5
		Hall 2.0 [2]	14,000			4
		Hall 2.1	15,000			4
		Hall 2 .2	15,500			4-8
		Hall 3	4,800			5-18
		Hall 3 Gallery	2,300			4-5
		Hall 4.U	4,100	60.00	75.00	5
		Hall 4.0	3,000	60.00	60.00	4.5
		Hall 4.1	4,000	60.00	85.00	3.5
		Hall 5	1,300			4.5
		Conference room				
	Congresss center G/F	Boston 1-3	242			4.5
		Shanghai 1-4	310			4.5
		Kairo 1-2	155			4.5
		Delhi	223			4.5
		Lima	77			4.5
		Darwin	78			4.5
	Congresss center 2/F	Montreal	767			5.8
		SIngapore	581			4
		Sydney	581			4
		Rio	130			2.7
		Nairobi	50			2.5
		Guangzhou	46			2.25
		Hongkong	47			2.25
		Mexico	47			2.25
		Miami	40			2.25
	Congresss center 3/F	San Francisco	1,244			
		Osaka	100			2.8
		Samarkand	95			2.8
		Foyer				
	Messe basel	hall 1 foyer	1,007			
		MCH lounge	170			
		L' Entree	751			3
	Congress center	Foyer 2 floor	2,470			
		Foyer 3 floor	688			3
		Car park				
			1600 (spot) [3]			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
							15.7 x 25.8
							18.4 x 25.8
							9 x 9
							9 x 9
							9 x 9
							7.5 x 14.3
							11.4 x 11.4
							11.4 x 11.5
							11.4 x 11.6
							13.6x 8.25
				358			
				418			
				195			
				218			
				84			
				84			
				600			
				600			
				100			
				40			
				38			
				39			
				40			
				1,450			
				75			
				75			

Building	Sub-building	Hall	floor surface	media point one per m2	number of l
Messe Basel		Event hall			
	Messe Basel	Hall 1.0 south	mastic asphalt	65	
		Hall 1.0 north	mastic asphalt	55	
		Hall 1.1	mastic asphalt	65	
		Hall 1.2	mastic asphalt	55	
		Hall 2.0 [2]	tarmac/ asphalt	81	
		Hall 2.1	polyurethane	81	
		Hall 2 .2	polyurethane	81	
		Hall 3	asphalt	36	
		Hall 3 Gallery	concrete	110	
		Hall 4.U	artificial stone/ hard concrete	15	
		Hall 4.0	artificial stone/ hard concrete	15	
		Hall 4.1	artificial stone/ hard concrete	15	
		Hall 5	asphalt	110	
		Conference room			
	Congresss center G/F	Boston 1-3			
		Shanghai 1-4			
		Kairo 1-2			
		Delhi			
		Lima			
		Darwin			
	Congresss center 2/F	Montreal			
		SIngapore			
		Sydney			
		Rio			
		Nairobi			
		Guangzhou			
		Hongkong			
		Mexico			
		Miami			
	Congresss center 3/F	San Francisco			
		Osaka			
		Samarkand			
		Foyer			
	Messe basel	hall 1 foyer			
		MCH lounge			
		L' Entree			
	Congress center	Foyer 2 floor			
		Foyer 3 floor			
		Car park			

ifts	dimensions	gate (w x h)	loading zone	loading area (m2)	area ratio loading area/m2	Lift	m2 / lift
12	5.35-6.85 x 2.55 x 3	5.5 x 4.5				12	1942
12		4.5x 7				12	
12						12	2667
12						12	1208
11	4-4.75 x 1.9x 3.16	3.66 x 4.49				11	1273
11	2.65 x 2.19 x 3.16					11	1364
11						11	1409
11						2	2400
2	4.5 x 2.4x 2.5	5 x 4.9				2	1150
5	6.5 x 2.45 x 3.2	3.5 x 4.1				5	820
						5	600
						5	800

Building	Sub-building	Hall	toilets (M)	toilets (F)
Messe Basel		Event hall		
	Messe Basel	Hall 1.0 south	39	
		Hall 1.0 north		
		Hall 1.1		
		Hall 1.2		
		Hall 2.0 [2]	36	
		Hall 2.1		
		Hall 2 .2		
		Hall 3	9	
		Hall 3 Gallery		
		Hall 4.U	3	
		Hall 4.0		
		Hall 4.1		
		Hall 5		
		Conference room		
	Congresss center G/F	Boston 1-3		
		Shanghai 1-4		
		Kairo 1-2		
		Delhi		
		Lima		
		Darwin		
	Congresss center 2/F	Montreal		
		SIngapore		
		Sydney		
		Rio		
		Nairobi		
		Guangzhou		
		Hongkong		
		Mexico		
		Miami		
	Congresss center 3/F	San Francisco		
		Osaka		
		Samarkand		
		Foyer		
	Messe basel	hall 1 foyer		
		MCH lounge		
		L' Entree		
	Congress center	Foyer 2 floor		
		Foyer 3 floor		
		Car park		

	urinals	disabled	avg m2/ toilets (F+M)	M toilets : urinals	disabled / zone
94	114	16	525	3	4
48	72	6	530	2	2
10	13	2	374	1.4	1
6	12	1	1233	4	0.3
		avg	665	3	1.8

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
	Summary					
	Event Hall	total area	133,800	49,500.00 [4]		
		average	10,292			
		L	32,000			
		M	10,000			
		S	3,000			
	Conference room	total number	18			
		total area	4,813			
		average	267			
	Foyer/lounge	total area	5,086			
		average	1,017			
	Cafe/restaurant	total area				
		average				
	Car park	total capacity				
		% of max. visitors				
	m2/ lift					
		average	1,421			
	Summary	overall				
	m2/lift	average	1,353			
	number of toilets	F:M:Unisex	02:01:01			
		disabled toilet	1.8/ washroom			
		male toilet : urinal	3 : 1			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid

Building	Sub-building	Hall	floor surface	media point one per m2	number of l
	Summary				
	Event Hall	total area			
		average			
		L			
		M			
		S			
	Conference room	total number			
		total area			
		average			
	Foyer/lounge	total area			
		average			
	Cafe/restaurant	total area			
		average			
	Car park	total capacity			
		% of max. visitors			
	m2/ lift	average			
	Summary	overall			
	m2/lift	average			
	number of toilets	F:M:Unisex			
		disabled toilet			
		male toilet : urinal			

ifts	dimensions	gate (w x h)	loading zone	loading area (m2)	area ratio loading area/m2	Lift	m2 / lift

Building	Sub-building	Hall	floor surface	media point one per m2	number of l
RAI		Event Hall			
		1			
		2			
		3			
		4 (Amtrium)			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13 (Elicium ballroom)			
	Auditorium	Auditorium+balcony			
		Conference room			
	Congress center	E001			
		E002			
		Forum			
		F001			
		F002			
		F003			
		F004			
		F005			
		F101			
		F102			
		G001			
		G002			
		G101			
		G102			
		G103			
		G104			
		G105			
		G106			
		G107			
		G108			
		G109			
		G110			
		G111			
		amsterdam suite			
		M001			
		E101			
		E102			

ifts	dimensions	gate (w x h)	loading zone	loading area (m2)	area ratio loading area/m2	Lift	m2 / lift
			p9	7417	0.24		
			p9				
			p9				
			p9				
			p9				
			p10	6970	0.61		
			p10				
			p5	4501	0.36		
			p4	7042	0.64		
			p4				
			p4				

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
	Amtrium	L101	32			
		L102	31			
		L103	53			
		L104	53			
		Lounge/ Foyer/ Entrance				
	Congress center	Forum Lounge	1,120			
		Park Foyer	1,120			
		Jade lounge	336			
		Onxy lounge	795			
		Auditorium lounge	1,600			
		Upper lounge	1,060			
		Dressing room 1-3	18			
		Artist foyer	88			
		Diamond Lounge	745			
		Europe Foyer1	1,163			
		Europe Foyer2	670			
		Holland Lounge	270			
		Ruby Lounge	424			
		Europe Longe	282			
		First Floor Lounge	205			
	Amtrium	Lounge L1	267			
		Amtriym Foyer	915			
		Amtrium Lounge	600			
	Europe complex	Entrance M	238			
		Entrance R	72			
		Cafe/ Restaurant				
		Grand cafe	480			
		Cafe Amsterdam	245			
		Amtrium restaurant	538			
		Car park				
			28,265			
	Summary					
	Event Hall	total area	78,540			
		average	5,610	53	100	8
		L	15,000			
		M	5,000			
		S	2,500			
	Conference room	total number	74			
		total area	5,753			
		average	78			
	Foyer/lounge	total area	11,988			
		average	599			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
				1,000	28.3		
				3,000			
				61,750			
	1	2	N	5,146	1		

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
	Cafe/restaurant	total area	1,263			
		average	421			
	Car park	total capacity	4,000 [1]			
		% of max. visitors	6			
	loading area	total area	25,930			
		loading area/ m2 event	0.39			
HKCEC		Event hall				
		Hall 1(A+B+C+D+E)	19,800	78.00	255.00	10.5
		Theater 1				
		Theater 2				
		Convention Hall (A+B+C)	1,819	32.50	56.50	7.7
		Grand Hall	3,880			27
		Hall 3 (B+C+D+E)	14,982	78.00	192.00	10.5
		Hall 3(F+G)	8,917	72.60	120.00	8.25
		Hall 5(BC)	7,598	78.00	104.00	10.5
		Hall 5(D)	1,185	24.00	47.00	5
		Hall 5(E)	5,070	78.00	65.00	8.25
		Hall 5(F+G)	8,917	72.60	120.00	8.25
		Conference room				
		meeting rooms	45			
		Foyer				
		Theater foyer	457			
		Conventiona Foyer	1,740			
		grand hall foyer	2,094			33
		Car park				
			6,996			
	Summary					
	Event Hall	total area	72,168			
		average	8,019	64	120	11
		L	19,890			
		M	6,500			
		S	3,960			
	Conference room	total number	45			
	Foyer/lounge	total area	4,291			
		average	1,430			
	Freight lifts	total	8	2.40	4.17	2.92
		m2/ lifts	1,115			
	Container lifts	total	2	4.50	16.00	4.5
	service lifts	total	13	2.00	3.00	3.5
		m2/lifts	1,523			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
	1	3.27	Y				26 x 26
			N	637			
			N	336			
	1	1.74	N				
	1	2.46	Y				
	1	1.65	Y				
	1	1.33	N				
	1	1.96	Y				
	1	0.83	Y				
	1	1.65	Y				
				2,086			
	1	2					

Building	Sub-building	Hall	area(m2)	W(m)	L(m)	H(m)
Messe Basel		Event hall				
	Messe Basel	Hall 1.0 south	3,300			9.5
		Hall 1.0 north	20,000			9
		Hall 1.1	32,000			7
		Hall 1.2	14,500			7.5
		Hall 2.0 [2]	14,000			4
		Hall 2.1	15,000			4
		Hall 2 .2	15,500			4-8
		Hall 3	4,800			5-18
		Hall 3 Gallery	2,300			4-5
		Hall 4.U	4,100	60.00	75.00	5
		Hall 4.0	3,000	60.00	60.00	4.5
		Hall 4.1	4,000	60.00	85.00	3.5
		Hall 5	1,300			4.5
		Conference room				
	Congresss center G/F	Boston 1-3	242			4.5
		Shanghai 1-4	310			4.5
		Kairo 1-2	155			4.5
		Delhi	223			4.5
		Lima	77			4.5
		Darwin	78			4.5
	Congresss center 2/F	Montreal	767			5.8
		SIngapore	581			4
		Sydney	581			4
		Rio	130			2.7
		Nairobi	50			2.5
		Guangzhou	46			2.25
		Hongkong	47			2.25
		Mexico	47			2.25
		Miami	40			2.25
	Congresss center 3/F	San Francisco	1,244			
		Osaka	100			2.8
		Samarkand	95			2.8
		Foyer				
	Messe basel	hall 1 foyer	1,007			
		MCH lounge	170			
		L' Entree	751			3
	Congress center	Foyer 2 floor	2,470			
		Foyer 3 floor	688			3
		Car park				
			1600 (spot) [3]			

	Ratio (W)	Ratio (L)	Column	Capacity	m2/ person	seats	pillar grid
							15.7 x 25.8
							18.4 x 25.8
							9 x 9
							9 x 9
							9 x 9
							7.5 x 14.3
							11.4 x 11.4
							11.4 x 11.5
							11.4 x 11.6
							13.6x 8.25
				358			
				418			
				195			
				218			
				84			
				84			
				600			
				600			
				100			
				40			
				38			
				39			
				40			
				1,450			
				75			
				75			

Building	Sub-building	Hall	floor surface	media point one per m2	number of l
Messe Basel		Event hall			
	Messe Basel	Hall 1.0 south	mastic asphalt	65	
		Hall 1.0 north	mastic asphalt	55	
		Hall 1.1	mastic asphalt	65	
		Hall 1.2	mastic asphalt	55	
		Hall 2.0 [2]	tarmac/ asphalt	81	
		Hall 2.1	polyurethane	81	
		Hall 2 .2	polyurethane	81	
		Hall 3	asphalt	36	
		Hall 3 Gallery	concrete	110	
		Hall 4.U	artificial stone/ hard concrete	15	
		Hall 4.0	artificial stone/ hard concrete	15	
		Hall 4.1	artificial stone/ hard concrete	15	
		Hall 5	asphalt	110	
		Conference room			
	Congresss center G/F	Boston 1-3			
		Shanghai 1-4			
		Kairo 1-2			
		Delhi			
		Lima			
		Darwin			
	Congresss center 2/F	Montreal			
		SIngapore			
		Sydney			
		Rio			
		Nairobi			
		Guangzhou			
		Hongkong			
		Mexico			
		Miami			
	Congresss center 3/F	San Francisco			
		Osaka			
		Samarkand			
		Foyer			
	Messe basel	hall 1 foyer			
		MCH lounge			
		L' Entree			
	Congress center	Foyer 2 floor			
		Foyer 3 floor			
		Car park			

ifts	dimensions	gate (w x h)	loading zone	loading area (m2)	area ratio loading area/m2	Lift	m2 / lift
12	5.35-6.85 x 2.55 x 3	5.5 x 4.5				12	1942
12		4.5x 7				12	
12						12	2667
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11	4-4.75 x 1.9x 3.16	3.66 x 4.49				11	1273
11	2.65 x 2.19 x 3.16					11	1364
11						11	1409
11						2	2400
2	4.5 x 2.4x 2.5	5 x 4.9				2	1150
5	6.5 x 2.45 x 3.2	3.5 x 4.1				5	820
						5	600
						5	800

Building	Sub-building	Hall	toilets (M)	toilets (F)
Messe Basel		Event hall		
	Messe Basel	Hall 1.0 south	39	
		Hall 1.0 north		
		Hall 1.1		
		Hall 1.2		
		Hall 2.0 [2]	36	
		Hall 2.1		
		Hall 2 .2		
		Hall 3	9	
		Hall 3 Gallery		
		Hall 4.U	3	
		Hall 4.0		
		Hall 4.1		
		Hall 5		
		Conference room		
	Congresss center G/F	Boston 1-3		
		Shanghai 1-4		
		Kairo 1-2		
		Delhi		
		Lima		
		Darwin		
	Congresss center 2/F	Montreal		
		SIngapore		
		Sydney		
		Rio		
		Nairobi		
		Guangzhou		
		Hongkong		
		Mexico		
		Miami		
	Congresss center 3/F	San Francisco		
		Osaka		
		Samarkand		
		Foyer		
	Messe basel	hall 1 foyer		
		MCH lounge		
		L' Entree		
	Congress center	Foyer 2 floor		
		Foyer 3 floor		
		Car park		

	urinals	disabled	avg m2/ toilets (F+M)	M toilets : urinals	disabled / zone
94	114	16	525	3	4
48	72	6	530	2	2
10	13	2	374	1.4	1
6	12	1	1233	4	0.3
		avg	665	3	1.8