



From making the city to using the city

The infrastructure of everyday life

Dan Hill
Director of Strategic Design, Vinnova, Sweden

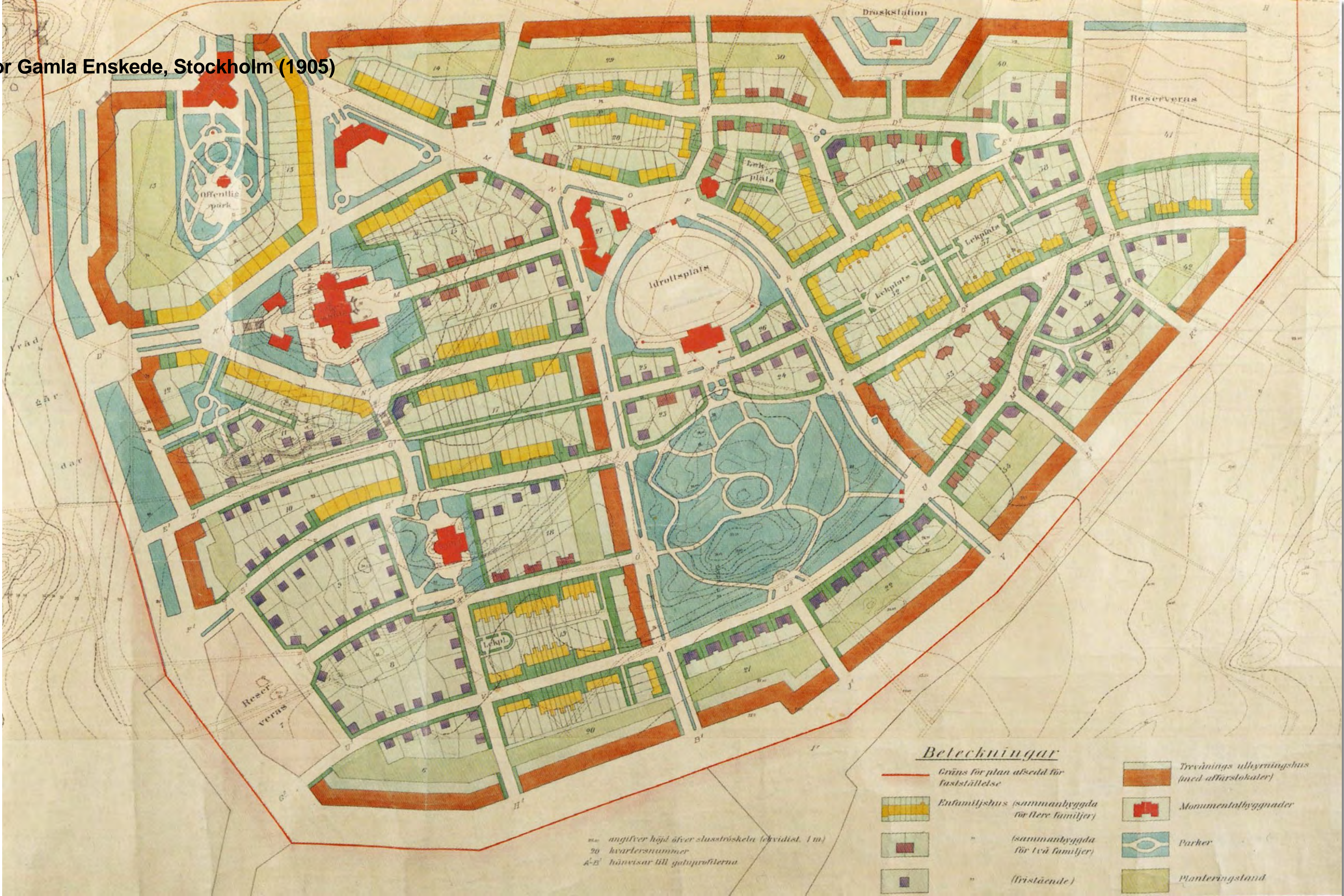
Visiting Professor, UCL Institute for Innovation and Public Purpose
Visiting Professor, Design Academy Eindhoven
Adjunct Professor, RMIT University

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Original plan for Gamla Enskede, Stockholm (1905)





Gamla Enskede, Stockholm (2019)



Gamla Enskede, Stockholm (2019)



Gamla Enskede, Stockholm (2019)



Tio byggnader som definierade 1960-talet (2018)

rad lägenhet. Men enfamiljshuset gjorde det i en välplanerad lägenhet. Men enfamiljshuset fanns hela tiden i bakgrunden, som en del i den aktiva politiken, redo att kliva fram som det aktiva målet för den strävsamma arbetaren.

Men om de första decennierna efter 1930 hade ägnats framför allt åt att bygga flerfamiljshus så var H55 villa- och radhusstadens och bilsamhällets utställning. Sverige var redan 1955 Europas biltätaste land. »Bo med bil« hette ett av småhusen på H55 med inredning i svart, orange och citron. Småhusägarna »behöver bilen för att hålla kontakt med den stad de bor i och utnyttja stadsboendets fördelar«, konstaterade Olle Bengtzon.

Journalisten och debattören Ulla Molin hörde till dem som protesterade mot det svenska folkhemsprojektets vilja att skilja människor från marken i höga hus. Enligt höghusfi

Technology is the answer.
But what was the question?

Cedric Price
1966



We don't make cities to make technology, buildings, infrastructure. We make cities for culture, community, commerce, conviviality, enabled by the infrastructure of everyday life.



Shared and public local mobility services, autonomous and otherwise.



Super-local microgrids, with renewable energy, battery storage and shared ownership.



Cooperative design, build and ownership of dense and diverse neighbourhoods.



Circular, natural materials for buildings, products and infrastructure, with local loops.



Everyday services via active transport, reduced & fossil-free long-range connections.



Privacy-preserving yet public decision-making platforms, with discourse and data.



Tech Envisions the Ultimate Start-Up: An Entire City

Silicon Valley wants to save cities. What could go wrong?



Do transportation network companies decrease or increase congestion?,
Science Advances, May 2019

Smart city tech makes things worse, without inventive, capable, responsible, engaged and participative governance, design, and shared ownership.

Uber and Lyft increased traffic delays in San Francisco by 40 percent



TECHNOLOGY 8 May 2019



Going nowhere

Getty Images

By **Chelsea Whyte**

Uber and Lyft drivers are on strike to demand regulated fares and [livable wages](#), in the lead-up to Uber's initial public offering on the stock exchange on 10 May. Now there is some more bad news for these services: they haven't lived up to claims of reducing

Individual

Service

?

A diagram illustrating a conceptual model. On the left, the word "Individual" is written in bold black font. From this point, two green lines diverge outwards to the right, forming a wedge shape. The word "Service" is written in bold black font between the two lines. At the rightmost point of the wedge, a question mark "?" is written in bold black font.

Oslo Bysykel
2015—



Oslo Byskkel
2015—

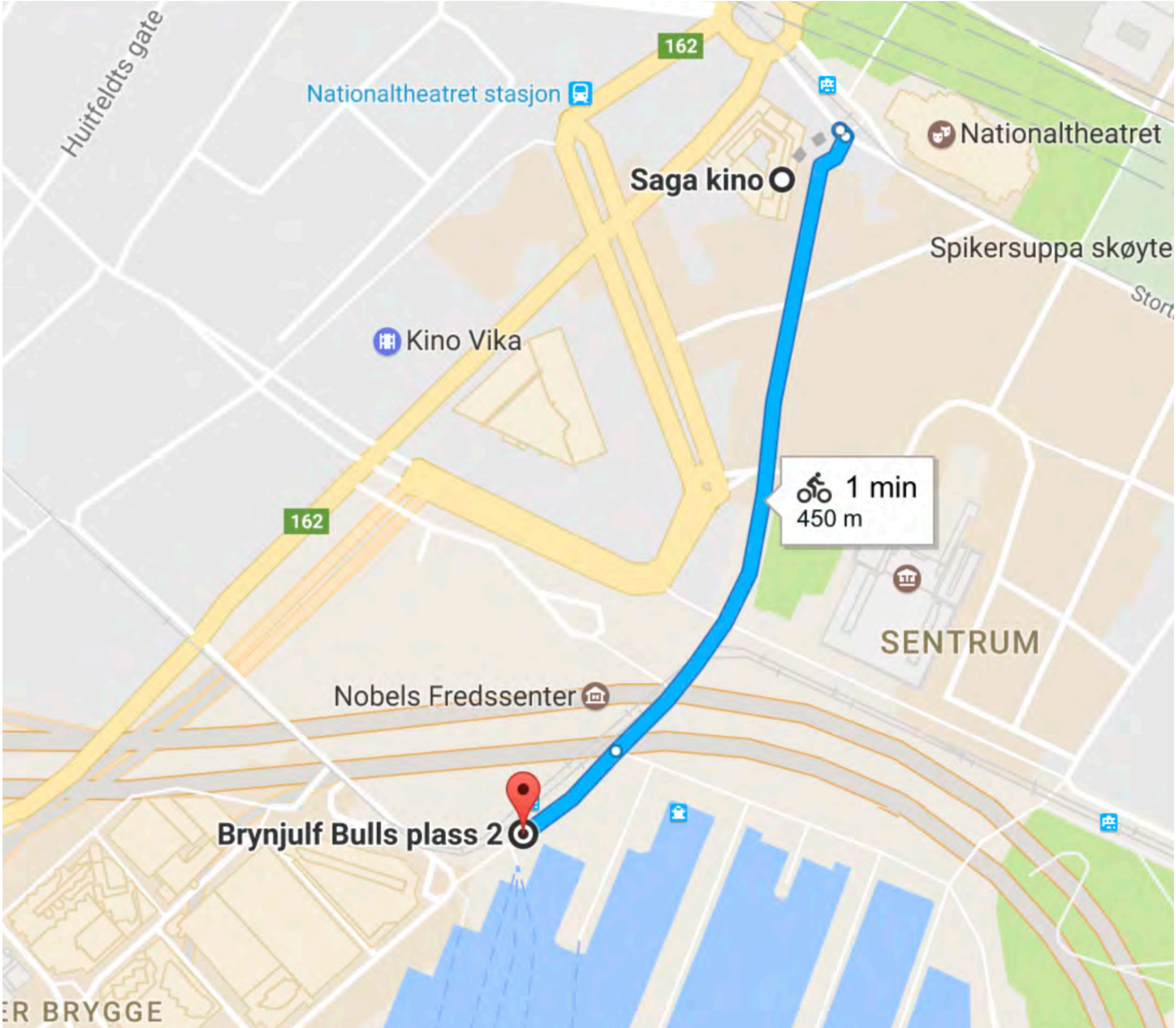
Characterful



Oslo Bysykkel
2015—



Oslo Bysykkel
2015—



Oslo Bysykkel
2015—



marit_elisabeth_j • [Follow](#)
Oslo, Norway

marit_elisabeth_j Min egen bysykkel!
#oslobysykkel #bysykkel #norway #sykkel



40 likes

MAY 21

Add a comment...

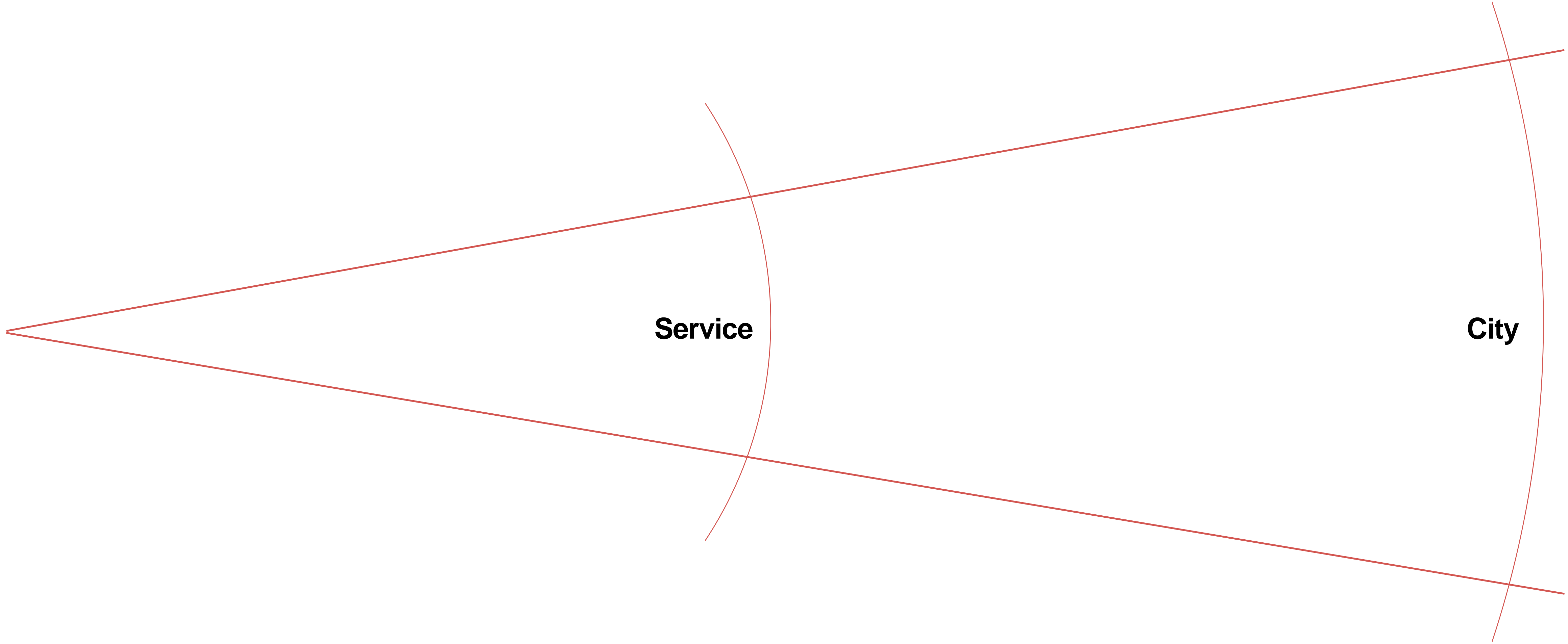




Citizen

Service

City



Always design a thing by considering it in its next larger context—a chair in a room, a room in a house, a house in an environment, an environment in a city plan.

Eliel Saarinen

Strategic design

Shifting lenses

Emphasis on engaging with the systemic impact either side of the question at hand.

You have to anticipate the situation created by AVs in the cities in 2030 and design the rules of the game between now and 2020, in order to explain to the car builders and the service providers the rules of the game. We should announce, before 2020, that in Paris, no private owned AV will be allowed; it will be only mobility as a service; not mobility as ownership. Otherwise, you have the strategy of the car manufacturer.

Jean-Louis Missika, Deputy Mayor of Paris, June 2017

Affordances for shared AV



Getting Around

Sharing an AV

Design questions at scale

Will Anna trade off time against money?

Will she share a small vehicle with strangers?

How do we enable glanceable interactions, without cellphones?

How to make legible machine learning systems in edge networks?

How to coordinate on-demand vehicles on the street?

What is the interplay with public transport networks?



Today



Digital Backbone

WIFI & SENSOR TOTEM

PUBLIC WIFI

Compact Parking

ROTATED & COMPACTED PARKING

CYCLE LANE

ARUP

Mobility Options

LOCAL SHUTTLE

RIDESHARE PICKUP POINT

BIKESHARE HUB

WAITING BENCH

Greenery

TREES

GRASS

PLANTERS

Shared Surface

GREENERY

BIKE RACK

SHARED SURFACE

SEATING

Flexible Program



CAFE

PLAYGROUND



All Iterations

LOCAL SHUTTLE

TREES

WIFI & SENSOR TOTEM

GREENERY

PUBLIC WIFI

RIDESHARE PICKUP POINT

CAFE

BIKE RACK

PLAYGROUND

BIKESHARE HUB

PLANTERS

SHARED SURFACE

SEATING

WAITING BENCH

GRASS

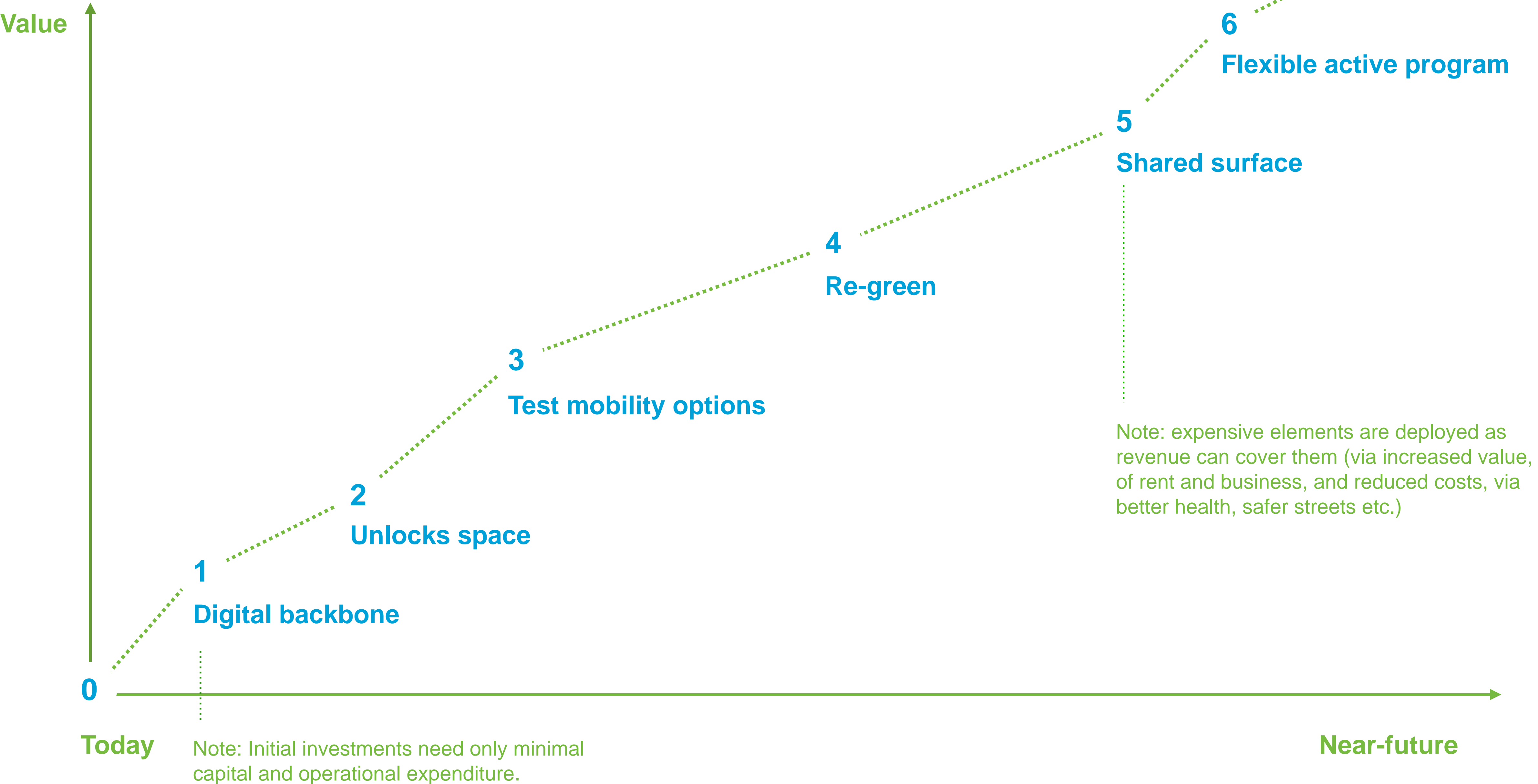
Now



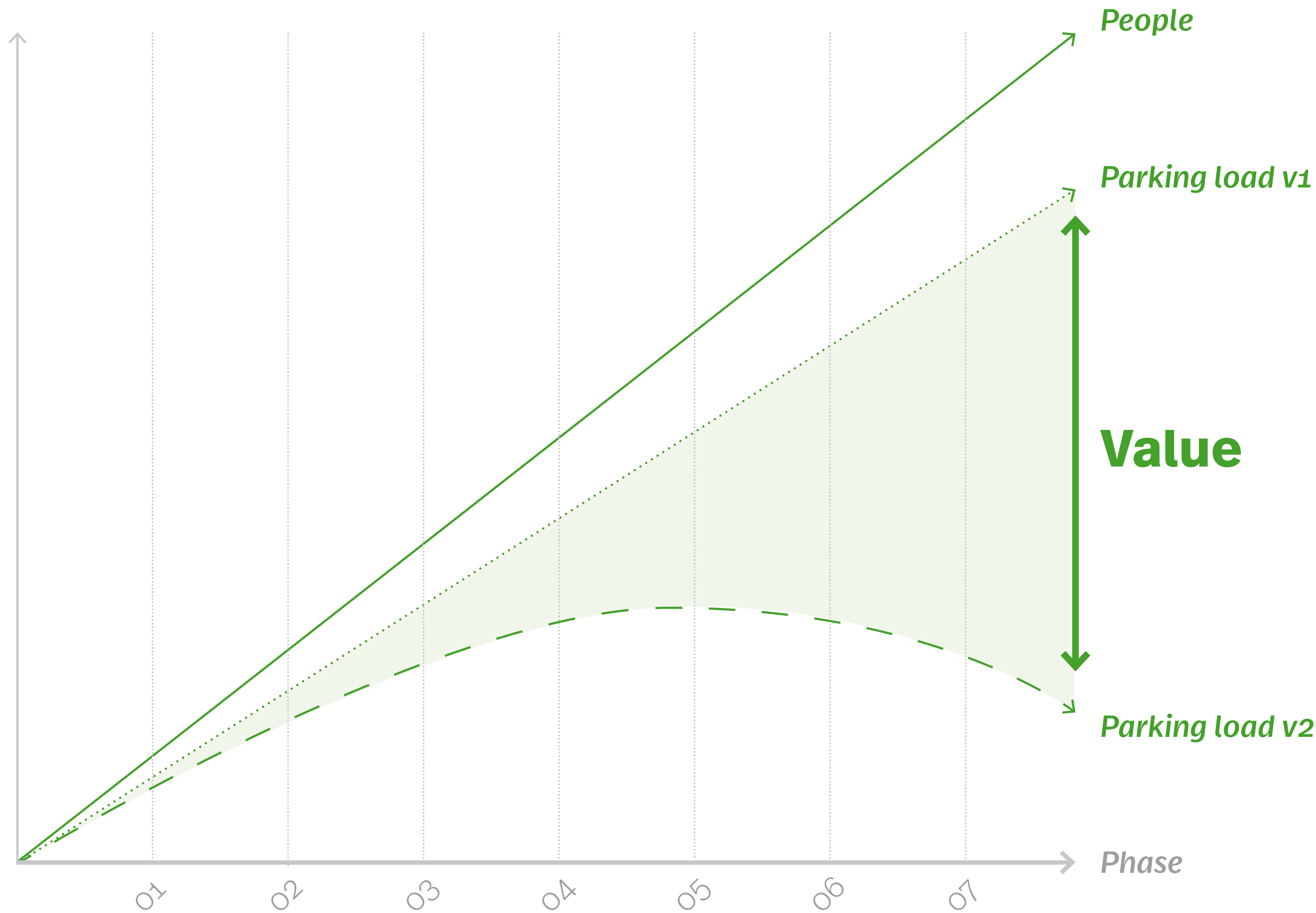
Then



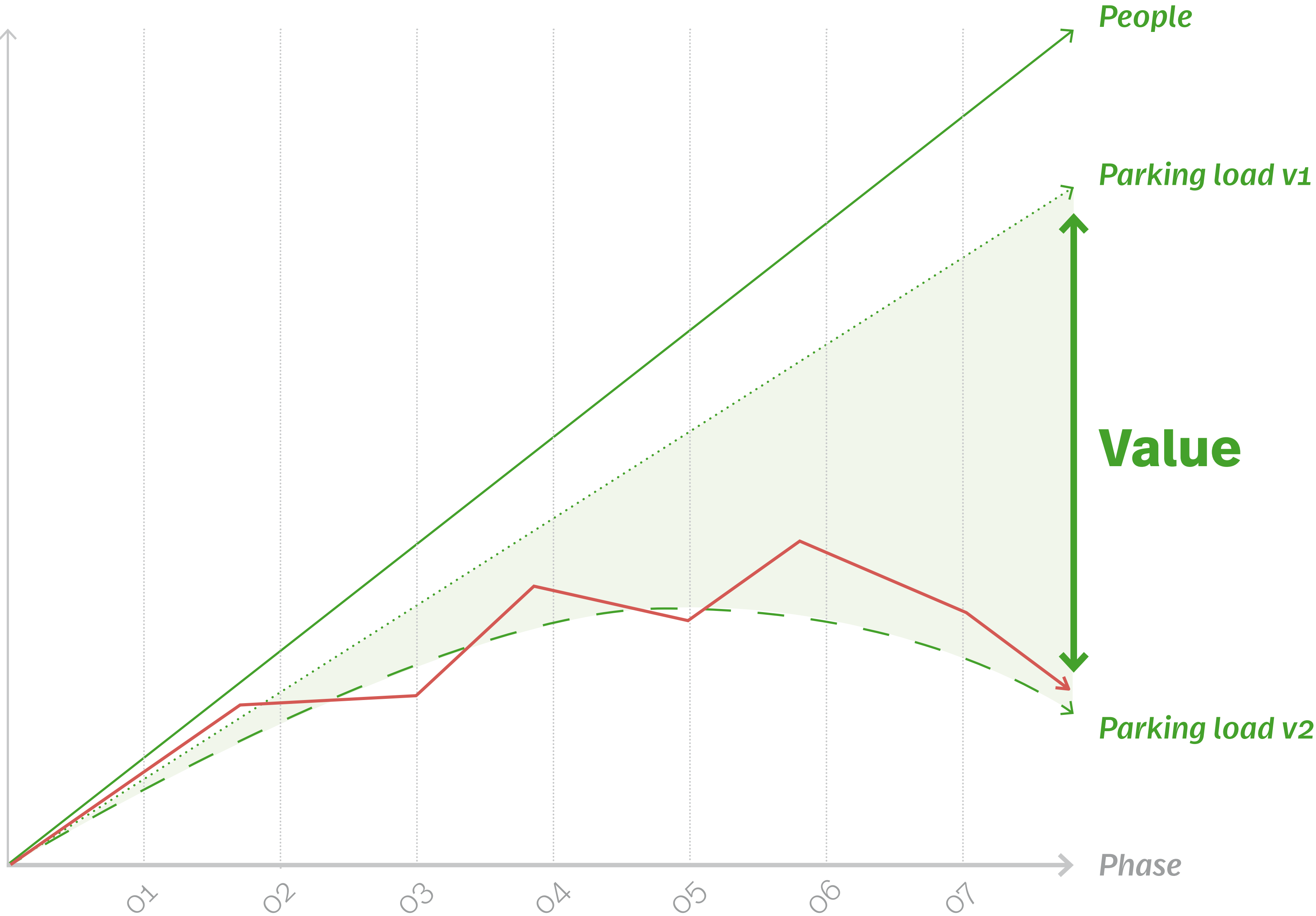
Example strategy for healthy streets demonstrator

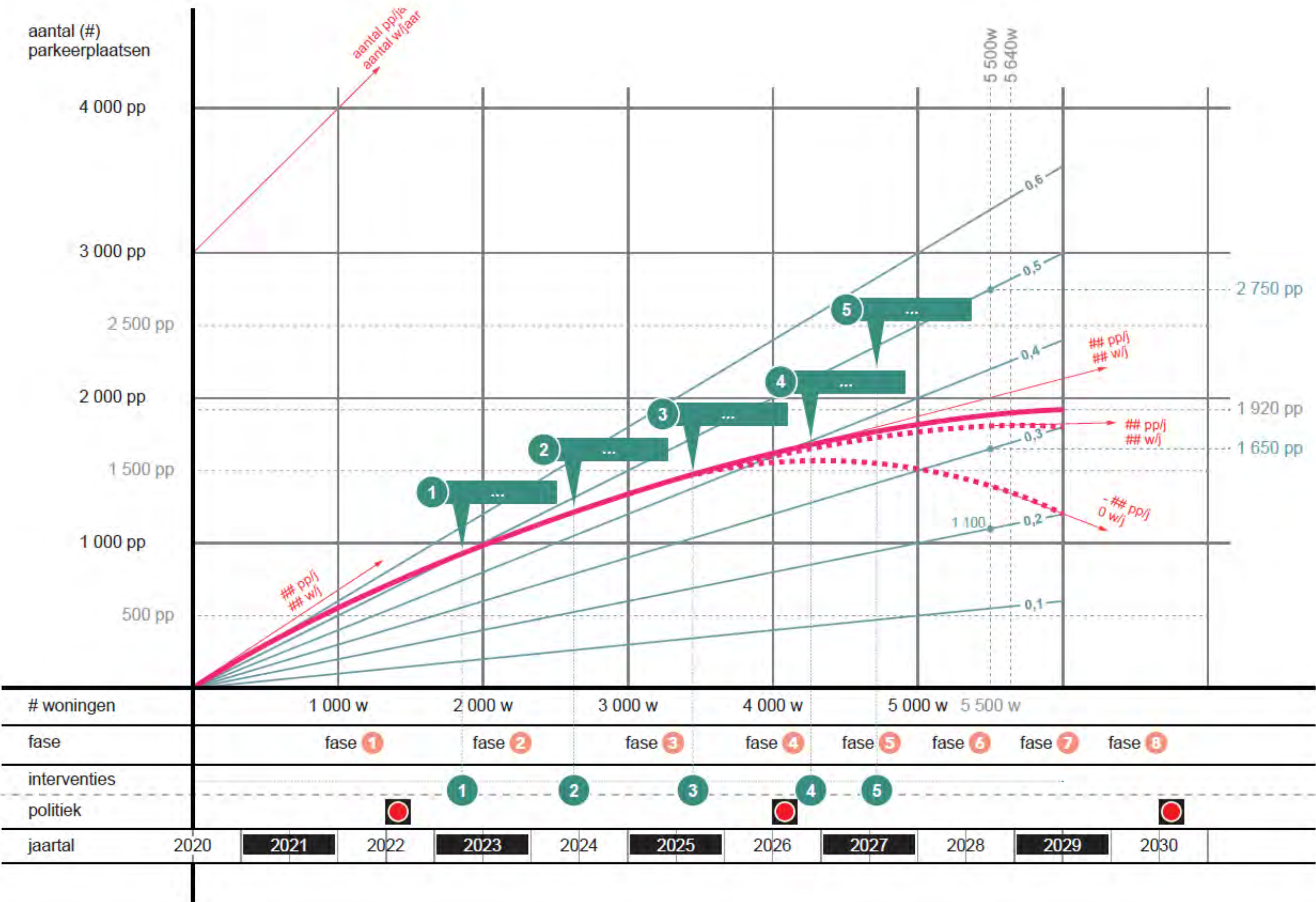


Sloterdijk and Sluisbuurt



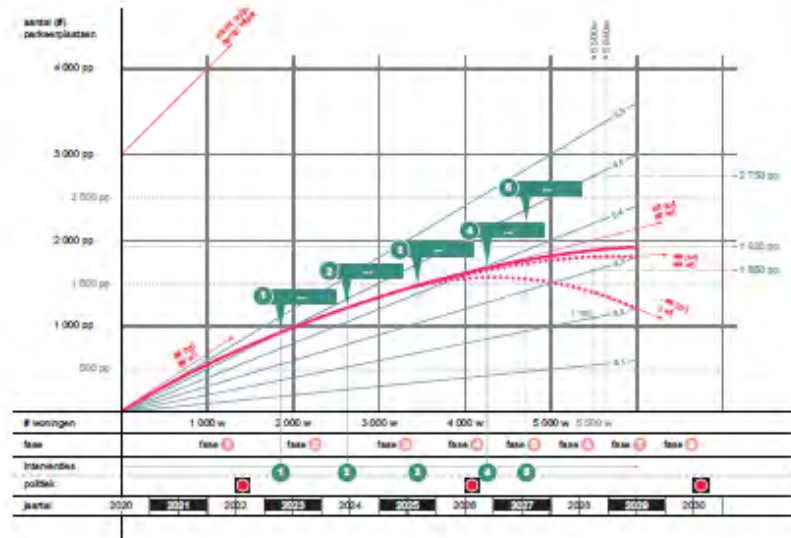
Sloterdijk and Sluisbuurt





INLEIDING

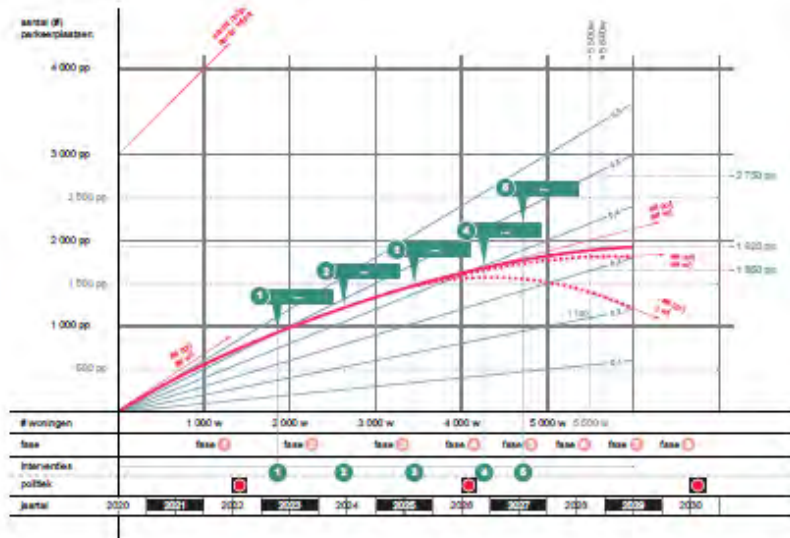
fig. 1 Parkeernormen, een lineair verloop



Ambitie

In de Sluisbuurt is een integrale strategie nodig op het gebied van mobiliteit, specifiek met betrekking tot parkeren. Zeeburgereiland (ZBE), waar Sluisbuurt ca. 5.500 (5,640) woningen en voorzieningen zal huisvesten, is op dit moment voornamelijk bereikbaar met de auto. De IJburglaan en Zuiderzeeweg ontsluiten, en doorkruisen, het eiland waardoor verschillende buurten van elkaar zijn gescheiden. Naast de auto kunnen bezoekers deze buurten bereiken middels OV (tram 26) en met de fiets. In de plannen van Sluisbuurt moeten juist deze modaliteiten domineren over het autogebruik. Deze worden dan ook optimaal gestimuleerd en het autogebruik, en daarmee ook het parkeren, wordt gedemotiveerd. De gemeente kan in de Sluisbuurt over het gehele gebied sturen en de ruimtelijke uitwerking van een parkeerstrategie kan volledig in het karakter van de toekomstige Sluisbuurt aansluiten op een eenduidige ambitie. Die is in essentie een ambitie om zo min mogelijk parkeerplaatsen te realiseren in Sluisbuurt. Het wonen/werken in de Sluisbuurt betekent geen (primaire) afhankelijkheid van de auto. Dit houdt in dat ZBE in grotere mate beter bereikbaar moet worden.

fig. 1 Ambitie en hogere ambitie

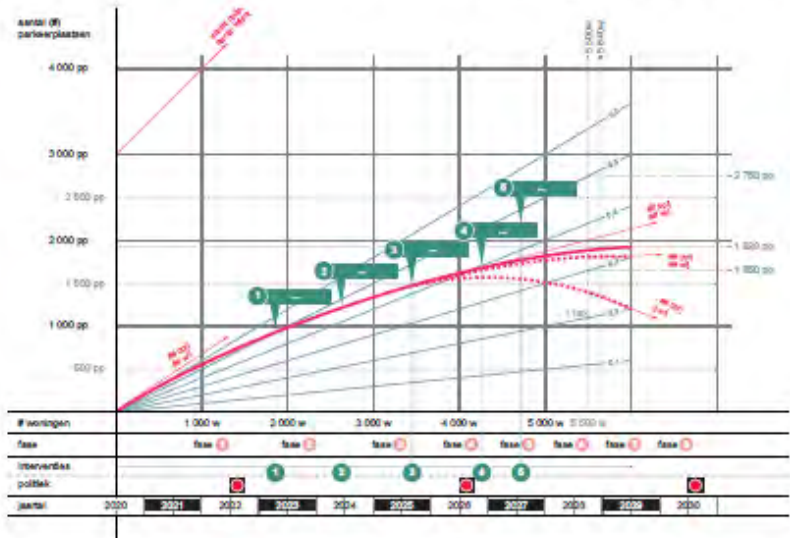


Mobiliteitsmaatregelen en interventies dienen daarom het demotiveren van autogebruik te onderbouwen door o.a. het fietsgebruik te optimaliseren en bijvoorbeeld deelsystemen te faciliteren. De Sluisbuurt wordt een fietsbuurt.

Mobiliteitsmaatregelen als oplossingen

In de parkeerstrategie gaat het enkel over autoparkeren. Echter is dit niet onafhankelijk van fietsgebruik, OV, en met name de benodigde mobiliteitsmaatregelen. Plannen voor de fietsbrug vanuit het Oostelijk Havengebied (OHG) naar het waterbassin is daarvan een voorbeeld. Dit houdt in dat in de ruimtelijke inpassing van de parkeervoorzieningen een hogere prioriteit, en daarmee ruimtelijke reservering, uitgaat naar mobiliteitsmaatregelen. Mede daarom is de fasering in alle stadia van de parkeerstrategie een belangrijk referentiepunt. Een ander voorbeeld zijn MaaS (Mobility as a Service) projecten. De (nog) onbekende impact van deze ontwikkelingen zijn net als de fietsbrug oplossingen voor het verkeer, bereikbaarheid en mobiliteit van de Sluisbuurt en IJburg/de Oostflank. Voor deze oplossingen wordt binnen de clusters, in

fig. 1 Mobiliteitsinterventies/maatregelen t.b.v. ambitie

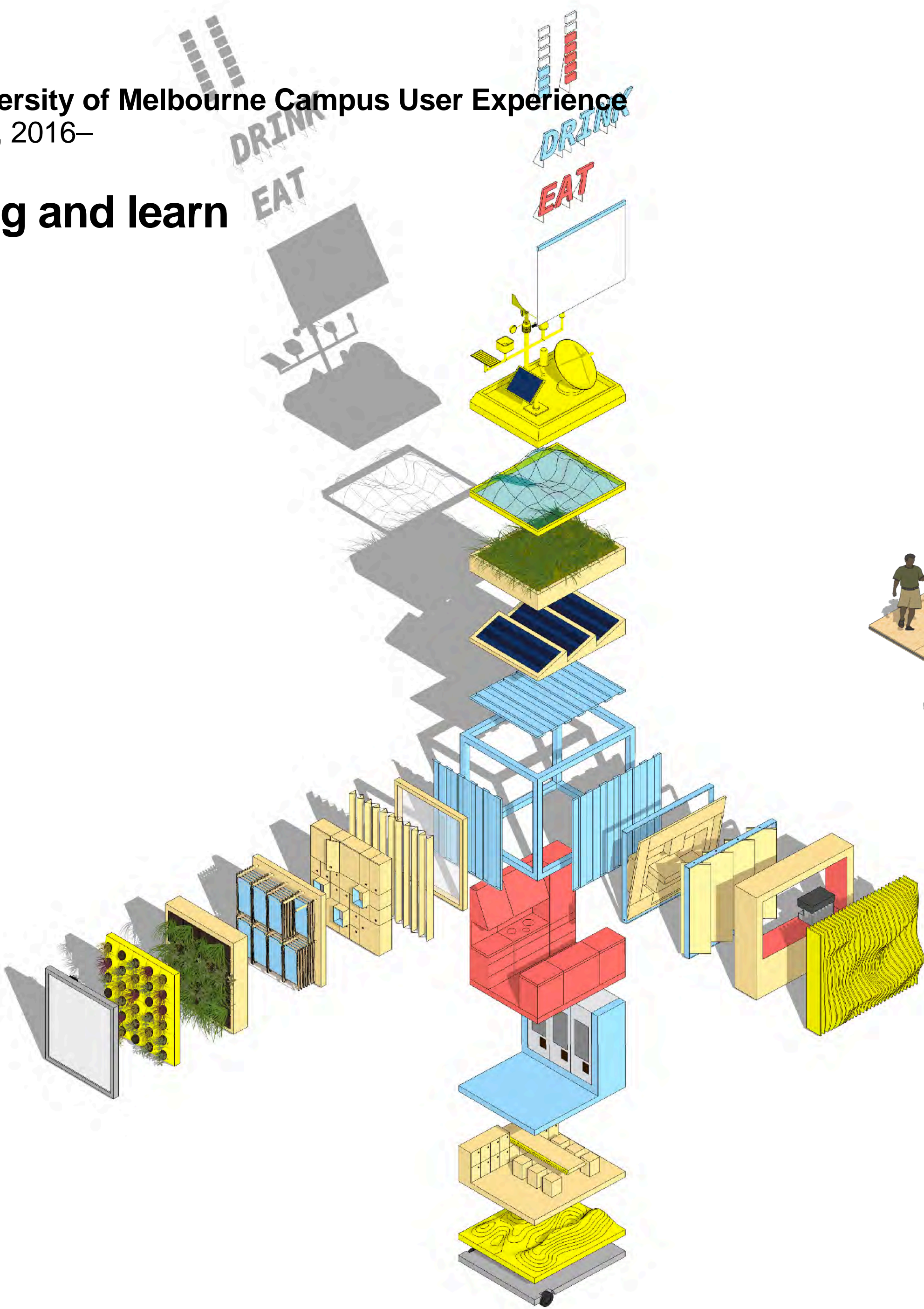


de openbare ruimte, en in de parkeervoorzieningen zelf ruimte gereserveerd. De mobiliteitsmaatregelen zijn nog niet altijd direct zichtbaar maar in de parkeerstrategie krijgen deze een hogere prioriteit ten opzichte van fysieke, conventionele parkeerplaatsen. Deze MaaS voorzieningen zullen zichtbaar aanwezig zijn in plinten en in de openbare ruimte. Ook krijgen fietsstallingen waar mogelijk een open, transparante aanwezigheid in de plint.

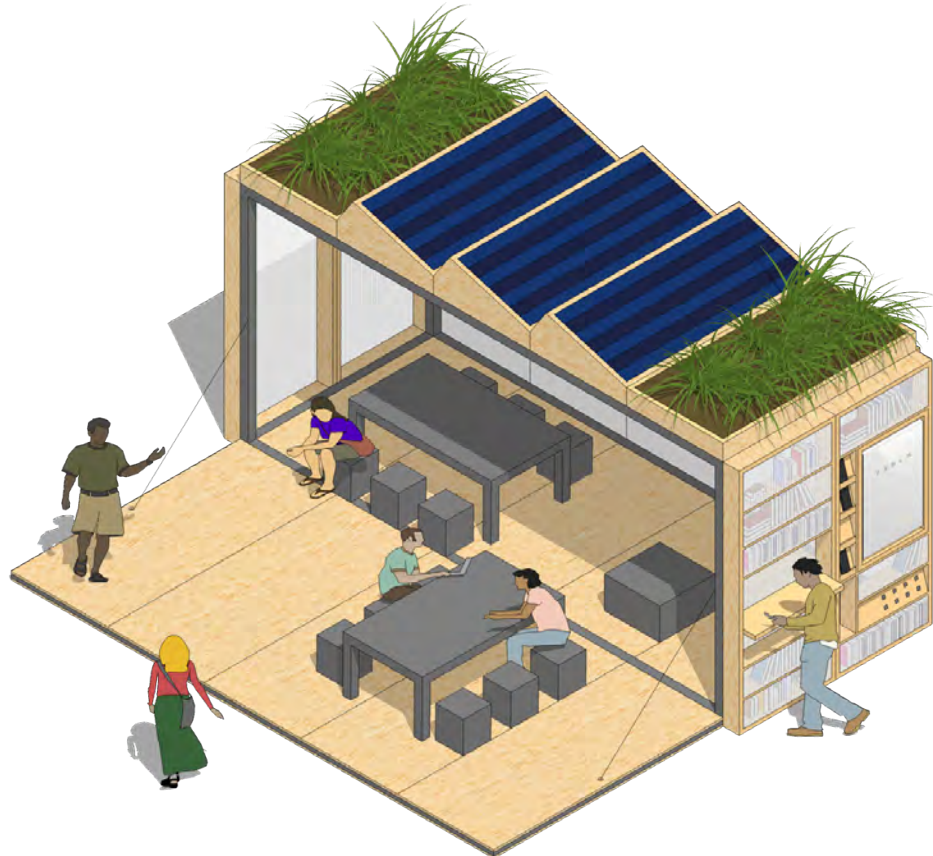
Kern van de opgave

Als reactie op het Stedenbouwkundig Plan heeft de Gemeenteraad op 4/10/2018 in een amendement besloten om het punt van parkeren enkele veranderingen door te voeren: "De parkeernorm voor woningbouw in de Sluisbuurt is in de eerste tenders gemiddeld 0,5 en wordt stapsgewijs naar beneden bijgesteld met als doel te komen tot een gemiddelde parkeernorm van 0,3 voor de buurt als geheel." Daarnaast wordt het totaal aantal parkeerplaatsen onderverdeeld in parkeervoorzieningen en in de straatparkeren, in de openbare ruimte. Deze is vastgesteld: "Ruimtelijk

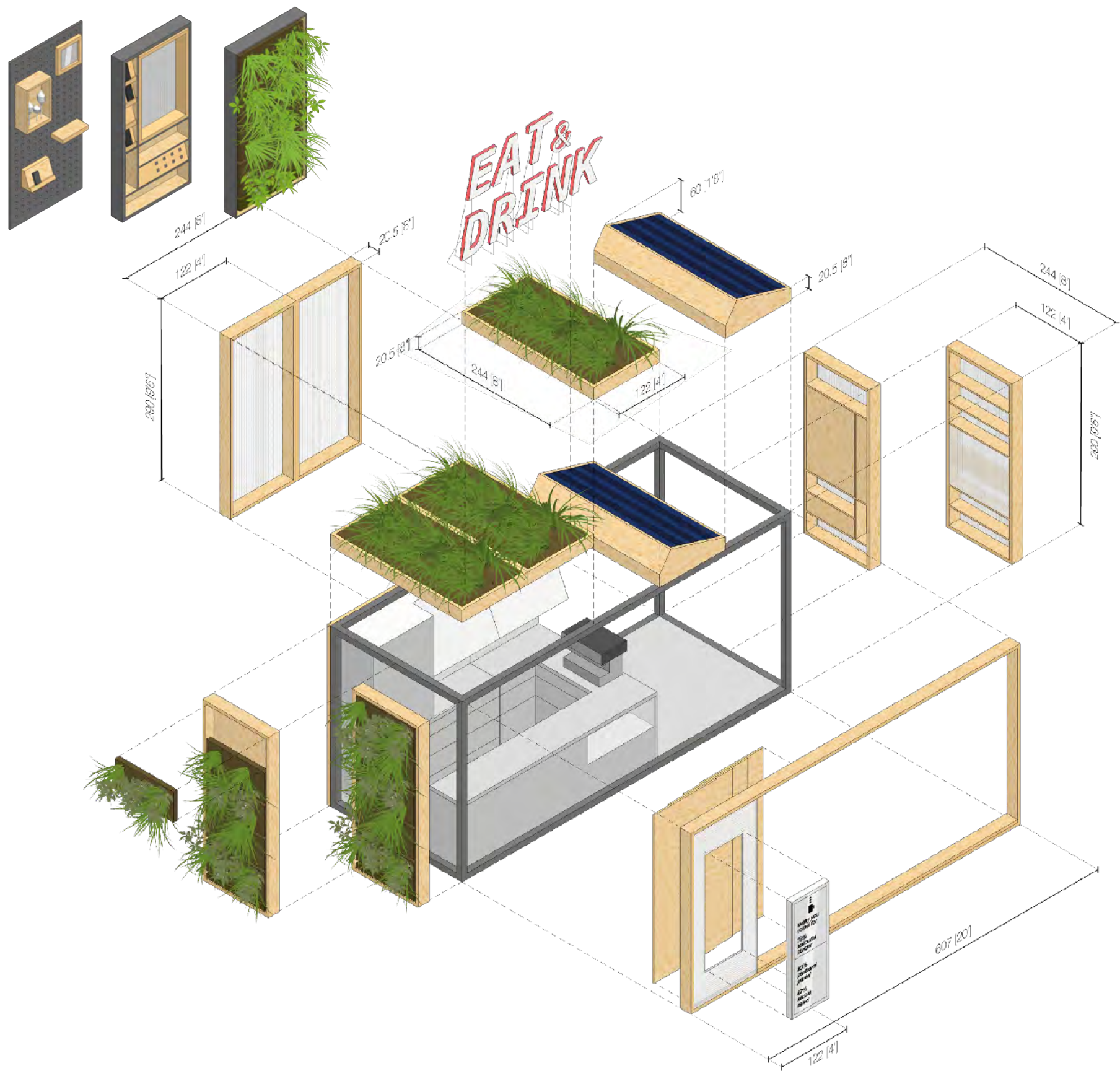
Plug and learn



Digital Wayfinding
Responsive e-ink signage



Food Cart
At Gate 8 and Monash Road

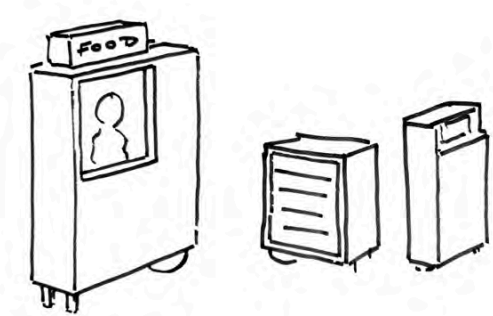


Kit of parts



Student Experience Prototypes. Food Cart Monash Road

Food Cart Monash Road



Scalable. A mobile food cart can be duplicated, and deployed in clusters or individually.

Impactful. Mobile carts can provide food offerings at multiple locations around campus, and cover for any temporary closures of other cafes during construction.

Adaptive. The food offering can change, operators can change, it can be used by multiple operators over managed periods of time. It is portable and can be used to service different spaces, or temporary needs (e.g. functions).

Feasible. Easily fabricatable. Partial off-the-shelf solutions possible.

Cost effective. Inexpensive.





home.two

New Student Precinct Pop-Up

home.two
wood
co
COFFEE
Follow us
(Phone for more info)

home.two

home.two

open 7.30am - 3.30pm
kitchen open 7.30am - 3.15pm

we are a not-for-profit social enterprise fighting to end youth homelessness
see our socials for more info: @societytwohouse @home.two.melbourne

coffee

small and up

latte brew 4

espresso 3.5

flat white 3.8

lato 3.8

cappuccino 3.8

long black 3.8

short mac 3.8

long mac 4

chai (grape chai) 4.5

minty chai 4.8

kur chai (pear and apple) 3.5

matcha 4

tea P23 3.8

black, green, chamomile

herbaceous + ginger, peppermint

BYO cup 0.5

jaffles

(all veggie)

avocado + banana 8

peanut butter + jam + banana 8

avocado, sweetcorn 8

*bush berries (not GF) 8

mediterranean, garlic + tomato 8

cheeseburger (not GF) 8

cheese + bacon 8

Smashed cauliflower mac + cheese 8

meatball + cheese 8

vegetarian + cheese 5

soup

ask for today's flavour

with bread 8



University of Melbourne Campus User Experience /
Arup, 2016–



Democracy is a political system for people who are not sure that they are right.

E.E. Schattschneider

Noticing Planning Notice

Cultures of decision-making





BRICKSTARTER

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NIMBY to YIMBY

Make good things happen in your neighbourhood ^x

1/ [Start your project & build support](#) 2/ [Fund a project](#) 3/ [Volunteer your time](#) 4/ [Share your experience](#)

Brickstarter is an open platform for community projects. You can use it to kickstart and coordinate your idea, get the community behind it, find professional help and advice, and gain financial backing from others.

BACK
THIS
PROJECT



The Stables

33%
FUNDED

€27 432
PLEGGED

3
DAYS TO GO

» A co-working space, café, shop and community garden in what is currently a parking garage «

NEW
PROJECT



Cloud City

NEW
PROJECT!

HELP SHAPE
THIS PROJECT

60
DAYS

» A sustainable block and public space built on top of Merikortelli «

BACK
THIS
PROJECT



Jätkäsaari windmill

89%
FUNDED

€117 312
PLEGGED

23
DAYS TO GO

» A community-owned wind turbine on the tip of Jätkäsaari «

BACK
THIS
PROJECT



BACK
THIS
PROJECT



NEW
PROJECT



BACK
THIS
PROJECT



Uusikioski

43%
FUNDED

€1 432
PLEDGED

17
DAYS TO GO

» We will grow herbs on the roof and vegetables in the square behind, and serve you fresh, local produce with a smile «

BACK
THIS
PROJECT



Aaltogrotto


62%
FUNDED

€27,931
PLEDGED

9
DAYS TO GO

» A co-working space in the disused Aalto-designed stairs on Mannerheimintie «

NEW
PROJECT



Baana Bike Repair

98%
FUNDED

€9,942
PLEDGED

52
DAYS TO GO

» Infrastructure for Baana cyclists «

BACK
THIS
PROJECT




Open Courtyard

82%
FUNDED

€1,238
PLEDGED

12
DAYS TO GO

NEW
PROJECT



Tower of Power

12%
FUNDED

€834
PLEDGED

59
DAYS TO GO

» PV cells on the roof power the

BACK
THIS
PROJECT



Punkaharju wind farm

62%
FUNDED

€18 634
PLEDGED

39
DAYS TO GO

» A community-owned wind farm of four turbines for the east Punkaharju area «

Mixed Reality Cities / Arup x Ericsson, 2017—





Planning Notice

Arup x Ericsson



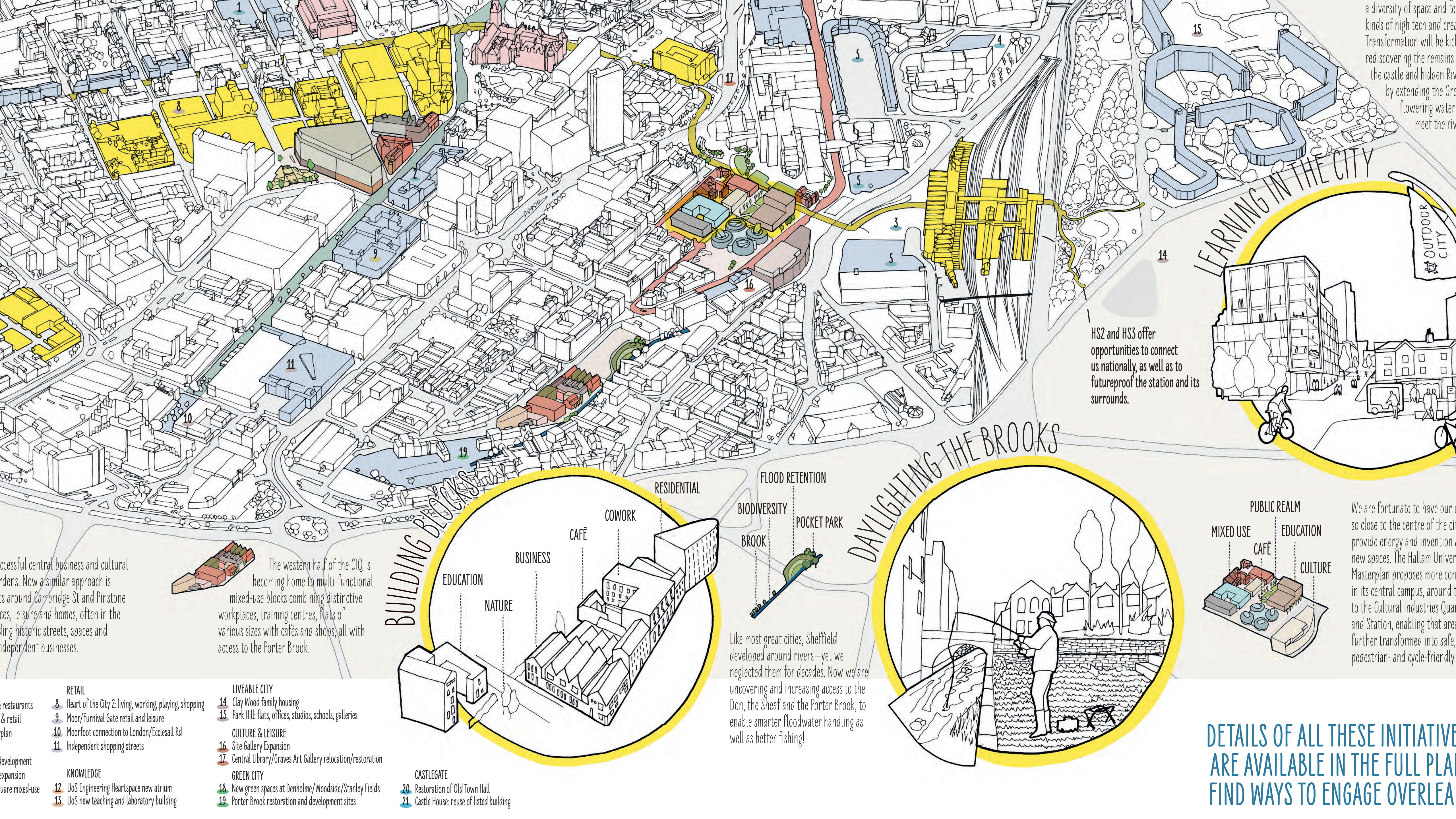
Juta St



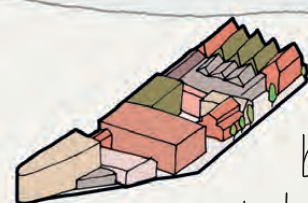






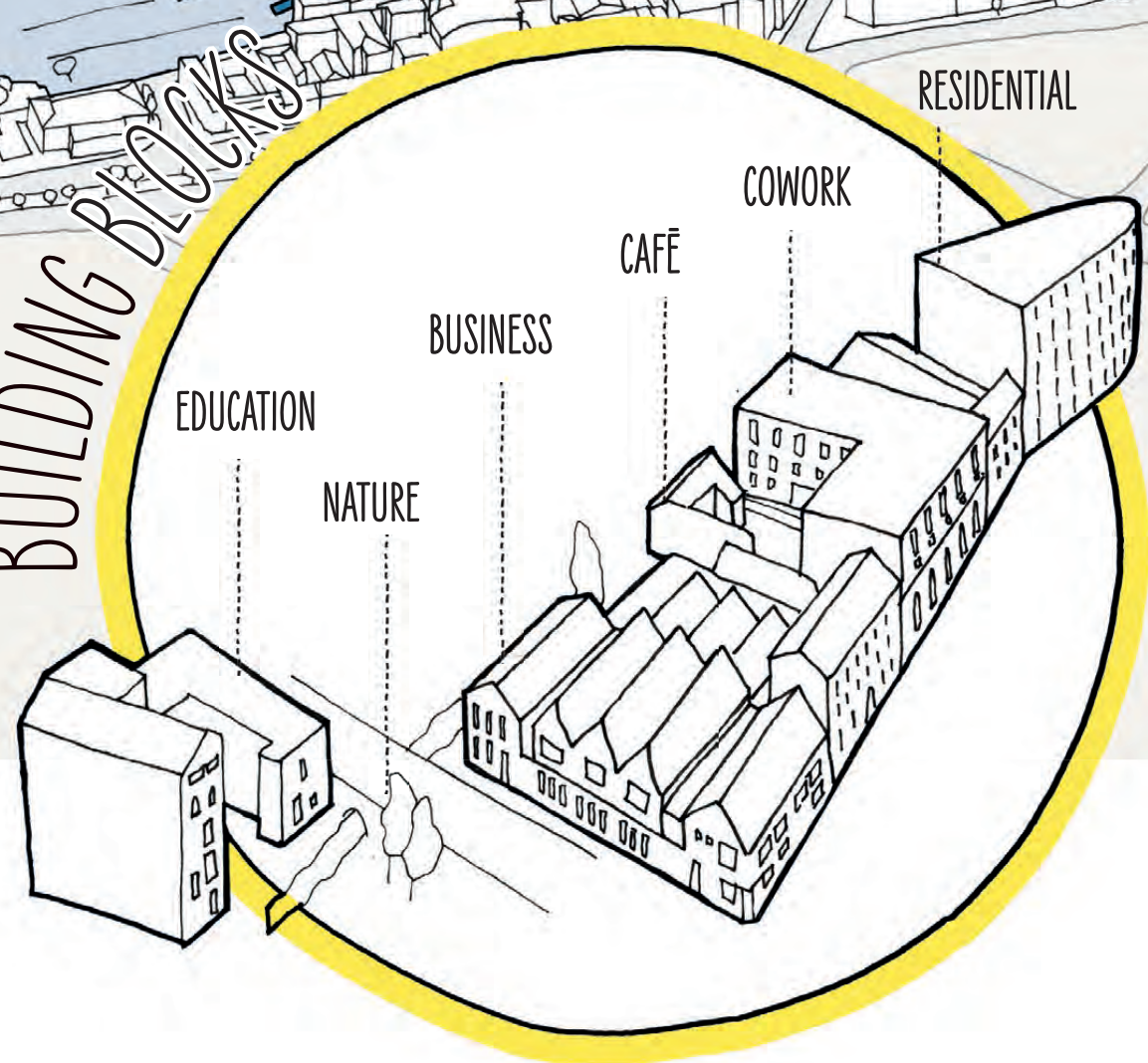


Successful central business and cultural
gardens. Now a similar approach is
around Cambridge St and Pinstone
ces, leisure and homes, often in the
ding historic streets, spaces and
independent businesses.



The western half of the CIQ is
becoming home to multi-functional
mixed-use blocks combining distinctive
workplaces, training centres, flats of
various sizes with cafés and shops, all with
access to the Porter Brook.

BUILDING BLOCKS



RESIDENTIAL

COWORK

CAFÉ

BUSINESS

EDUCATION

NATURE

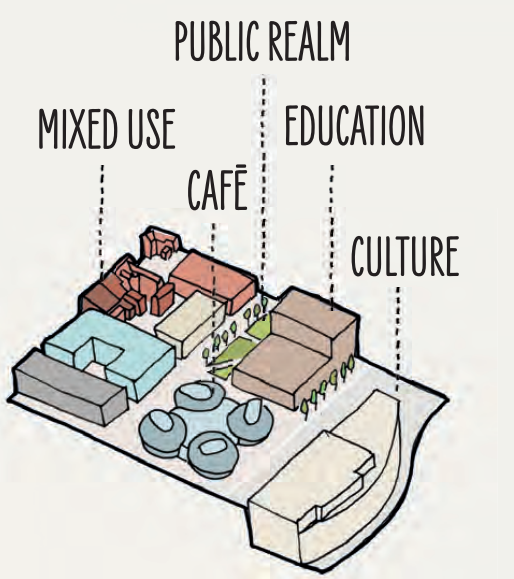
FLOOD RETENTION
BIODIVERSITY
BROOK
POCKET PARK

DAYLIGHTING THE BROOKS

Like most great cities, Sheffield
developed around rivers—yet we
neglected them for decades. Now we are
uncovering and increasing access to the
Don, the Sheaf and the Porter Brook, to
enable smarter floodwater handling as
well as better fishing!



LEARNING IN THE CITY



PUBLIC REALM

MIXED USE

CAFÉ

EDUCATION

CULTURE

We are fortunate to have our
so close to the centre of the city
provide energy and invention
new spaces. The Hallam University
Masterplan proposes more con
in its central campus, around t
to the Cultural Industries Quar
and Station, enabling that area
further transformed into safe,
pedestrian- and cycle-friendly

- RETAIL
 - 8 Heart of the City 2: living, working, playing, shopping
 - 9 Moor/Furnival Gate retail and leisure
 - 10 Moorfoot connection to London/Ecclesall Rd
 - 11 Independent shopping streets
- LIVEABLE CITY
 - 14 Clay Wood family housing
 - 15 Park Hill: flats, offices, studios, schools, galleries
- CULTURE & LEISURE
 - 16 Site Gallery Expansion
 - 17 Central Library/Graves Art Gallery relocation/restoration
- KNOWLEDGE
 - 12 UoS Engineering Heartspace new atrium
 - 13 UoS new teaching and laboratory building
- GREEN CITY
 - 18 New green spaces at Denholme/Woodside/Stanley Fields
 - 19 Porter Brook restoration and development sites
- CASTLEGATE
 - 20 Restoration of Old Town Hall
 - 21 Castle House: reuse of listed building

DETAILS OF ALL THESE INITIATIVES
ARE AVAILABLE IN THE FULL PLAN
FIND WAYS TO ENGAGE OVERLEA



Retail consolidated bu
Space for Work for all r
A New Castlegate unit
Growing the Campuses
More diverse resident p
Even better Cultural an

Castlegate



BACK TO THE FUTURE
Castlegate will be one of the key
for development, envisaged as
mixed use use of 'building for
a diversity of space and for
needs of high tech and trans
Transformation will be accelerated by
renewing the remains and connect
the castle and hidden lower floor
and by extending the ferry to
the river, lowering water
enabling to meet the
high level



LANDING IN THE CITY
The new University is here our ambition
to place in the centre of the city - they
provide energy and innovation as well as
new spaces for the future University Campus

NEW CENTRES OF DENSITY
New developments down towards the
river help create different centres of
density within the city centre. These will
be high quality buildings with high quality
public realm, including the river to lower
streets and creating new public space
opportunities, such as larger floor plates,
terraces and apartments.



K12 and K13 offer
opportunities to connect us
much better internationally,
nationally and regionally as
well as to futureproof the
station and its surrounds.

BIGyard, Berlin / Zanderroth Architekten

Baugruppen





More Than Housing, Zürich

Cooperative housing district

50 cooperatives.
13 buildings.
400 units.
35 retail + community units.
No public subsidy.
Rent 20-30% below market levels.
Nearly car-free.
Shared daily infrastructure.
2000 Watt society.
45% energy generated on-site.
4 hectares held back for future.

Strategic design

Participative design

Changes what you build. Places emphasis on ownership, care, maintenance, adaptation and incompleteness.

Urban Village Project / SPACE10, 2019



Future-proofing ArenAPoort / Arup x Gemeente
Amsterdam, 2017–18

ArenAPoort workshop



ArenAPoort workshop

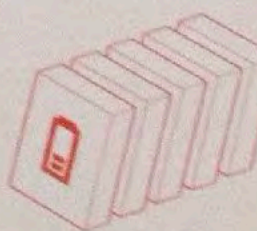


School

Sports

E-Bike Network

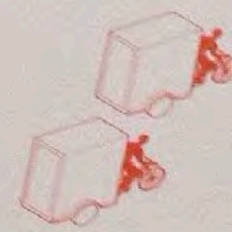
Mens in contact



Battery Storage

Local Energy Generation

logistics hub



Cargo Bikes

Ground Drones

Co-working Space

Incubator

Food/Café

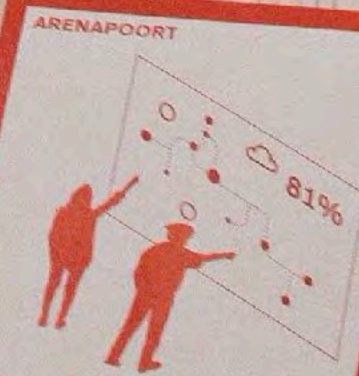
ARENAPOORT

Vaporation roofs

ARENAPOORT

Modular Furniture

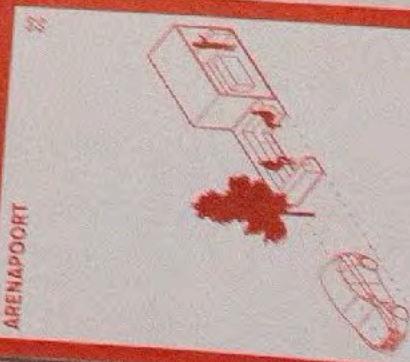
Flexible streetscape



Public Dashboard

ARENAPOORT

Dynamic dayfinding



Adaptable parking

ARENAPOORT

Kindergarten

ARENAPOORT

Green Pathways

ARENAPOORT

Mobile spaces

ARENAPOORT

Garden Network

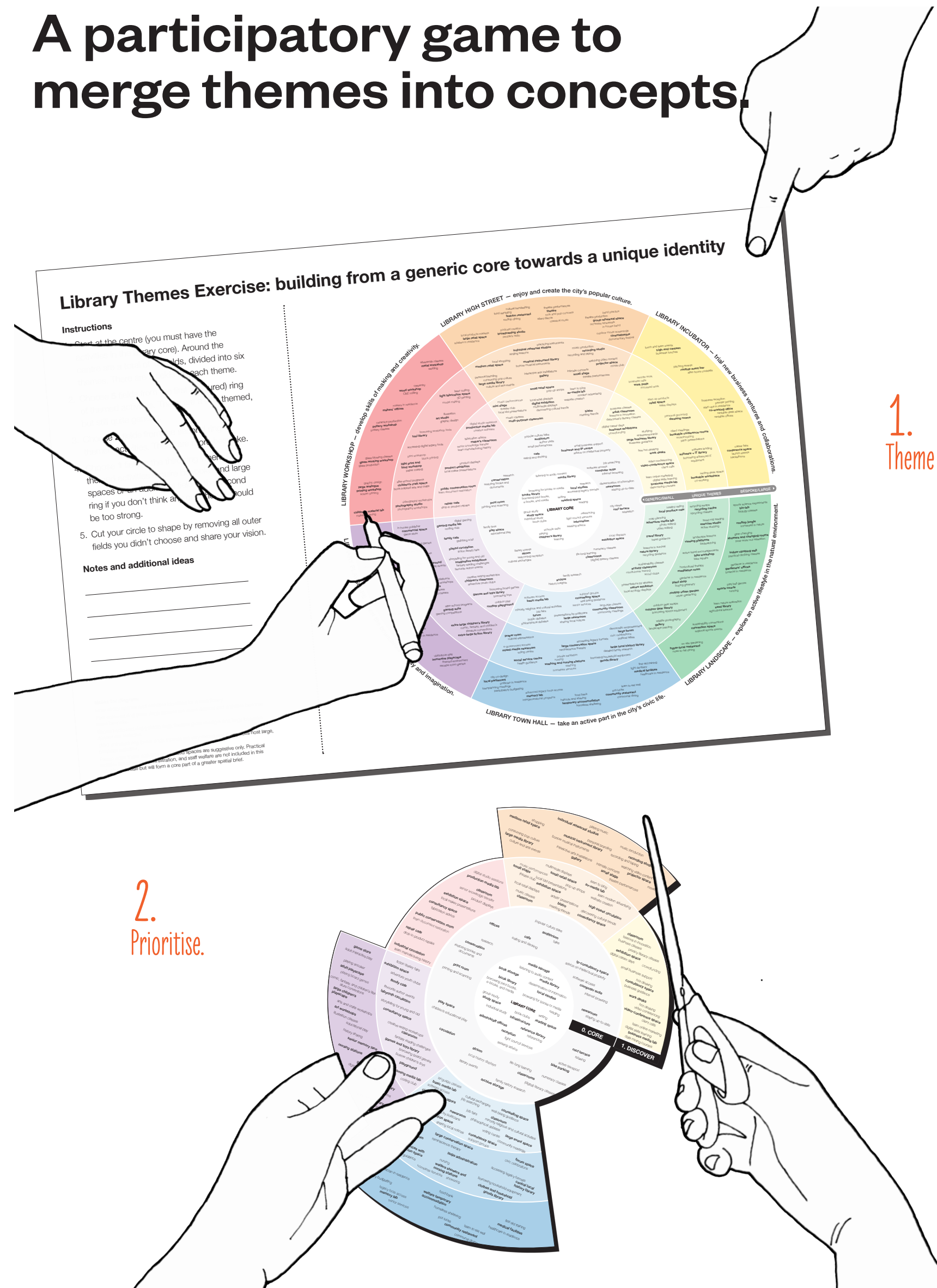
Gardening

ARENAPOORT

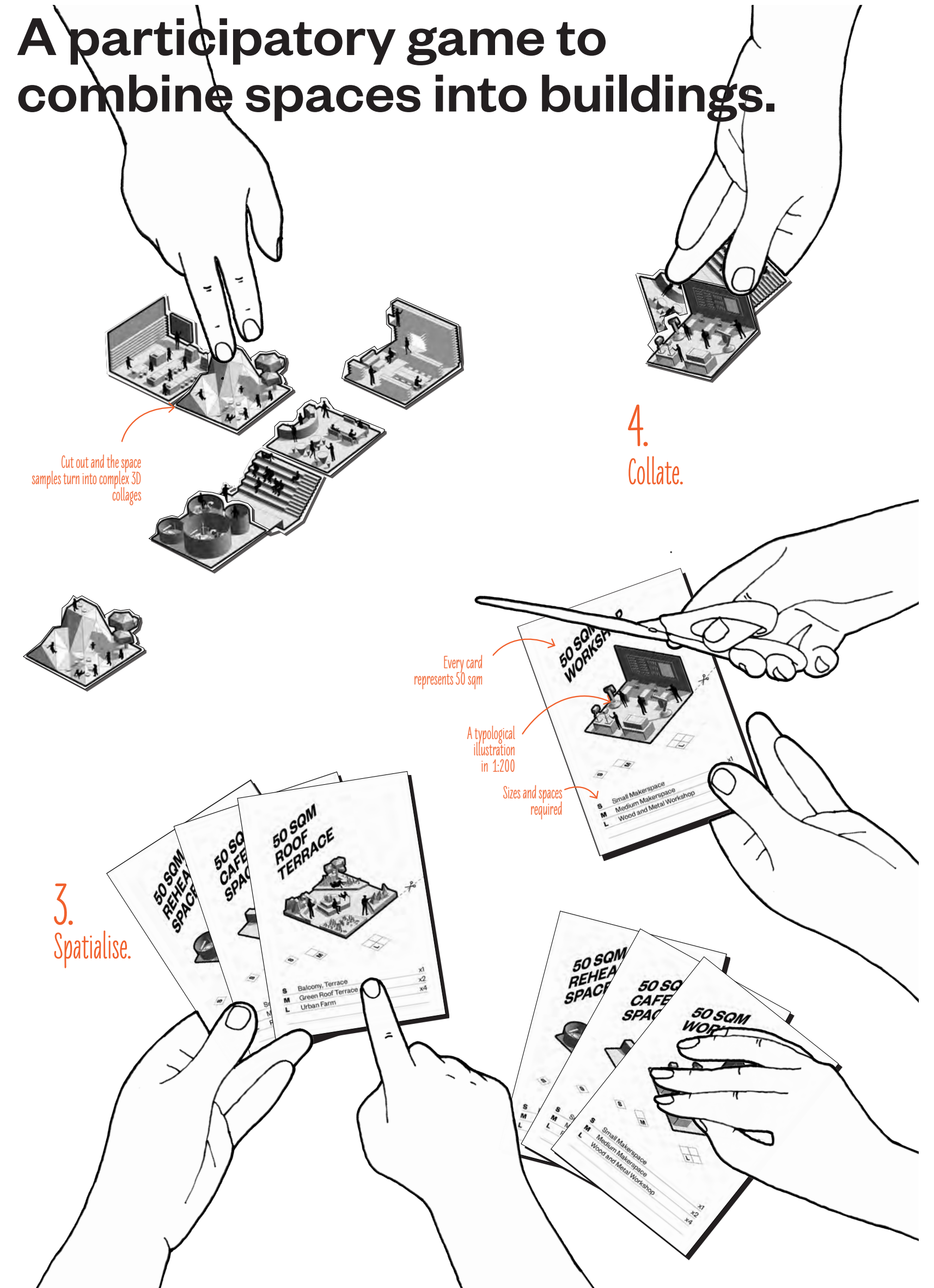
Superflex Space

Participation strategy

A participatory game to merge themes into concepts.



A participatory game to combine spaces into buildings.



4. Collate.

Arup x Sheffield City Council

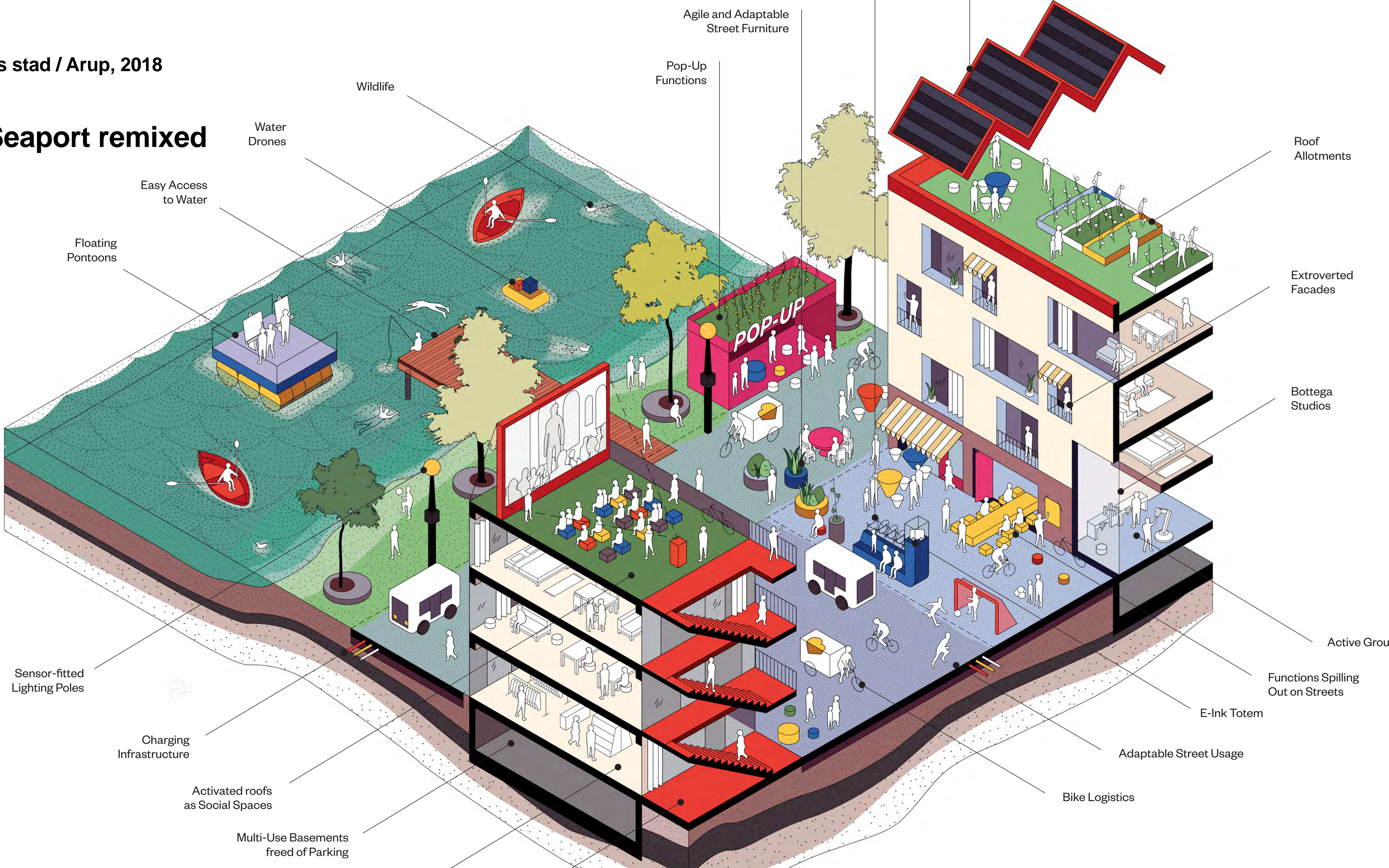
Sheffield central library workshop



Total Value Statement



Royal Seaport remixed



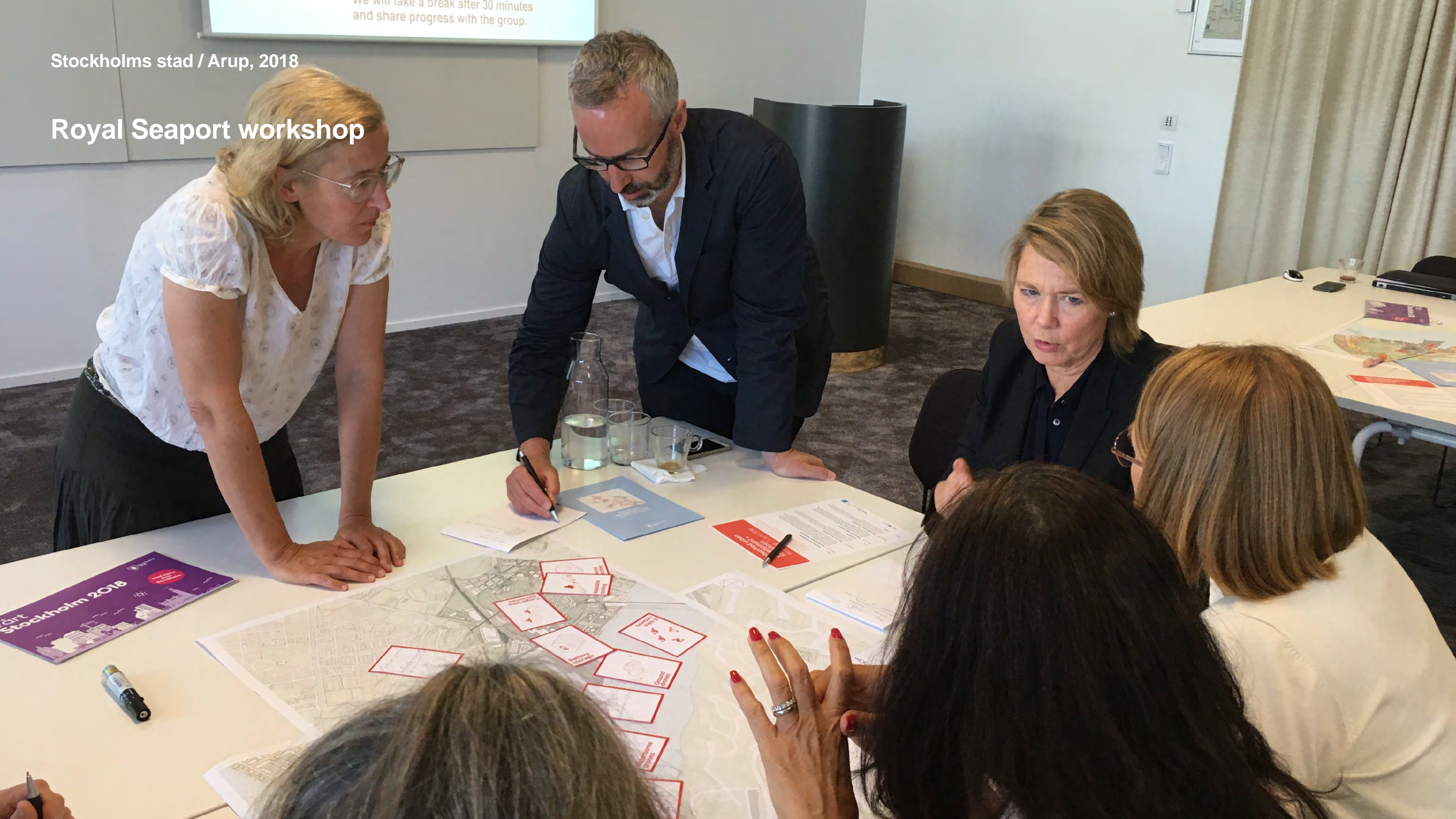
Stockholms stad (2018)



Take a break after 30 minutes
and share progress with the group.

Stockholms stad / Arup, 2018

Royal Seaport workshop



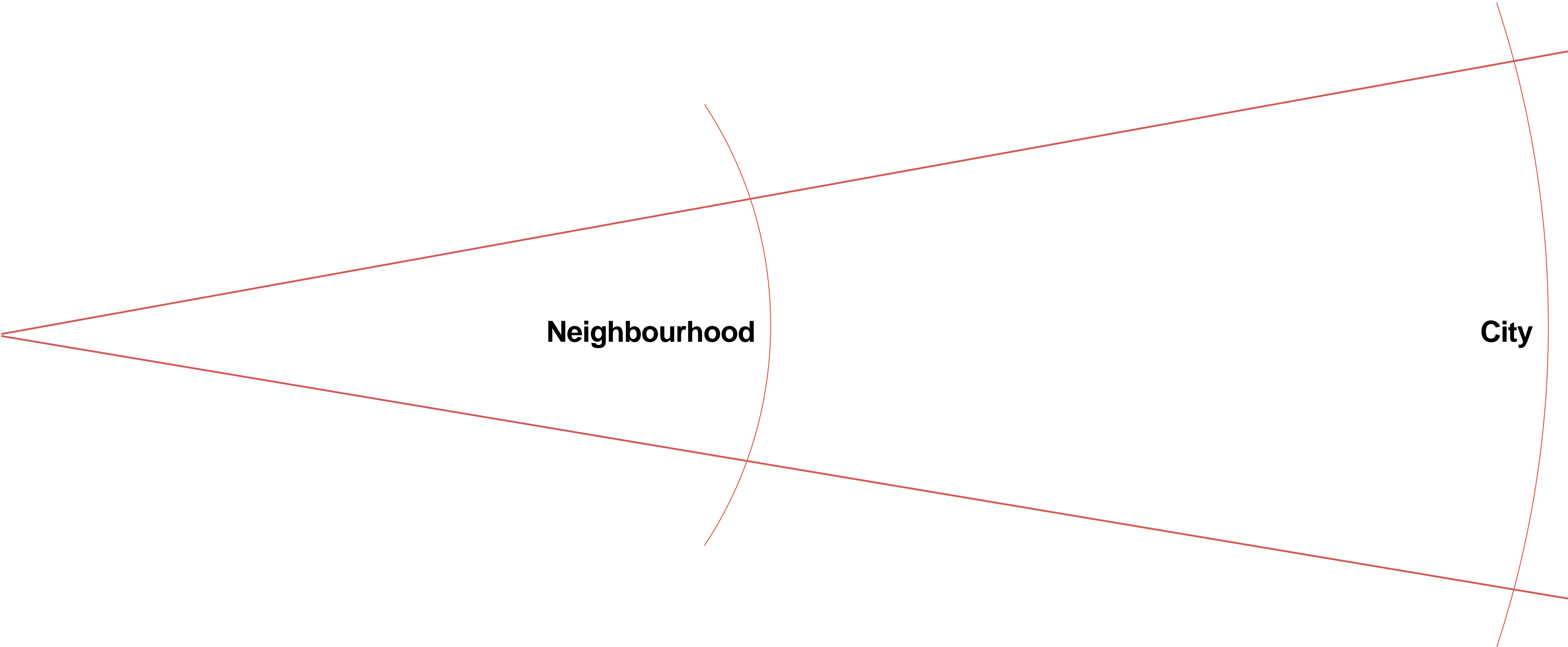
City design and delivery team

- Urban planner ● ○ Community engagement
- Landscape systems ● ○ Sociologist
- Architect ● ● Property market liaison
- User experience designer ○ ○ Policy design
- Data scientist ○ ○ Healthworker
- Digital systems specialist ○ ○ Business liaison
- Historian ○ ○ Artist
- Youth worker ○ ○ Project management

Building

Neighbourhood

City



Ravintolapäivä, Helsinki



Ravintolapäivä, Helsinki



Ravintolapäivä, Helsinki



Ravintolapäivä, Helsinki



Ravintolapäivä, Helsinki





Ravintolapäivä

Community Page about Restaurant Day

✓ Liked

Message

Seuraava Ravintolapäivä järjestetään sunnuntaina 17.02.2013.

Ravintolapäivä on karnevaali ravintola- ja ruokakulttuurin puolesta.
www.restaurantday.org/fi/

About

Photos

Likes

Notes 3

SEURAAVA RAVINTOLAPÄIVÄ 17.2.2013

Post Photo / Video

Write something...

25 Friends
Like Ravintolapäivä

Create Page

Sponsored

Create an ad

5 cibi ammazza grasso
bodybuilding.it

Scopri tutti i 5 sorprendenti frutti che tolgono grasso ai fianchi.

Come Fare 10000€ al Mese?
guadagnaresoldiconil...

Vuoi fare soldi? Ecco come guadagno 350 € al giorno da casa. Inizia ora!

Commit Consultants -...

Company Formation
Specialists - Dubai

Dubai / Abu Dhabi
Company Incorporation
Free Zones, Offshore
Companies, Branches &
LLCs.

Like - 2,874 people like
Commit Consultants - Incorporation
Specialists, UAE

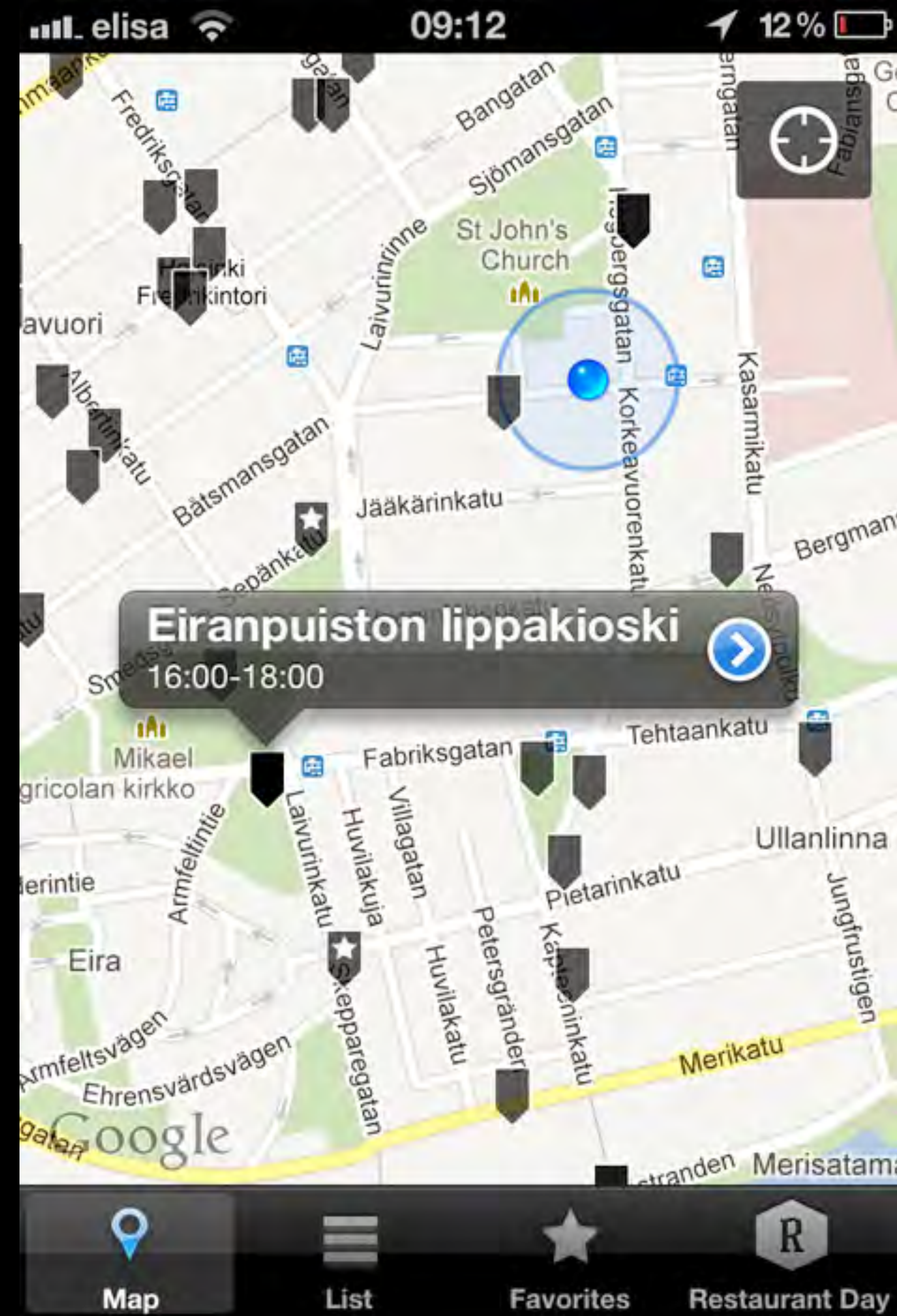
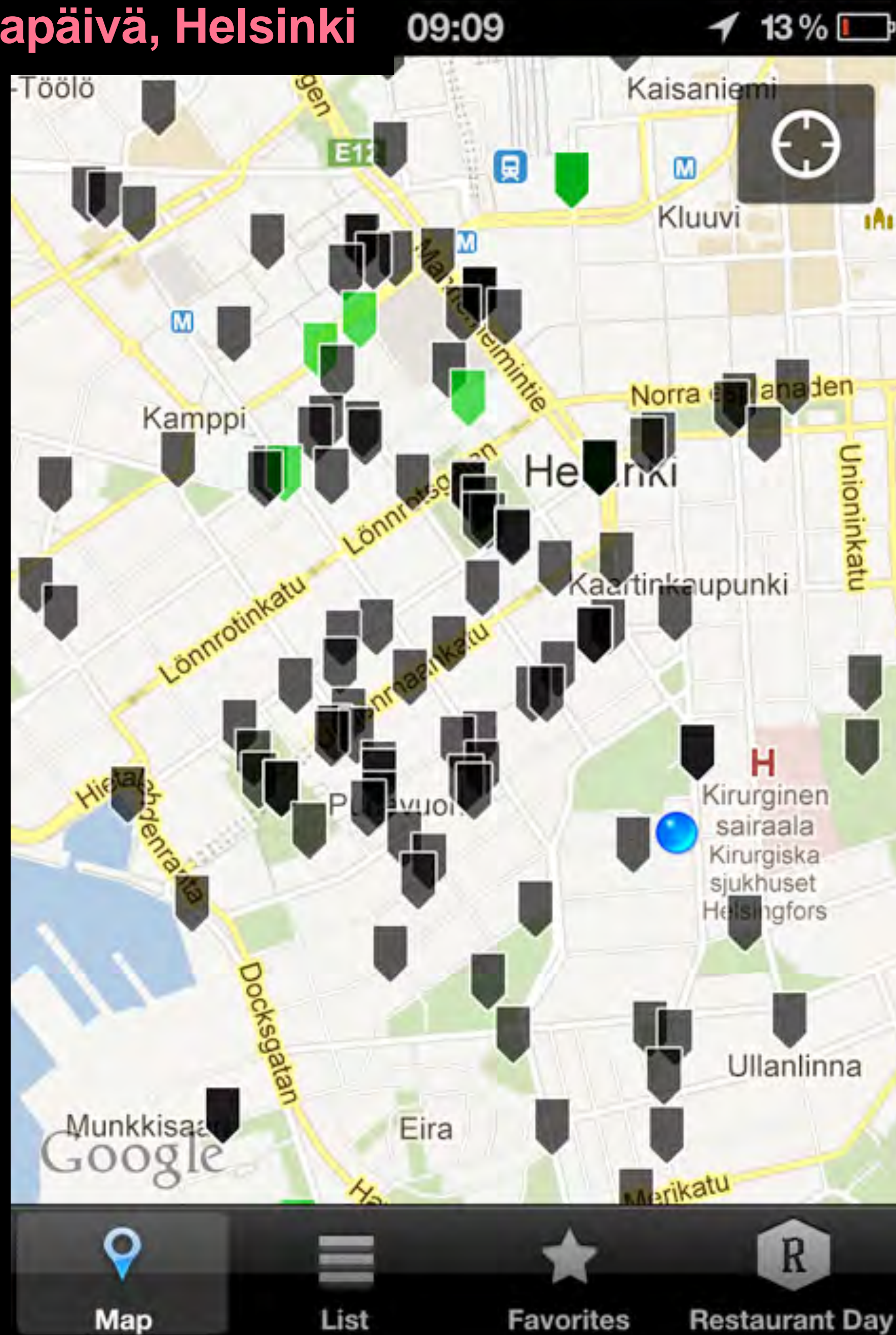
Now

December

2012

Joined Facebook

Ravintolapäivä, Helsinki



Ravintolapäivä, Helsinki



Day after Ravintolapäivä, Helsinki



Open Kitchen, Helsinki



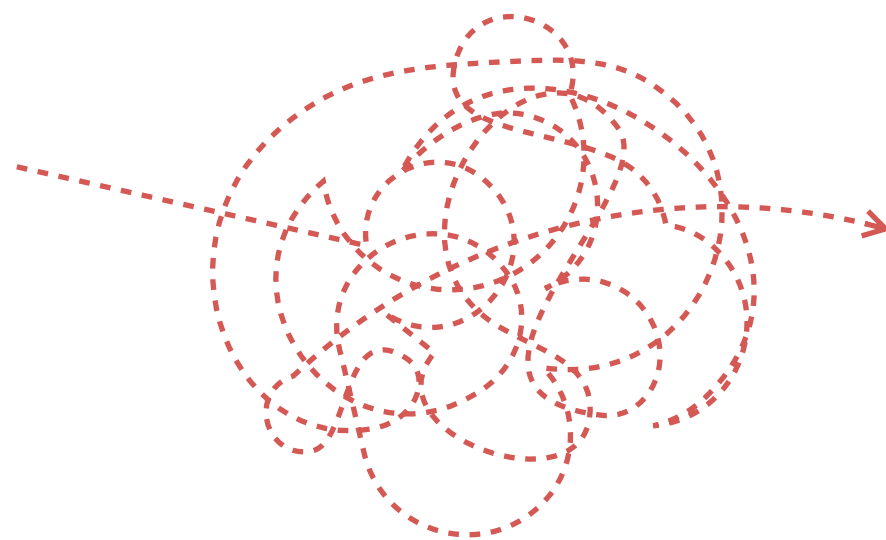
Open Kitchen, Helsinki



Open Kitchen, Helsinki



Impact



2014: Public Works department introduces “agile kiosk activities.” Specific areas in central Helsinki designated for food and coffee trucks, everywhere else agile kiosks can be operated quite freely

2015: Public Works Department of Helsinki publicly states it “doesn’t want to hinder the popular event” offering only advice for restaurant keepers on tidiness.

2015: Helsinki’s Environment Centre, responsible for health inspections, adds specific chapter on Restaurant Day-type events, noting no hygiene requirements are imposed during the event, offering advice on organisation of pop-up restaurants.

2011: Police and Valvira (National Supervisory Authority for Welfare and Health) co-released statements reminding that the sales of alcohol remained prohibited outside actual restaurants.

2012: the same statement had transformed into a simple information bulletin for the event participants.

2013: no further statements were given.

2014: Streat Helsinki event (street kitchens/block parties for 20,000 visitors); associated conference by City’s Food Culture Strategy team.

2015: City hires Restaurant Day founder Timo Santala as head of Food Culture Strategy team.

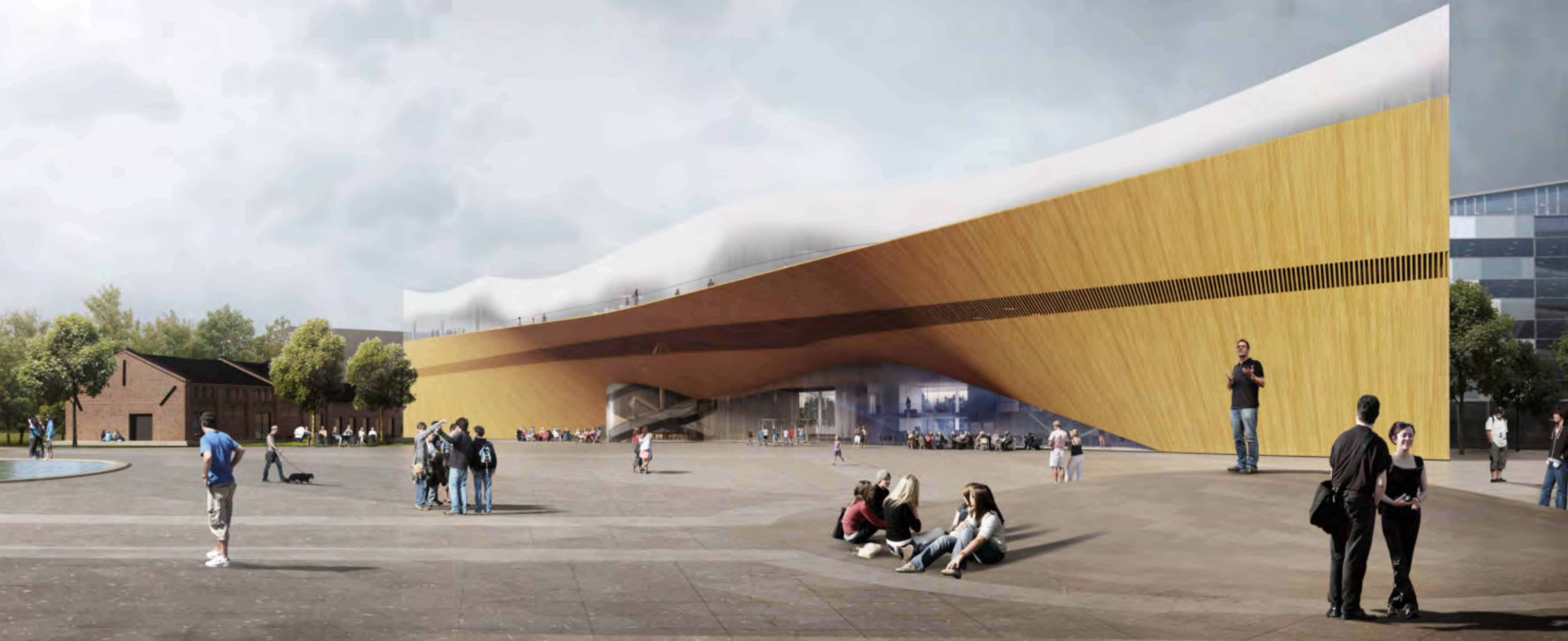
Airut/Low2No /SITRA (2010–)

Building code



Helsinki City Library / ALA (2015–)

Finnish timber buildings



Riihikartano apartment building / Office for Peripheral Architecture Oy (2017–)

Finnish timber buildings



Low2No, SITRA Energy programme (2007-2017)

Finnish forestry industry



DARK MATTER AND TROJAN HORSES

A STRATEGIC
DESIGN
VOCABULARY

Strategic design

Make the context

Designing for using and making
the city includes creating the
conditions for using and making
the city.

Strategic design

Mission-oriented innovation

Shifting the emphasis to place-based innovation, addressing climate resilience, public health, and social justice.

Mission-oriented innovation, Mariana Mazzucato, UCL

Vinnova is prototyping mission-oriented innovation for Sweden, looking at two areas initially: **healthy sustainable mobility** and **healthy sustainable food**

11:27 Fri 11 Oct

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This economist has a plan to fix capitalism. It's time we all listened

Mariana Mazzucato has demonstrated that the real driver of innovation isn't lone geniuses but state investment. Now she's working with the UK government, EU and UN to apply her moonshot approach to the world's biggest challenges

f

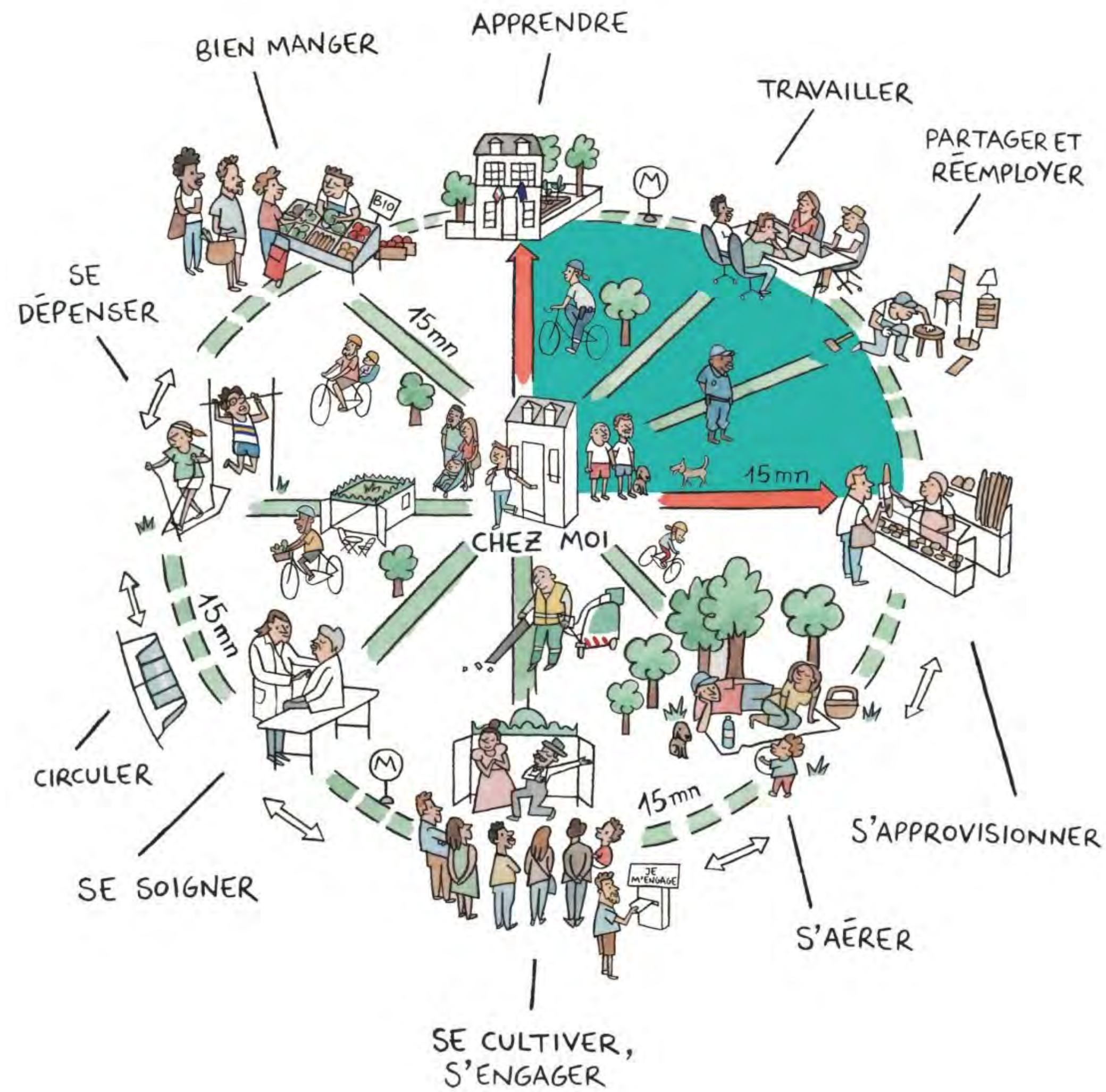
🐦

✉

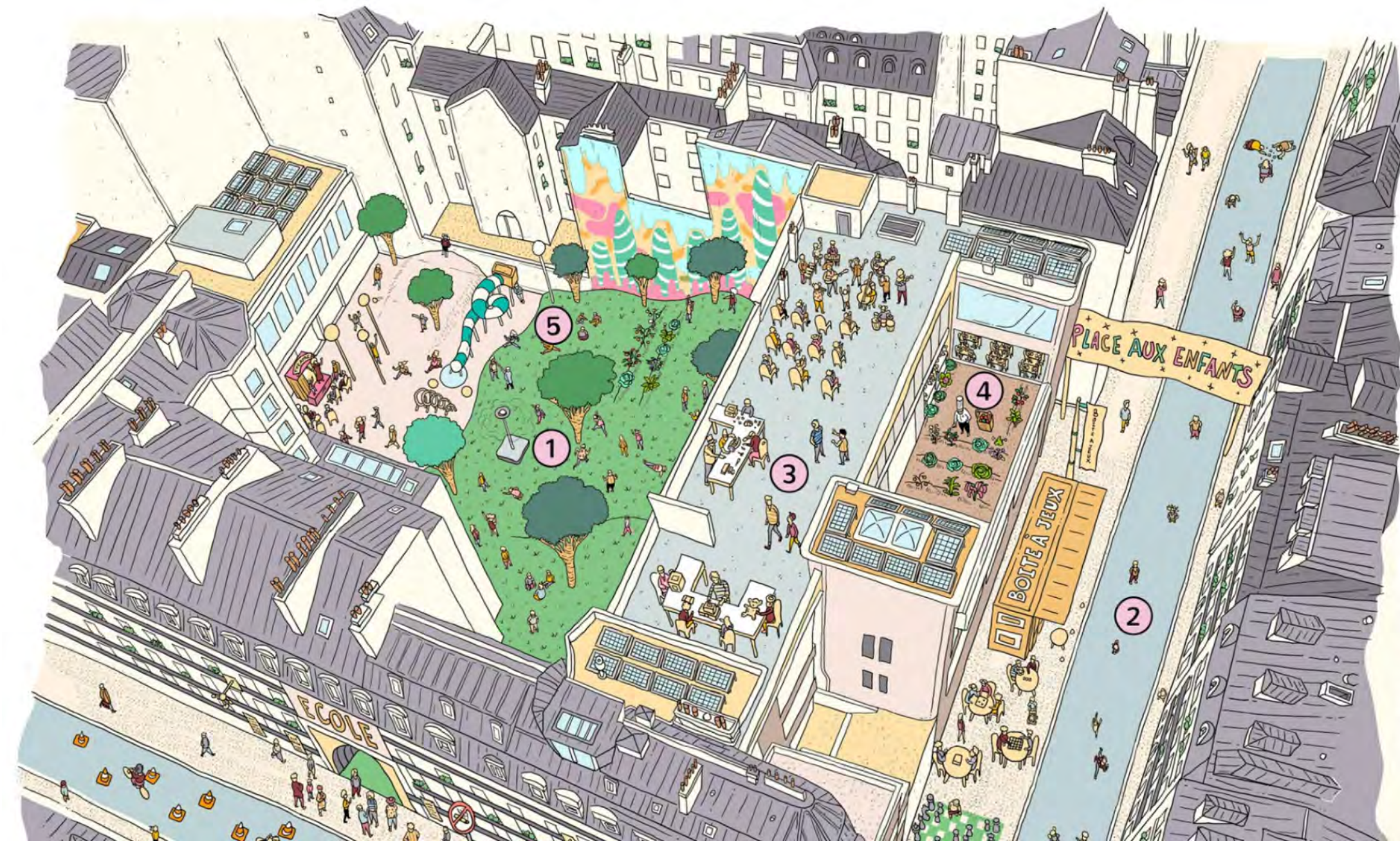


LE PARIS DU 1/4 HEURE

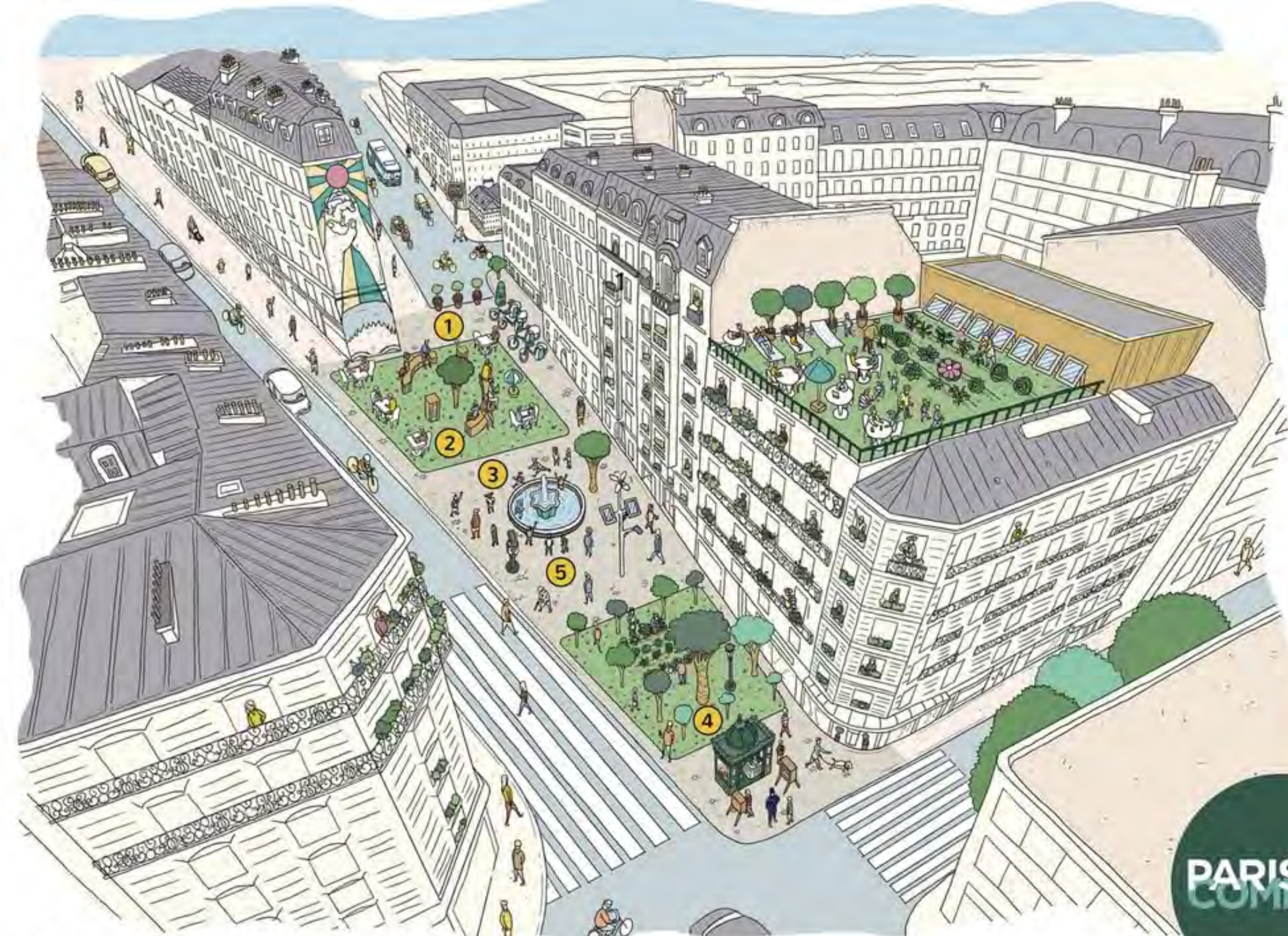
PARISEN
COMMON



MICAËL



- 1 Une cour de récréation transformée en jardin ouvert le week-end
- 2 Une rue aux enfants piétonnisée au moins aux horaires de dépôt de l'enfant, et où l'on peut jouer avec la boîte à jeu
- 3 De nouveaux apprentissages pour les enfants autour de la culture, l'environnement, le bricolage, etc
- 4 Des repas bio, en circuits courts servis aux élèves dans les cantines
- 5 Une école avec une garantie environnementale : airs, sols, perturbateurs endocriniens



- 1 Un carrefour transformé en place de quartier
- 2 Un espace de convivialité pour le quartier
- 3 Des jeux pour les enfants
- 4 Un potager partagé
- 5 De la fraîcheur et des énergies renouvelables

PARISEN
COMMON

Oslo just decided to get rid of its parking spaces

SHARE



14



Oslo hopes to extend pedestrian networks as it eases cars out of the city centre. Image: REUTERS/Ints Kalnins

Barcelona

Superblocks



1– Street.

Ensure that every street in Sweden is healthy, sustainable and vibrant by 2030.

Decreased maintenance costs-

Decreased flooding-

Increased soil quality+

Increased water quality+

Local property value+

Increased retail spend+

Increased social interaction+

Increased mental health+

Decreased respiratory illnesses-

Decreased brain cancer-

Decreased diabetes-

Decreased social care costs-

Decreased healthcare costs-

Increased avian biodiversity+

Decreased heat island effect-

Increased safety+

Decreased CO₂-

Decreased NO_x-

Decreased property crime-

Increased insect biodiversity+

Reduced embodied CO₂-

Increased cultural production+

Increased local food production+

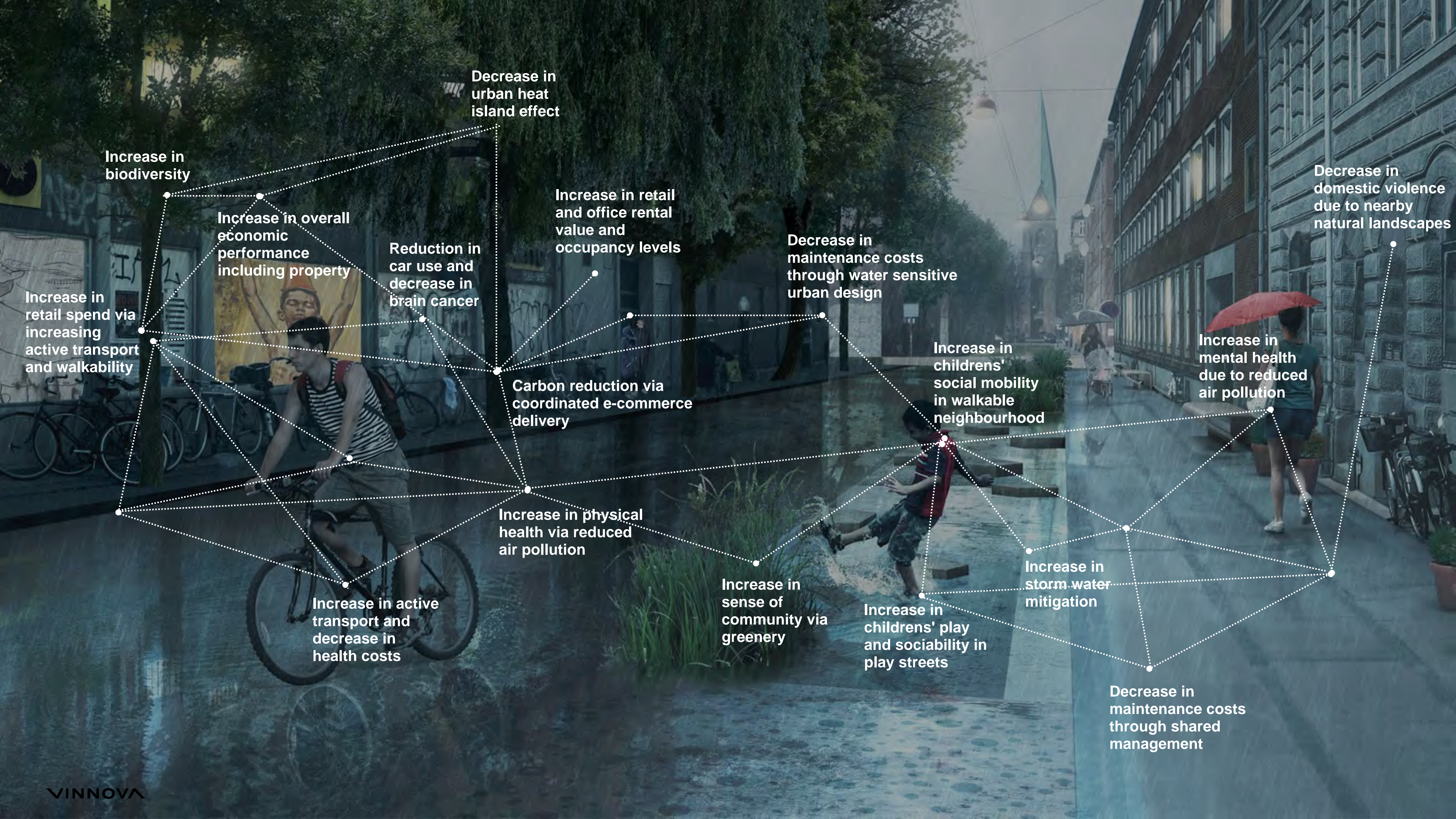
Increased democratic participation+

Decreased accidents-

Increased public transport performance+

Increased housing affordability+

Increased child sociability+



Decrease in
urban heat
island effect

Increase in
biodiversity

Increase in overall
economic
performance
including property

Reduction in
car use and
decrease in
brain cancer

Increase in retail
and office rental
value and
occupancy levels

Decrease in
maintenance costs
through water sensitive
urban design

Decrease in
domestic violence
due to nearby
natural landscapes

Increase in
retail spend via
increasing
active transport
and walkability

Carbon reduction via
coordinated e-commerce
delivery

Increase in
childrens'
social mobility
in walkable
neighbourhood

Increase in
mental health
due to reduced
air pollution

Increase in physical
health via reduced
air pollution

Increase in active
transport and
decrease in
health costs

Increase in
sense of
community via
greenery

Increase in
childrens' play
and sociability in
play streets

Increase in
storm water
mitigation

Decrease in
maintenance costs
through shared
management

Complex objects
Silo-led delivery

Trafikkontoret

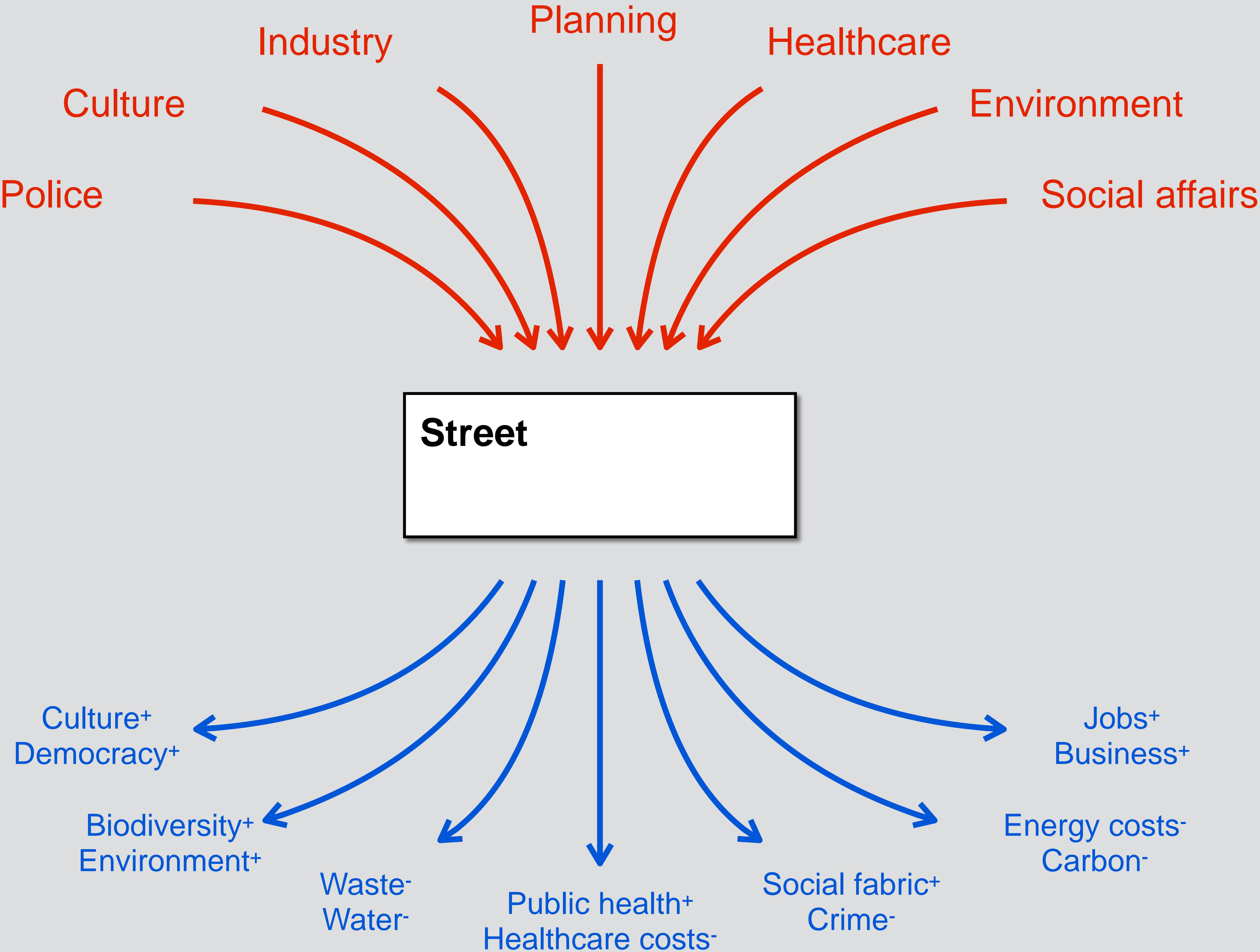


Street



Trafik+

Complex objects
System in the room



Mission platform strategy



Tangible demonstrators

Skills and organisational cultures

Standards and guidelines

Data and code

Financing

Policy

Law

Shared systemic change layers

Mission platform strategy



Skills and organisational cultures

Standards and guidelines

Data and code

Financing

Policy

Law

Tangible demonstrators

Shared systemic change layers

Billions of apps

Developer community

Standards and UI guidelines

Developer software stack

Licensing and business model

Core operating system

Hardware and physics



Design workshop

System in the room



Micromobility startup

Car-sharing company

Environment department, municipality

National design agency

Energy company



National food agency

High school student

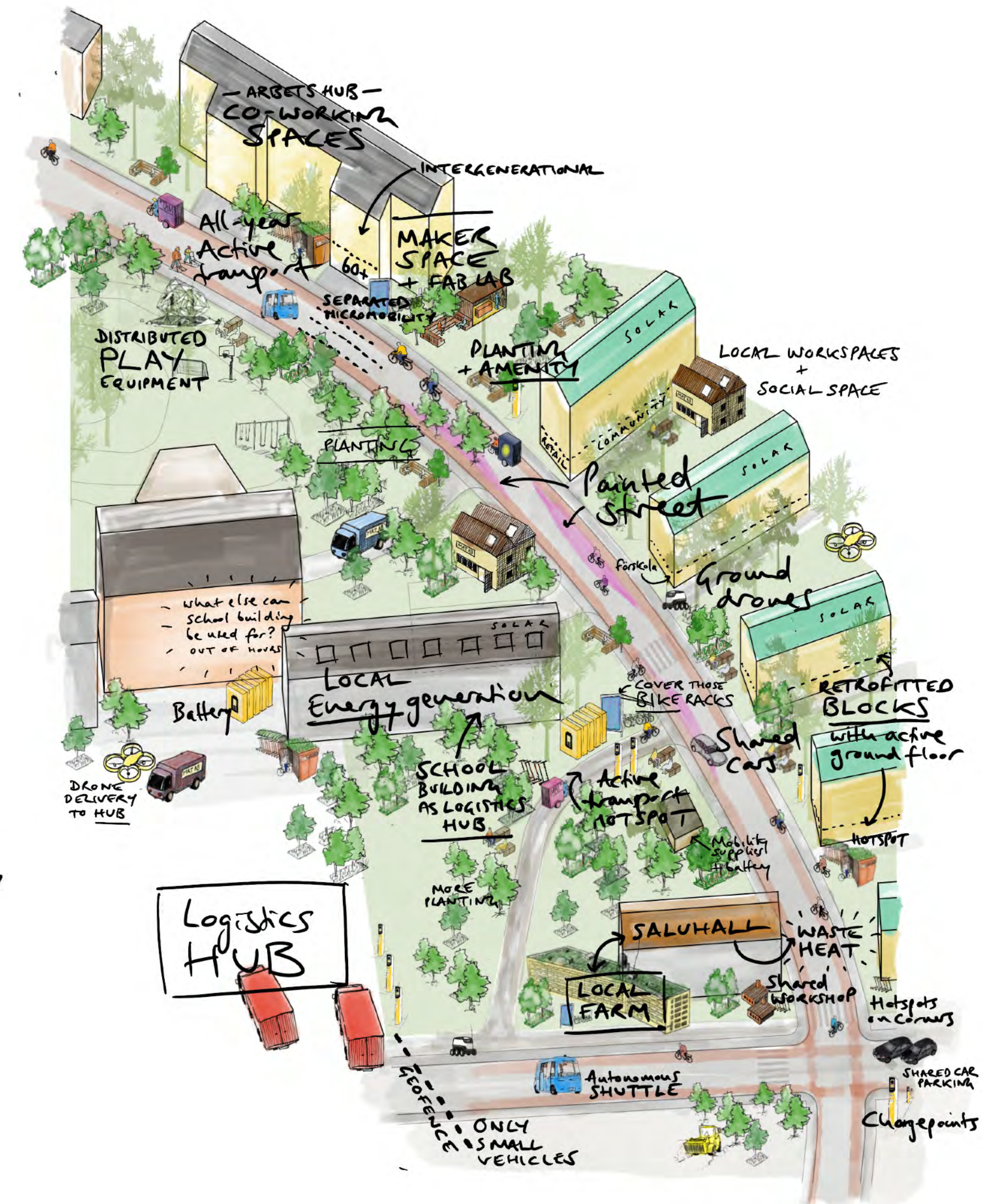
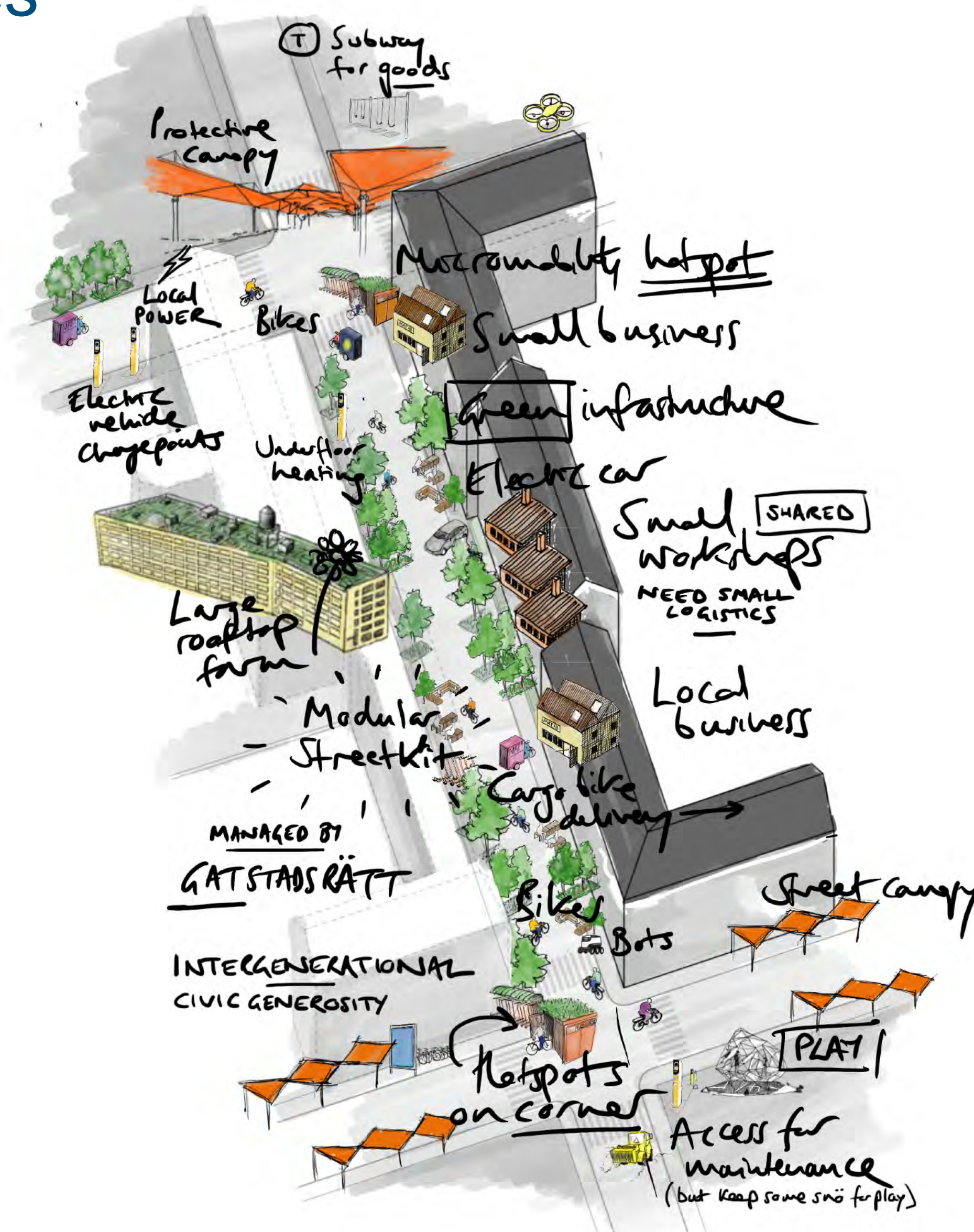
Chef

Food retailer and farm

Regulatory authority

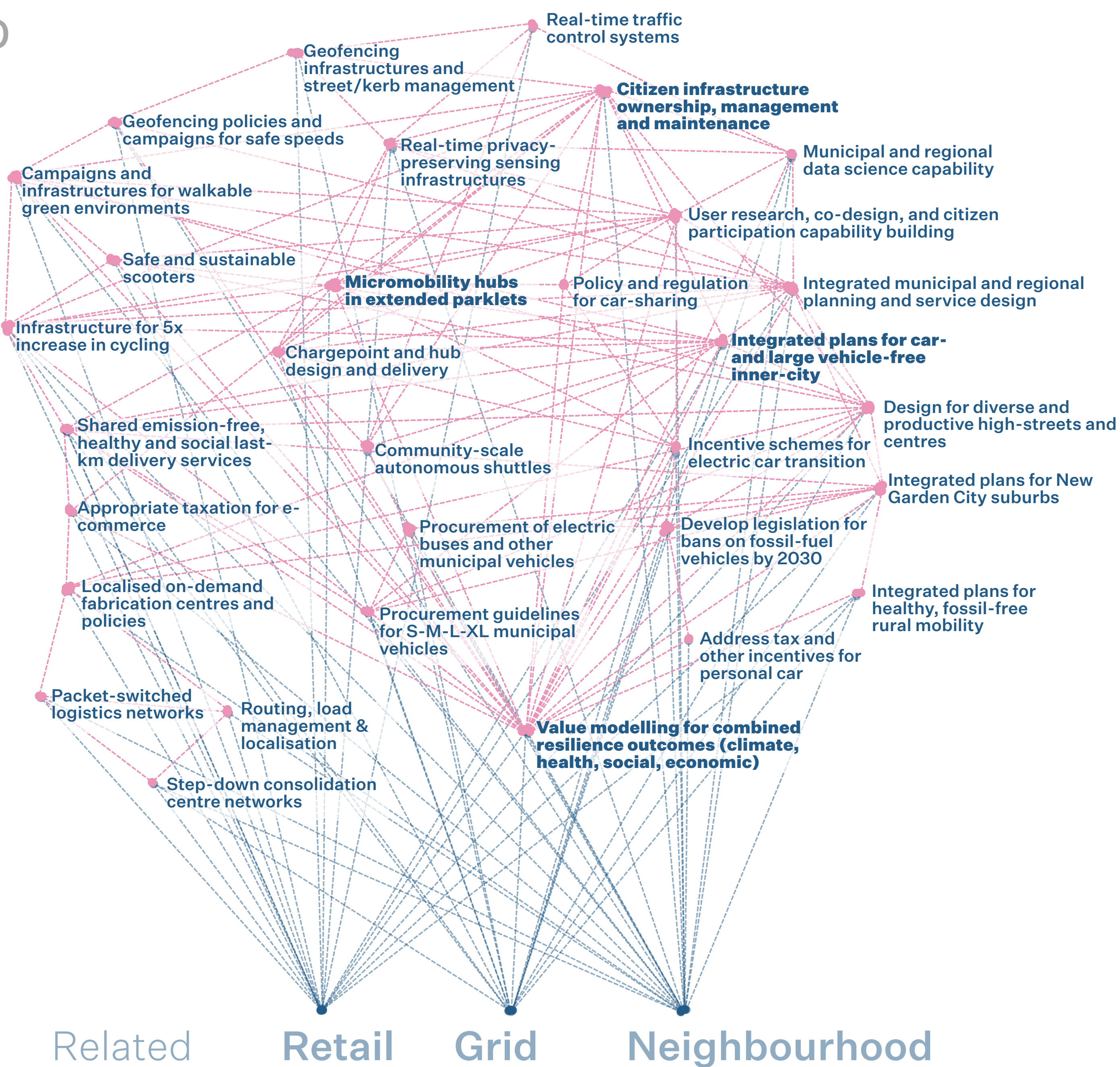
Prototyping systems as a portfolio

Workshop sketches

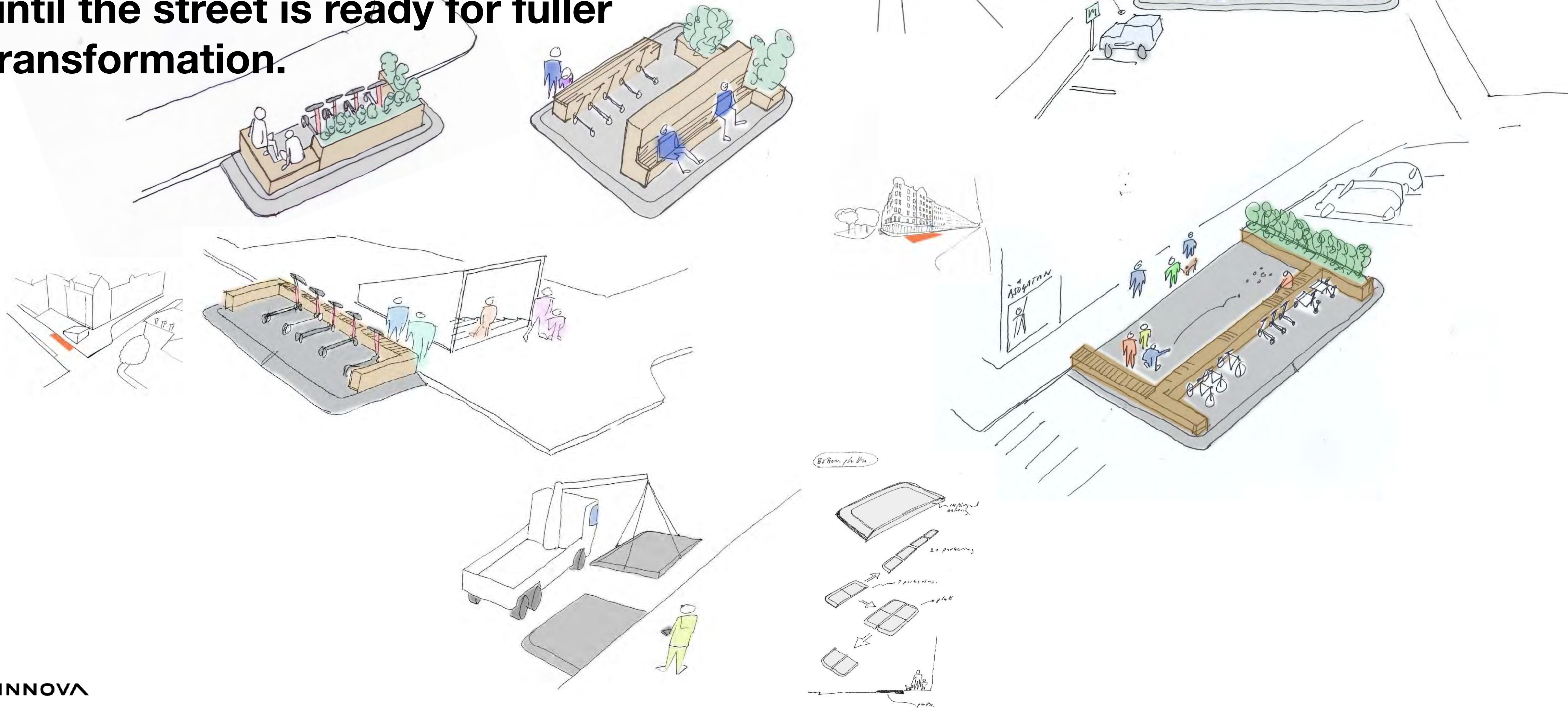


Prototyping systems as a portfolio

Living system diagram



The idea is to build elements that can spread across all streets, piece by piece, by working with local communities and municipalities, until the street is ready for fuller transformation.



Participative design

Framtidsgator



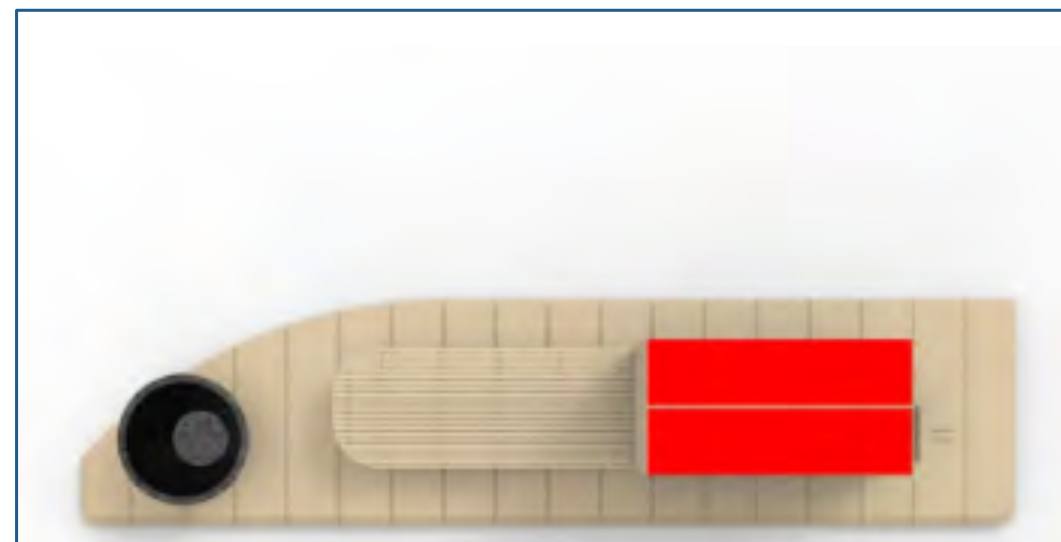
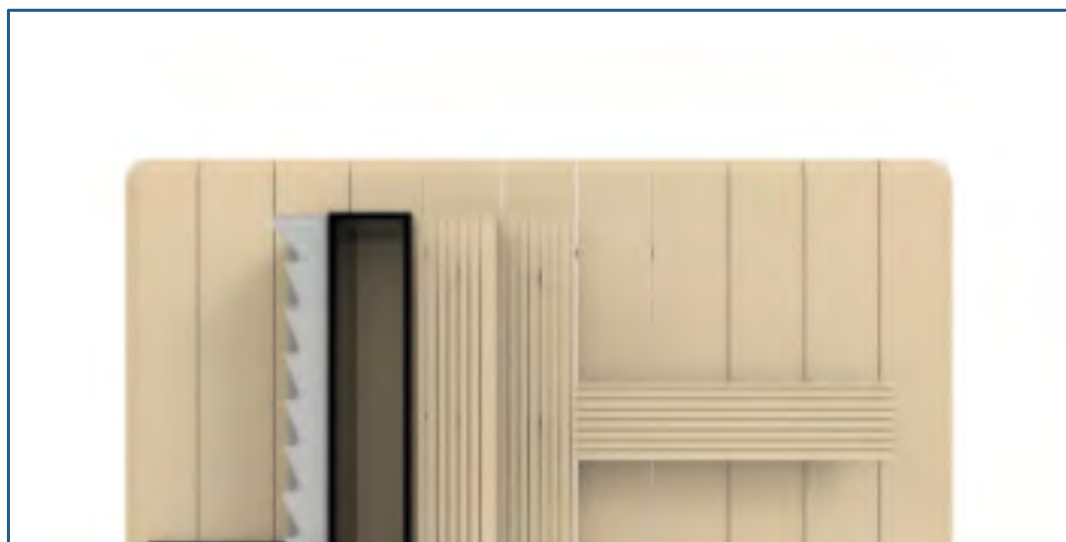
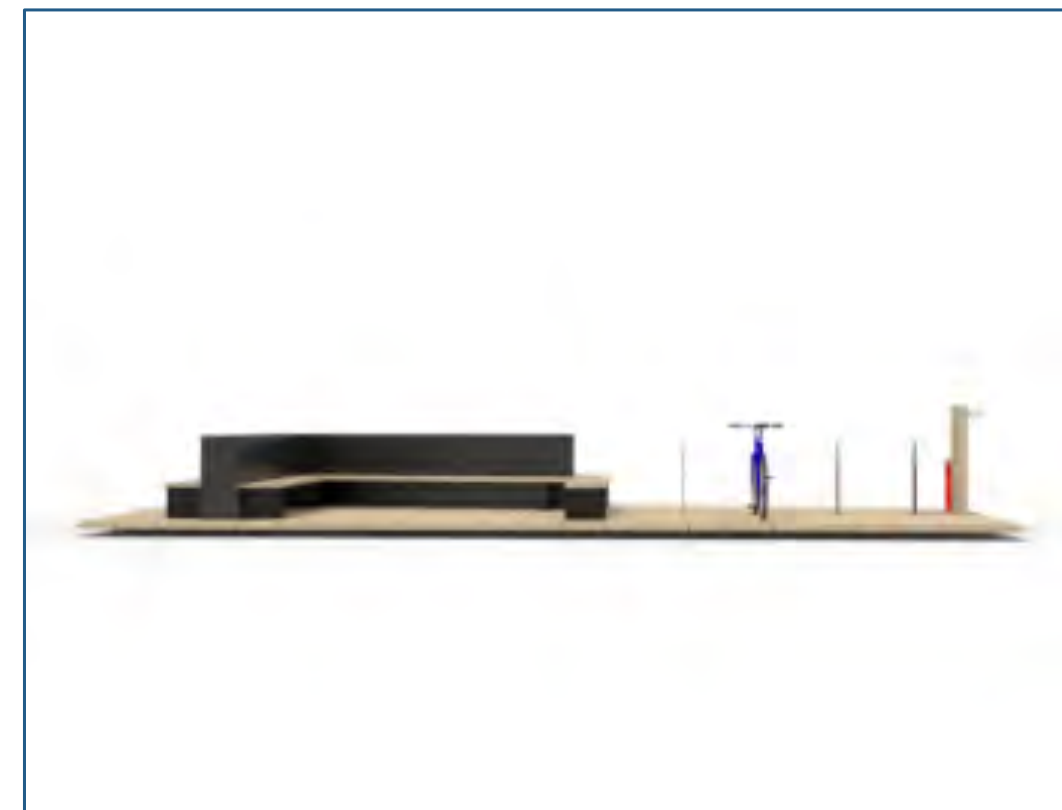
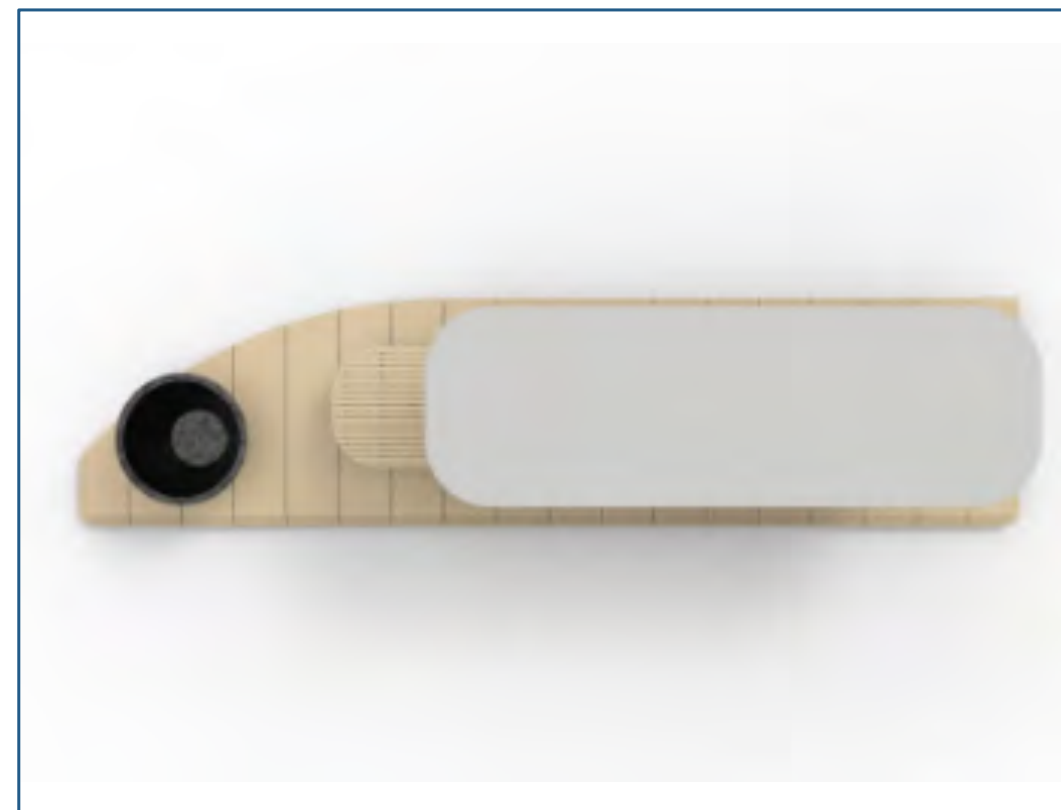
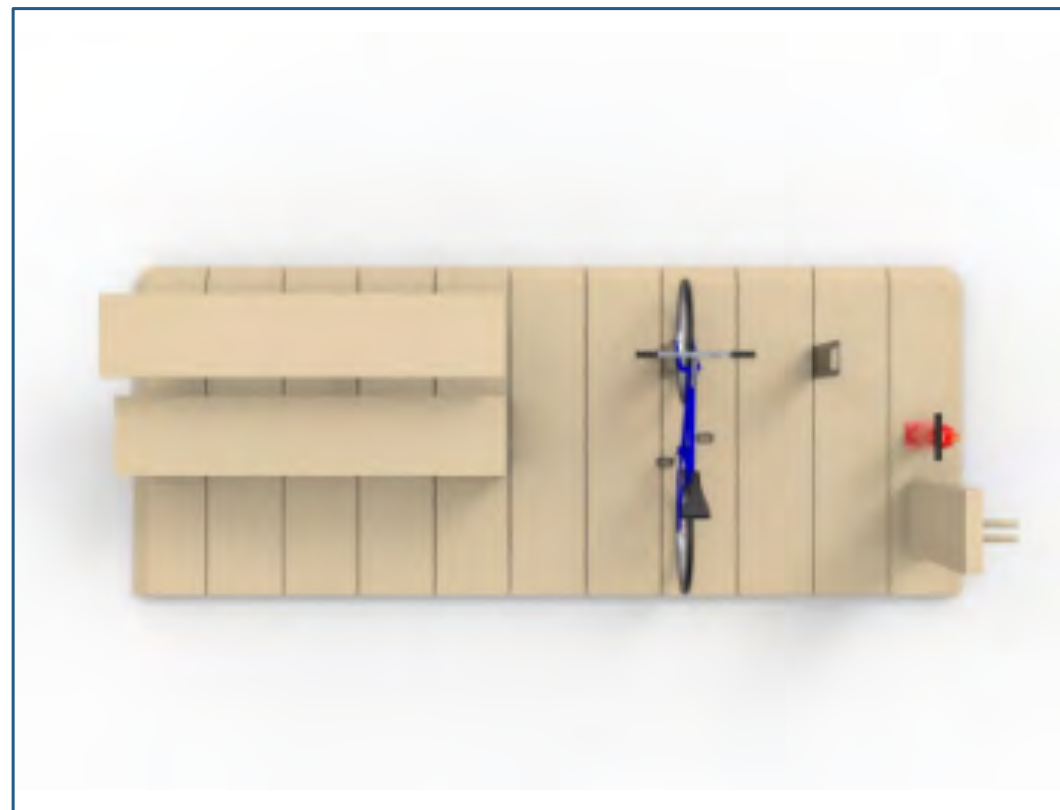
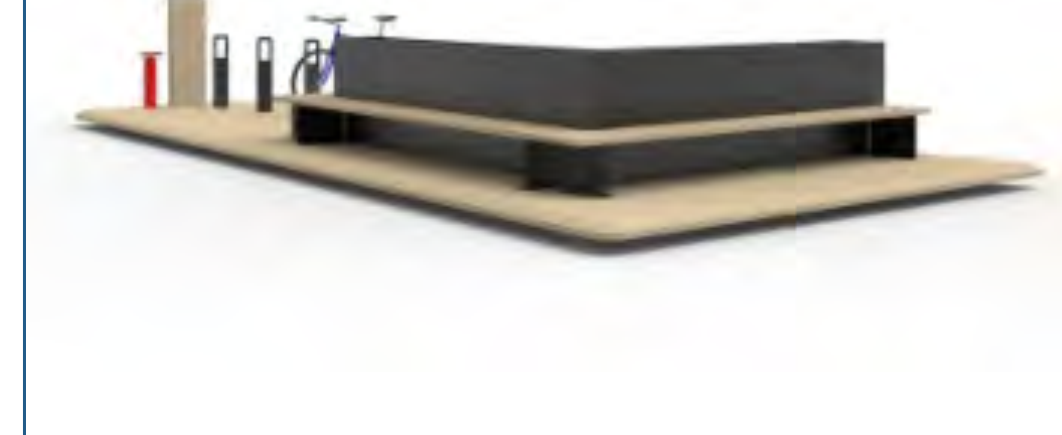
Design workshop

System in the room



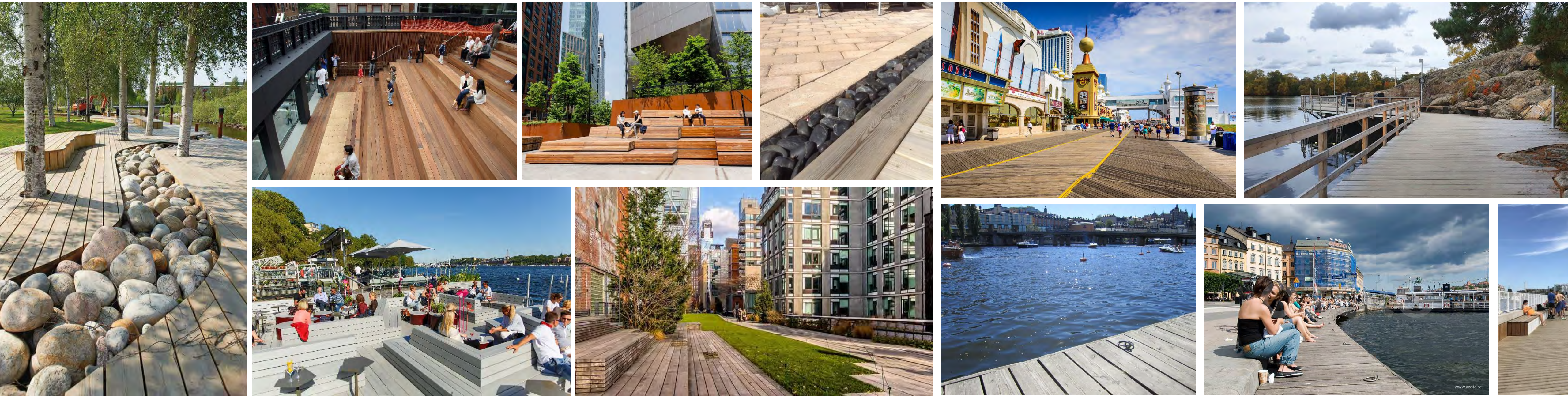
Participative design
Levandegator





Prototyping systems as a portfolio

Urban boardwalk prototype





The project uses a strategic approach to collaboration, regulation, policy-making and delivery, ensuring it can scale.

Place layers	In the Street mission	Place-based collaborators
Physical and digital experiences	Physical, digital, and social interventions in streets in Stockholm, Helsingborg, and Umeå, within a wider network of nine municipalities coordinated by Viable Cities.	Stockholms stad Trafikkontoret and Miljö departments; Helsingborg stad; Umeå stad; Stockholm Region planning and health departments; Voi; Volvo M; Lundberg Design; Spacescape
System layers	In the Street mission	System collaborators
Skills and organisational cultures	Urban design/architecture; IoT, data science; user experience; micromobility, transport, and logistics; place-based governance; participative democracy; microeconomics; health and wellbeing; landscape design and biodiversity	ArkDes; Rådet för hållbara städer; Boverket; Voi; Volvo M; Lundberg Design; Spacescape; Stockholm Region
Standards and guidelines	Interoperable mobility standards, street furniture design guidelines, health and safety guidelines for micromobility, civic IoT privacy guidelines, street design guidelines and best practice	Municipal traffic departments in Stockholm, Helsingborg and Umeå; Stockholm Region; Trafikverket; Voi; Volvo M; Lundberg Design; Spacescape; RISE
Data and code	Micromobility data standards; Real-time kerbside management systems; ‘digital twins’; Internet of Things kits; environmental sensor data standards; footfall measurement standards	Stockholms stad; Helsingborg stad; Umeå stad; Stockholm Region; SKR; Voi; Volvo M; Ericsson R&D; Vinnova; RISE
Financing	New value models, with ‘total value budgeting’ based on public health and wellbeing savings, environmental benefits, maintenance benefits; place-based system demonstrator innovation funding	Vinnova; Stockholm Region; Climate-KIC
Policy	Parking space policy; street planning policy; local real estate policy; participative design and planning policy; smart city policy; arts and culture policy; licensing policies	ArkDes; Rådet för hållbara städer; Boverket; Climate-KIC; Viable Cities; Vinnova; RISE; Stockholm Region
Law	Parking space law, traffic speed limits, vehicle definitions, municipal and regional governance and financing law	Transportstyrelsen (national regulatory authority)





Who
decides?



The street, conceived in this way, more than a space in which to represent ritualised routines, is a place in which new forms of the social and the political can appear.

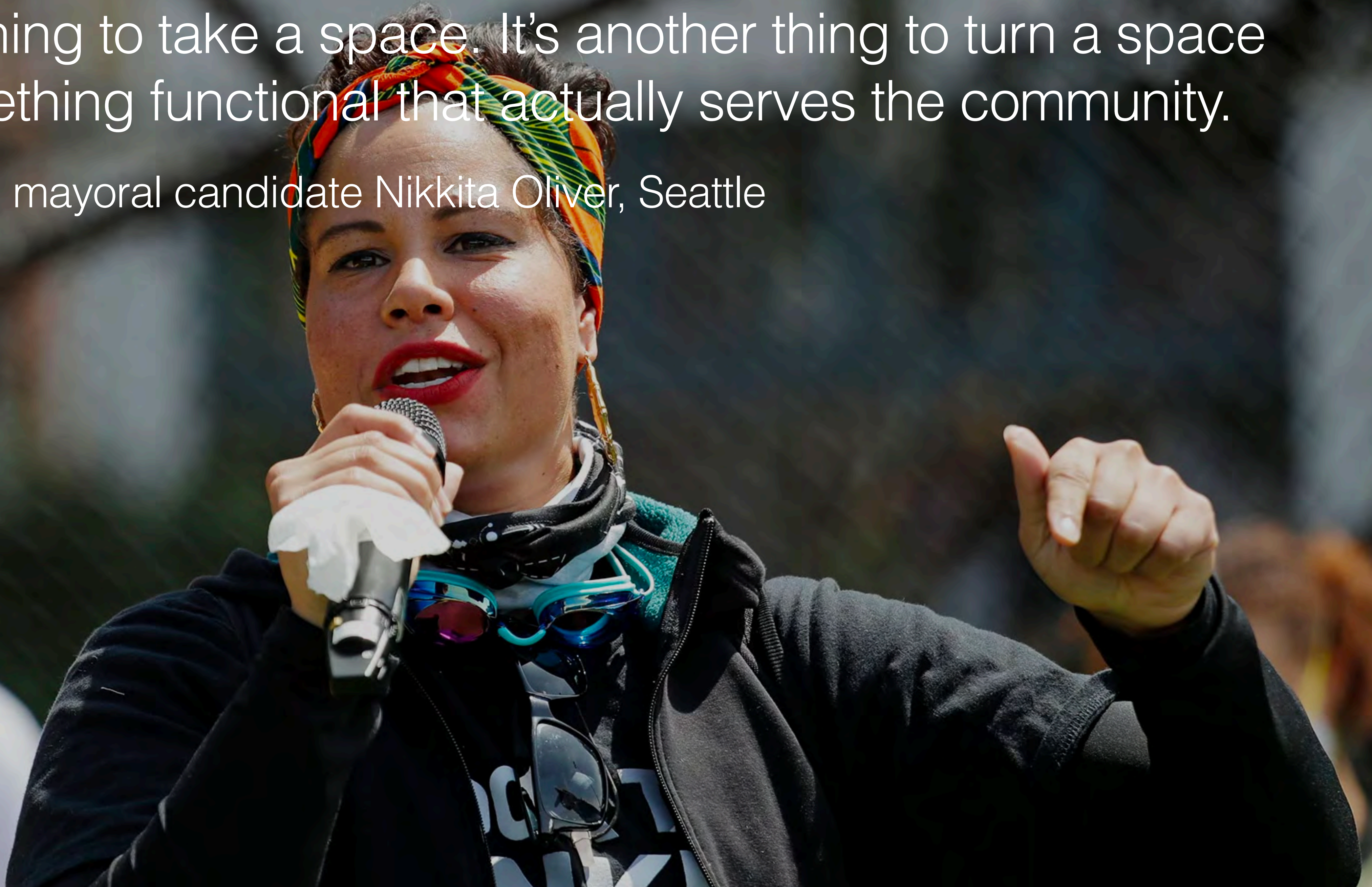
Saskia Sassen



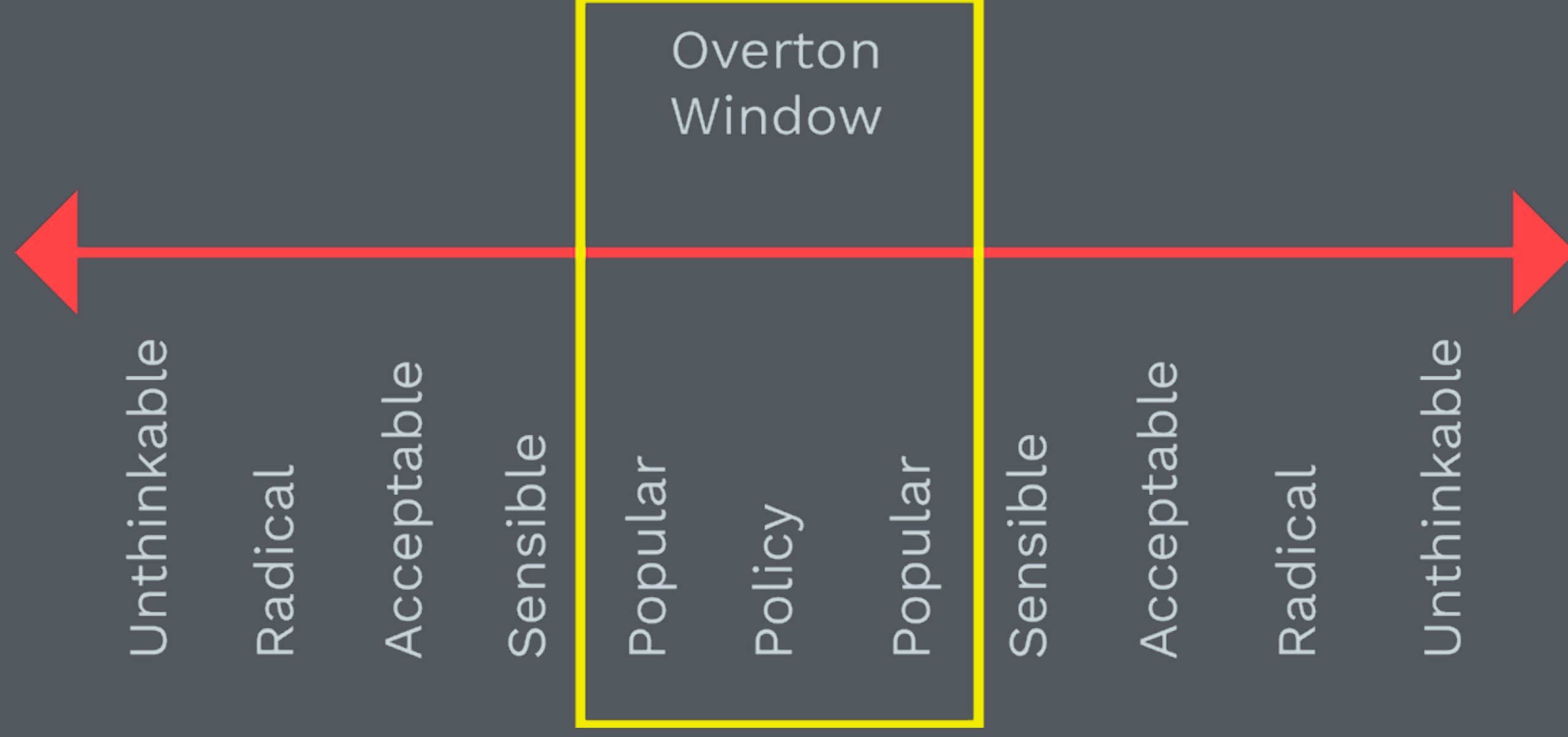
BLACK LIVES MATTER

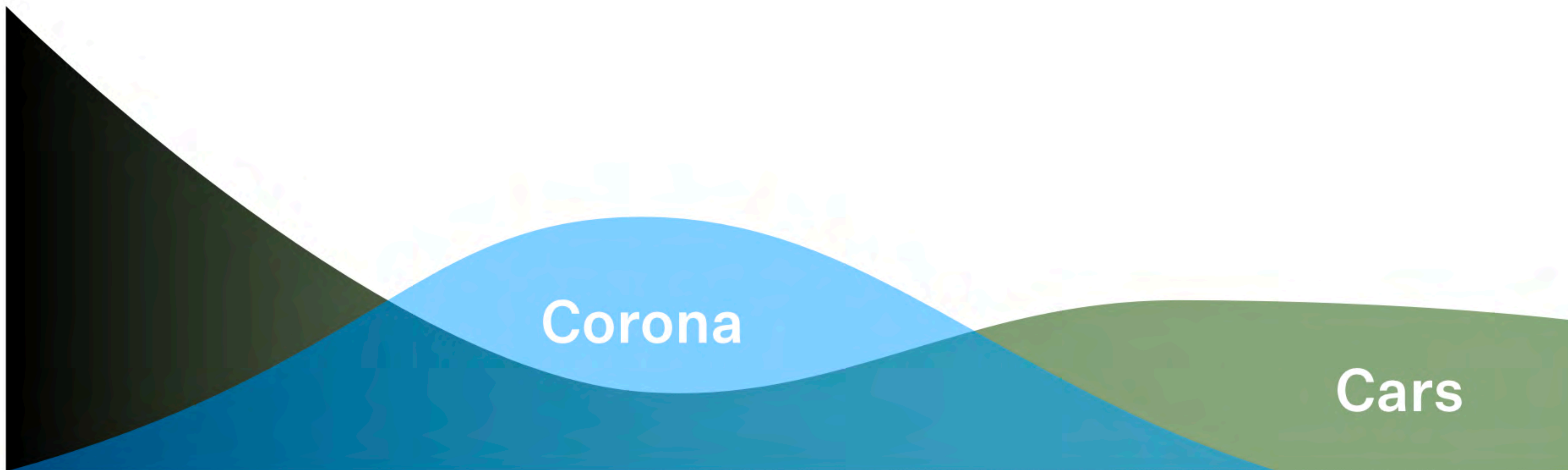
It's one thing to take a space. It's another thing to turn a space into something functional that actually serves the community.

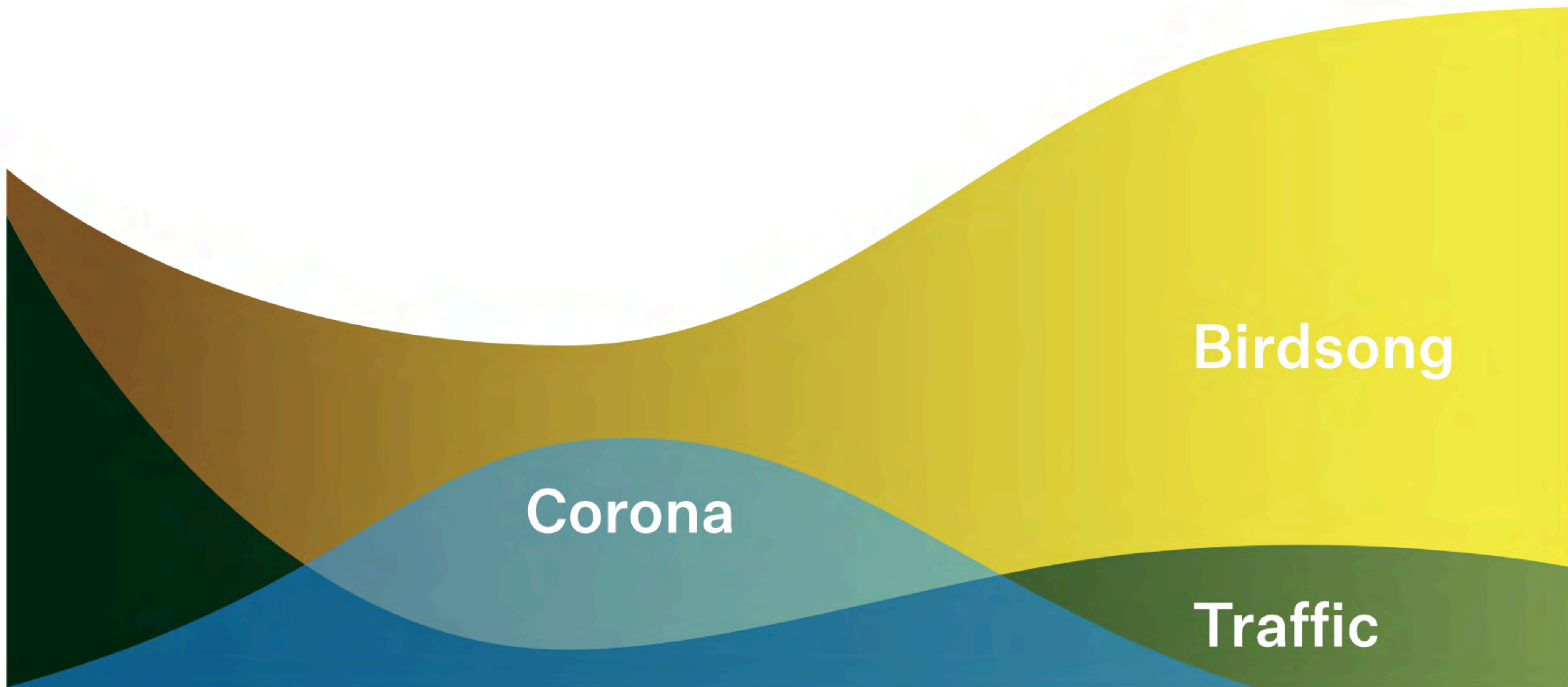
Activist and mayoral candidate Nikkita Oliver, Seattle







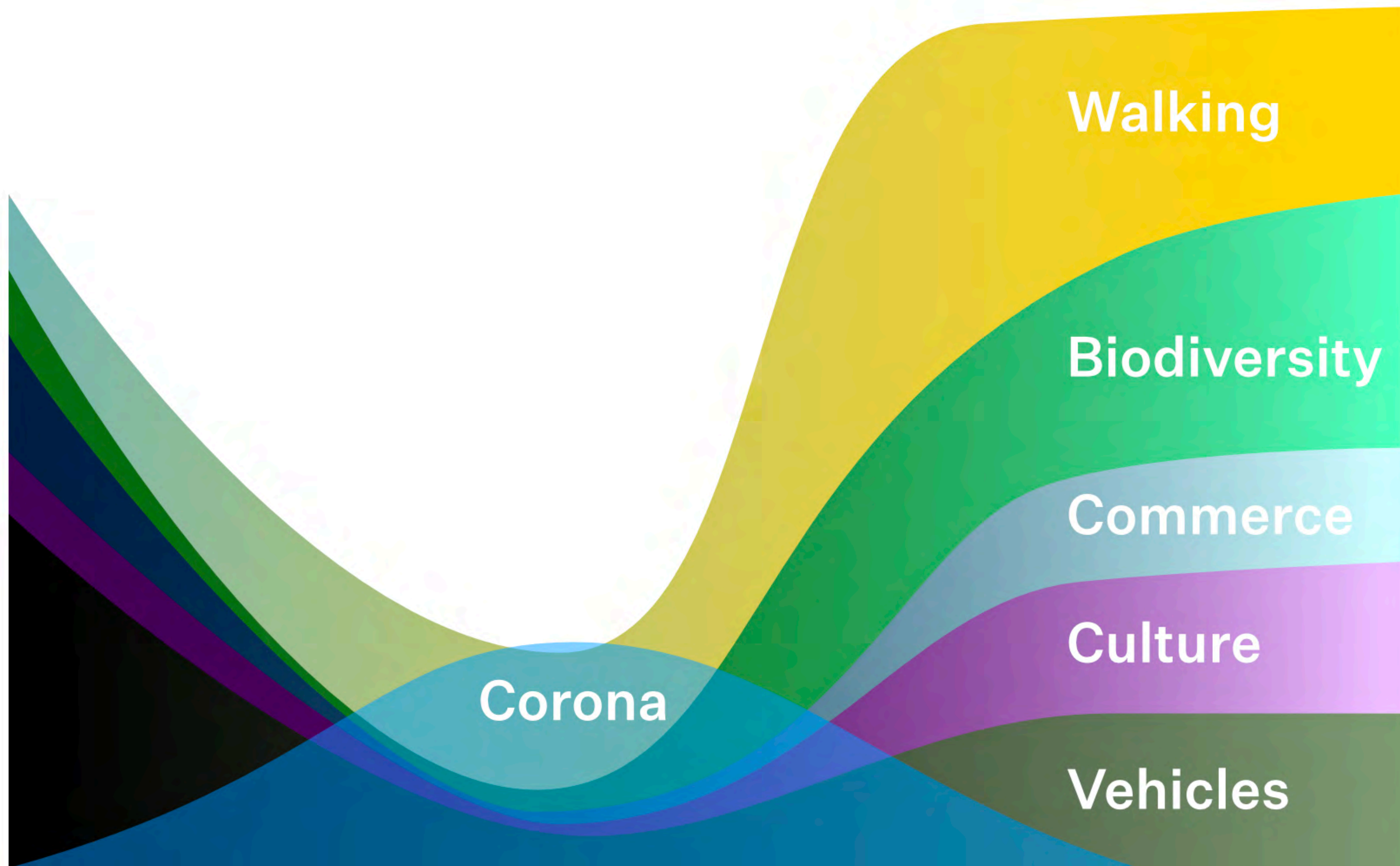




Corona

Birdsong

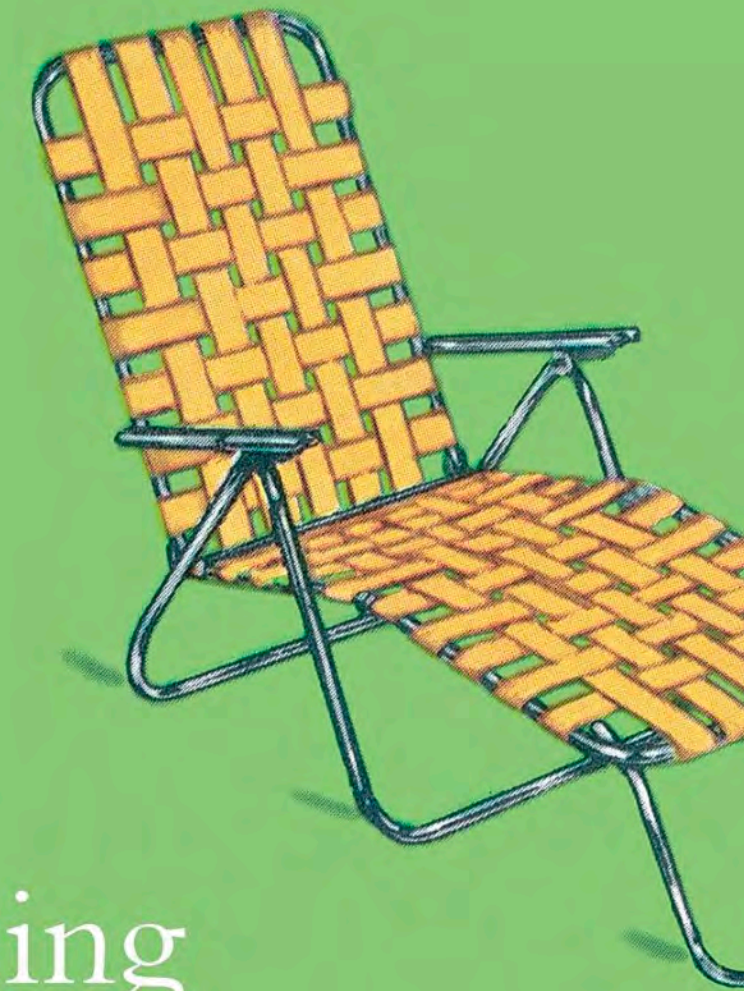
Traffic



'Slowdown',
Danny Dorling
(2020)

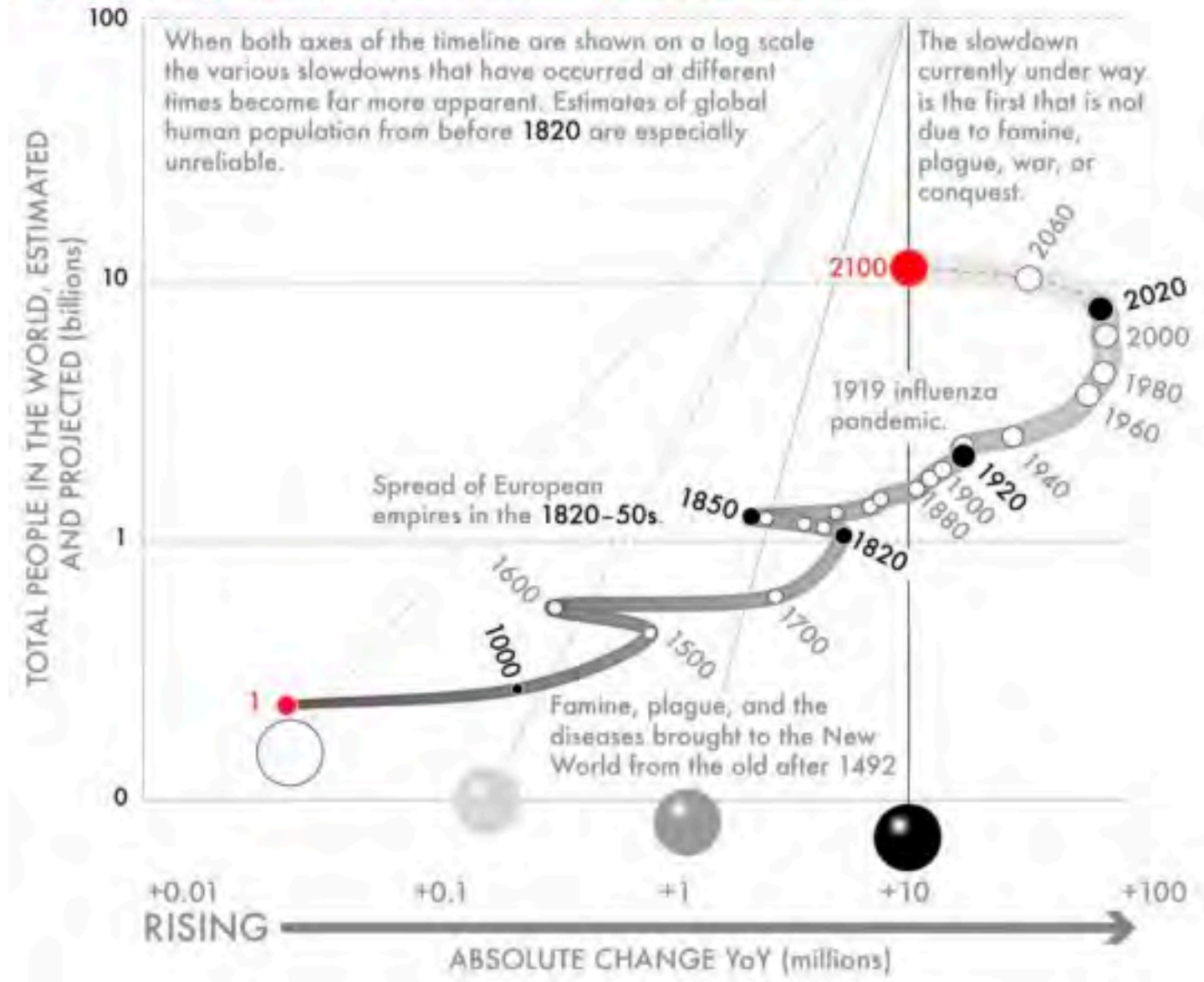
Slowdown

The End *of the*
Great Acceleration—
and Why It's Good *for*
the Planet, *the* Economy,
and Our Lives

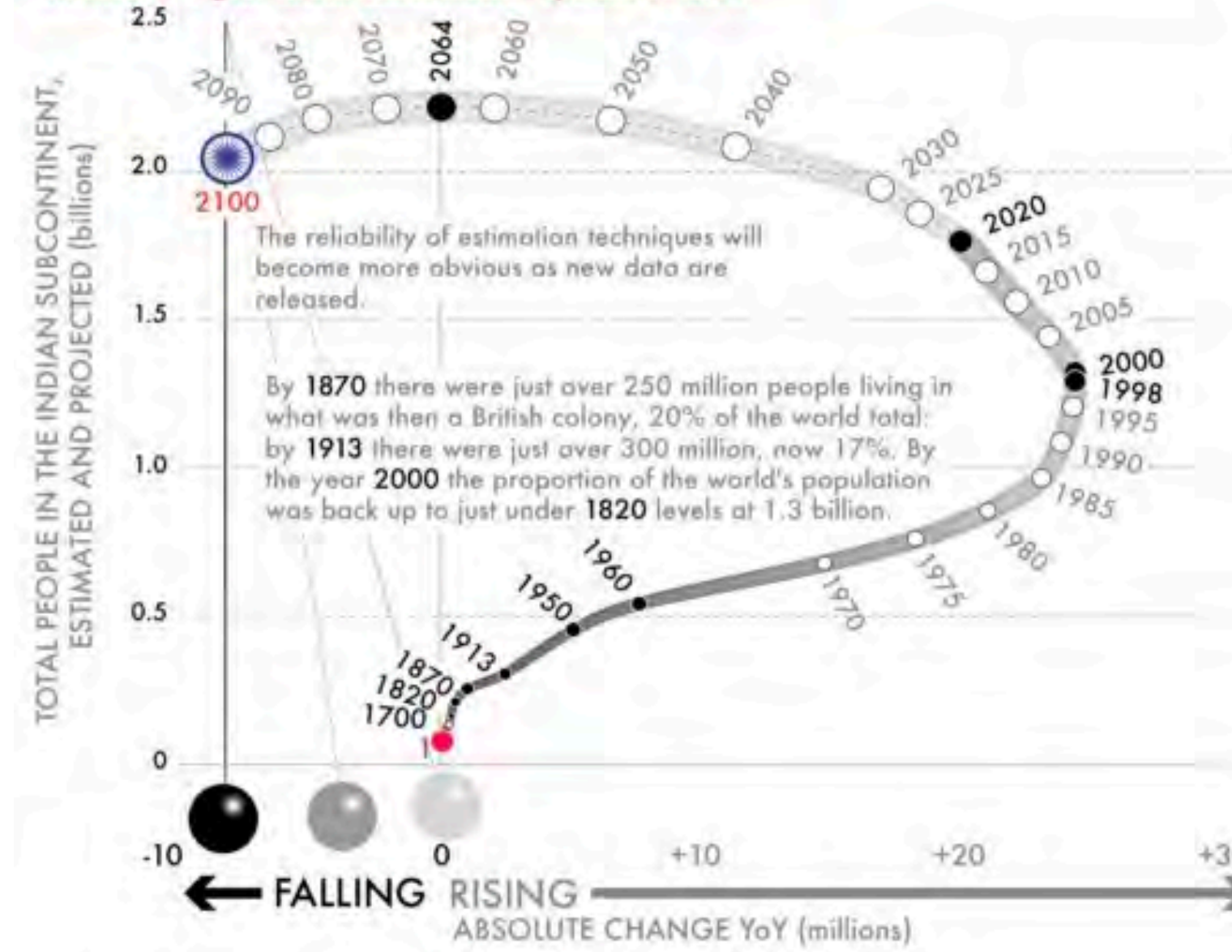


Danny Dorling

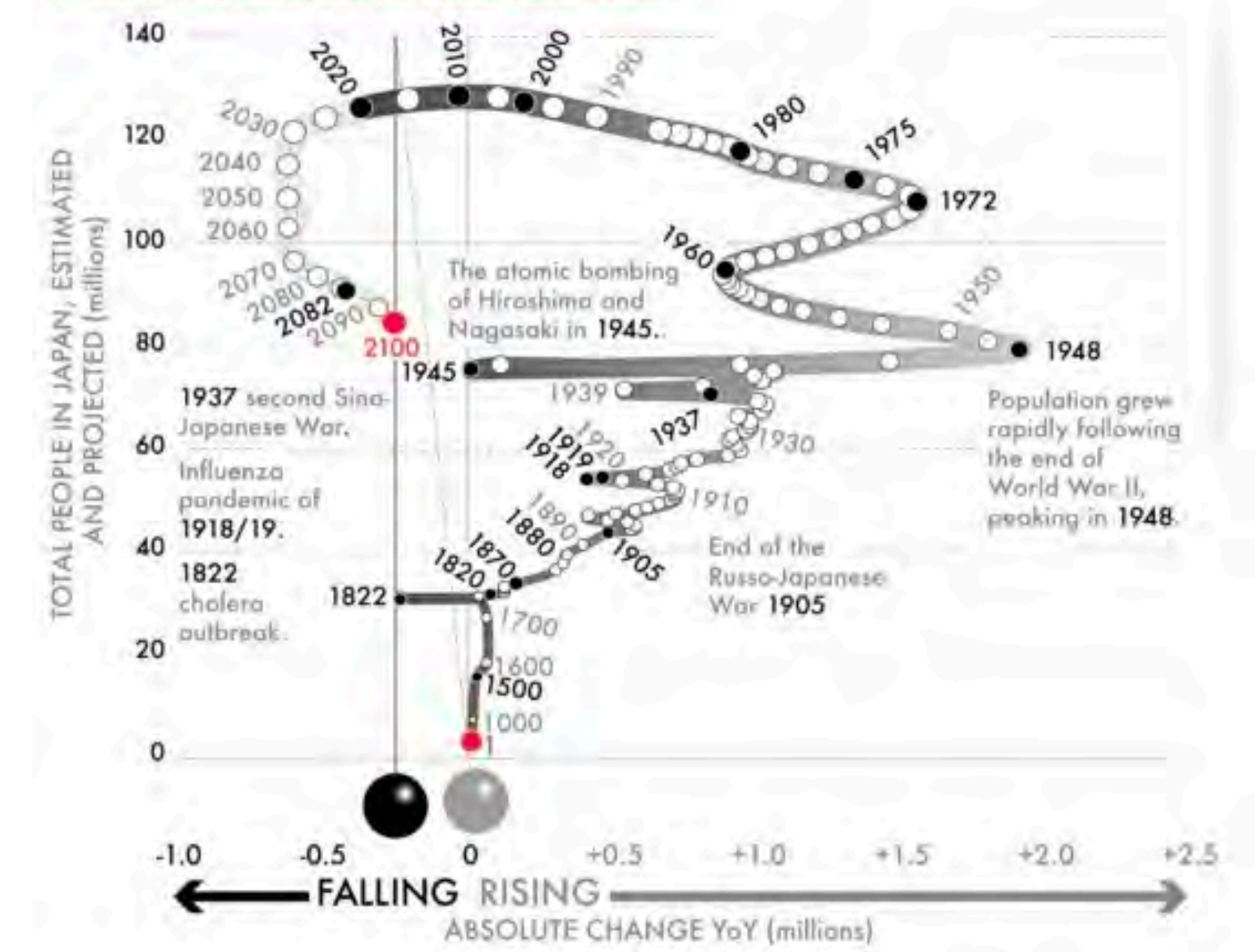
"Slowdown" Fig 22 World Population (vertical log scale) Year 1-2100



"Slowdown" Fig 27 Indian Subcontinent Population 1-2100



"Slowdown" Fig 28 Japanese Population year 1-2100



Population projections investigate how the Canadian population might evolve in the years ahead. Statistics Canada publishes several scenarios to highlight the uncertain nature of population projections, making it clear that the future is not yet defined.

Readers can now access the publications *Population Projections for Canada (2018 to 2068)*, *Provinces and Territories (2018 to 2043)*, *Population Projections for Canada (2018 to 2068)*, *Provinces and Territories (2018 to 2043): Technical Report on Methodology and Assumptions*, as well as the new infographic "What will the population of Canada look like in 2068?"

55 million Canadians by 2068?

While the populations of many developed countries are expected to decrease, Canada's population is projected to grow over the next 50 years, largely because of strong immigration.

Population growth, however, is likely to vary across the country, with the population of some provinces and territories increasing and others decreasing. As a result, the provinces and territories may experience diverse opportunities and challenges over the coming decades.

The Canadian population has grown substantially in recent years, increasing from 30.7 million people in 2000 to 37.1 million in 2018.

The projections show that growth would continue in Canada over the next 50 years, and that the population could reach between 44.4 million and 70.2 million inhabitants by 2068. In the medium-growth scenario, the Canadian population would grow from 37.1 million inhabitants in 2018 to 55.2 million by 2068.

According to the low- and medium-growth scenarios, the rate of population growth would slow in the coming years, owing mainly to an increasing number of deaths relative to births. The expected increase in the number of deaths is mainly related to population aging.

In all scenarios, immigration would remain the key driver of population growth over the next 50 years, as has been the case since the early 1990s.

Increasing share of people aged 65 and older, decreasing share of the working-age population

According to all scenarios, Canada's population would continue to become older in the coming years at both the national and the

World population in 2100 could be 2 billion below UN forecasts, study suggests

Changes in population structure due to improving equality and ageing societies will pose policy dilemmas

Fiona Harvey

Wed 15 Jul 2020 14.45 BST



608



▲ In Nigeria, the working age population is forecast to increase from 86 million in 2017 to 460 million in 2100. Photograph: Oluwadamilola Ogunsina/Alamy

Global population growth may peak sooner than expected if the lot of women continues to improve, according to a study that says the world's population could be 2 billion below UN forecasts by the end of the century.

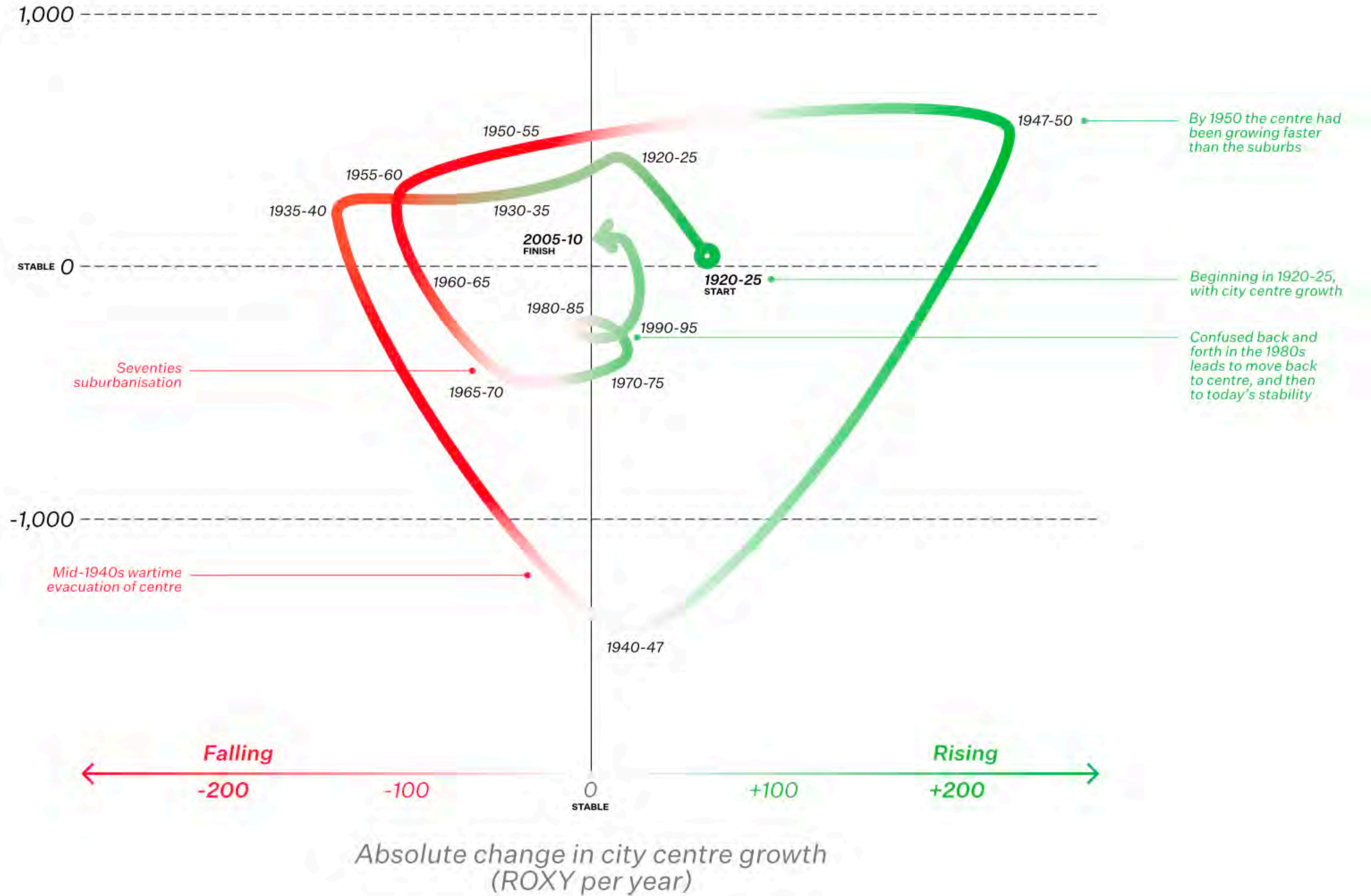
Such a fall would remove some of the **projected strain on natural resources** but would present governments with stark policy choices over migration and the economy.

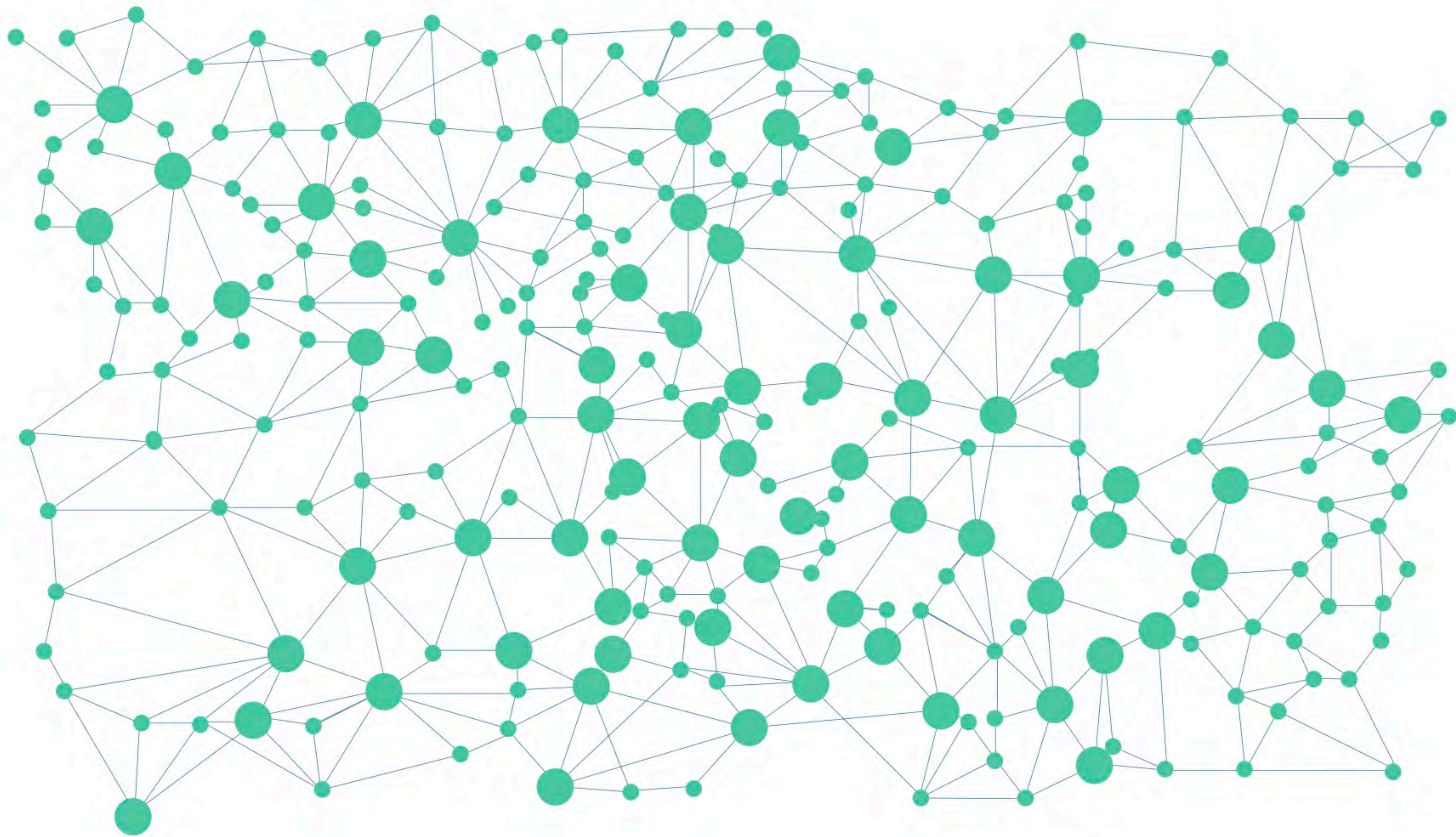
The world's population will peak at 9.7 billion in 2064 and decline to 8.8 billion by the end of the century, according to research led by the University

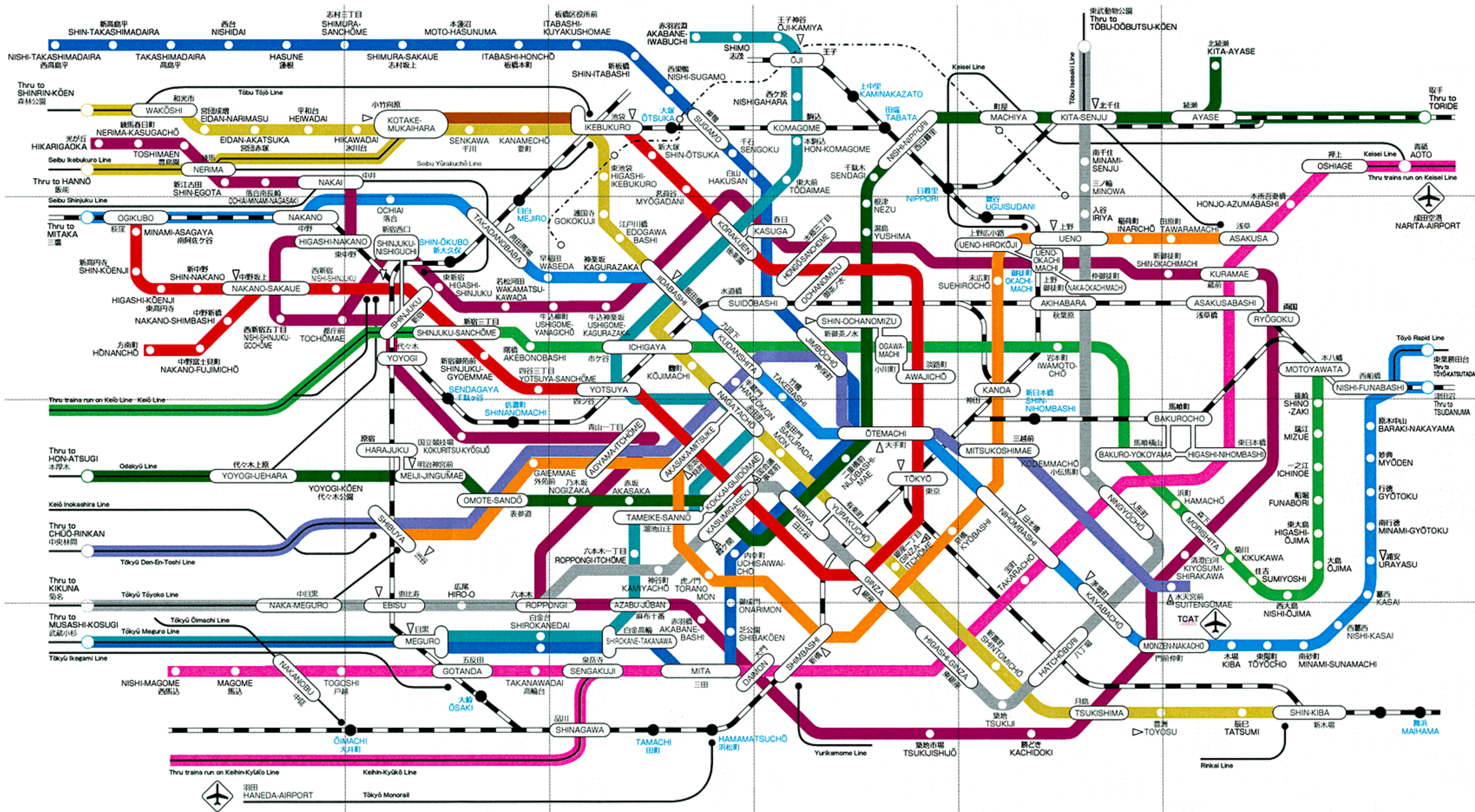
Tokyo is small and slow.

Tokyo population and suburban growth 1920-2010

Rise in population in central Tokyo compared to suburban growth (ROXY)













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The 1-minute City

The street

Massive re-emphasis on regenerative landscape, on conviviality and culture, on shared ownership, on true participation, on adaptation and repair.

The Slowdown

A glimpse of a future

A transition centred on climate resilience, human and non-human health, and social justice.

These are all the same thing.

The failure—or at least the postponement—of the grand is also the survival of the ordinary and the everyday; the survival of citizens over cities; of **infrastructures of everyday dignity** over big, signature, spectacular projects; of incremental change over instantaneous transformation; of the bazaar over the mall, the shared auto over the expressway, survival over smartness.

Gautam Bhan, India Times, 2017



From making the city to using the city. Designing infrastructures of everyday dignity, of everyday complexity.

Dan Hill

Director of Strategic Design, Vinnova, Sweden

Visiting Professor, UCL Institute for Innovation and Public Purpose

Visiting Professor, Design Academy Eindhoven

Adjunct Professor, RMIT University

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