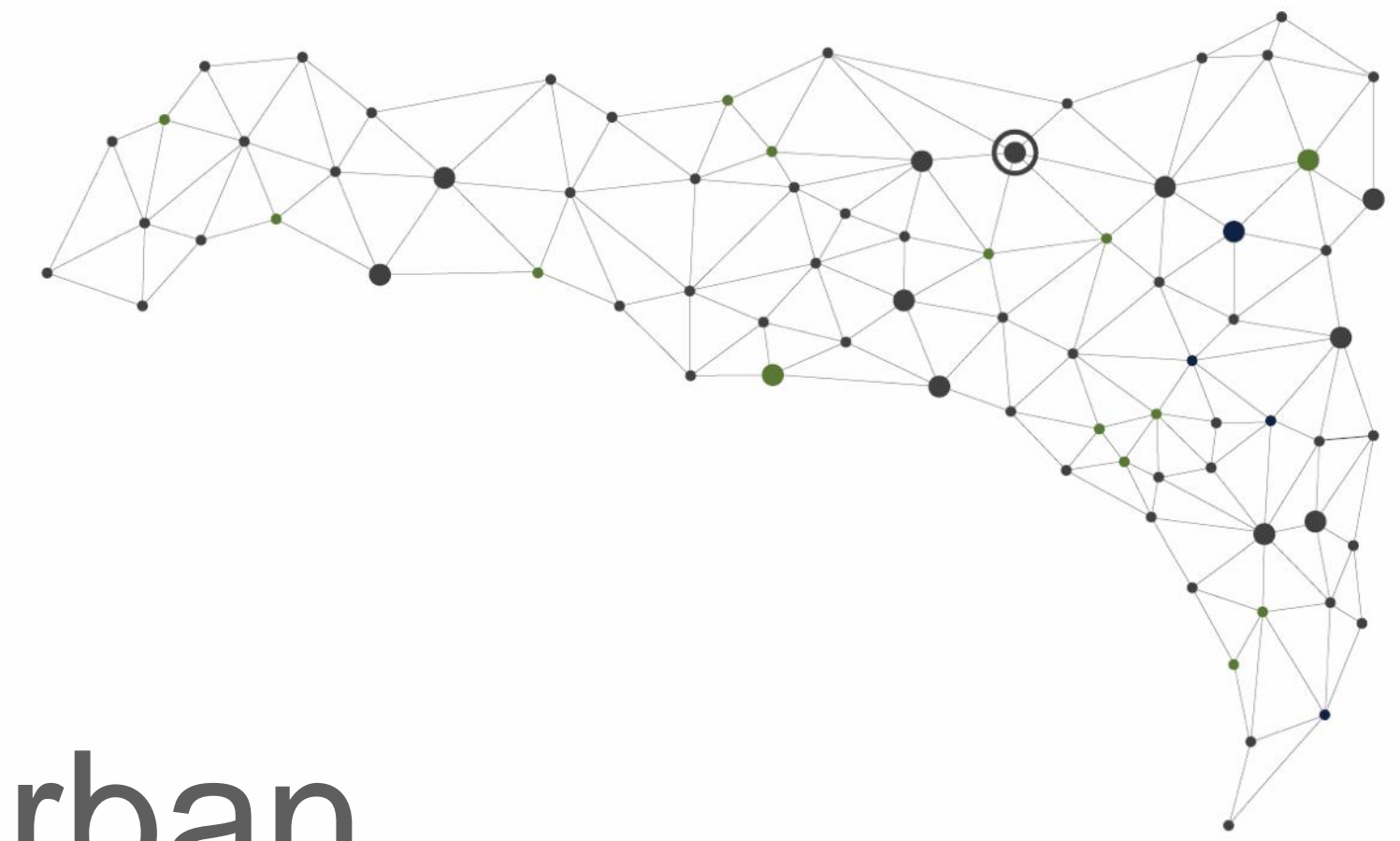


Virtual Global Exchange

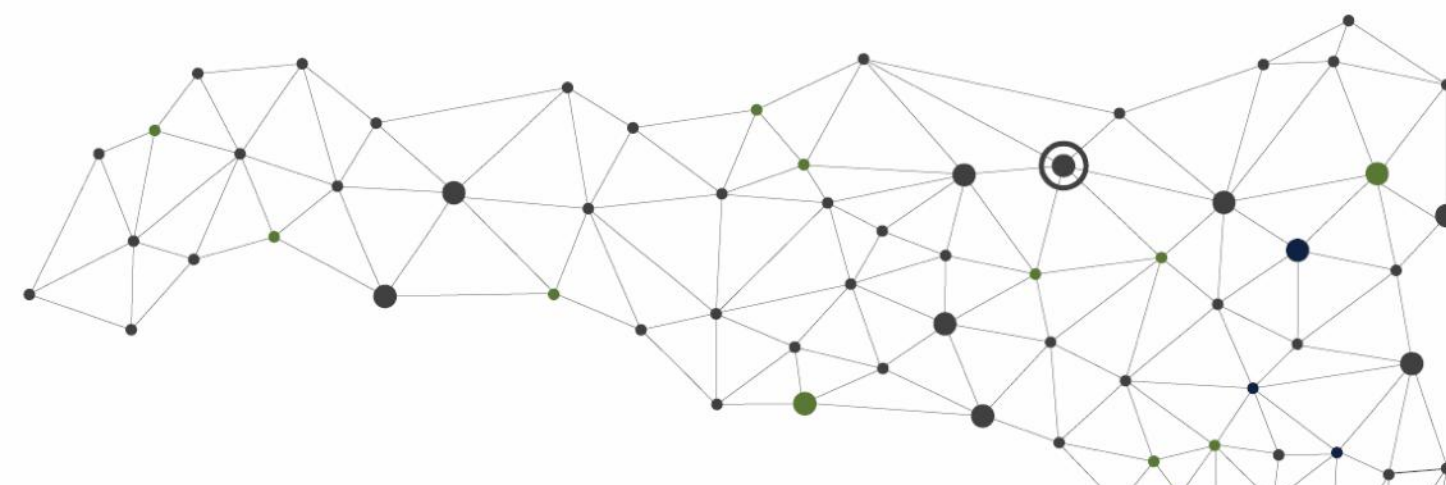
Municipal Response to **COVID-19**

NOV - DEC
23rd 3rd



COVID-19 – a chance for urban green recovery?

Moderated by Elke Schimmel and Kristian Kampfer

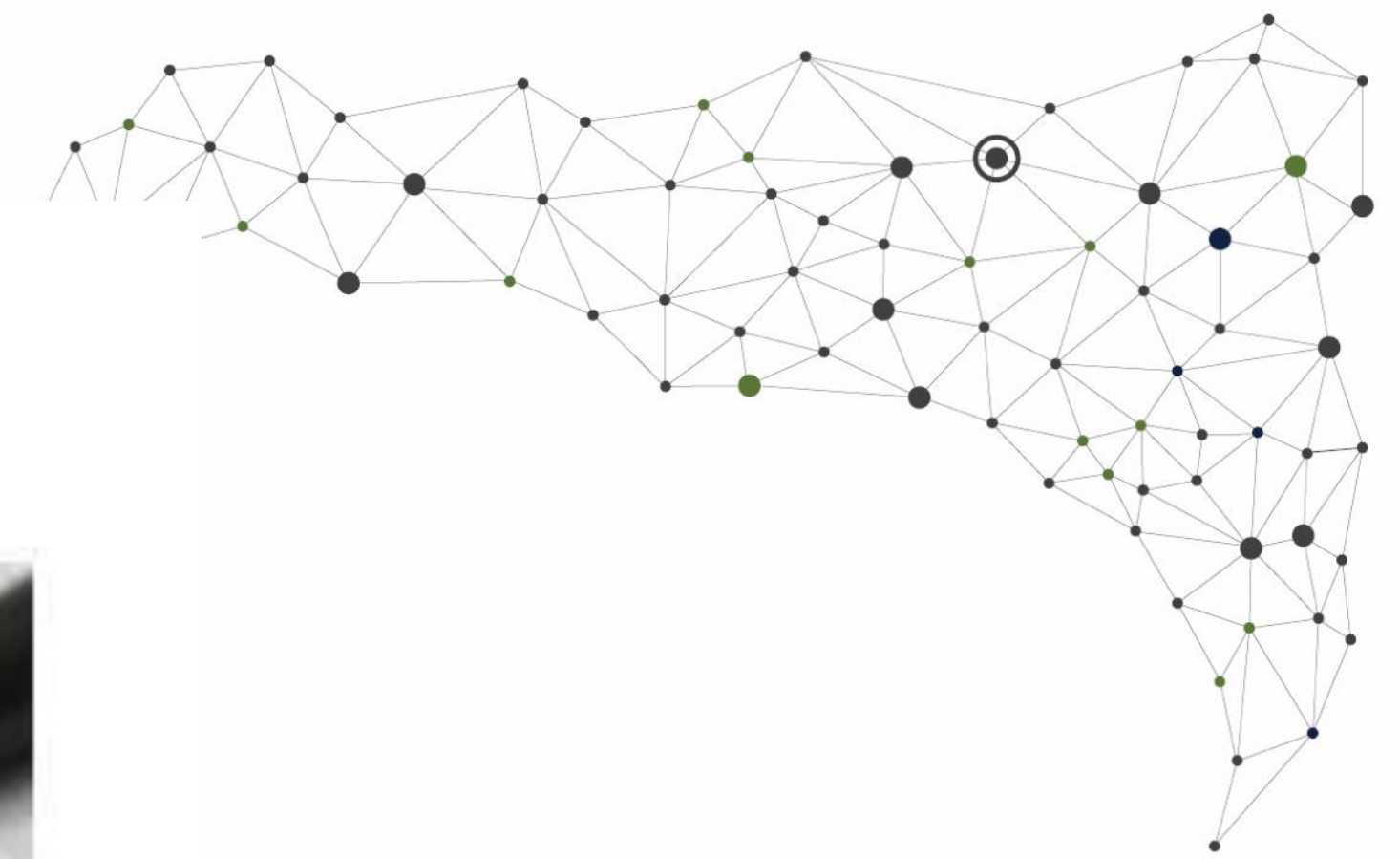


Where are you from?



- A: Asia**
- B: Africa**
- C: Europe**
- D: North America**
- E: South America**
- F: Australia/Oceania**
- G: Antarctica**

In which capacity are you here today?



**A: Municipality/
Public Administration**



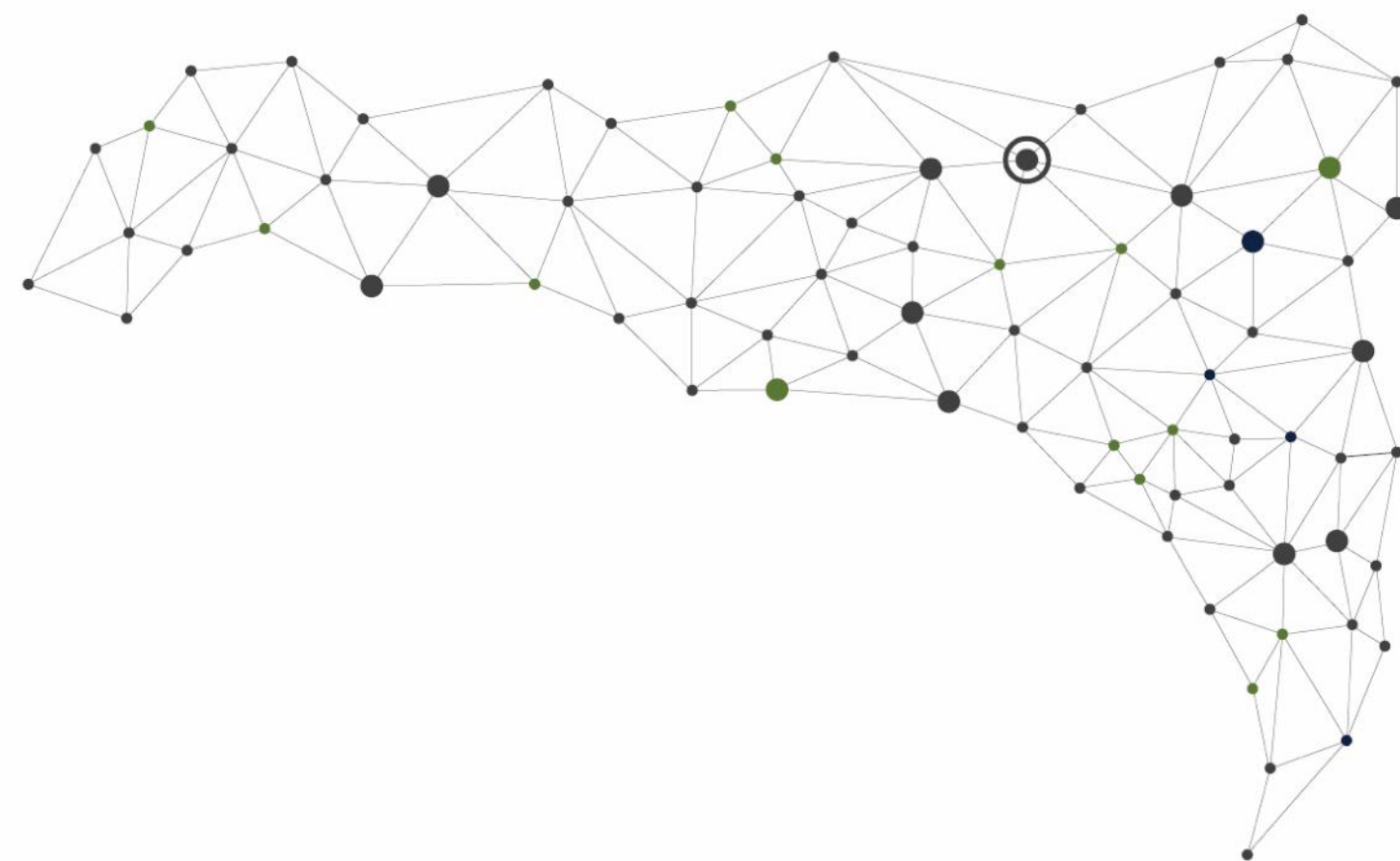
B: Free Economy



C: Civil Society

Agenda

FRIDAY, 27 NOVEMBER 2020 – 10 am – 12 pm (CET)		
Time (CET)	Agenda	Speaker
10.00 - 10.10	Welcome, Introduction, Who is who	Moderator and Co-Moderator
10.10 - 10.30	Good practice 1 : How Corona is giving the Plan Maestro de Infraestructura Verde (PMIV) a considerable boost	Maritza Hernández Solís, Mexico City
10.30 - 10.40	Q&A	Moderator and Speaker 1
10.40 - 11.00	Good practice 2 : The impact of Covid-19 on public space and Vienna's answers to the current challenges	Martina Frühwirth, Vienna, Austria
11.00 - 11.10	Q&A	Moderator and Speaker 2
11.10 - 11.20	Energizer	Co-Moderator
11.20 - 11.40	Good practice 3 : Glasgow's Avenue Strategy and the role of beauty in public spaces	Jamie Shields and Paola Pasino, Glasgow, UK
11.40 - 11.50	Q&A	Moderator and Speaker 3
11.50 - 12.00	Final statements, closure, goodbye	Moderator and Co-Moderator



Speaker 1

Covid -19 and the future of cities

Green infrastructure

**FUTURE BUILDING
FOR OUR CITY
OUR HOME**



GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA

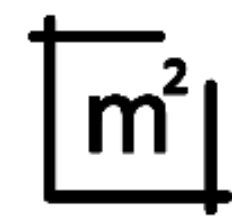
Together with **several** peripheral municipalities, it constitutes one of the **largest cities in the world**, and is home to over **22 million inhabitants**.



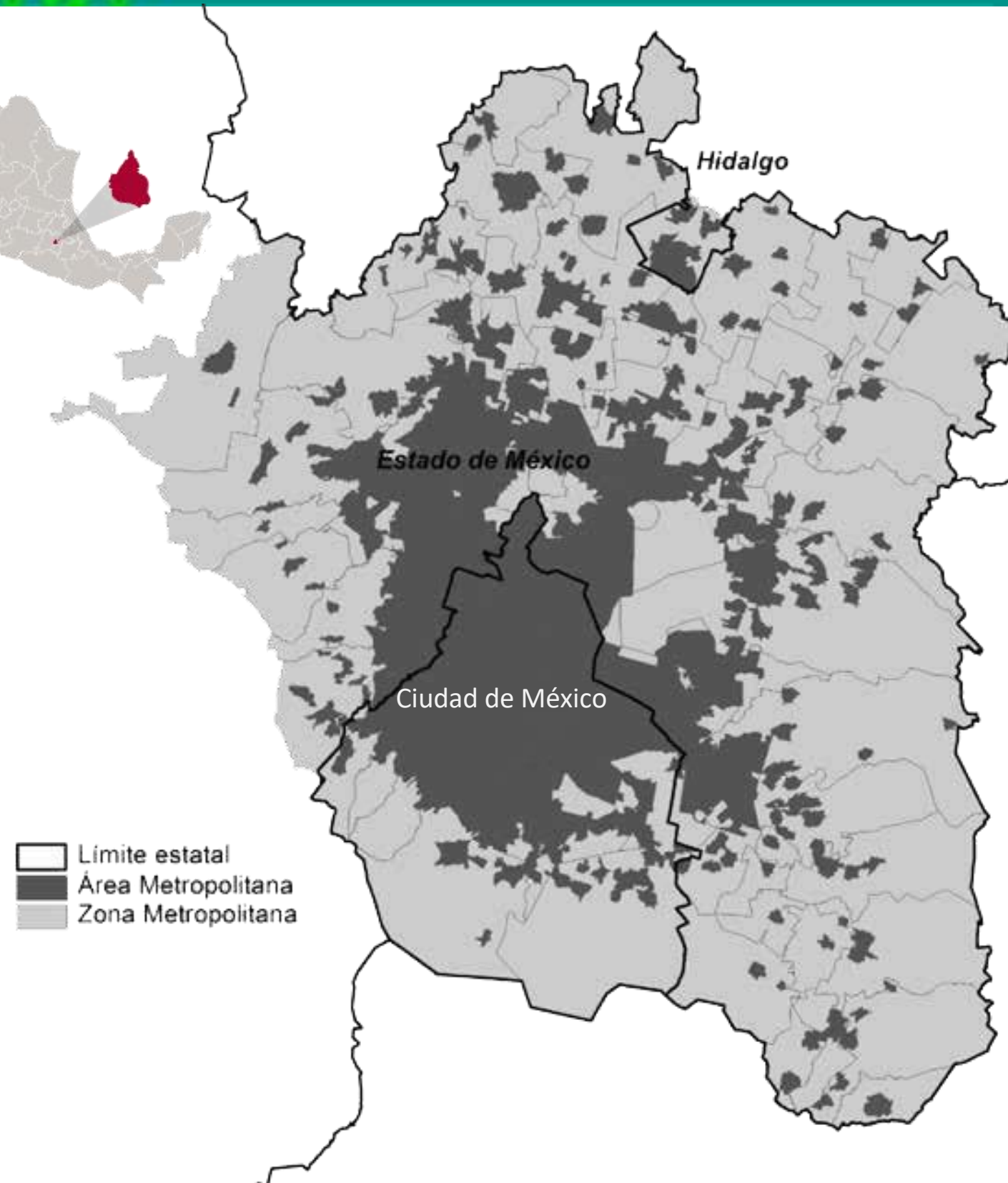
8.9 million inhabitants

The city with the highest population density in the country:

5,996 hab/km²



1,486 km²



It sits on one of the Valley of Mexico's four basins.

A few centuries ago **a fragment of its territory** was settled upon a **lake system**





Santa Fe, Cuajimalpa, Mexico City




Irregular settlements, Álvaro Obregón, Mexico City

CAUSES	CONSEQUENCES
Inappropriate / lack of urban planning	Territorial inequality
Urban sprawl	<ul style="list-style-type: none">• Loss of biodiversity and ecosystems.• Presence of invasive species.• Loss of productive agricultural areas.• Steep slope soil erosion.• Soil nutrient decline.• Air, water and soil pollution.• Fragmented green areas.• Overexploited aquifers.• Groundwater depletion.• Loss of groundwater discharge areas for the replenishment of aquifers.• Increasing floods
Irregular settlements	
Deforestation	
Illegal extraction from protected areas	
Wildland fires	
Inappropriate residue management	

LOSS OF ENVIRONMENTAL SERVICES



Greater vulnerability to the effects of climate change:

- 
- 1. Increasing heat islands
 - 2. Longer / increasingly frequent drought seasons
 - 3. Floods



UN-Habitat- COVID-19 and Public Space

- 01.** Public spaces are an important asset in a time of crisis –they need to be flexible, multi-functional and adaptable.
- 02.** Well-connected and integrated system of public spaces including streets .
- 03.** Expand the amount of land allocated to public space including streets.
- 04.** Embrace flexibility of functions – to be resilient in times of crisis, public spaces need to be multi-functional, flexible and continually adapt to the situation.
- 05.** Public space and public facilities can provide essential services required for marginalized communities during a pandemic
- 06.** For many, especially the poor, public space is important for their livelihoods.
- 07.** Public space can be a platform for sharing (connecting places and people)
- 08.** Equitably distribute public spaces across all scales.
- 09.** Plan for the self-sufficient neighbourhood or “15-minute compact city neighbourhood”
- 10** The design, materials used and management and maintenance of public space is key in fighting the spread of the Corona virus.
- 11** Build “social resilience” - The COVID-19 virus has both negative and positive impacts on how people interact with each other in public, and as part of a social fabric.



TROUBLESHOOTING

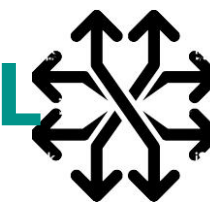
GREEN INFRAESTRUCTURE

Green Infraestructure *is a carefully researched and laid out network connecting several green and blue spaces, both natural and seminatural, present in both rural and urban settings. It's a milestone in urban development planning, and is key to:*

- Biodiversity conservation.
- Adaptation to and mitigation of the effects of climate change (carbon capture and storage, mitigation of the effects of heat islands).
- Risk management and reduction of flooding and overland flow.
- Increasing the amount and richness of green spaces.
- Restoration of modified natural spaces.

Characteristics of THE GREEN INFRASTRUCTURE NETWORK:

MULTI FUNCTIONAL



MULTIESCALA



DIVERSITY



RESILIENCE



Patrimonio Natural CDMX (Universo de estudio del PMIV-CDMX)

- Parques
- Arboledas
- Alamedas
- Plazas y jardines
- Equipamientos urbanos con vegetación
- Áreas verdes ligadas a la red vial
- Azoteas Verdes
- Áreas con categoría de protección*

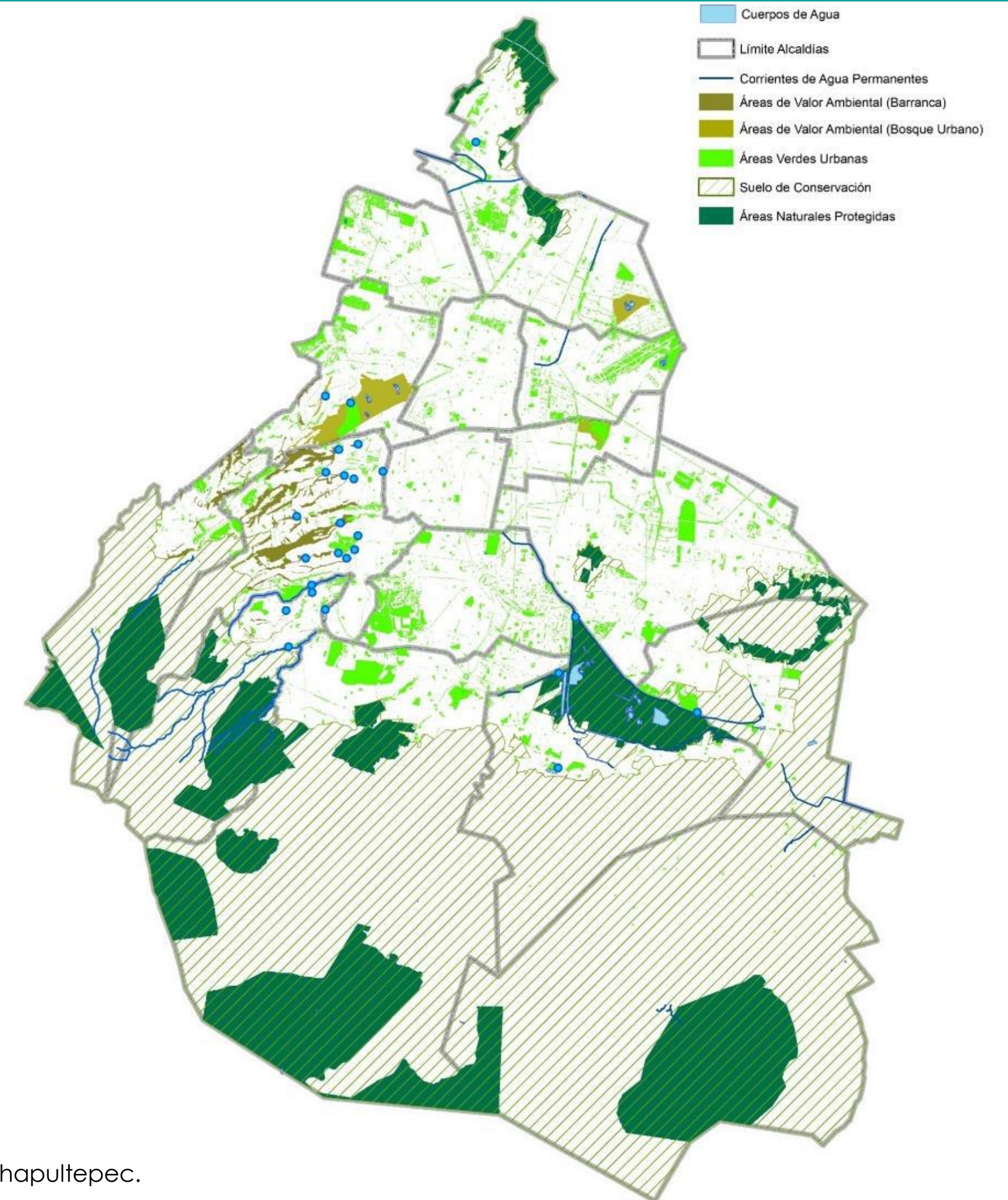
Áreas Verdes Urbanas
(Inventario de áreas verdes urbanas de
la CDMX, 2017)

- Áreas Naturales Protegidas
(Federales, Estatales y Comunitarias)
- Áreas de Valor Ambiental (Barrancas
y Bosques Urbanos)
- Suelo de Conservación

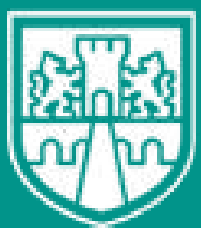
Espacios Naturales

- Ríos
- Humedales
- Canales
- Lagos (naturales y artificiales)
- Vasos reguladores

Cuerpos de agua



* Sólo considera algunos bosques urbanos y ANP en suelo urbano como el caso del bosque de Tlalpan y Bosque de Chapultepec.



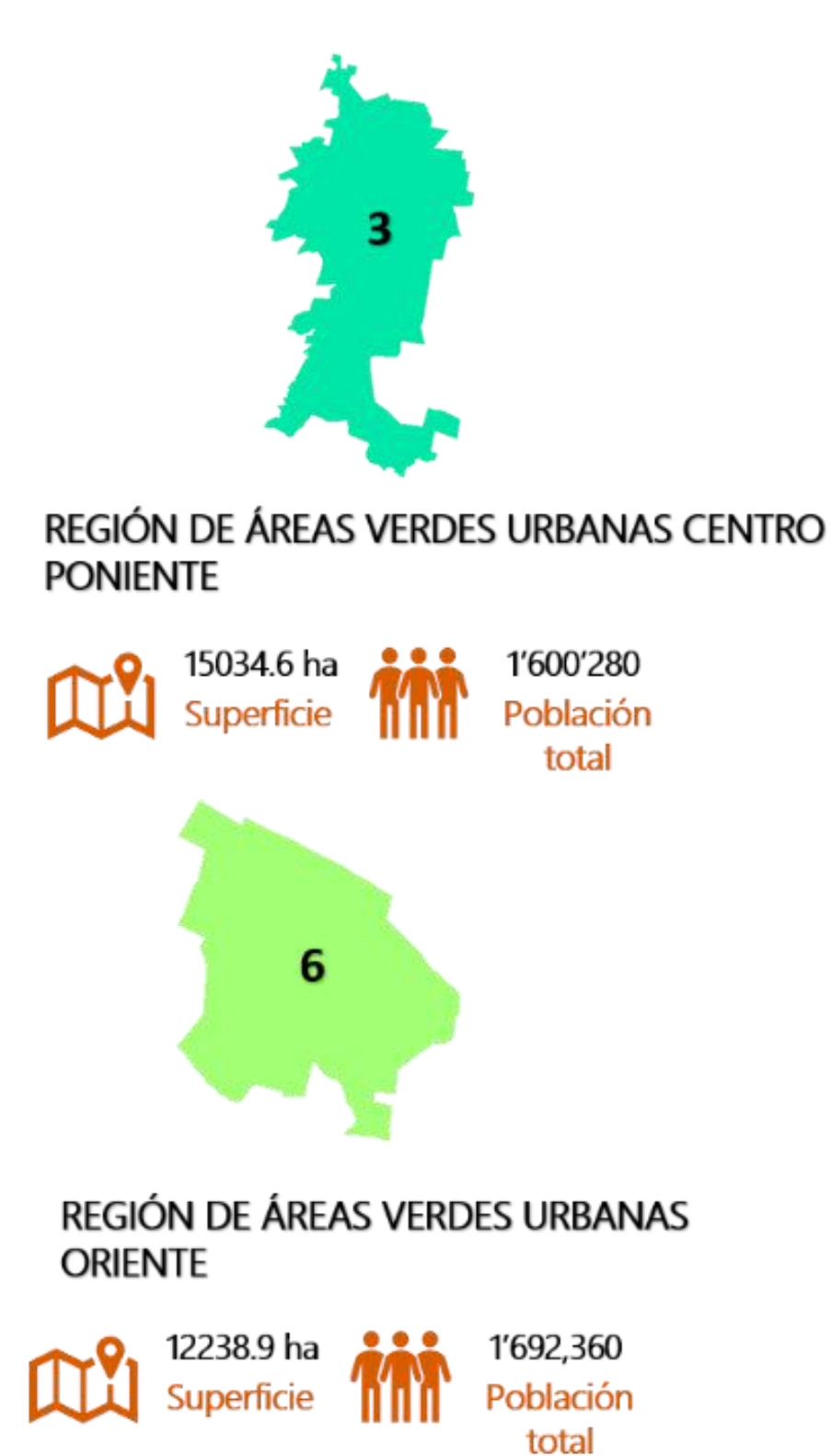
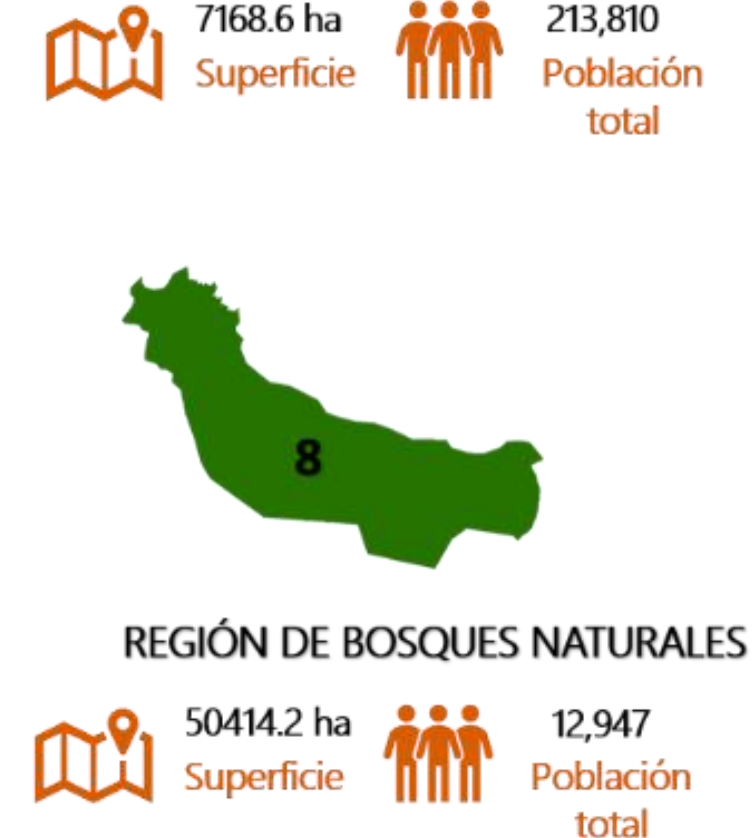
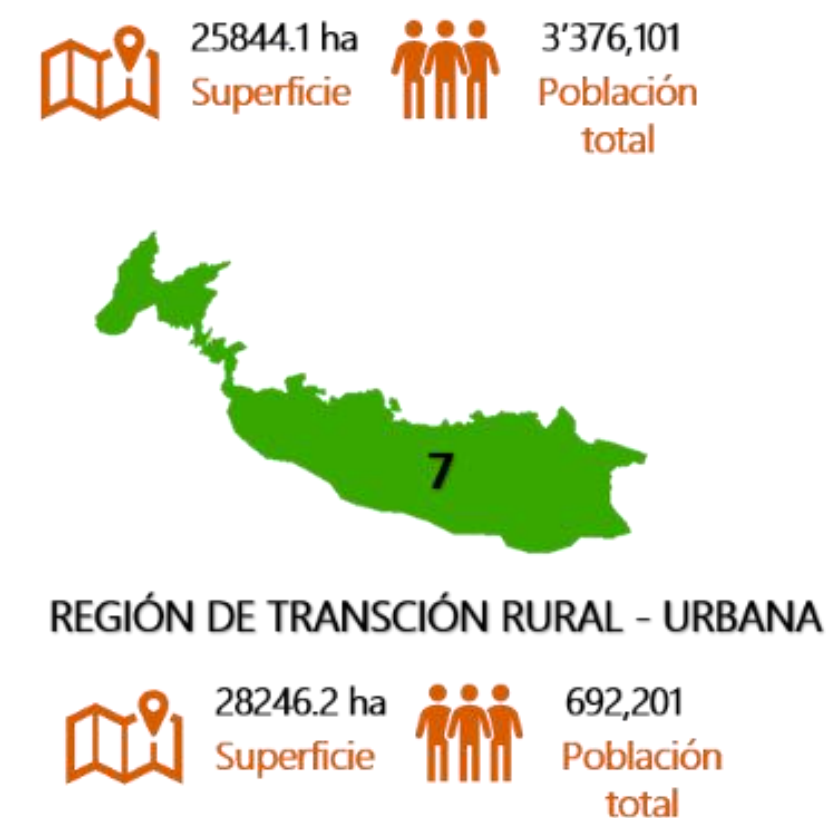
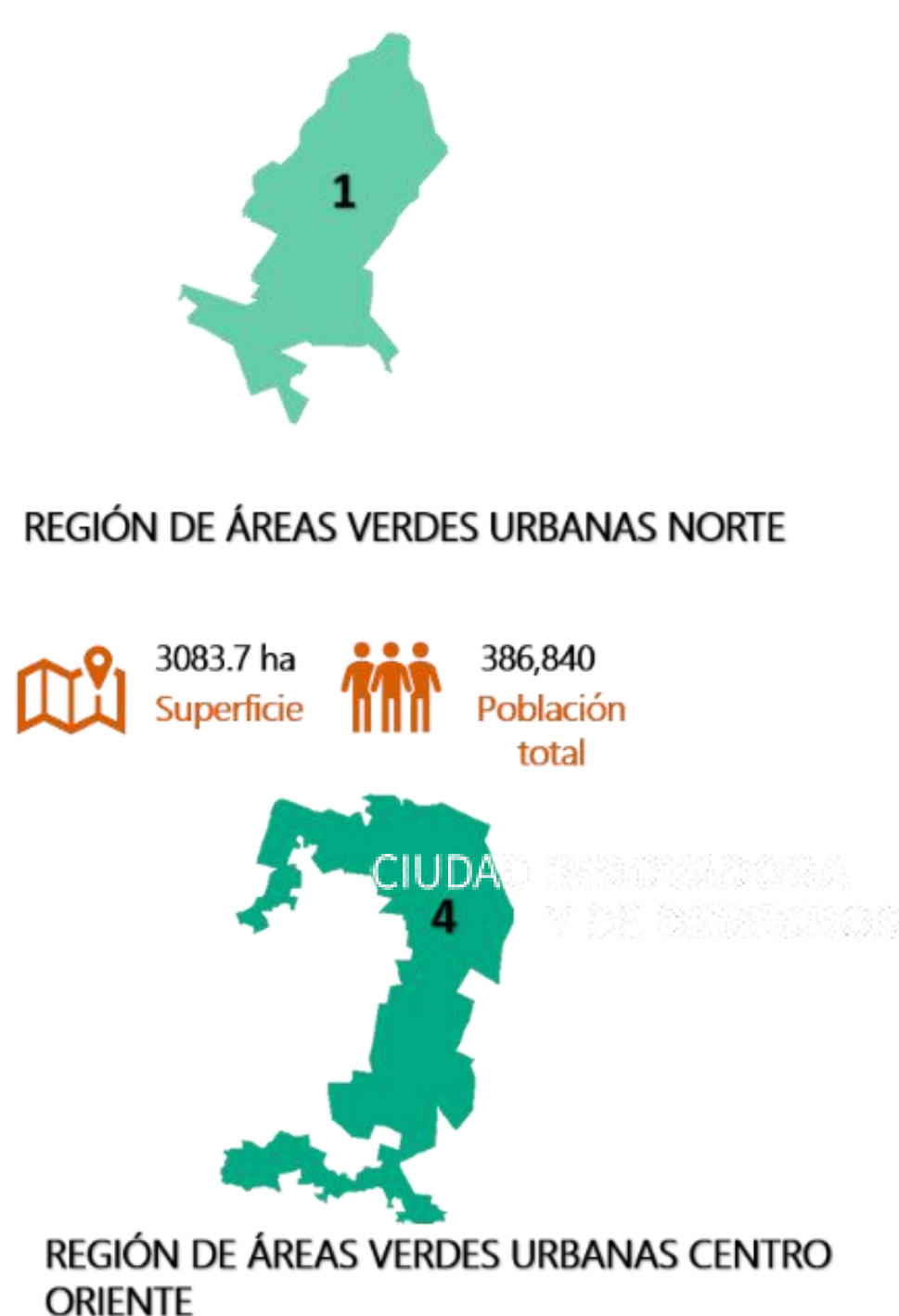
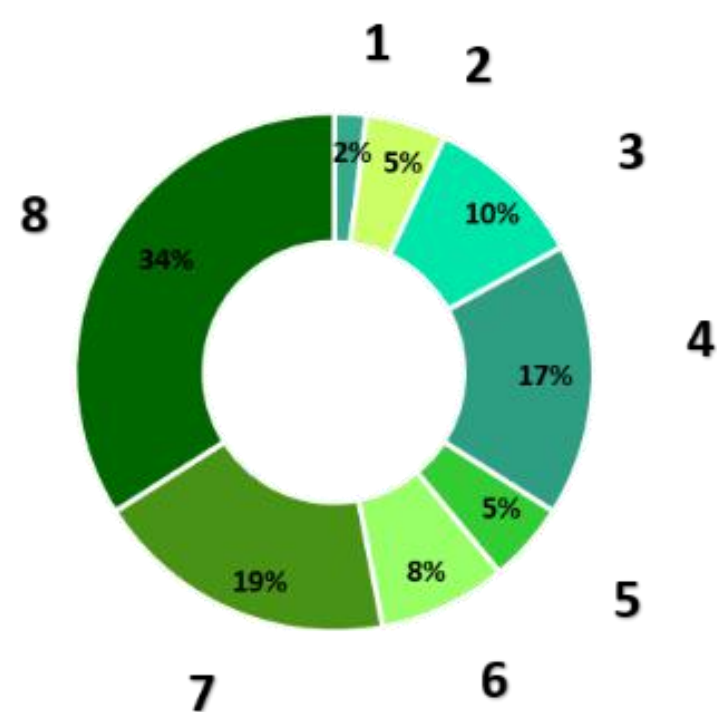
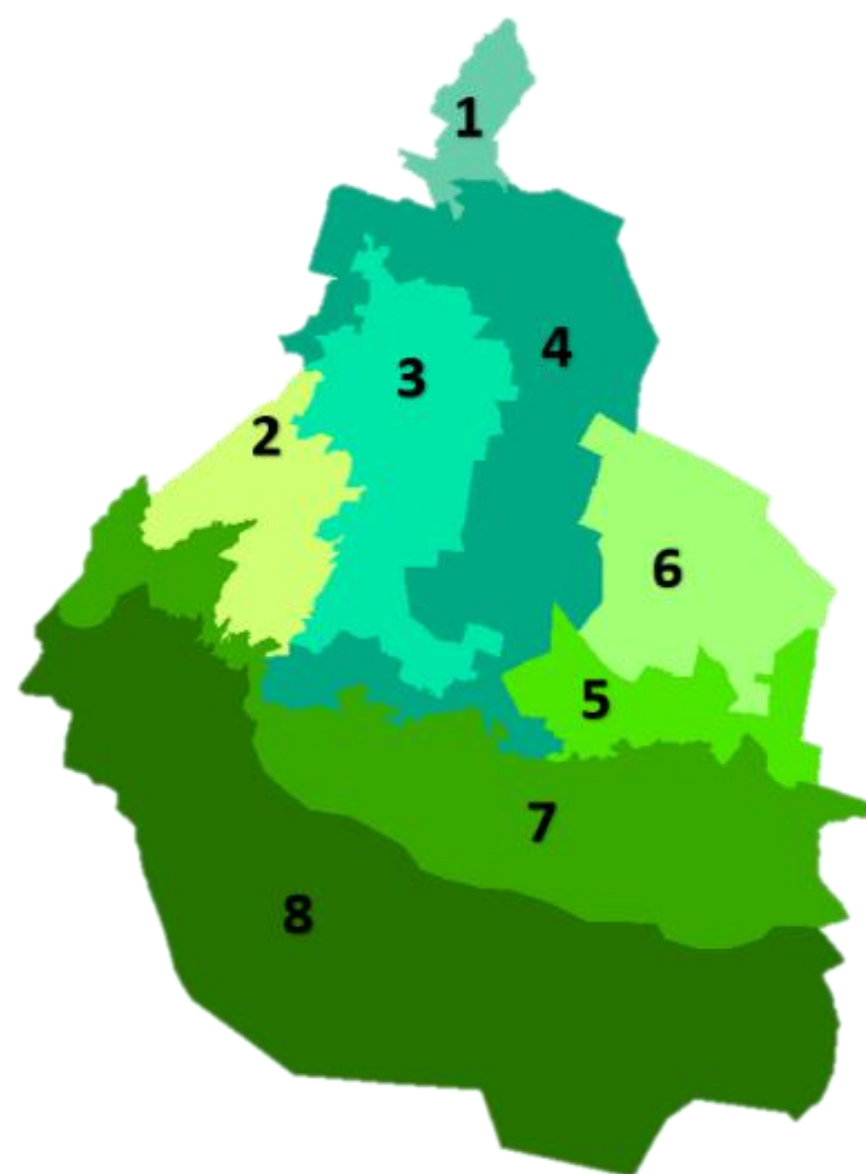
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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA

REGIONES DE INFRAESTRUCTURA VERDE





SOLUTION

“GREEN INFRASTRUCTURE MASTER PLAN FOR MEXICO CITY”

PROGRAMMES

A Tool for Optimum Territorial Planning

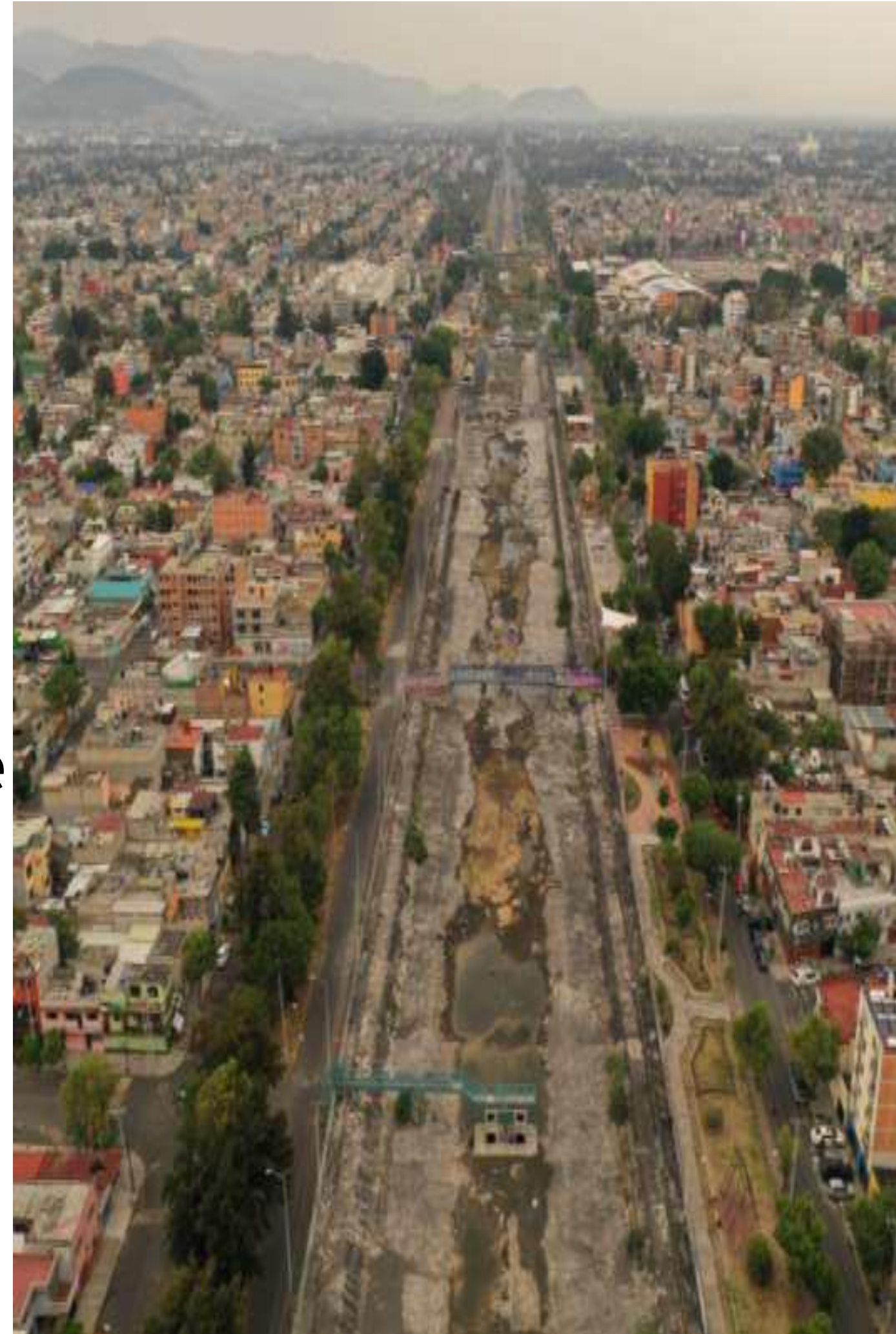
that will bring together and articulate the efforts of the scientific community, the academy, the private sector, government agencies, and citizenry with proposals, strategies and actions aimed at improving the living standards of all inhabitants of a **more sustainable and resilient city with GREEN INFRASTRUCTURE PROJECTS.**

- 1. Growing of Parks:** creation of green areas in the city's marginalized zones.
- 2. Socio-Environmental Rehab of Conservation Areas.** Involve the public in taking care of conservation areas as well as enjoying and knowing them.
- 3. Green Challenge:** Greening up the entirety of Mexico City's public spaces with 10 million new Trees and Other Plants during 2019 and 2020 (parks, traffic islands, plazas, sidewalks, and other aforementioned spaces). **We have already achieved that challenge and hope to reach 15 million this year**
- 4. River Sanitation:** restoration and cleaning up of the rivers within the city.
- 5. Cycling Infrastructure:** rehabilitation of existing bike paths, as well as setting pop-up bike lanes to enforce safe mobility during the Covid-19 pandemic.



Growing Parks/ “Sembrando Parques” (SOBSE-SEDEMA-SACMEX)

1. Xochimilco Ecological Park
2. National Canal Linear Park
3. Grand Canal Linear Park
4. Eje 6 Sur Green Corridor
5. Aragón State Park (Bosque San Juan de Aragón)
6. Cuitláhuac Park
7. Cantera Park
8. Periférico Oriente Green Corridor
9. Leona Vicario Park
10. San Fernando Park
11. El Vivero Sports and Recreation Center





Cantera Park

BEFORE



AFTER



AFTER



AFTER





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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA

Socio-Environmental Rehab of Conservation Areas.





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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



Cerro de la Estrella



Sierra de Guadalupe



Parque Ecológico



Sierra Santa Catarina

Conservation Areas

Socio-Environmental Rehab of Natural Protected Areas

1. Cerro de la Estrella
2. Sierra Santa Catarina
3. Sierra de Guadalupe
4. Mexico City Ecological Park



Revegetation of the City:

- Ministry of Environment (SEDEMA, Spanish acronym)
- Ministry of Public Works and Services (SOBSE, Spanish acronym)
- General Coordination of Mexico City's Water System (SACMEX, Spanish acronym)

2020 Headway & Goals

- **6.2 million** specimens were planted in the city in **2019**
- To date over **13.3 million** specimens have been planted
- **This year over 7 million will be planted in conservation areas as well as urban settlements**
- By the end of 2020 approximately **15 million trees, shrubs, herbaceous and groundcover plants, will have been planted during 2019 and 2020**





GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



Chapultepec Park (Bosque de Chapultepec)

Restoration and sanitization
of the 3rd section



Neighborhood Parks

16 spaces in the following
districts:

- Benito Juárez
- Miguel Hidalgo
- Álvaro Obregón
- Cuajimalpa
- Tláhuac
- La Magdalena Contreras

Currently under construction

Goal: 57,000 hectares /140,850 acres

Planned investment: MXN \$62 million

1. **Urban gardens** growing of fruit, vegetable, medicinal and ornament plants.
2. **Pollination, rain and spontaneous gardens.**
3. **New playgrounds and recreational areas for children.**
4. **Multi-functional spaces:** environmental education, book clubs, poetry, painting, music and dance workshops.
5. **Refurbishment and revegetation** of sidewalks and main pathways; improvement of street furniture.
6. **Recreational / Leisure Route** outdoor gym, parkour, calisthenics and sports facilities
7. **Community organization** for collaborative management



GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD **INNOVADORA**
Y DE **DERECHOS**

NUESTRA
CASA



Chapultepec Park (Bosque de Chapultepec)



Tlalpan



Eje 10



Yecahuizotl
(Natural Protected Area)



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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



Projects on roadways managed by the Ministry of Public Works and Services (SOBSE)





GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA

Program for women to become “pollinators” through gardening training





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SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



283,855

NATIVE POLLINATOR PLANTS

Pollinators

- Valley of Mexico native pollinators seed and plant harvesting (**shrubs, herbaceous and stonecrops**)
- Production of native species at the **Nezahualcóyotl** and **Yecapixtla** Plant Nurseries
- Female pollinators

PRODUCTION GOAL FOR 2020-2024

Year	40,150 plants
2020	53,250 plants
Year 2021	57,355 plants
Year 2022	63,380 plants
Year 2023	69,720 plants
Year 2024	



GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA



Complete Restoration and sanitation of Rivers, Ravines and Water Bodies





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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

NUESTRA
CASA

Magdalena River Integrated Project

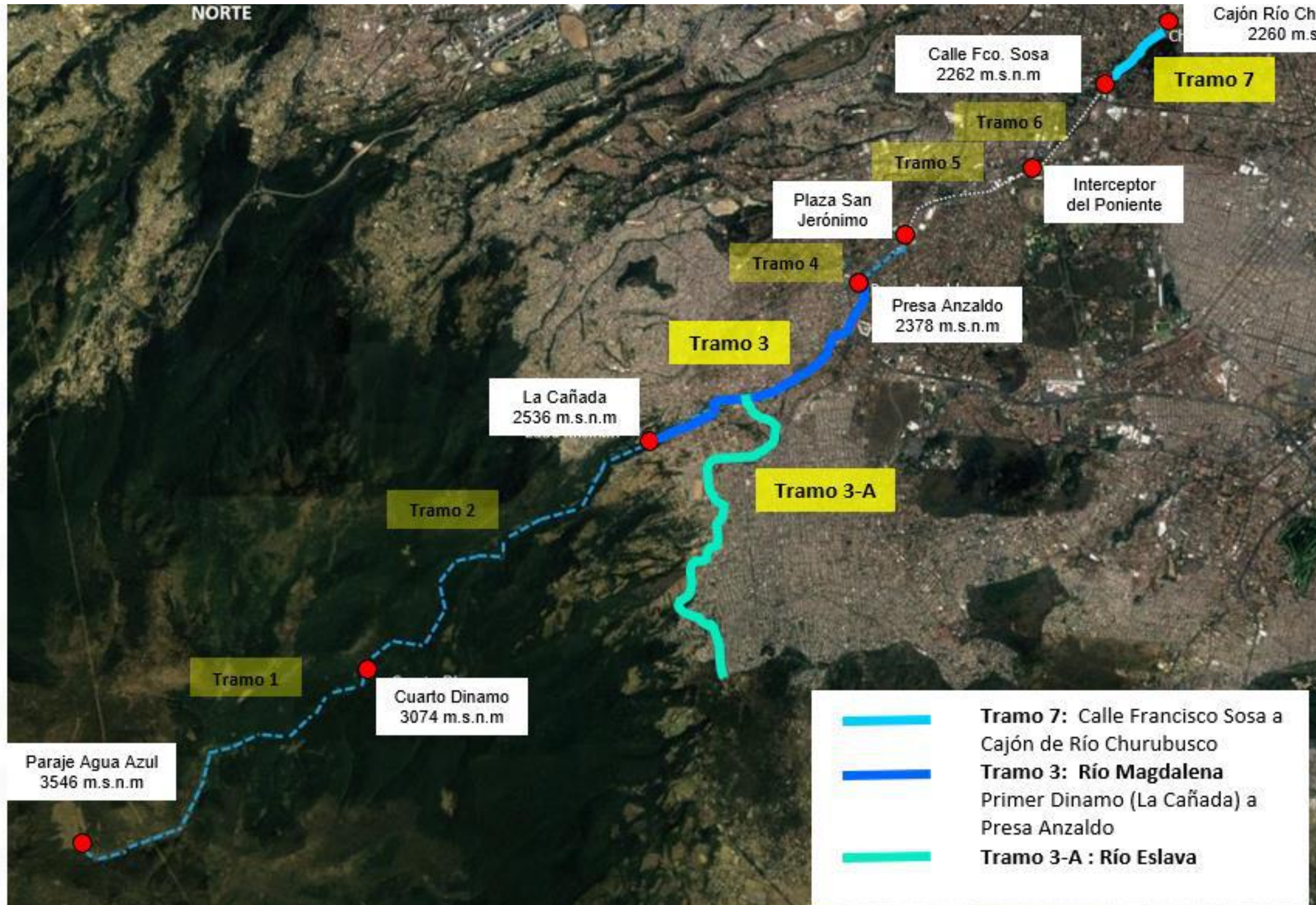
Segments for All-Encompassing
Recovery 2020-2021

Magdalena River

1. Soil and water conservation and natural resources management of the catchment area.
2. Dinamo-Cañada Natural Park (property of Frisa).
3. Las Cañadas –Anzaldo
 - A. Urban spaces with development potential
 - B. Las Cañadas Ex-hacienda
4. Recovery of Panzacola-Av. Universidad corridor

Eslava River

1. Incorporation of the streambed to the urban surroundings
2. Recovery of public spaces
3. Cleaning days and consensus dynamics





COVID-19 ESTRATEGIES

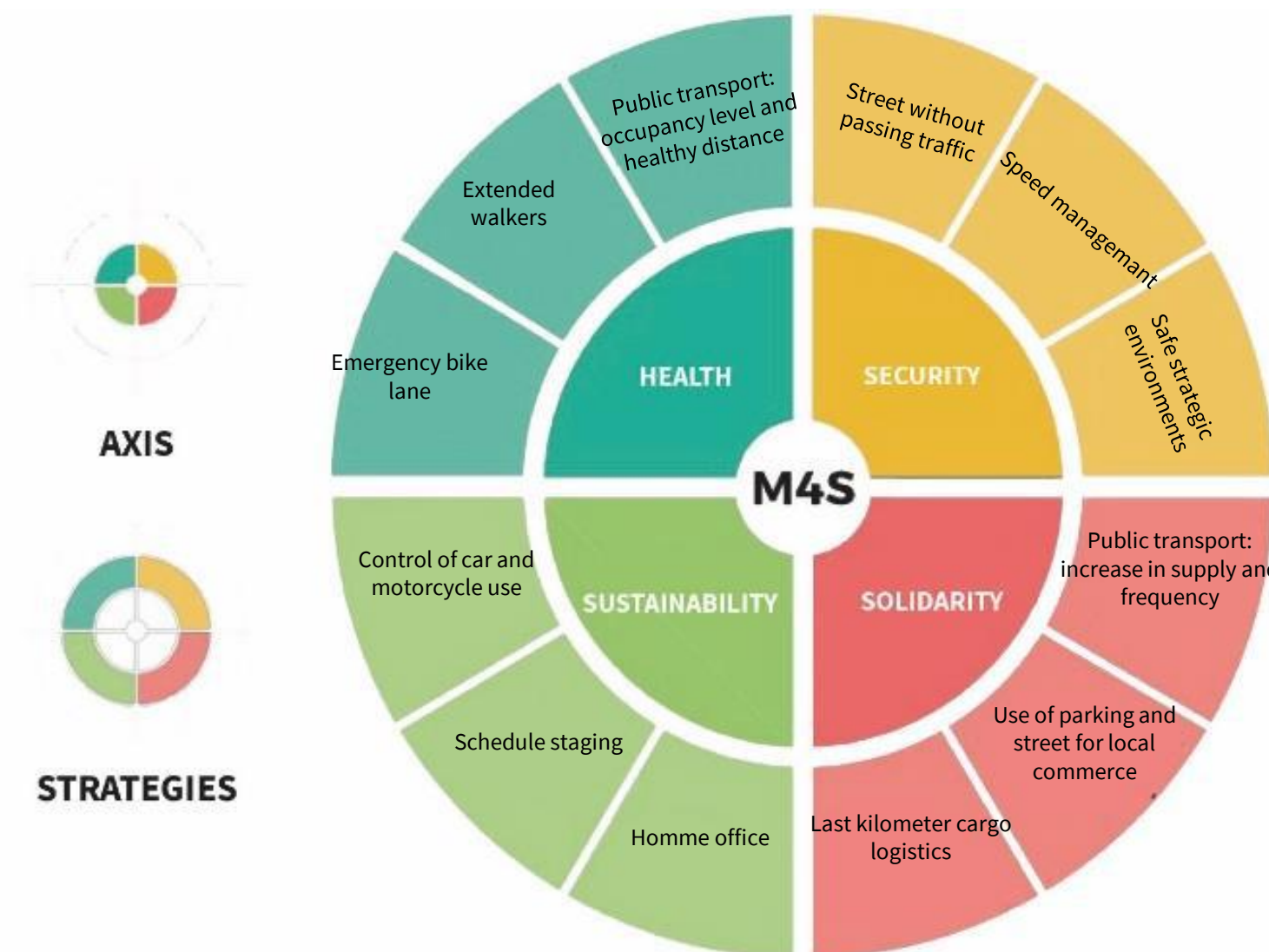
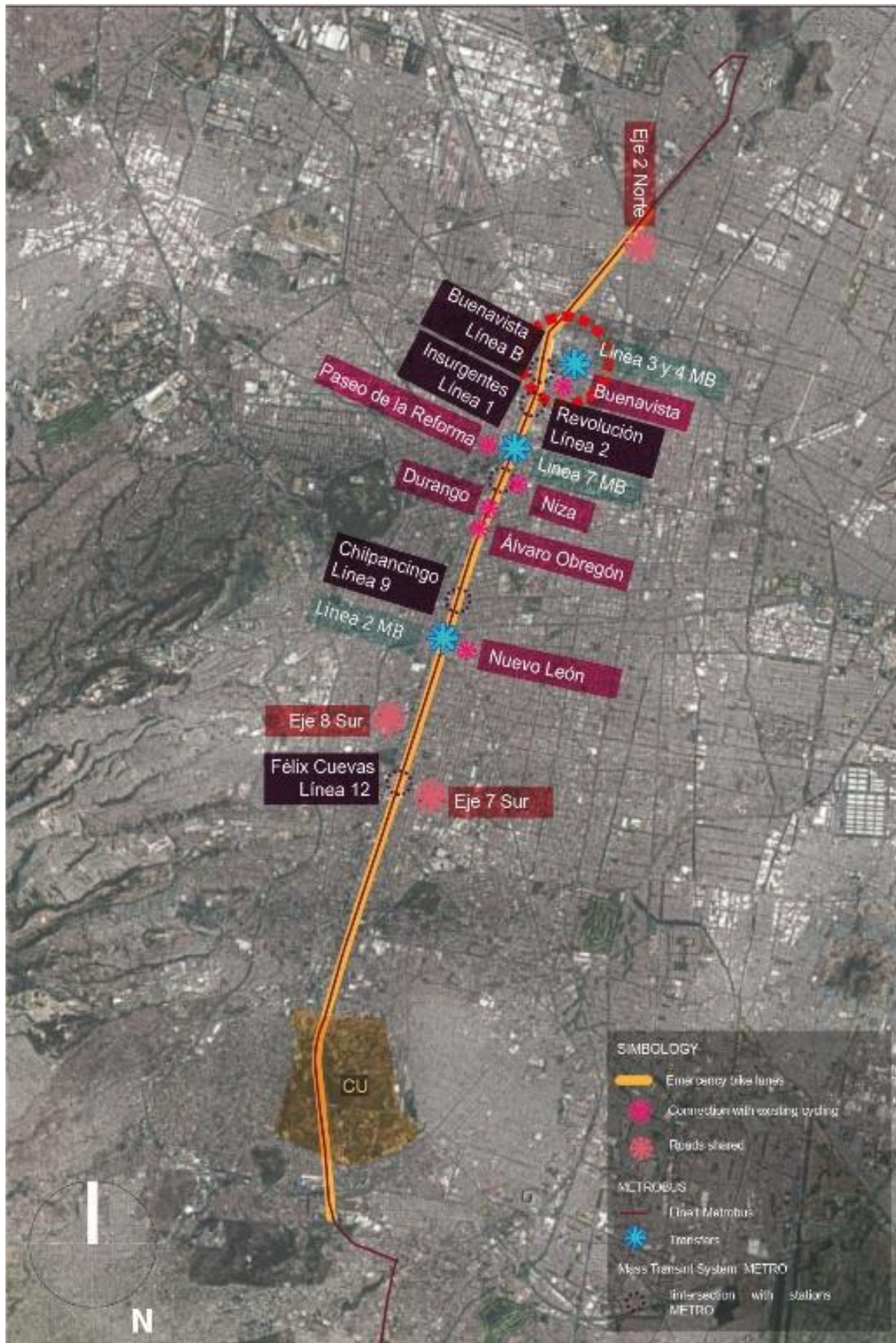
“EMERGENCY BIKE LANES”

The Ministry of Mobility of Mexico City (SEMOVI) implemented an emerging bike lanes on Avenue of the Insurgentes, in **20 kilometers**

Following the **Mobility Plan 4S FOR MÉXICO: Healthy, Safe, Sustainable and Supportive.**

The emergency bike lanes allows:

- Easier to respect social distancing.
- Reduces the risk of contagion.
- Reduce traffic congestion.
- Help to the cardiovascular system healthy.
- Improves mental health.





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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

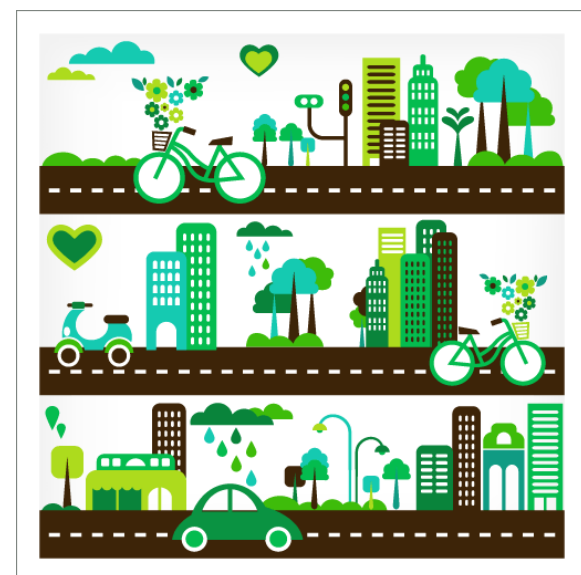
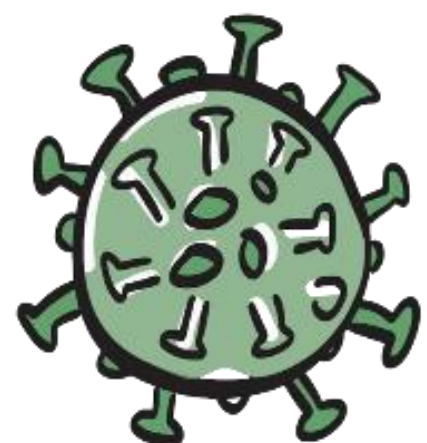
NUESTRA
CASA

“COVID -19 and GREEN INFRASTRUCTURE ”

The pandemic has given some thought about the **future forms of urban living, with healthier environments** for maintaining the health of citizens.



The COVID-19 crisis is driving the Green Infrastructure Master Plan (PMIV).



ALTERNATIVE

MOBILITY HEALTHY



Cycle lanes



Pedestrian infrastructure

URBAN GARDENS



INCREASED PARKLAND AND OPEN SPACE



This, improves the urban environment and the health of the inhabitants





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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD **INNOVADORA**
Y DE **DERECHOS**

NUESTRA
CASA



Production in Tree Nurseries





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SECRETARÍA DEL
MEDIO AMBIENTE

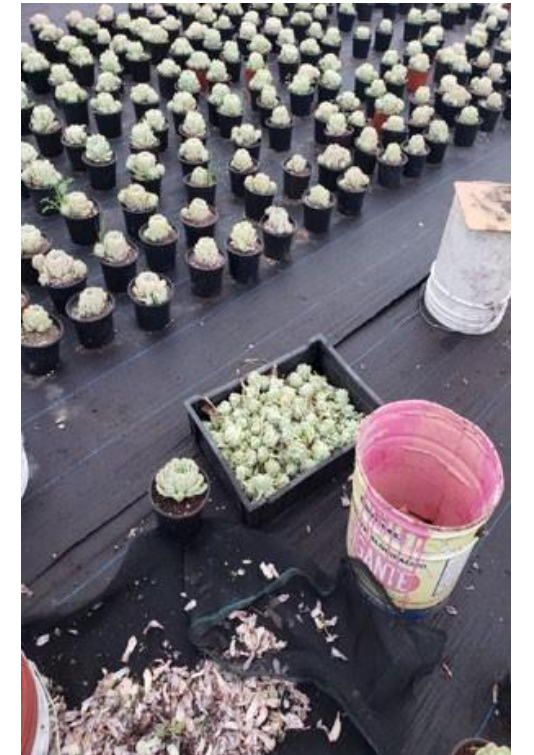
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Y DE DERECHOS

NUESTRA
CASA

Substratum production to replace mountain soil extraction

Soil improvers and conditioners,
and substrates –to replace
mountain soil- produced with
pruning and gardening residues for:

- Tree nurseries
- Fields
- Yards and planters
- Parks and other green areas





Pest and Disease Management in Trees

Assessment of Products for Mistletoe Management and Eradication

Control of mistletoe and other plagues

- Soil improvement
- Chemical and physical pruning
- Endotherapy



Struthantus spp mistletoe



Psittacanthus sp mistletoe



Cladocolea spp mistletoe



Phoradendron spp mistletoe



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CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

CIUDAD INNOVADORA
Y DE DERECHOS

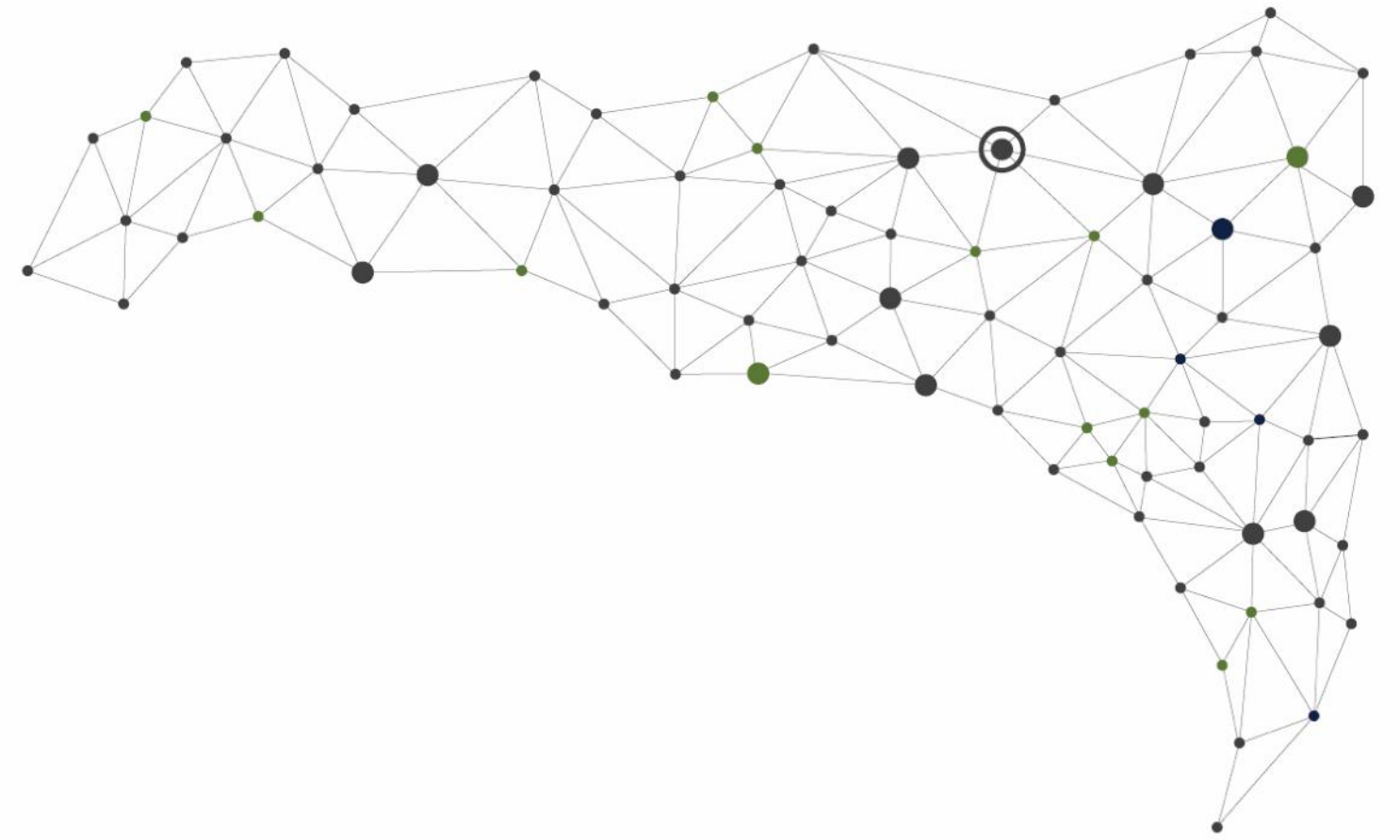
NUESTRA
CASA

Thank you

Arq. Maritza Hernández Solís
Green Infrastructure Director
Ministry of Environment of Mexico City

maritza.sedema@gmail.com

(52) 55 3086 2723

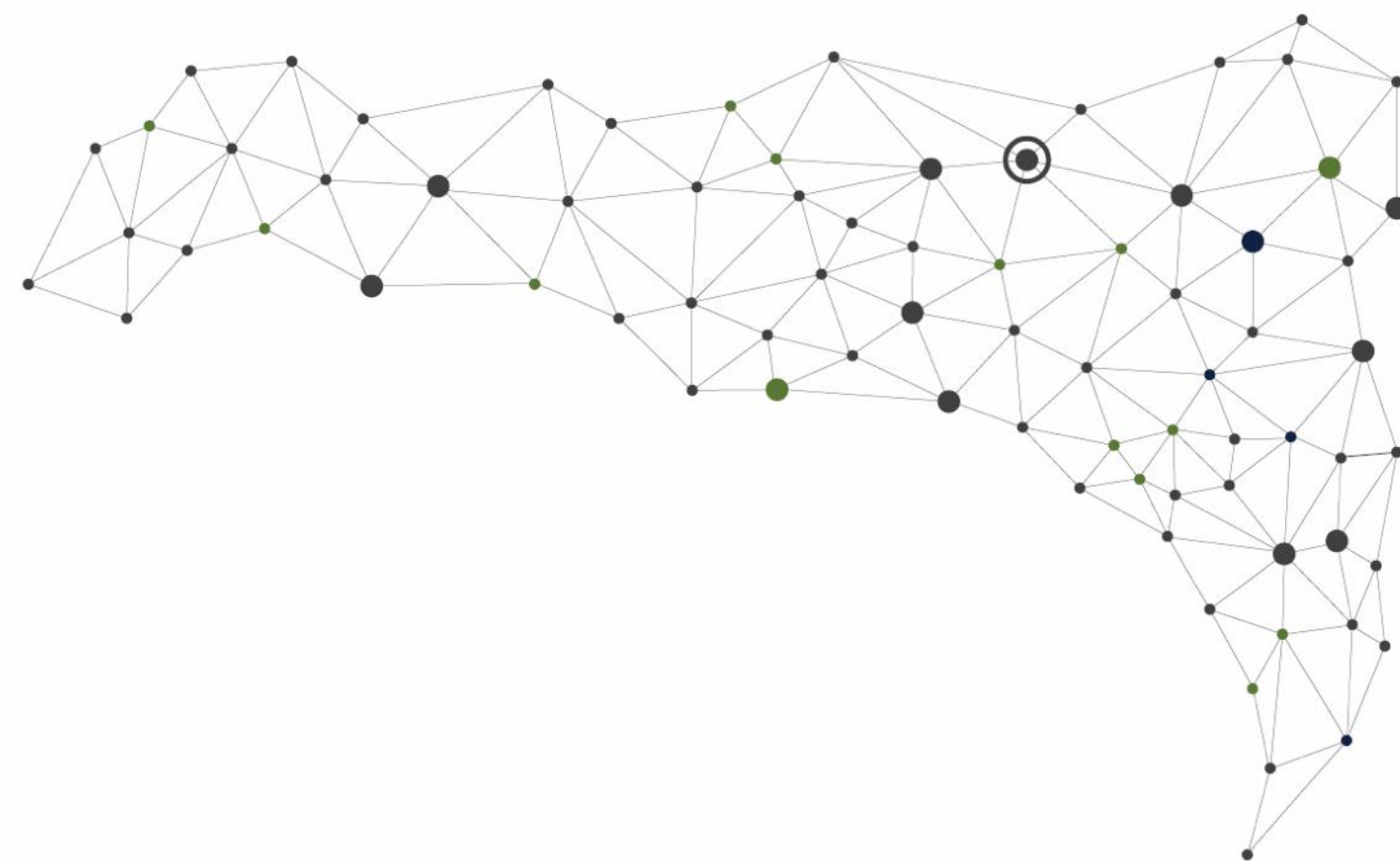


Q&A



Commissioned by





Speaker 2

The impact of Covid-19 on public space and Vienna's answers to the current challenges

Martina Frühwirth
City of Vienna – Architecture and Urban Design
Design of Public Space

2020-11-27

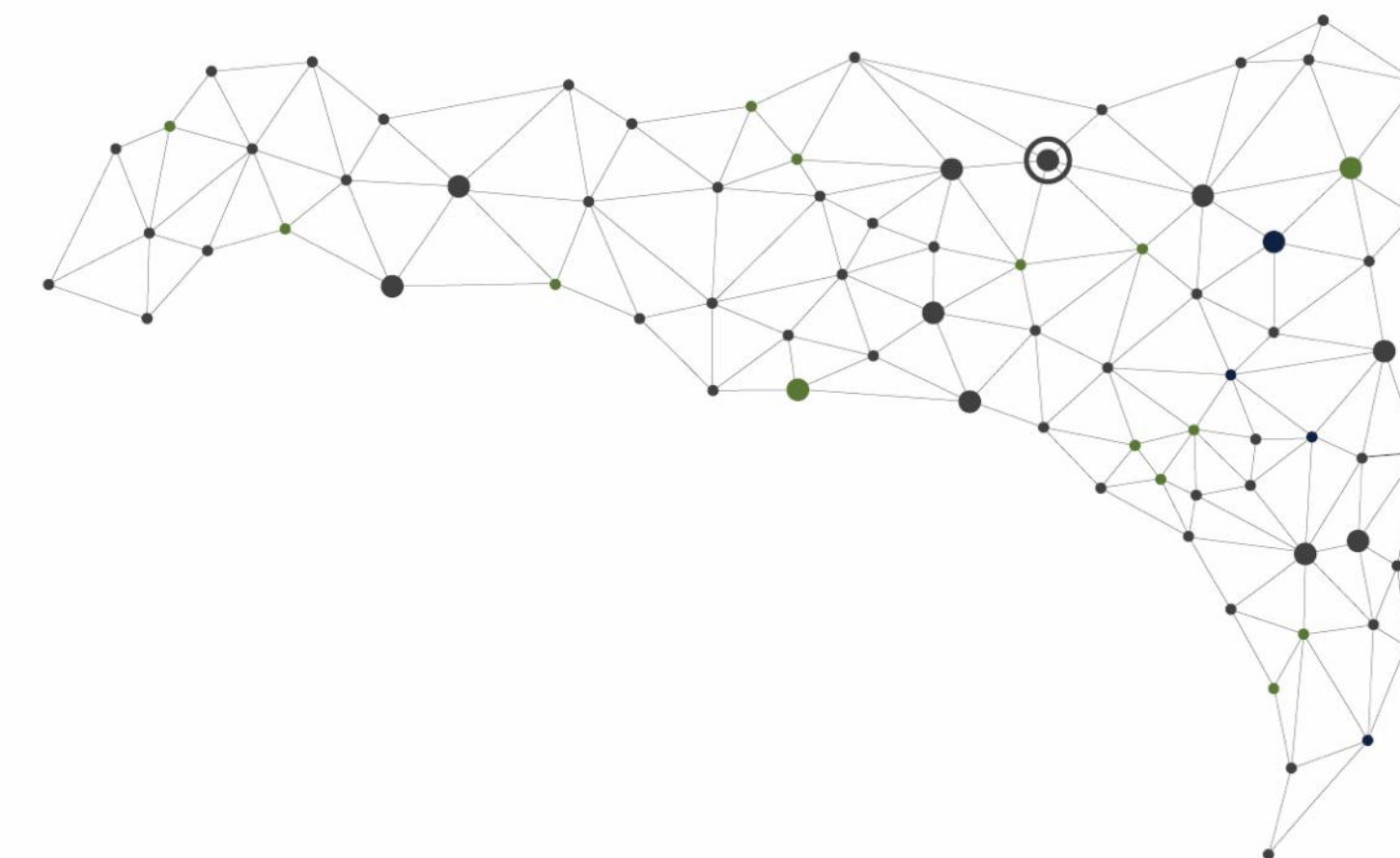
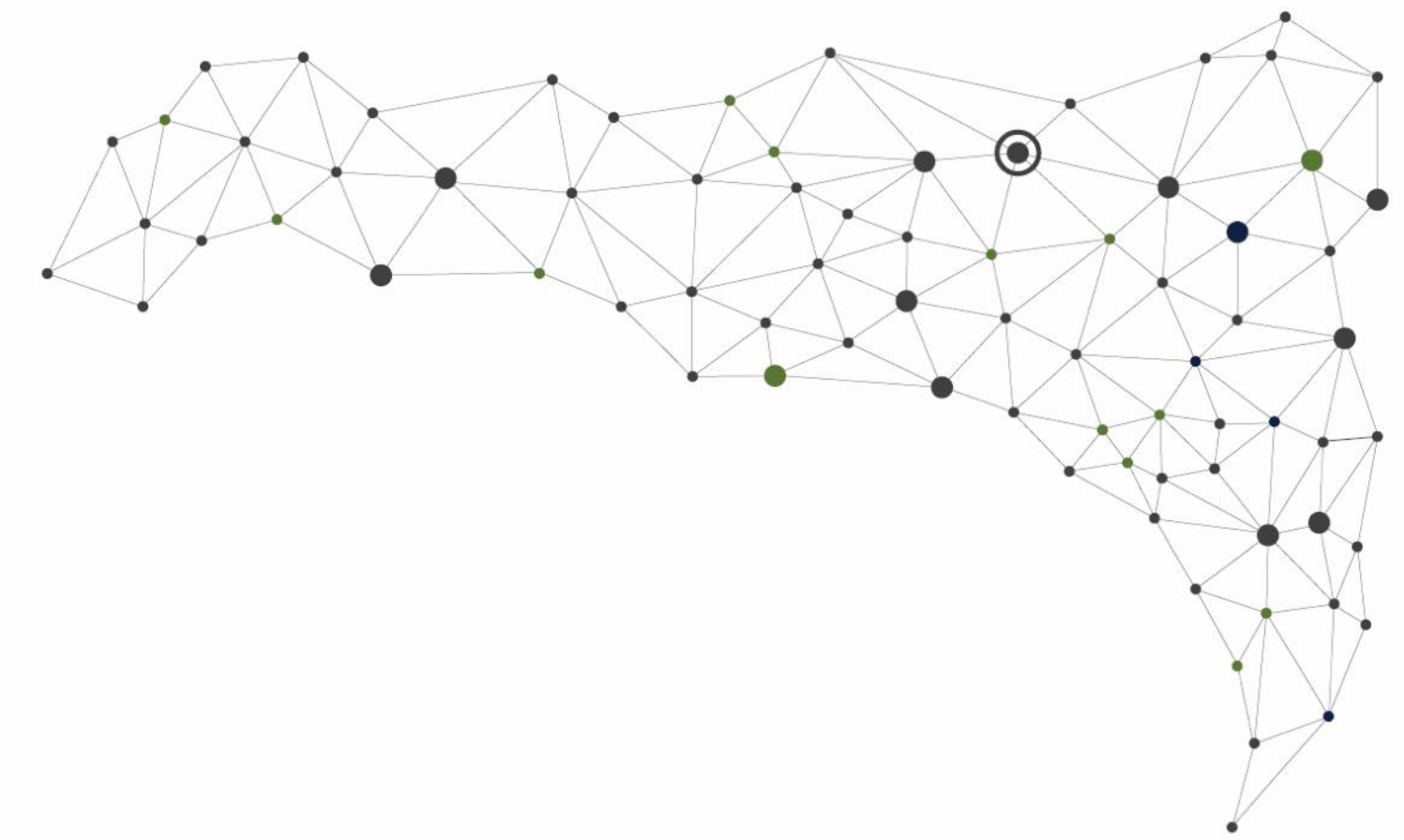


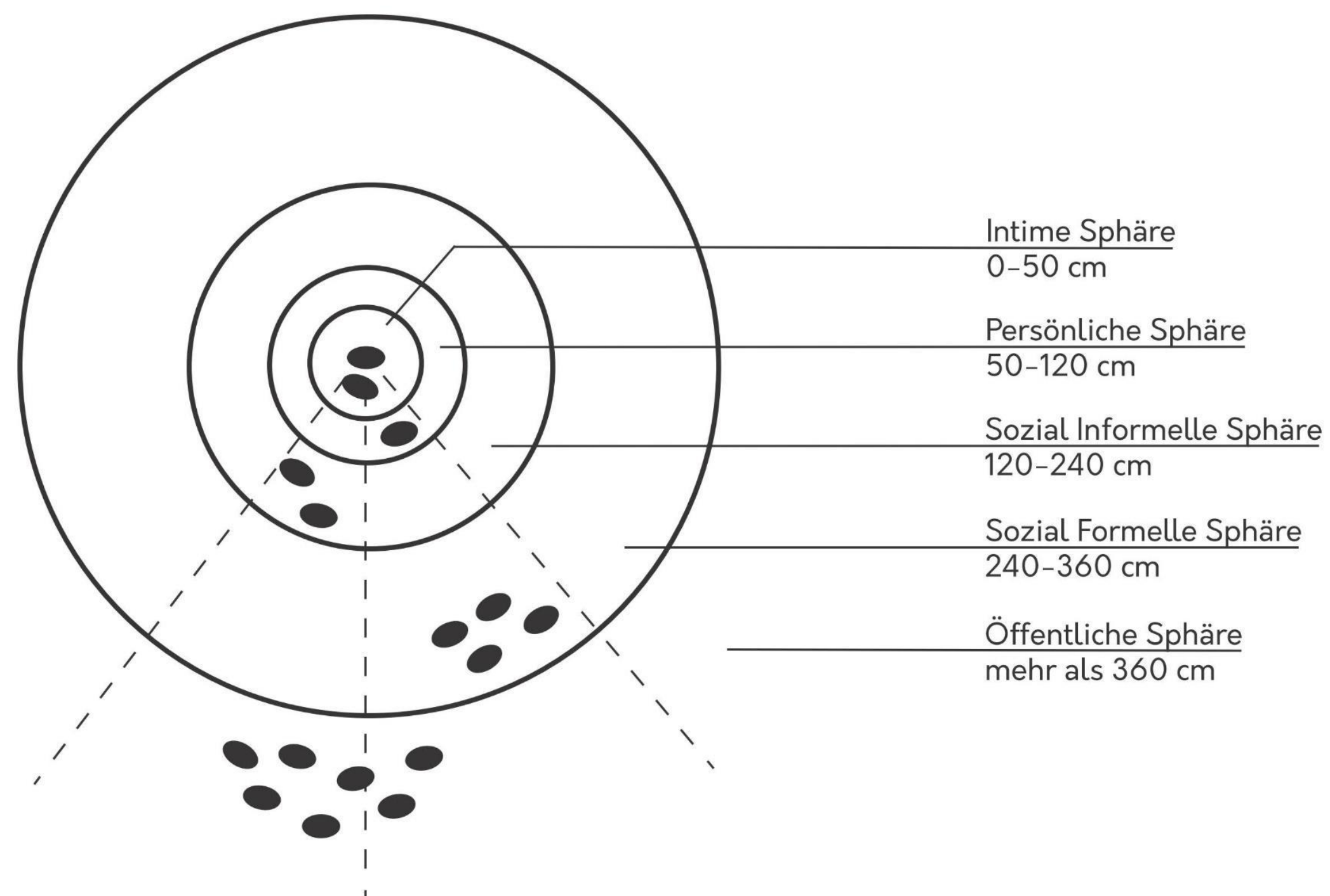


image: City of Vienna



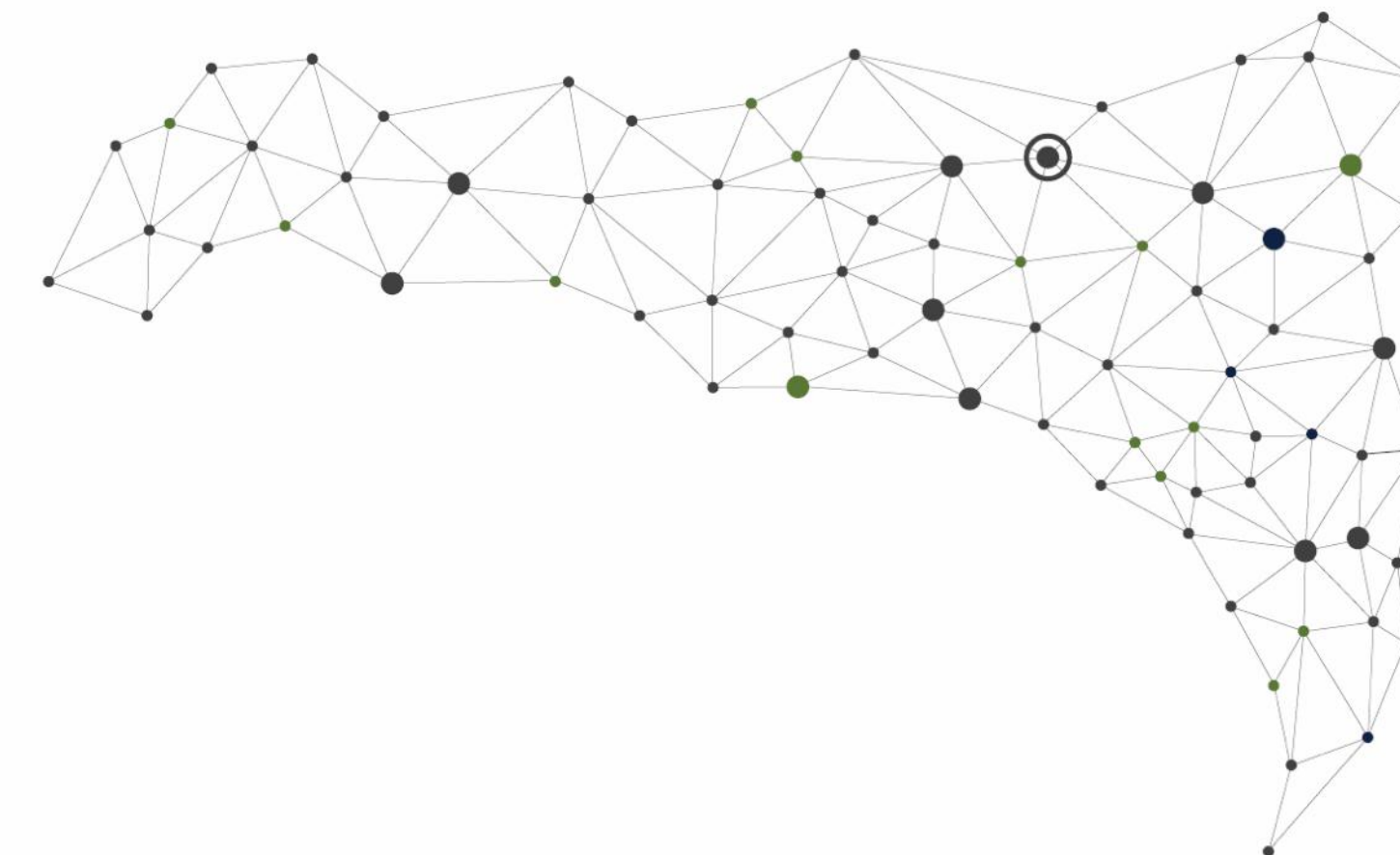
Konzeption

Intimität-Anonymität



Edward T. Hall - Distance Zones (1963)

 NUT & FEDER



Konzeption

Intimität-Anonymität

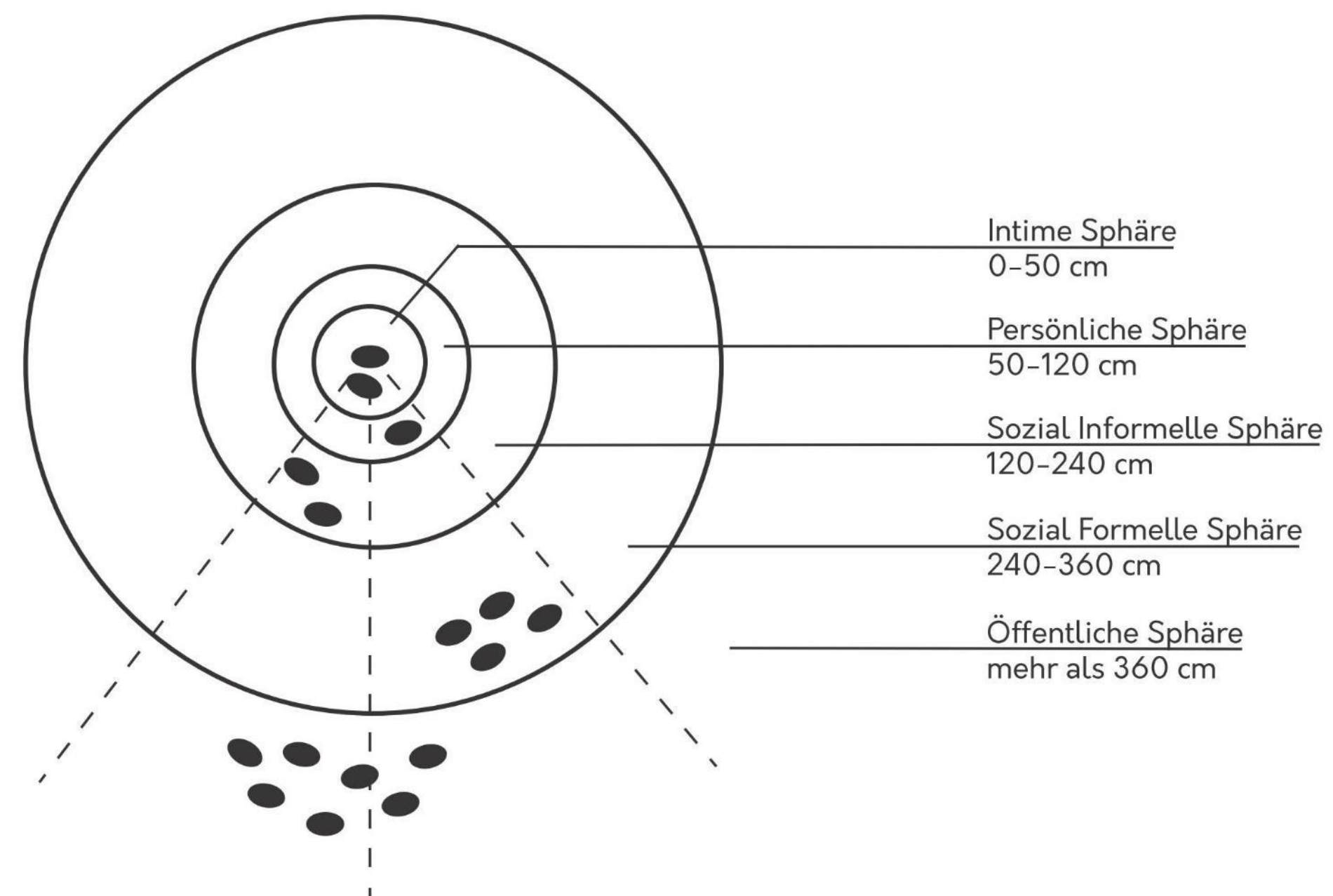


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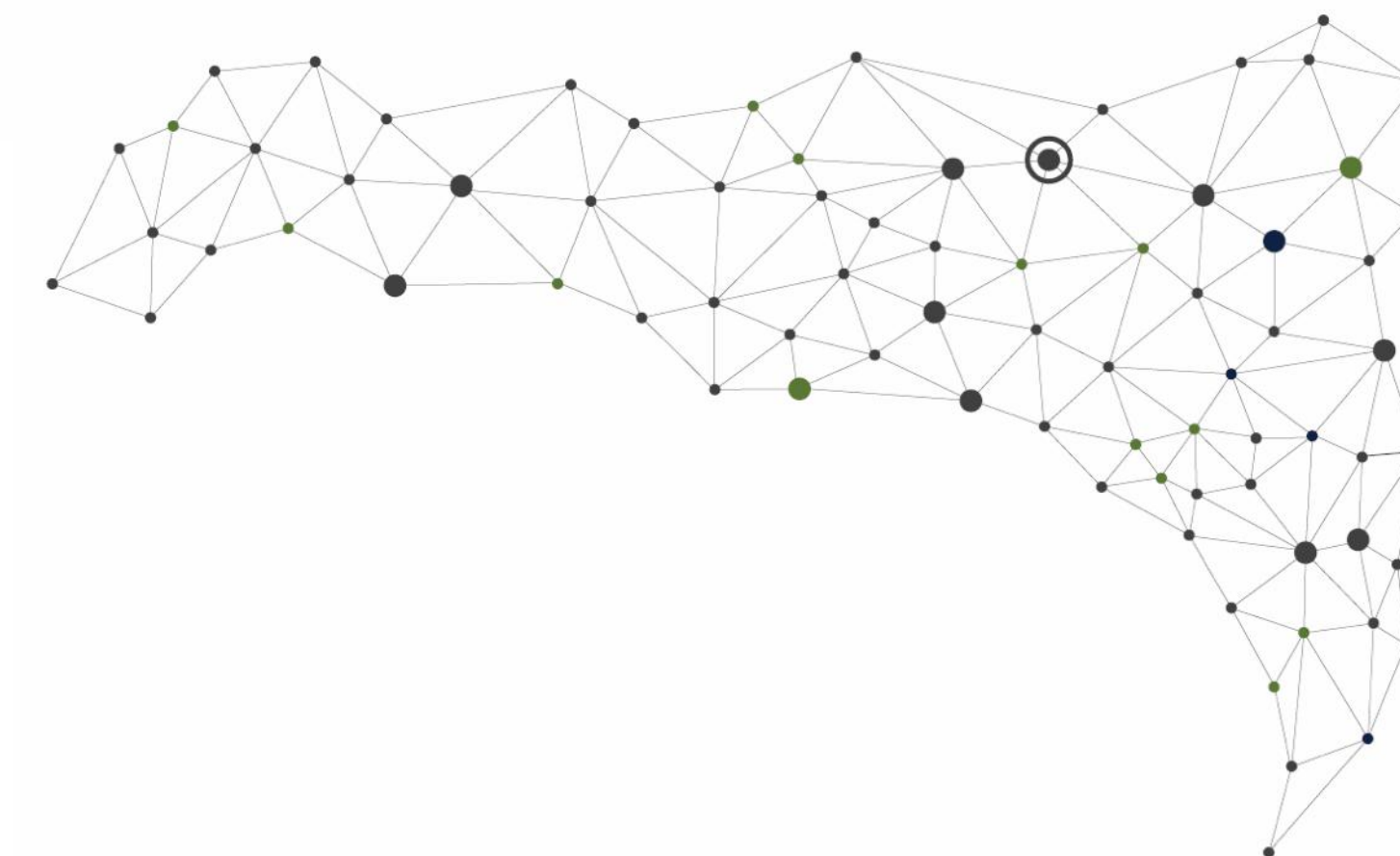
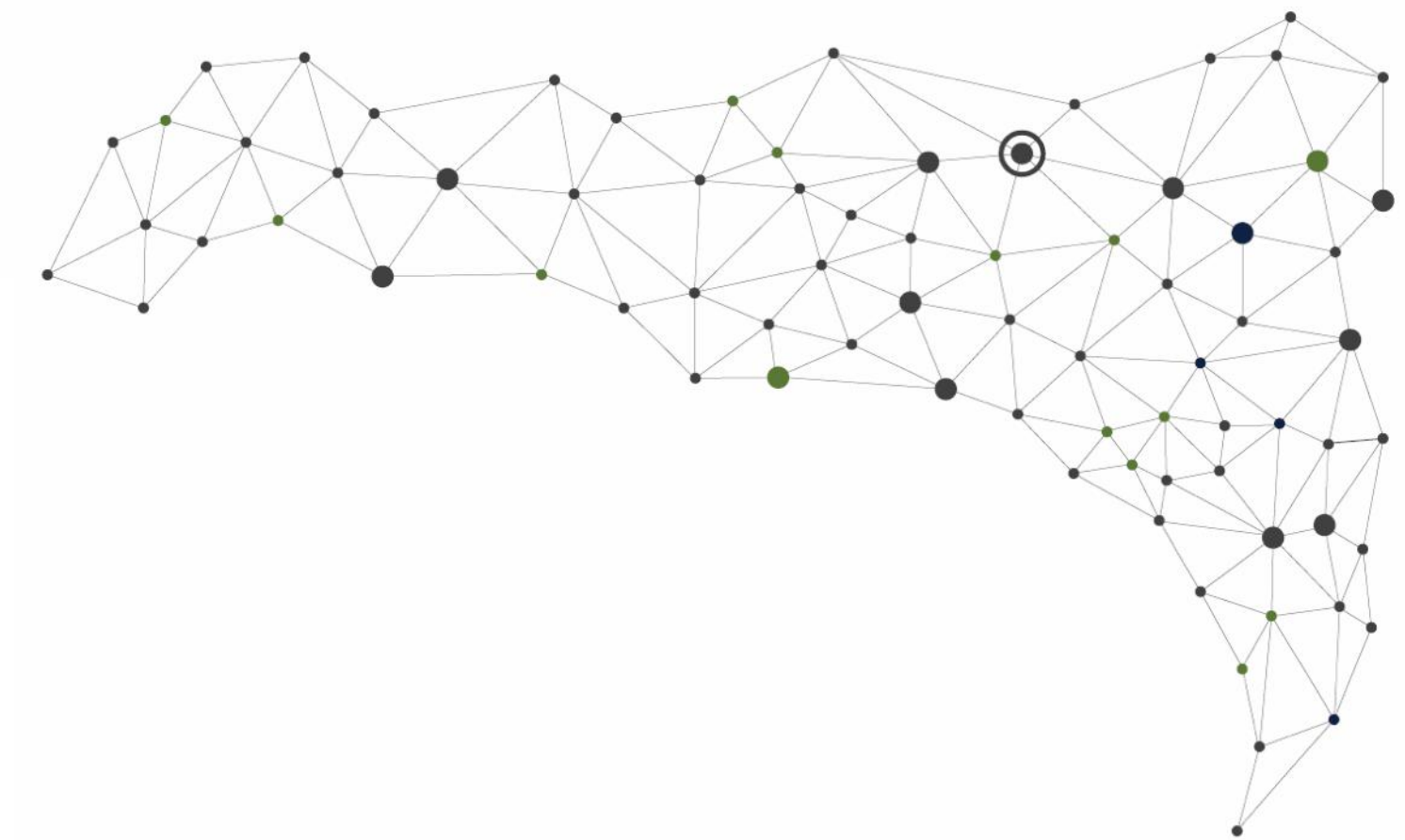


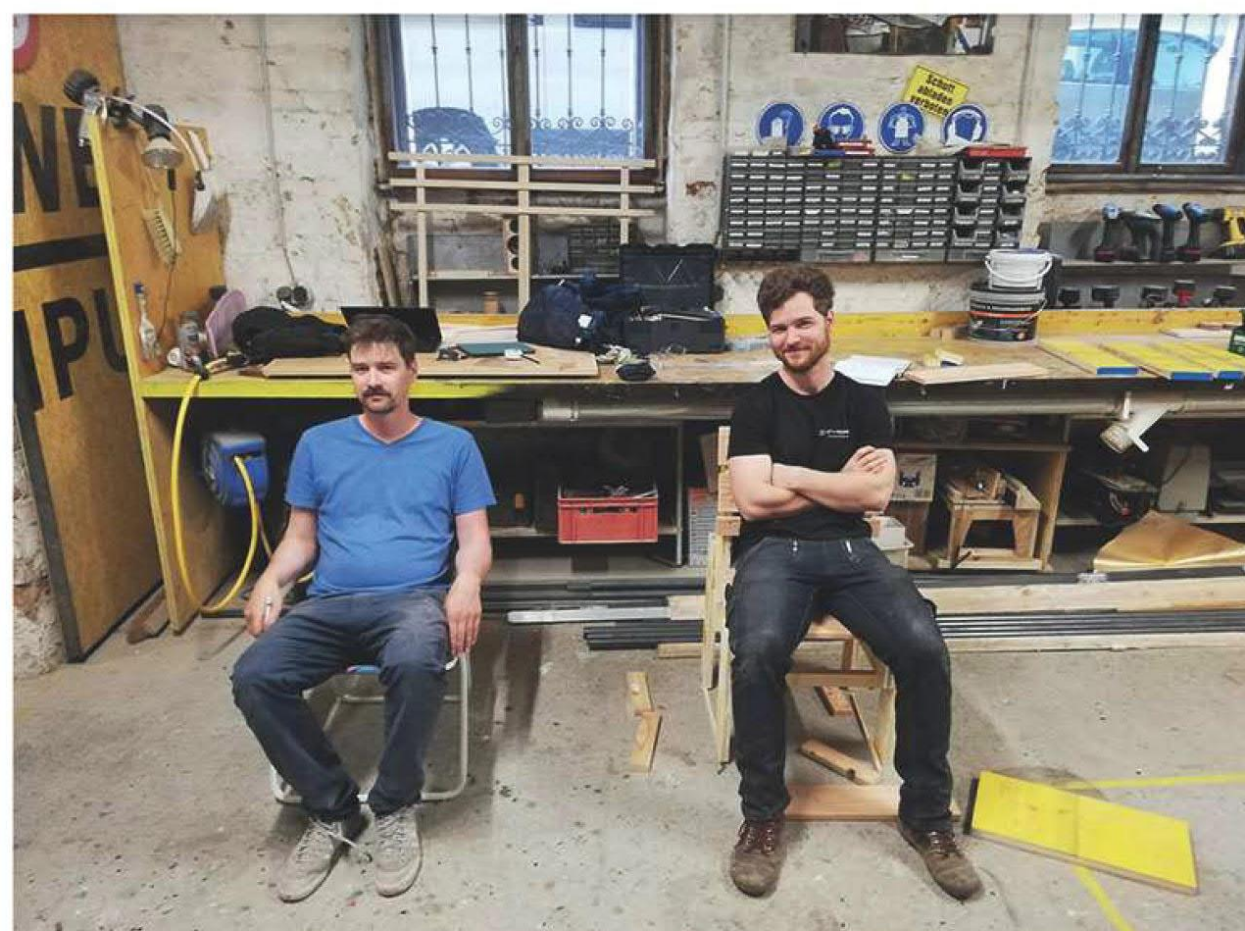
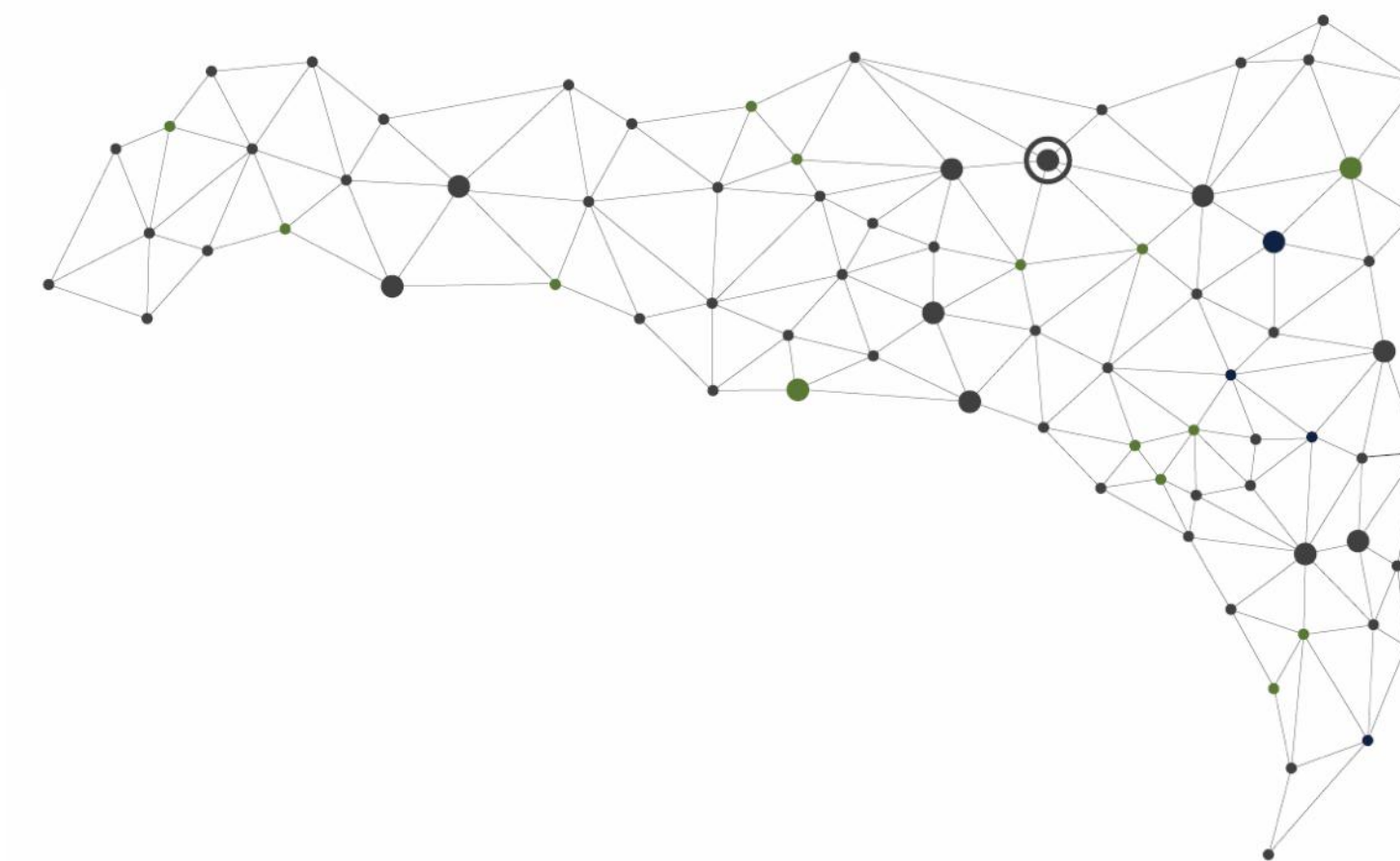
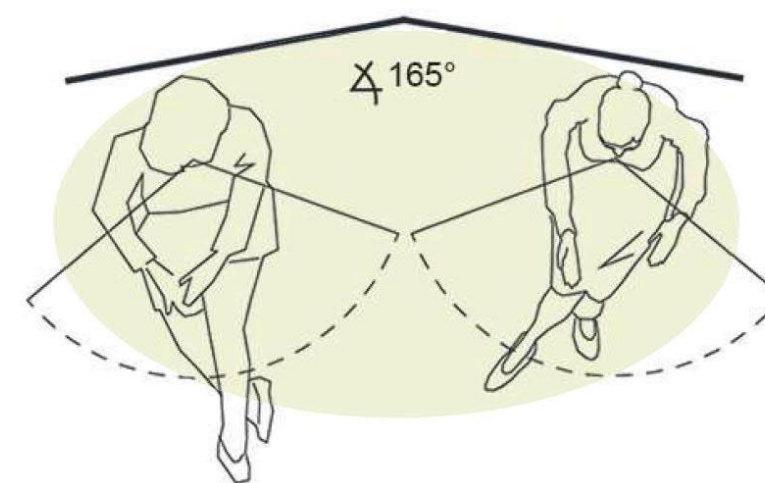
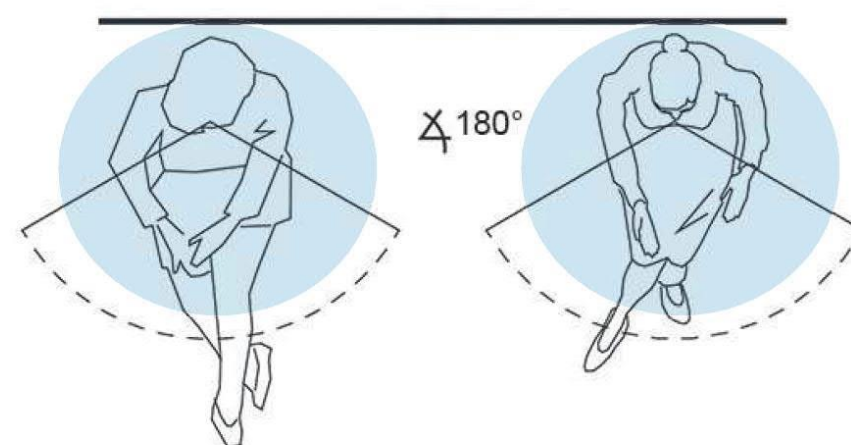


image: NUT & FEDER



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Intimität-Anonymität

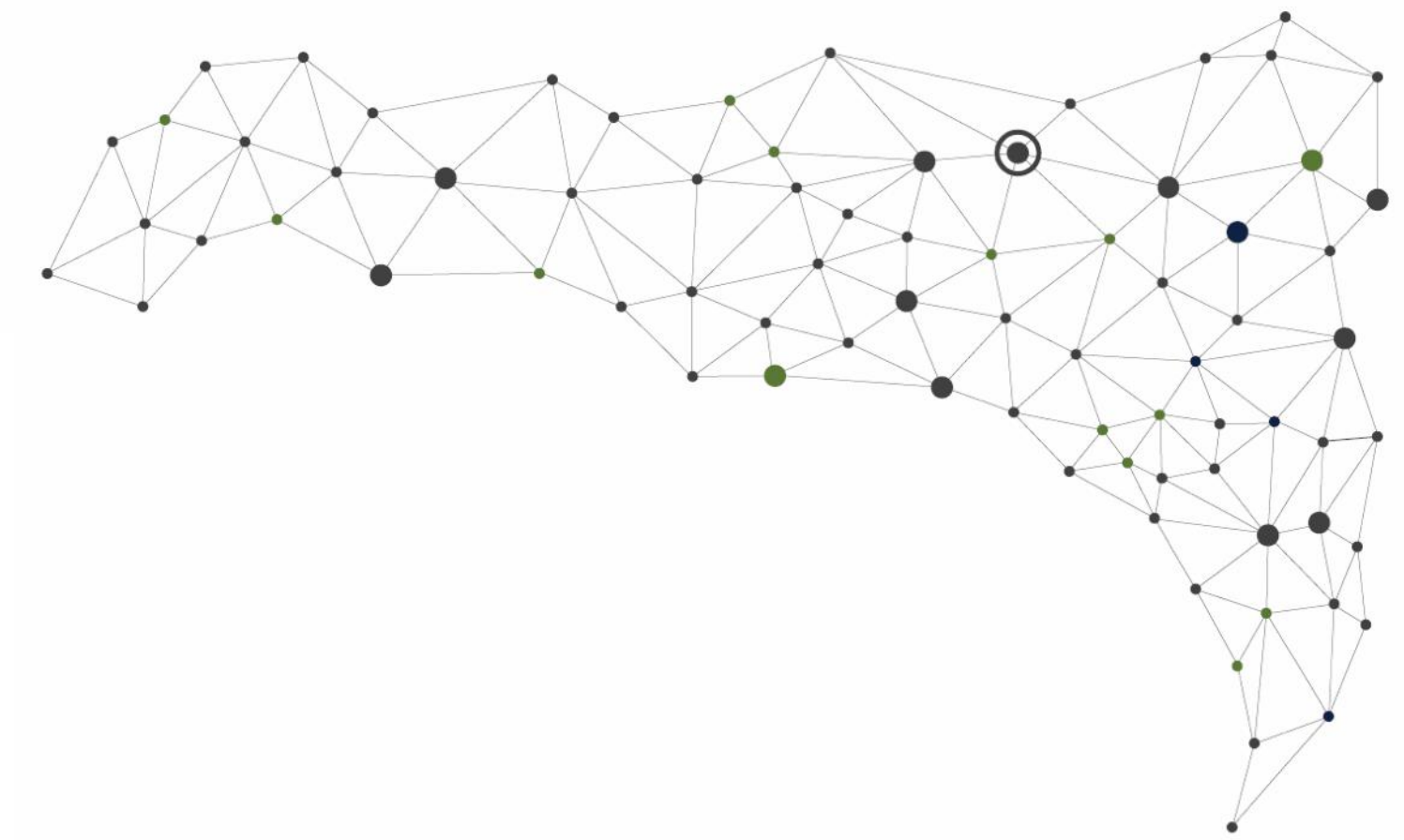


 NUT & FEDER



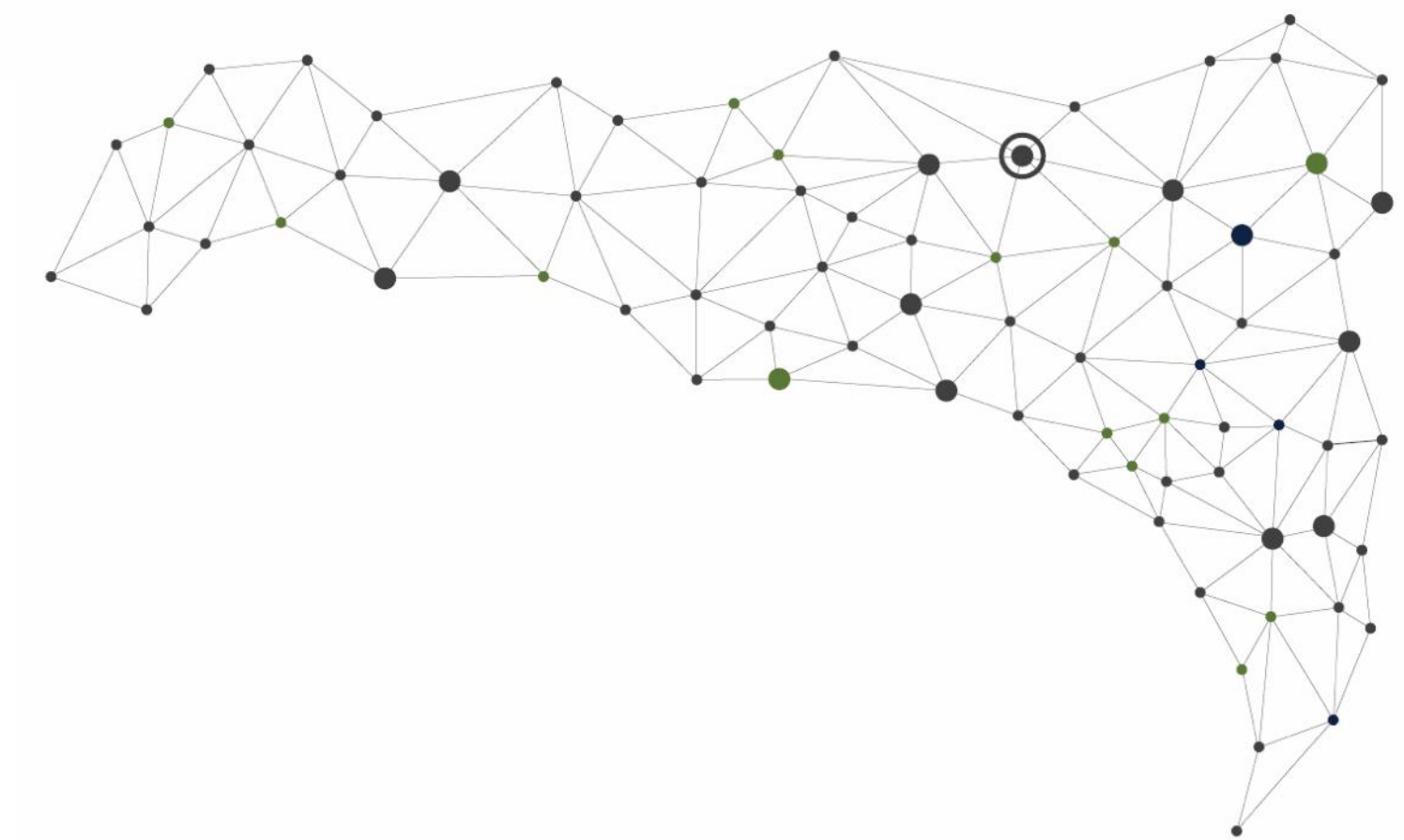
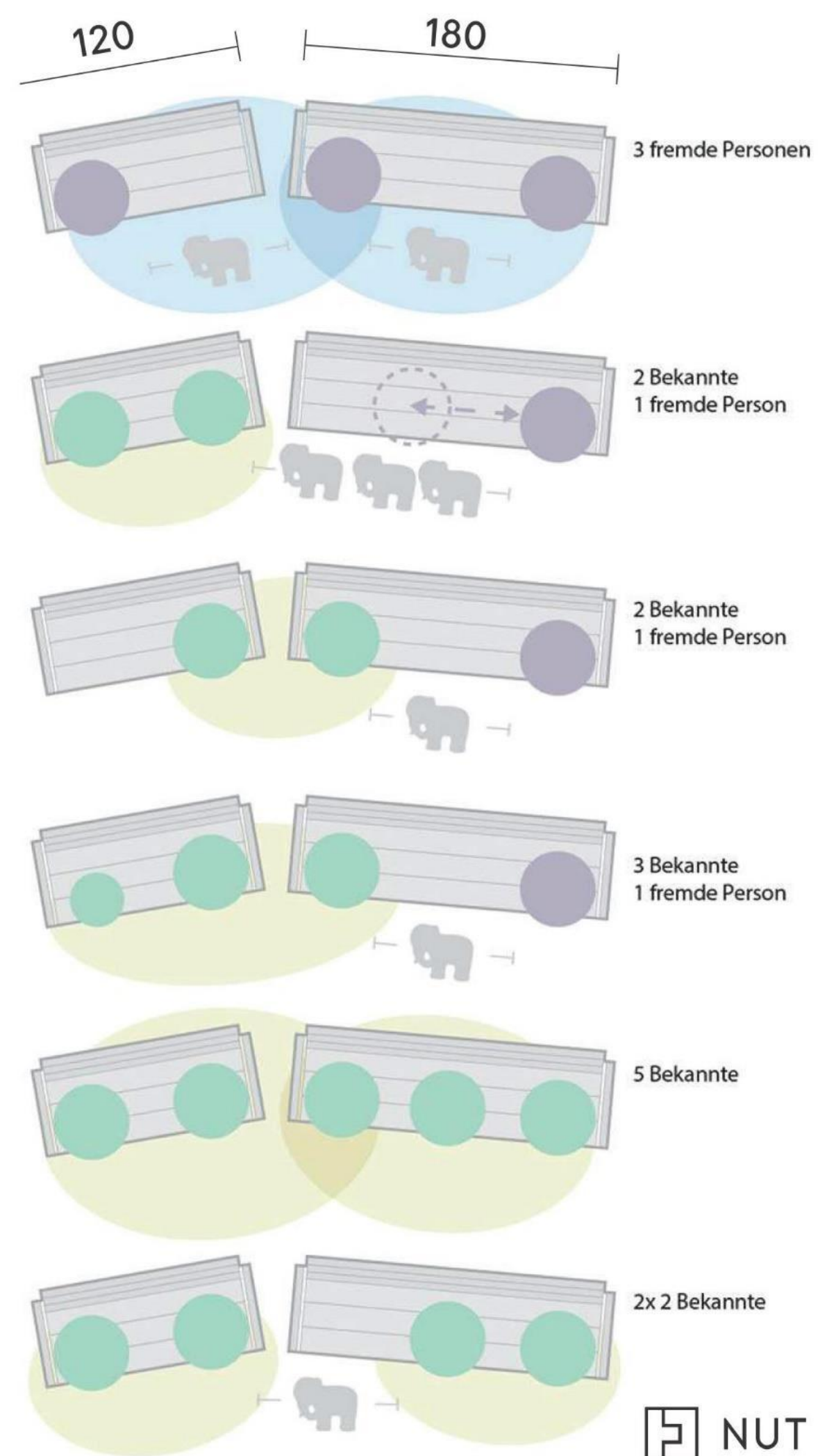
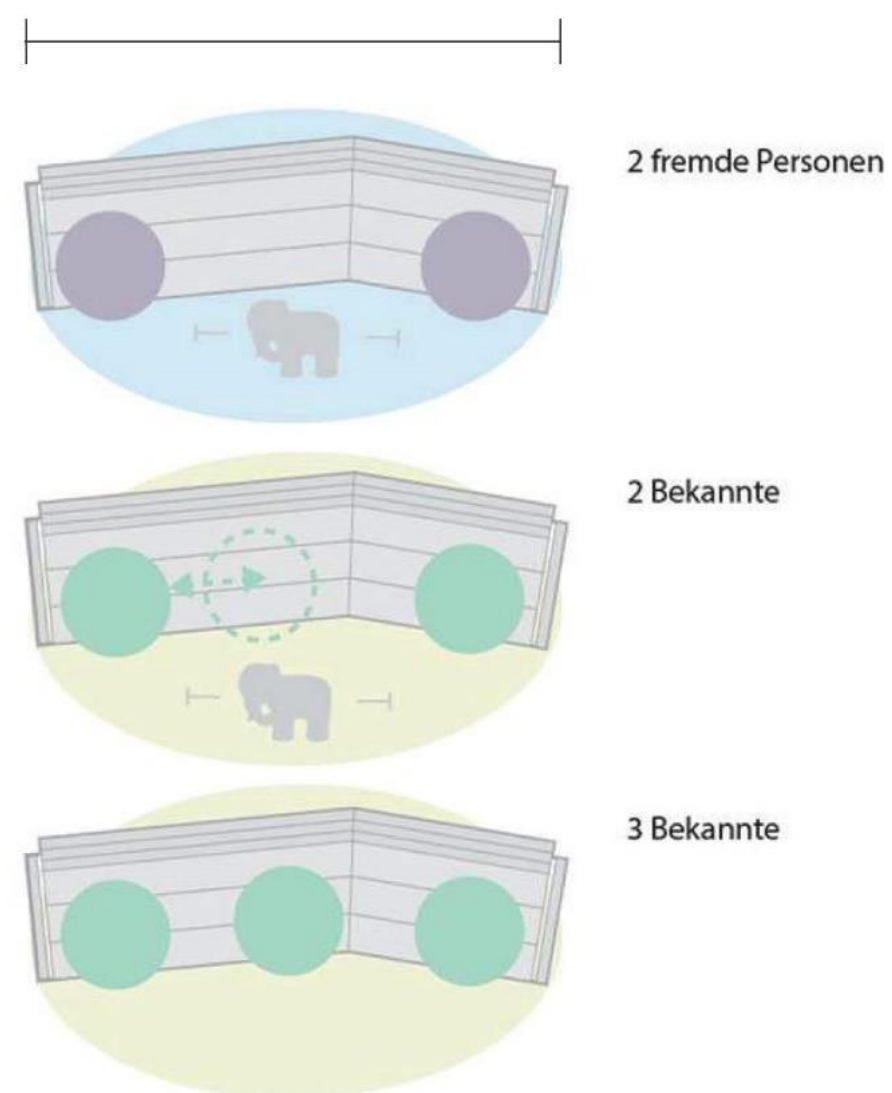
Conversation Chair – Buckingham Palace

 NUT & FEDER

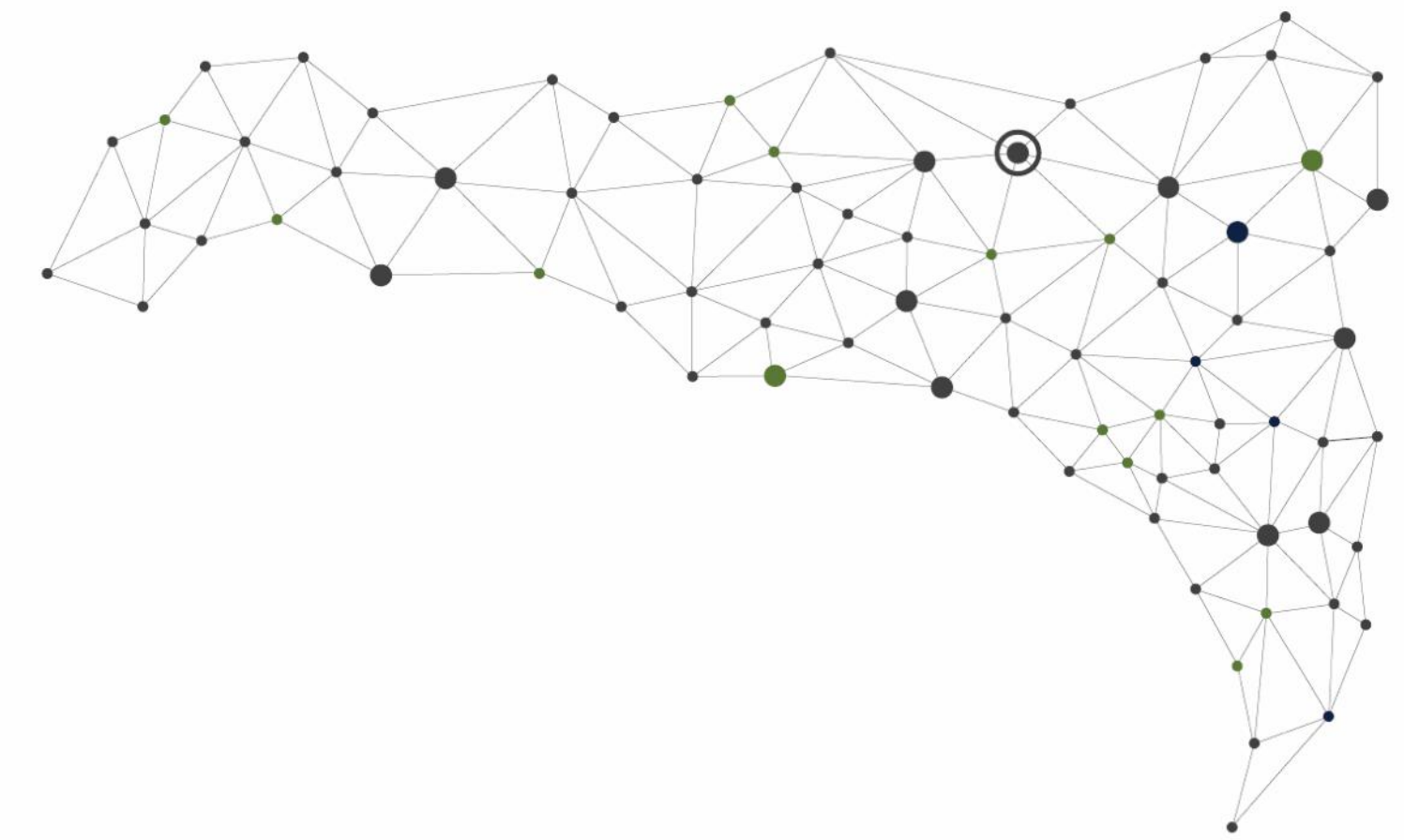


Konzeption

Orientierung

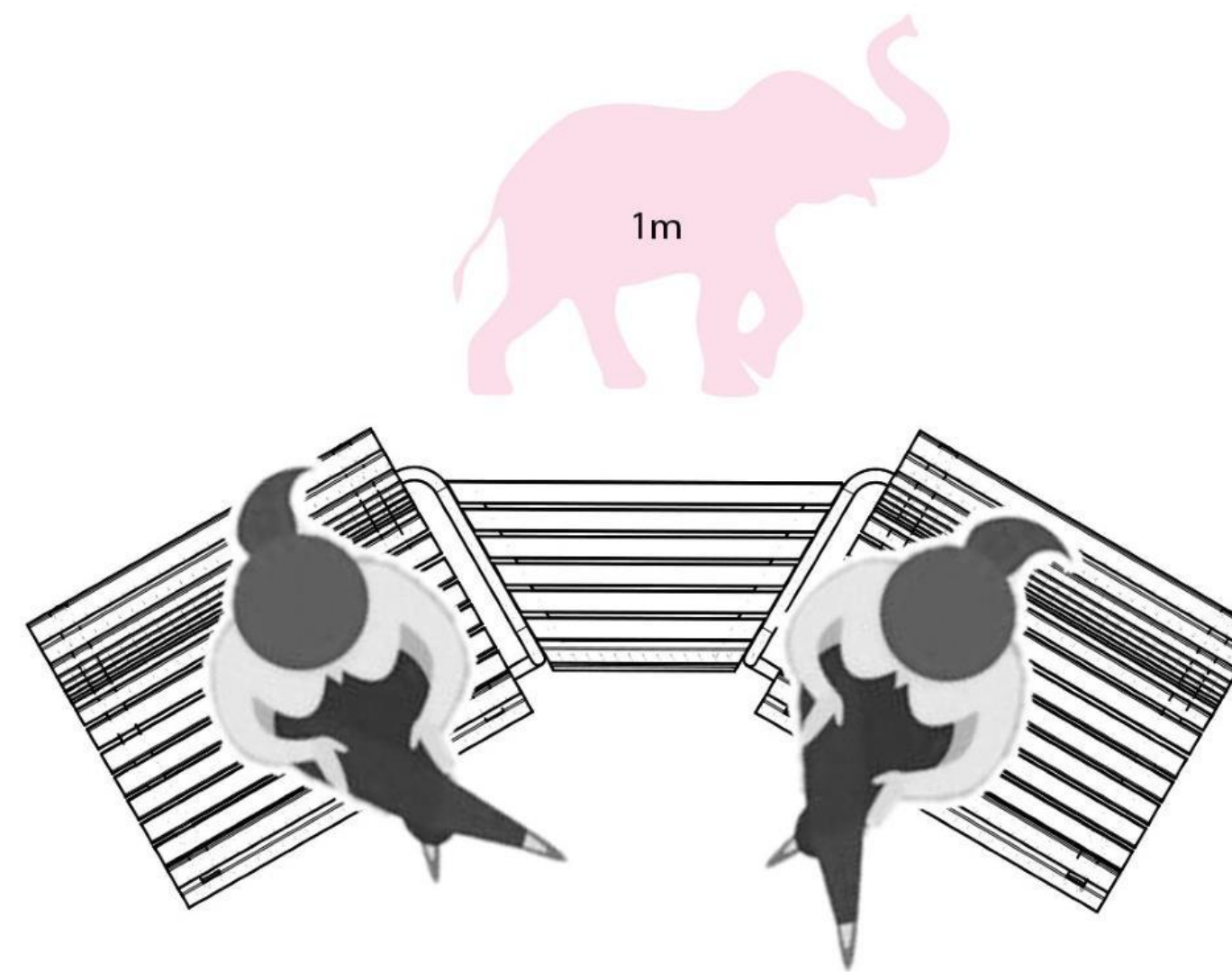
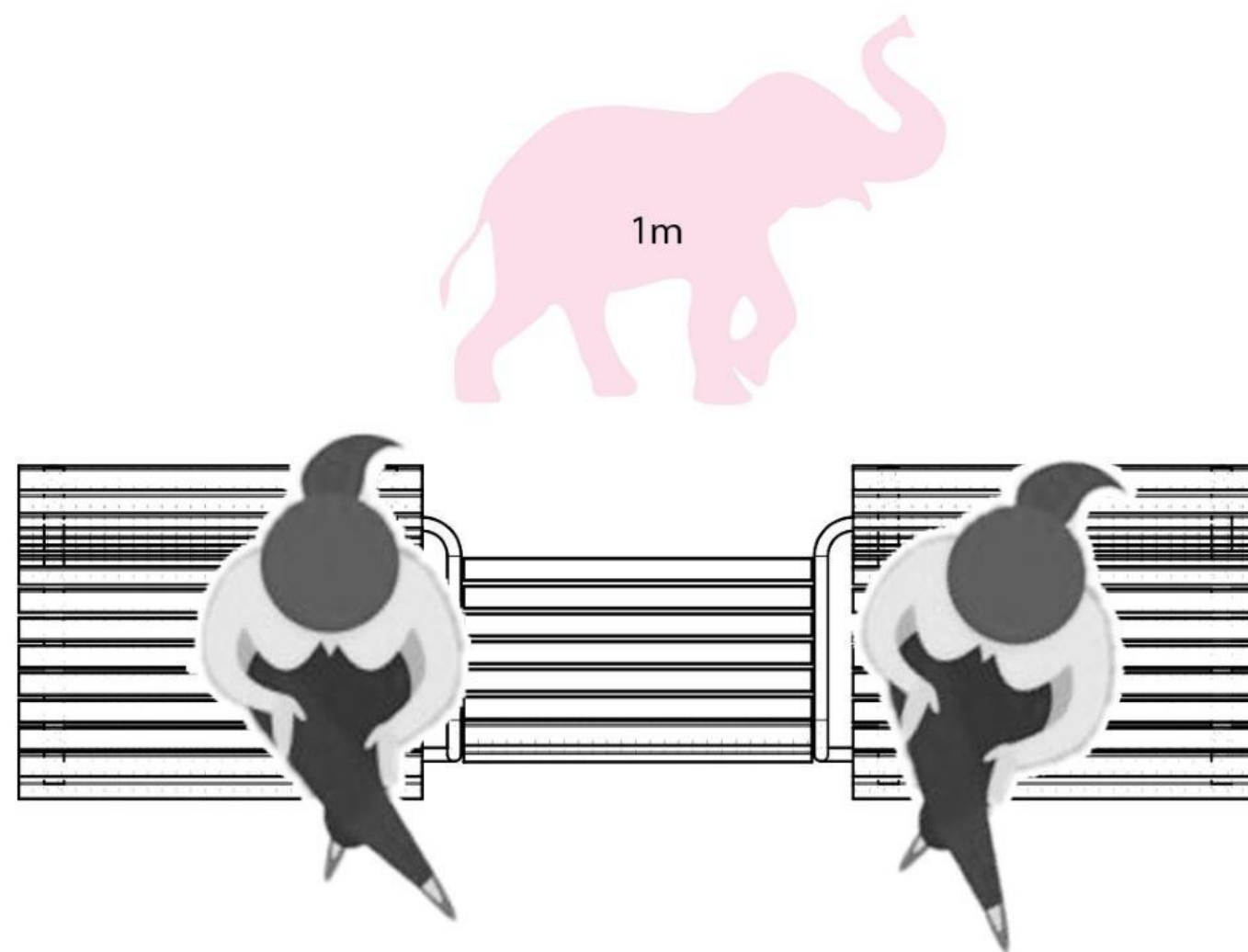
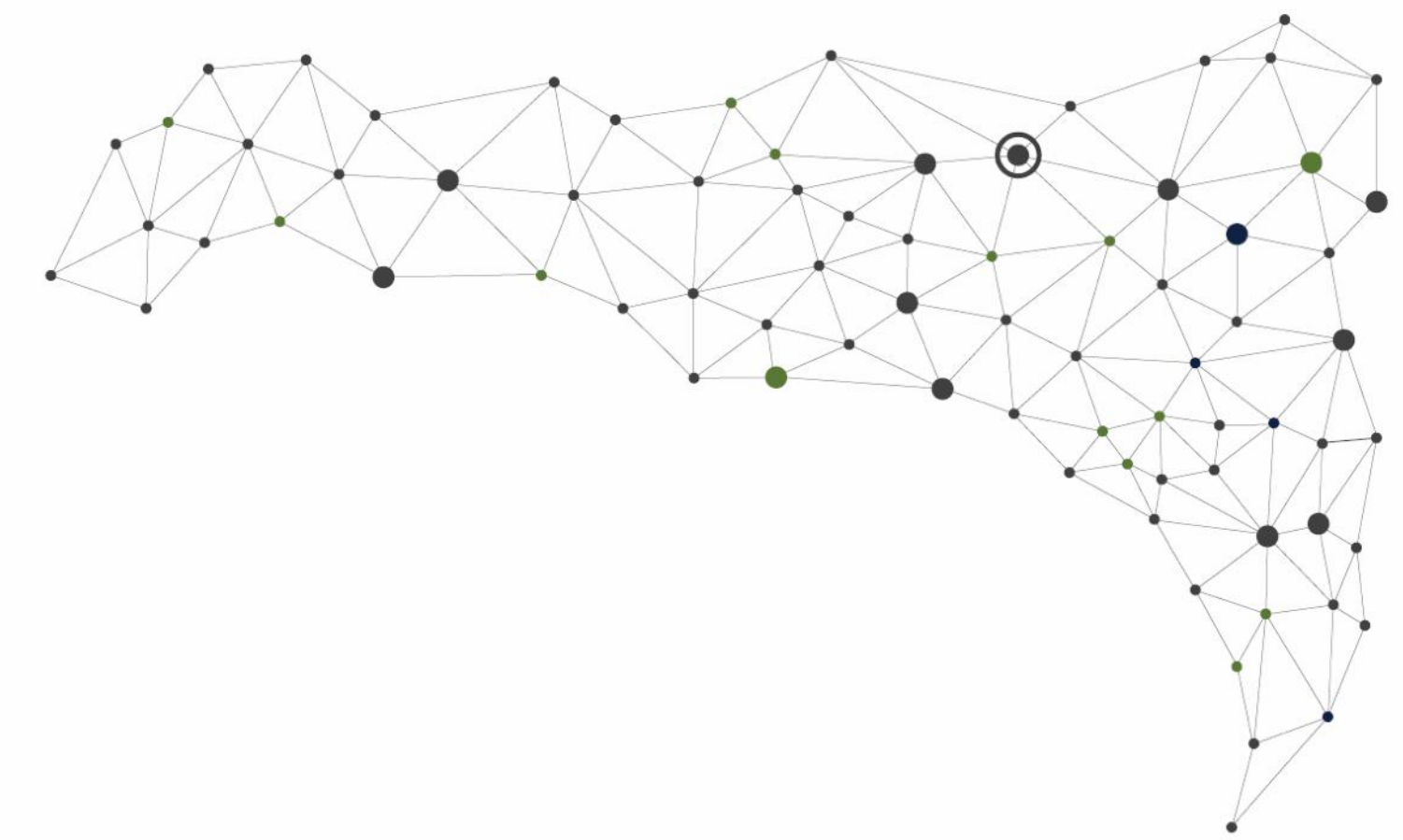


Concept „Tratschbanker!“
Design: Nut & Feder



„Tratschbankerl“ Design: Nut & Feder

image: City of Vienna, Barbara Slotta



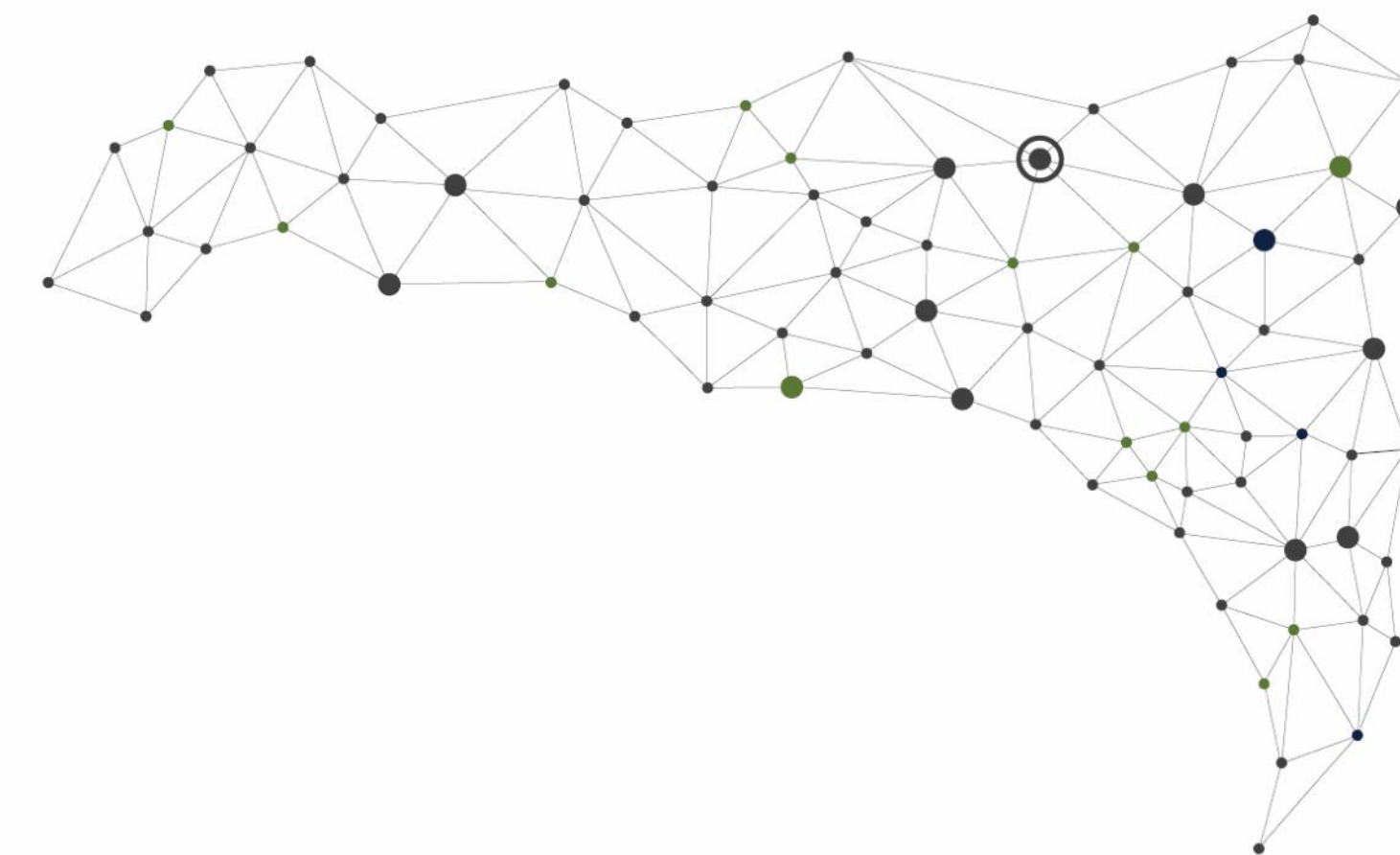
Concept „Tratschbanker!“ Design: POLKA

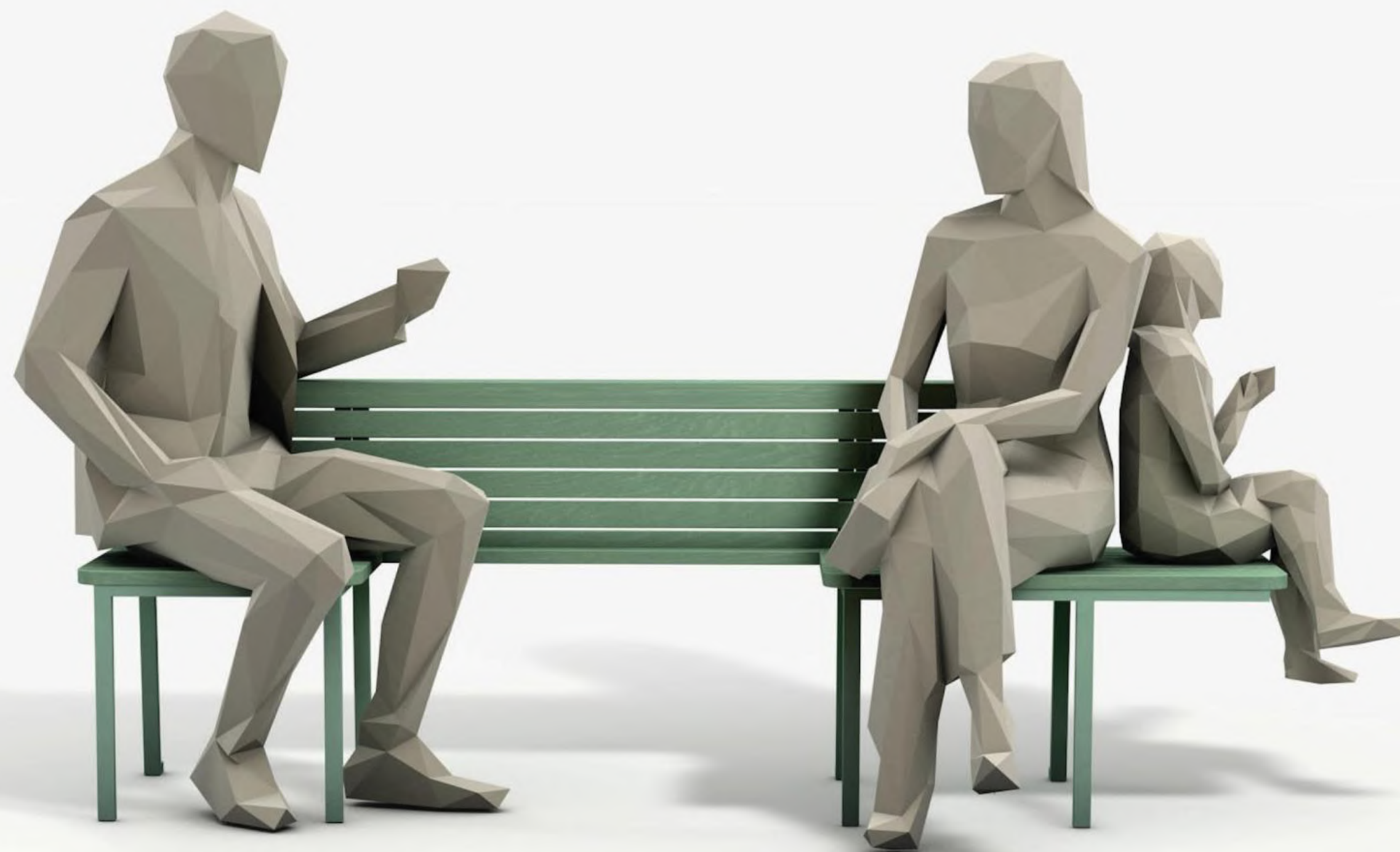
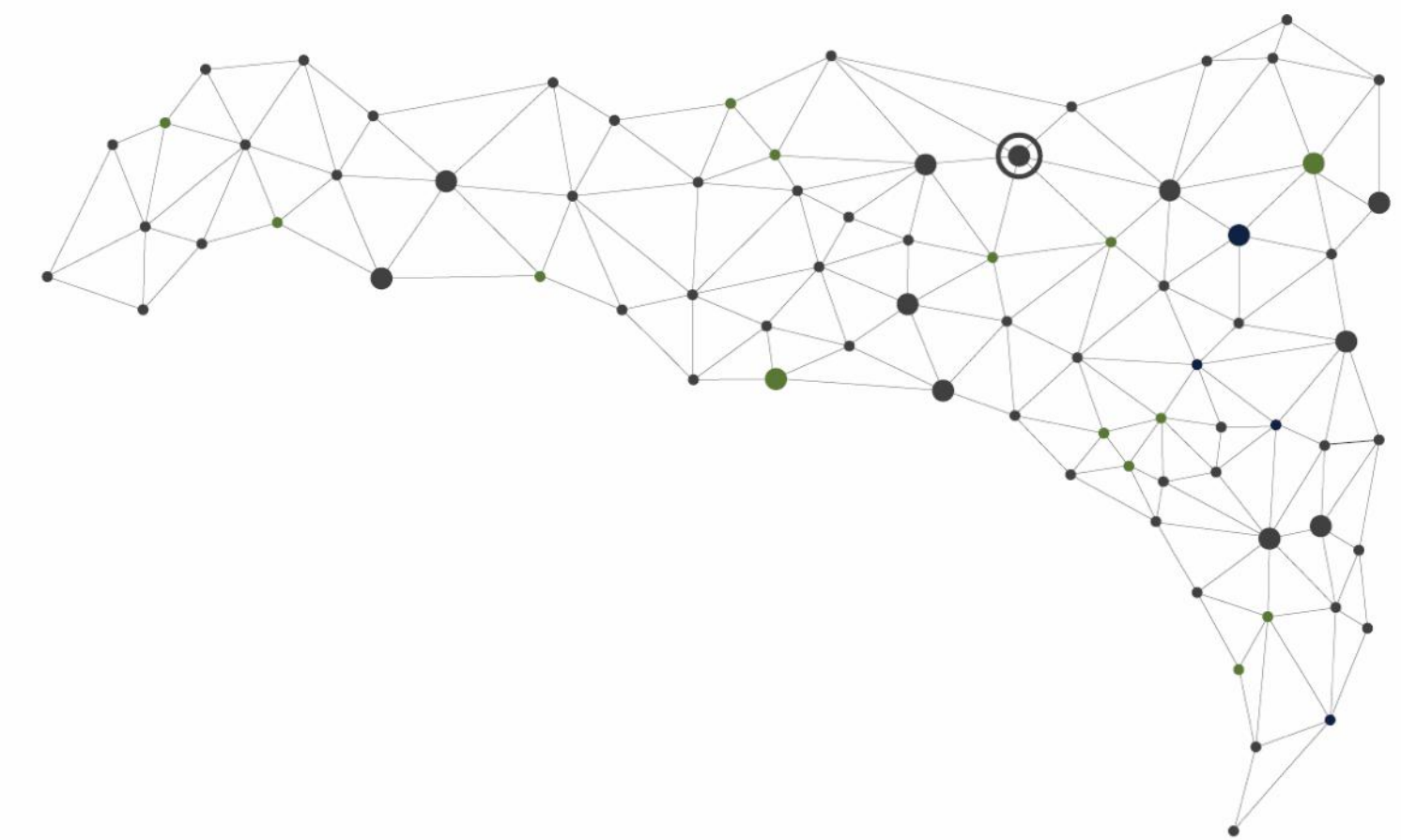
image: POLKA



„Tratschbankerl“ Design: POLKA

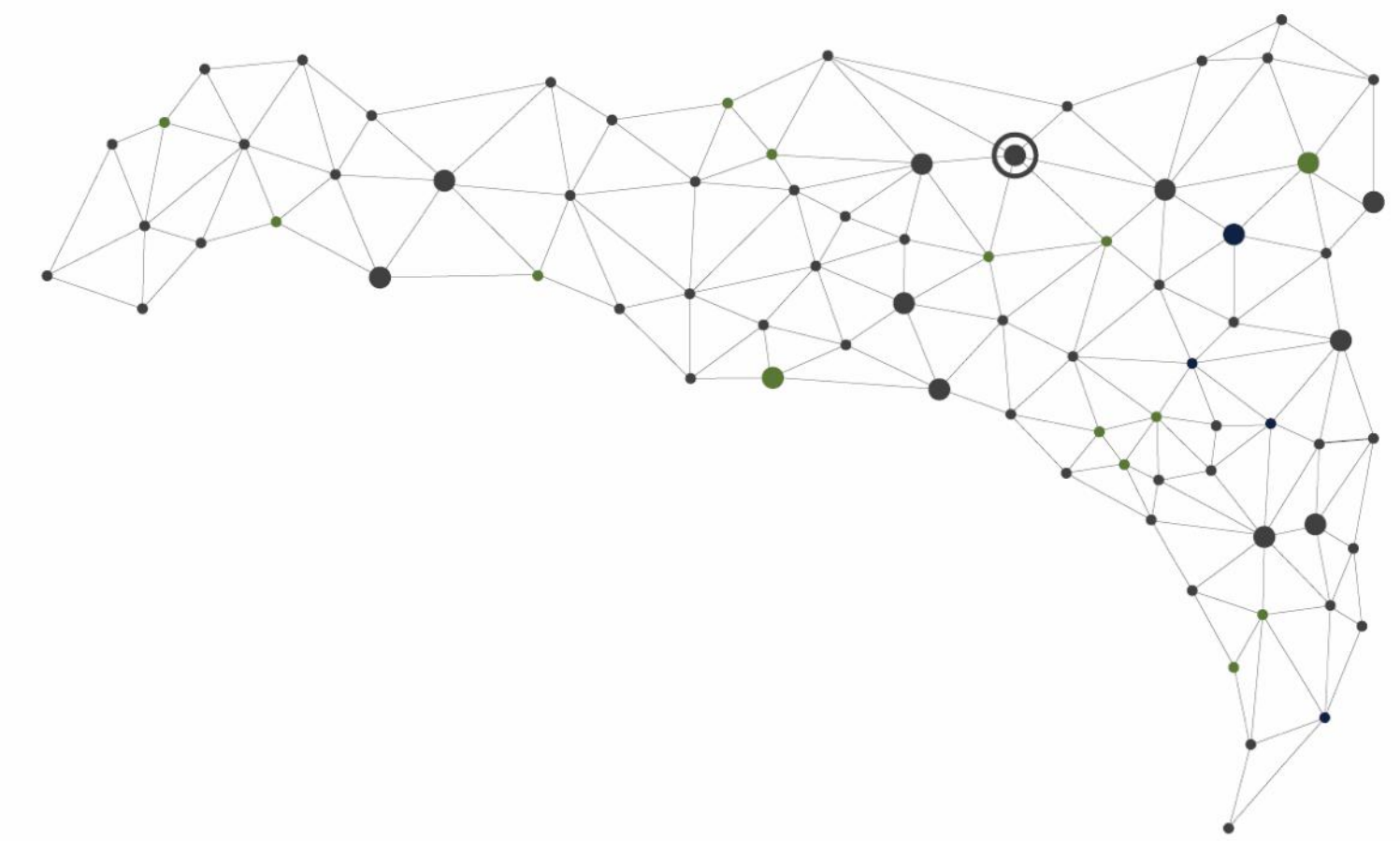
image: City of Vienna, Barbara Slotta



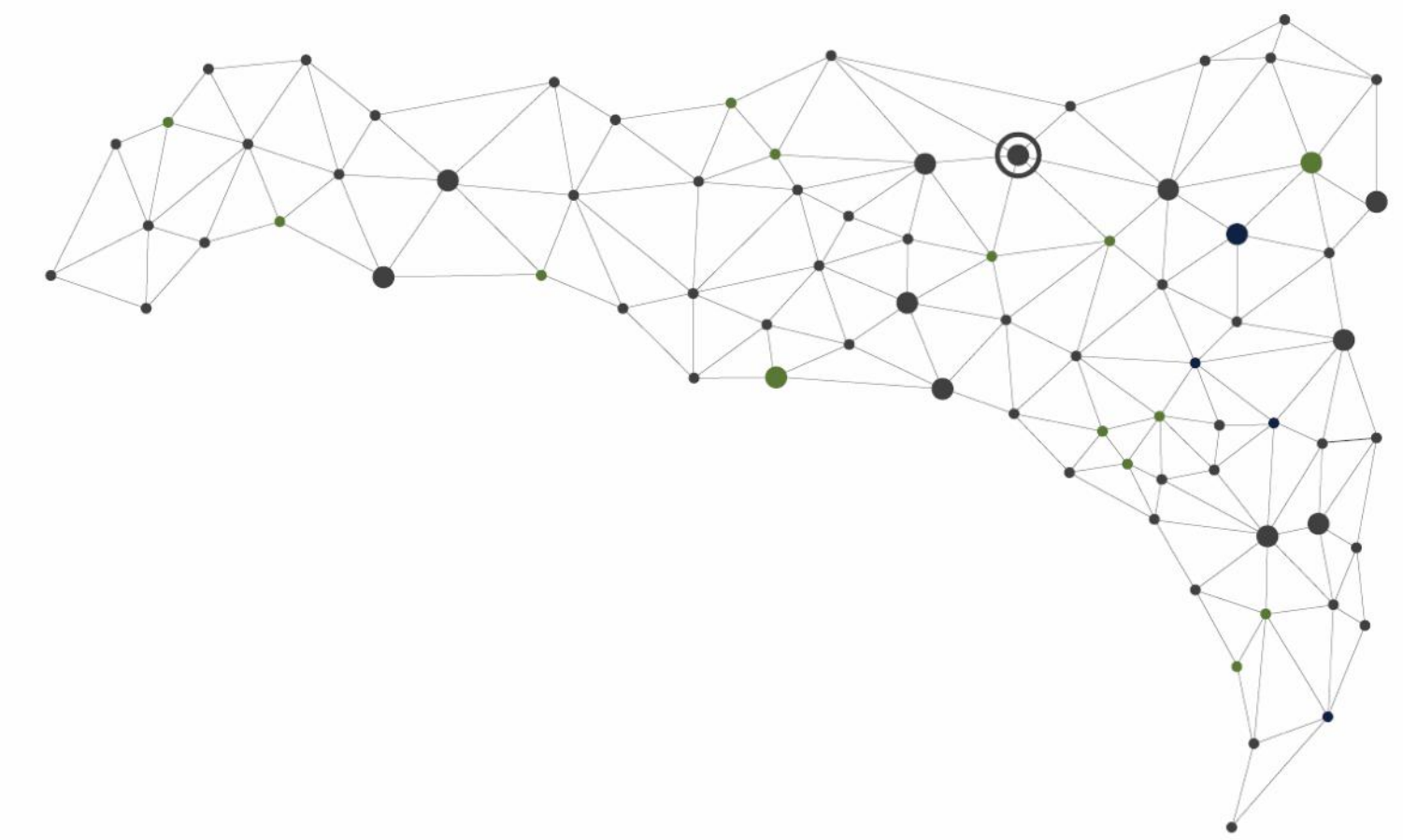


Concept „Tratschbanker!“ Design: dottings Industrial Design

image: dottings Industrial Design



„Tratschbankerl“
Design: dottings Industrial Design
image: City of Vienna, Barbara Slotta



„Tratschbankerl“ Design: mostlikely

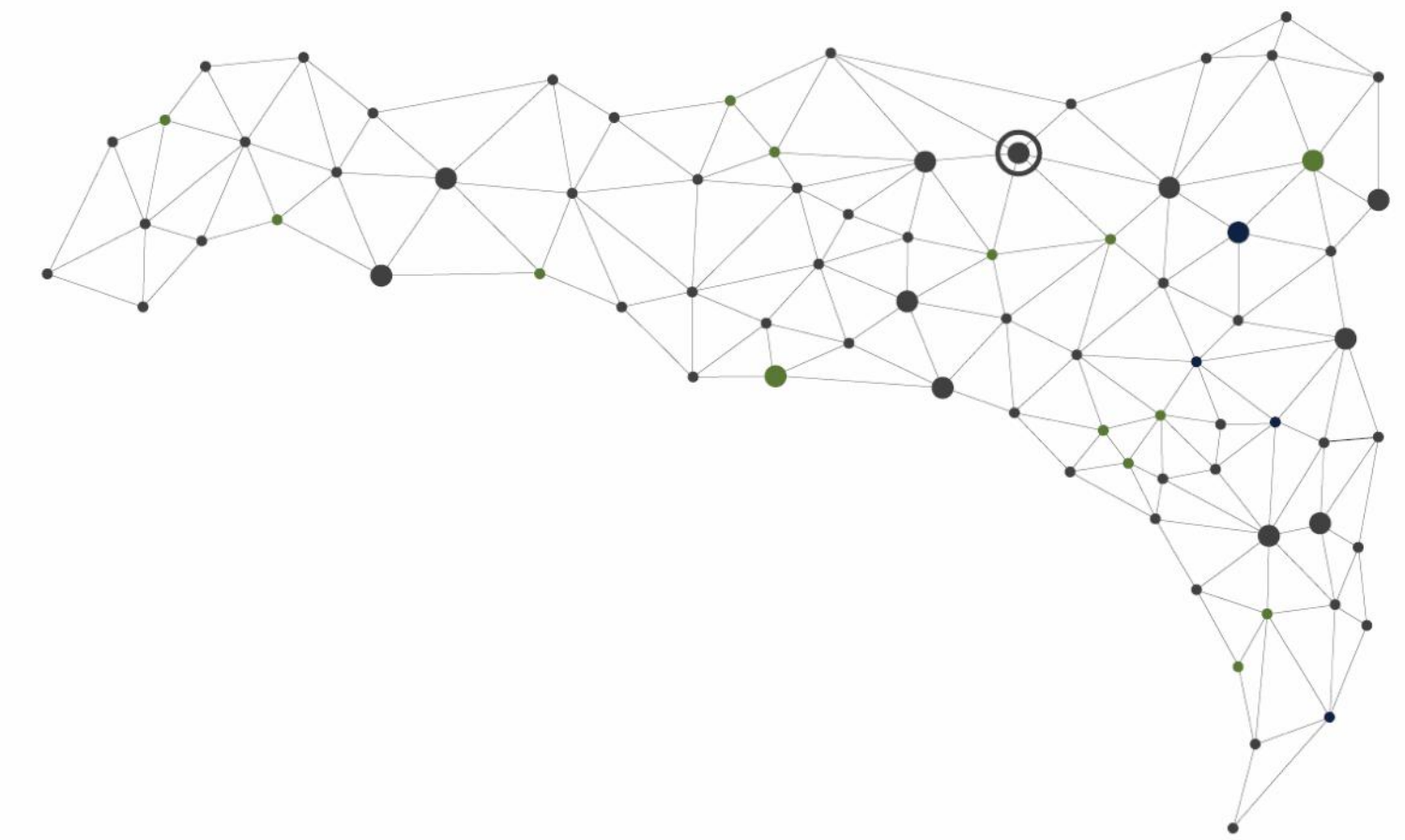
image: City of Vienna, Barbara Slotta

Survey: Urban Public Space and COVID-19

Survey conducted in May 2020

Q: What can we learn from the past experiences regarding Covid-19, in terms of urban public space?

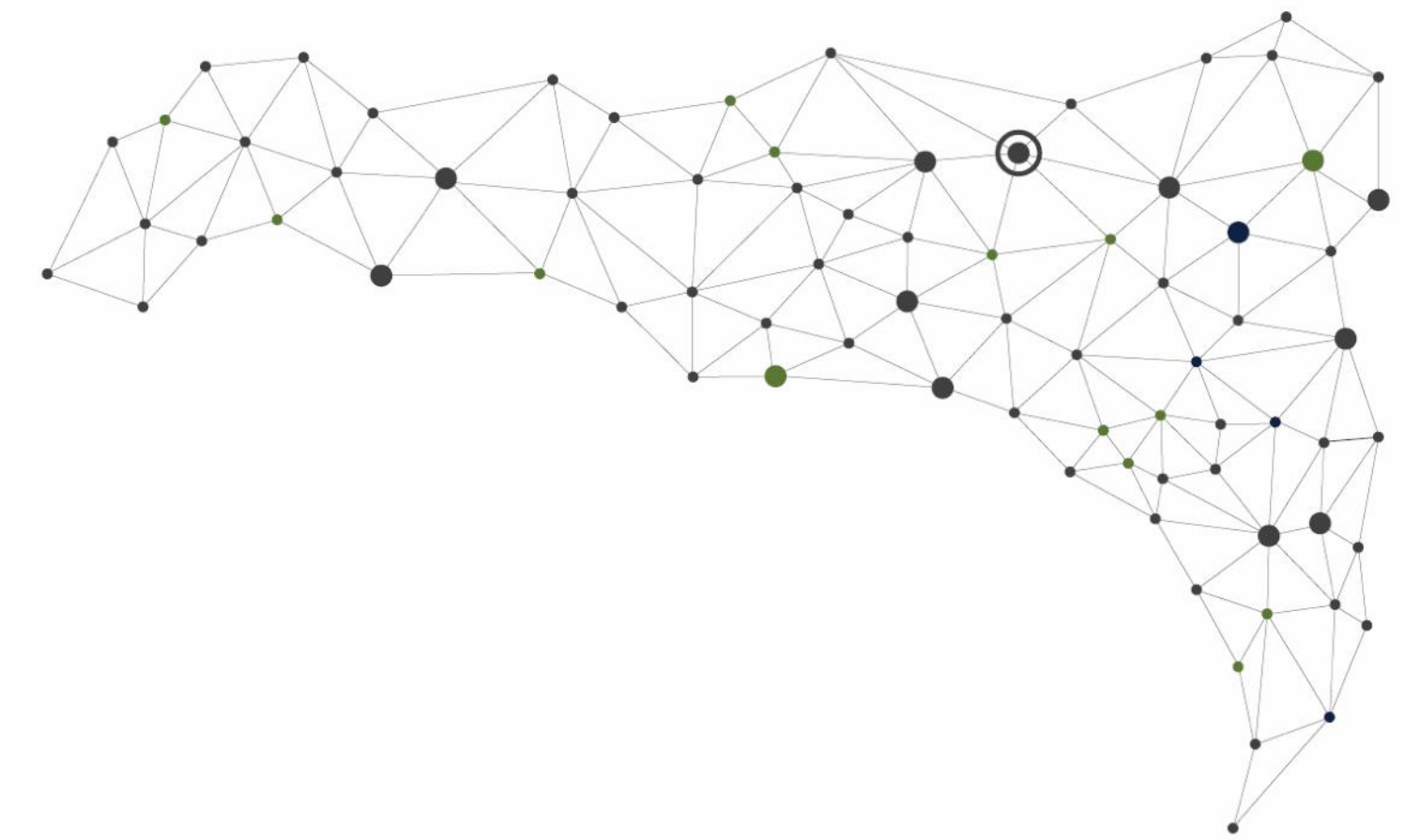
Sample size: 24 pax (municipality, NGOs, educational institutions)



Survey: Urban Public Space and COVID-19

Survey summary (1/2)

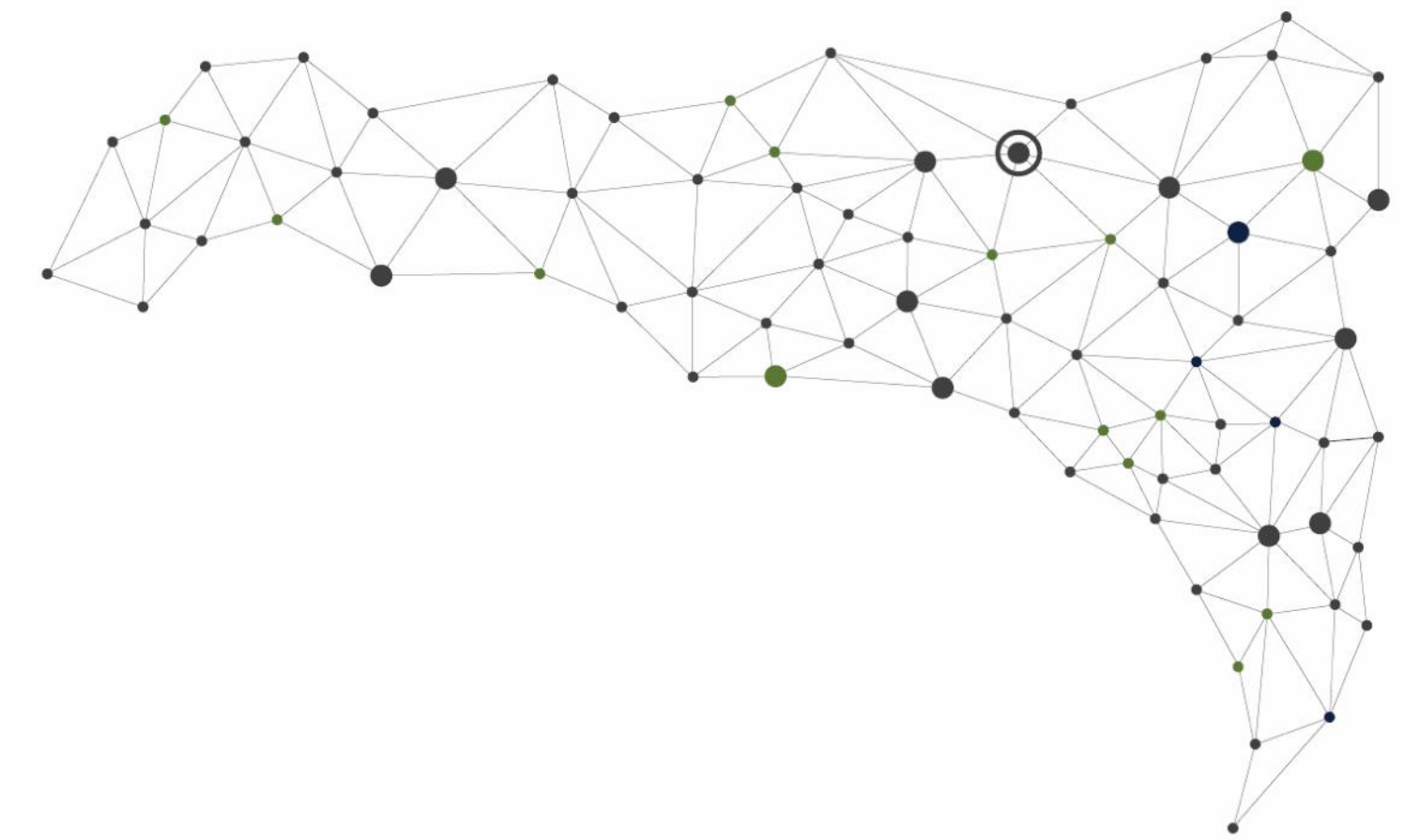
- Growing desire for a fair share
- Growing desire for high-quality designed neighbourhoods
- Urban public space became more relevant as a space for recreation and interaction
- Keeping distance only works when you have an appropriate amount of space

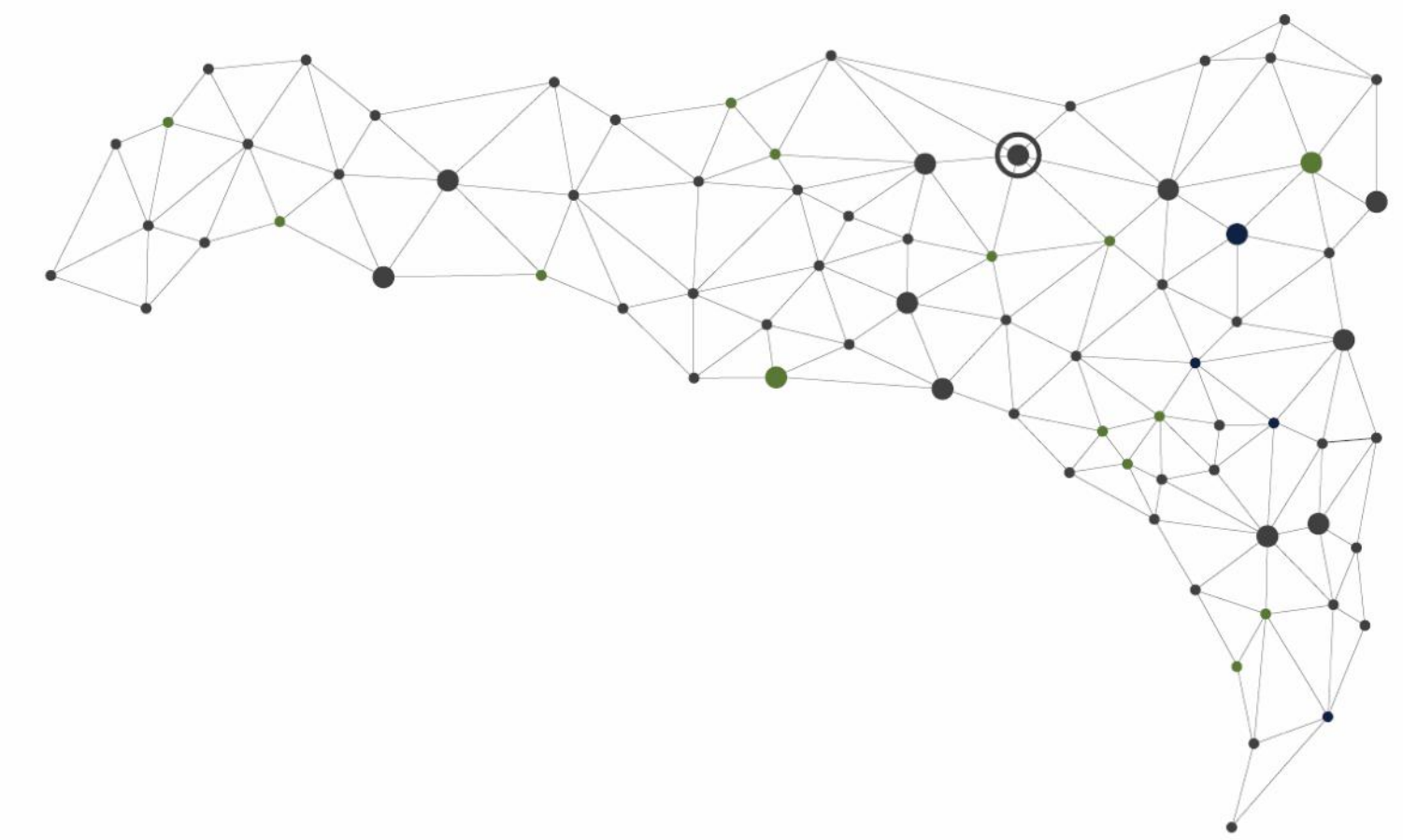


Survey: Urban Public Space and COVID-19

Survey summary (2/2)

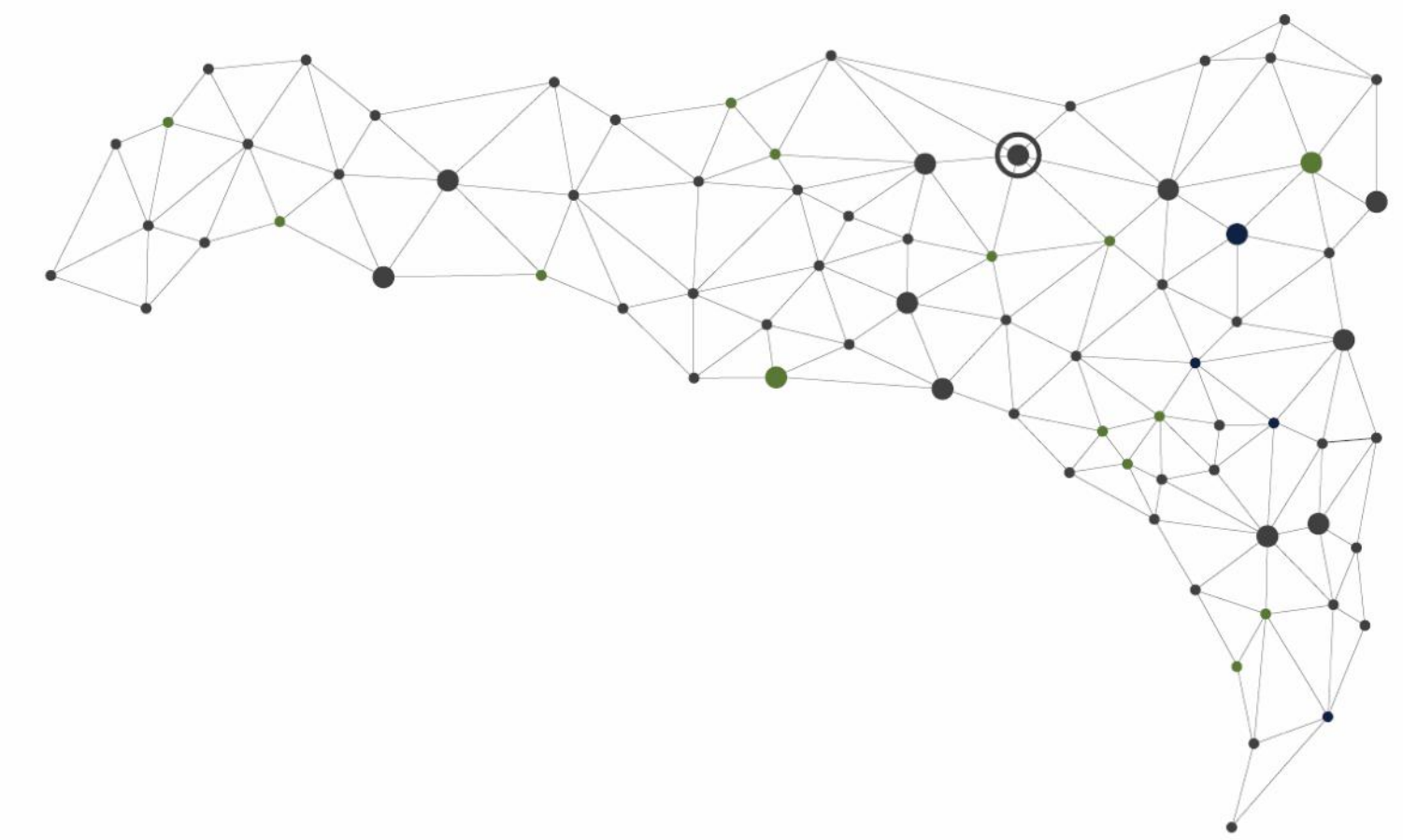
- Motorised personal transport is a potential risk, since cars became a „save space“
- New opportunities for shared spaces (although traffic signs alone won't suffice)
- Risk of excluding people with limited online access/capabilities during public participation processes since participation takes place online only





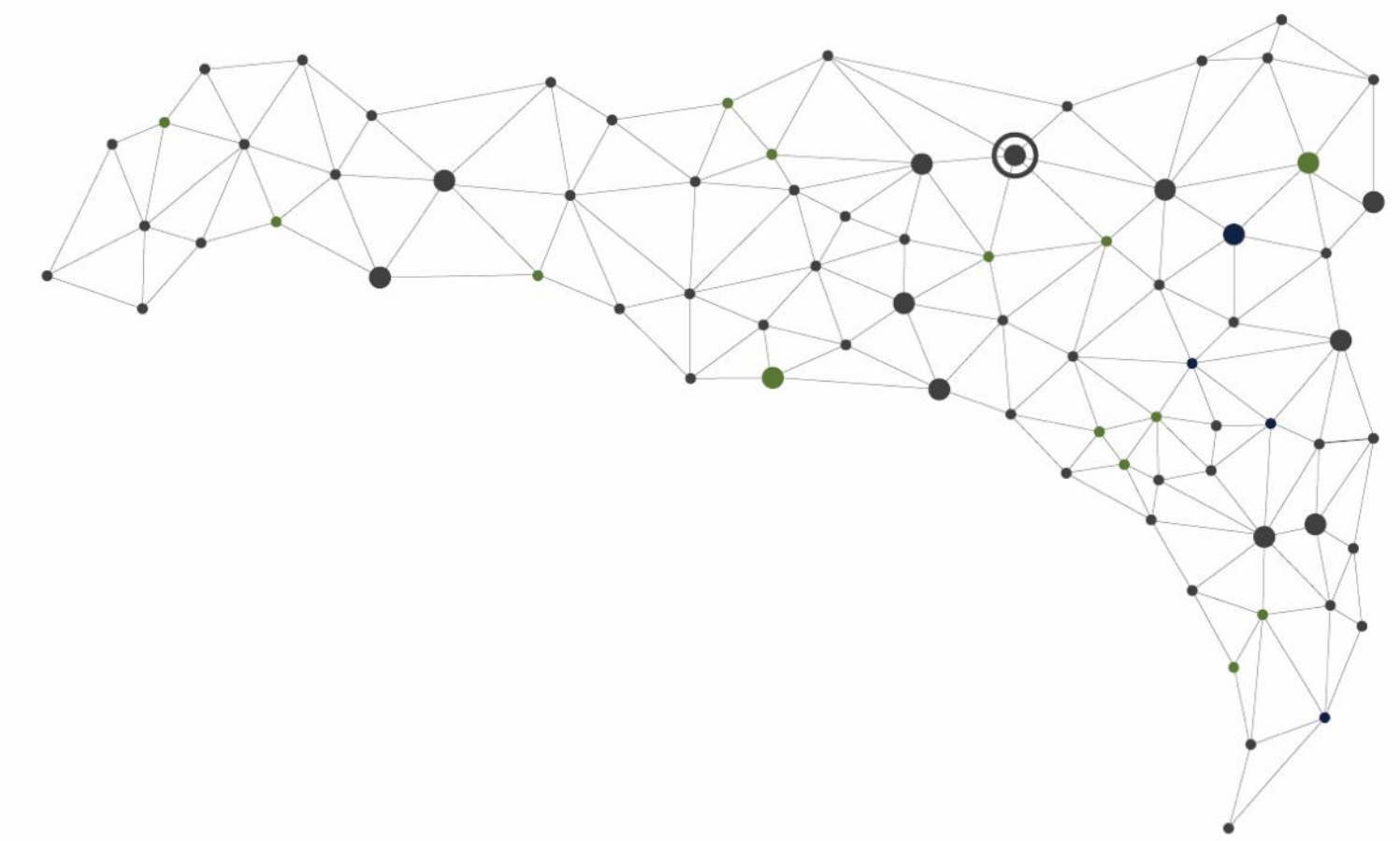
Cool Street 2020

image: City of Vienna, Christian Fürthner



Cool Street 2020

image: City of Vienna, Christian Fürthner



Cool Street 2020

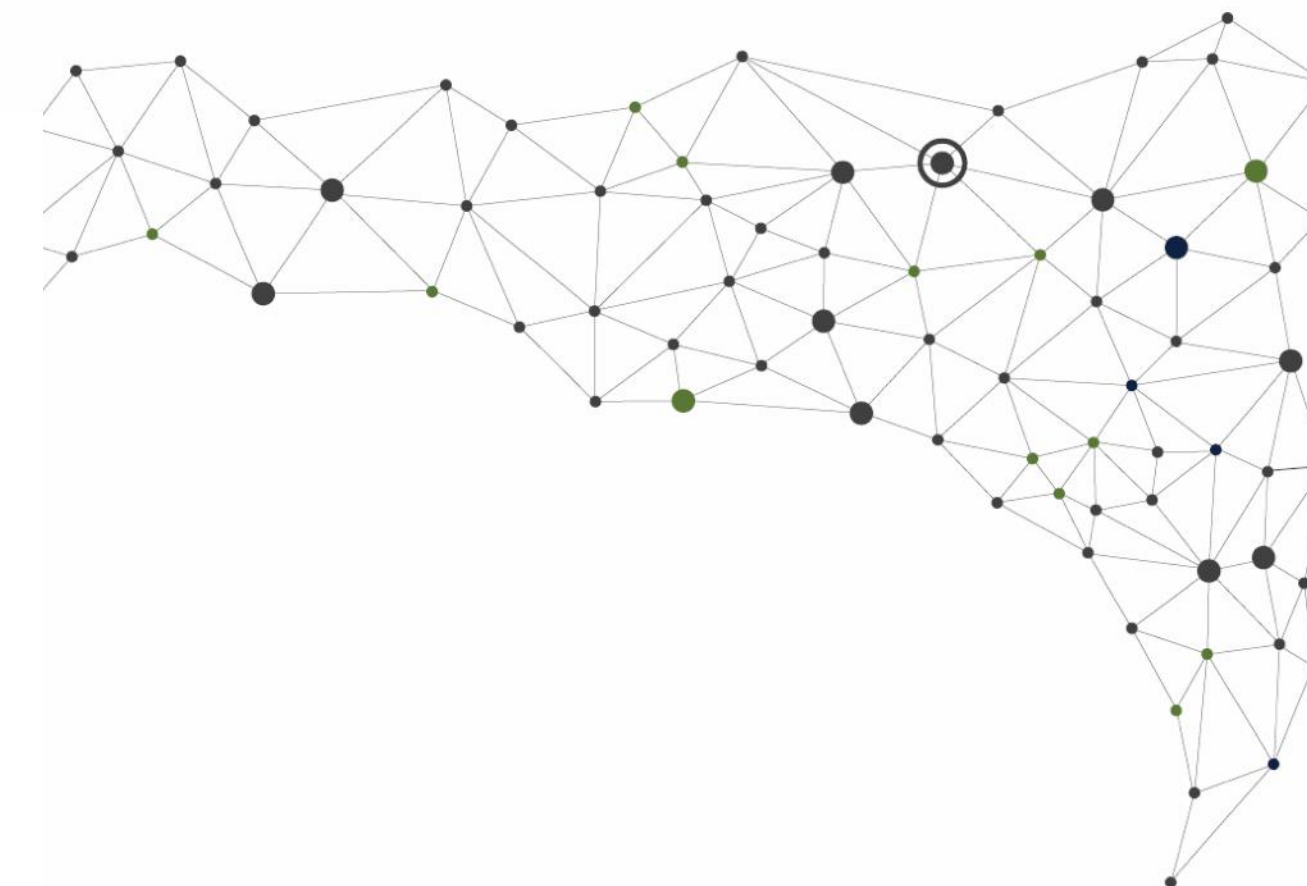
image: City of Vienna, Christian Fürthner

City of Vienna
Cool Streets and Cool Streets Plus

● Cool Streets
 ● Cool Streets Plus



© Mobilitätsagentur Wien/Johannes Essl



Commissioned by



18 Coole Straßen 2020

 450
Aktionen

 40
zusätzliche Bäumchen

 680
Buntstifte

 850
Liter Seifenblasen-
flüssigkeit

 765
Straßenkreiden

 880
Kinderzeichnungen

 1.360
Einträge in die
Logbücher

77%
aller WienerInnen
kennen die Coolen Straßen

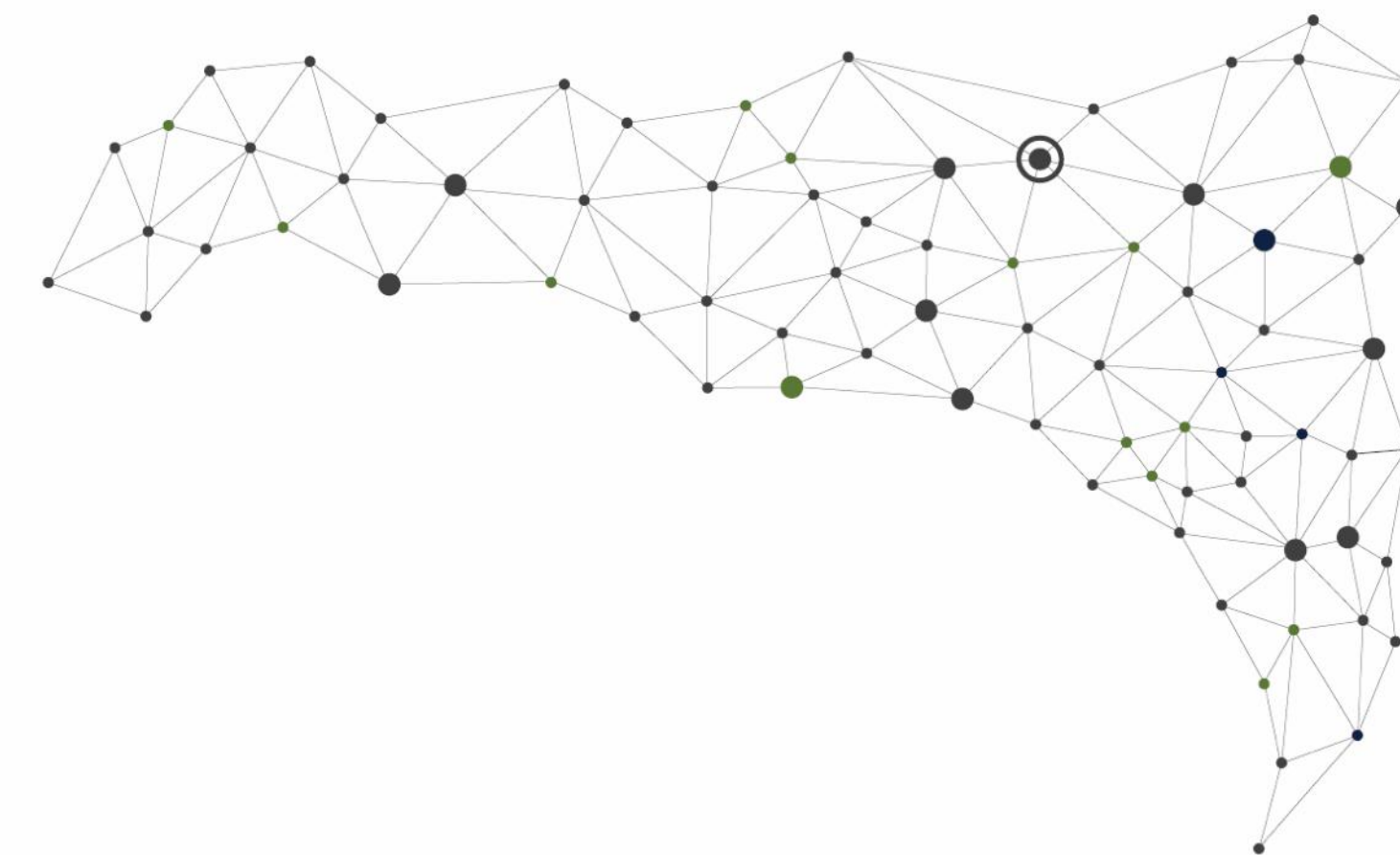
 90
Kräutertöpfe

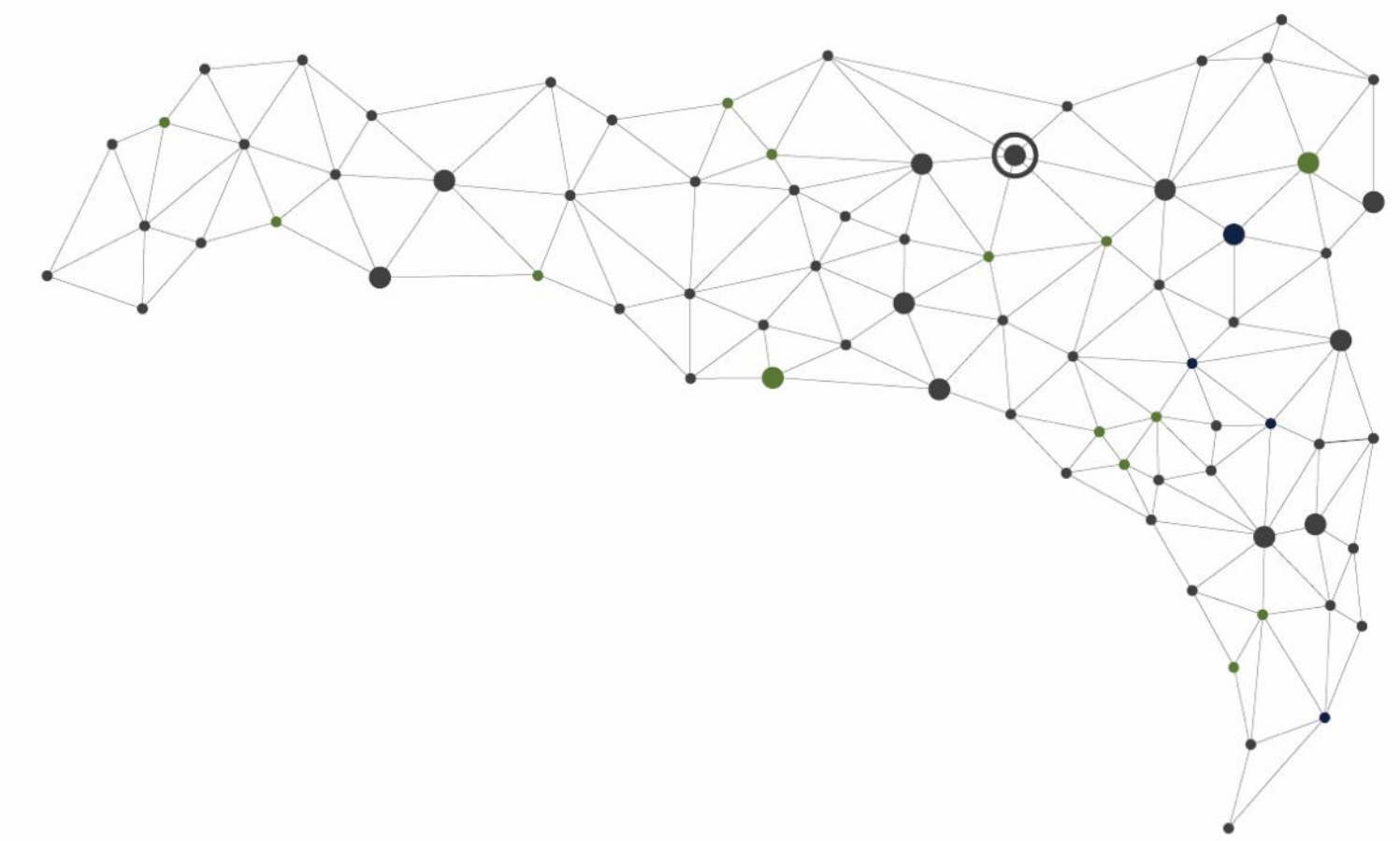
 425
Rückmeldungen in den
Feedbackbriefkästen

 48
Coole Straßen BetreuerInnen

 698
aufgestellte Möbel

 59%
aller WienerInnen halten
Coole Straßen für eine gute Idee





Cool Street 2020

image: City of Vienna, Christian Fürthner

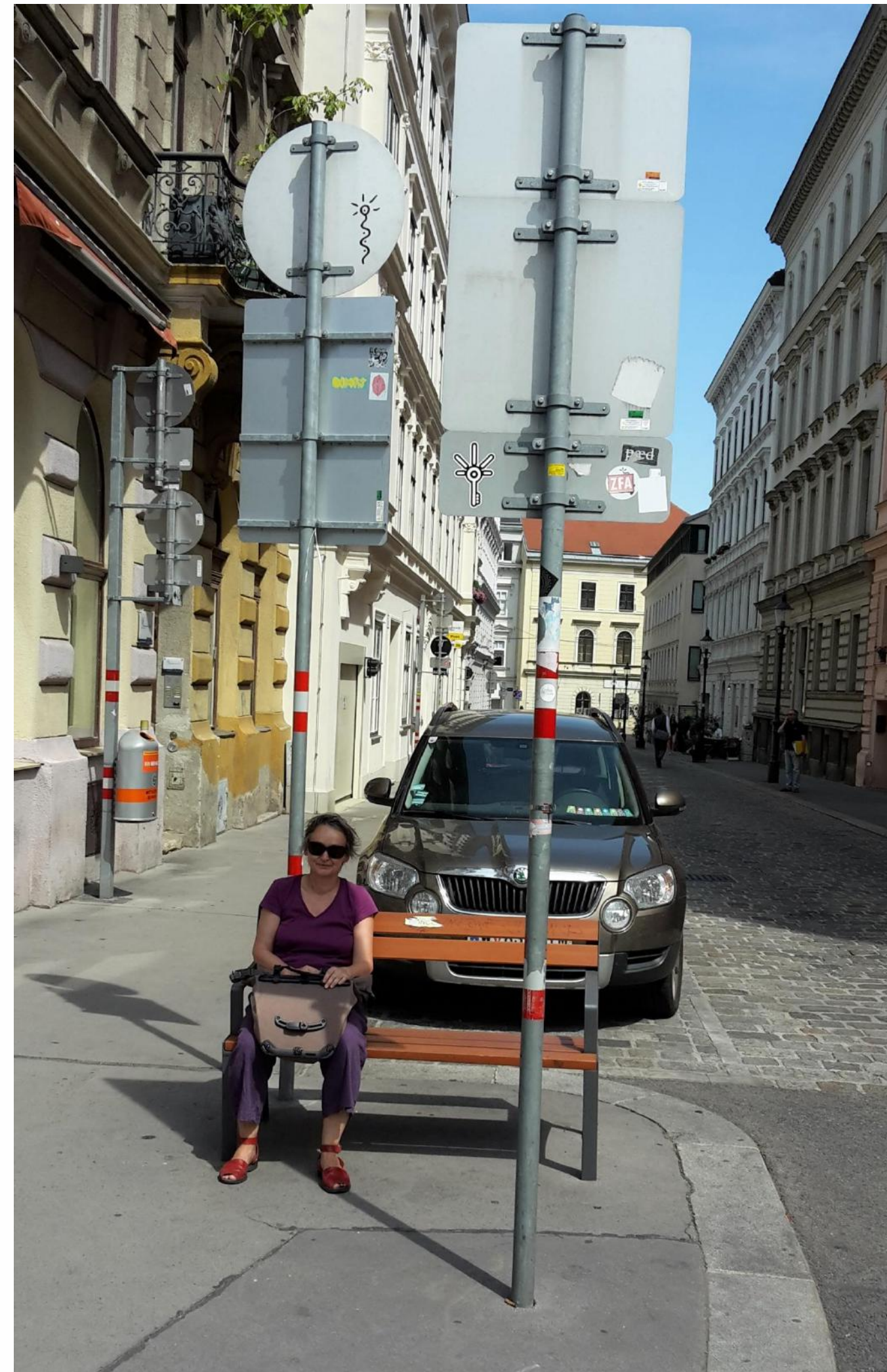
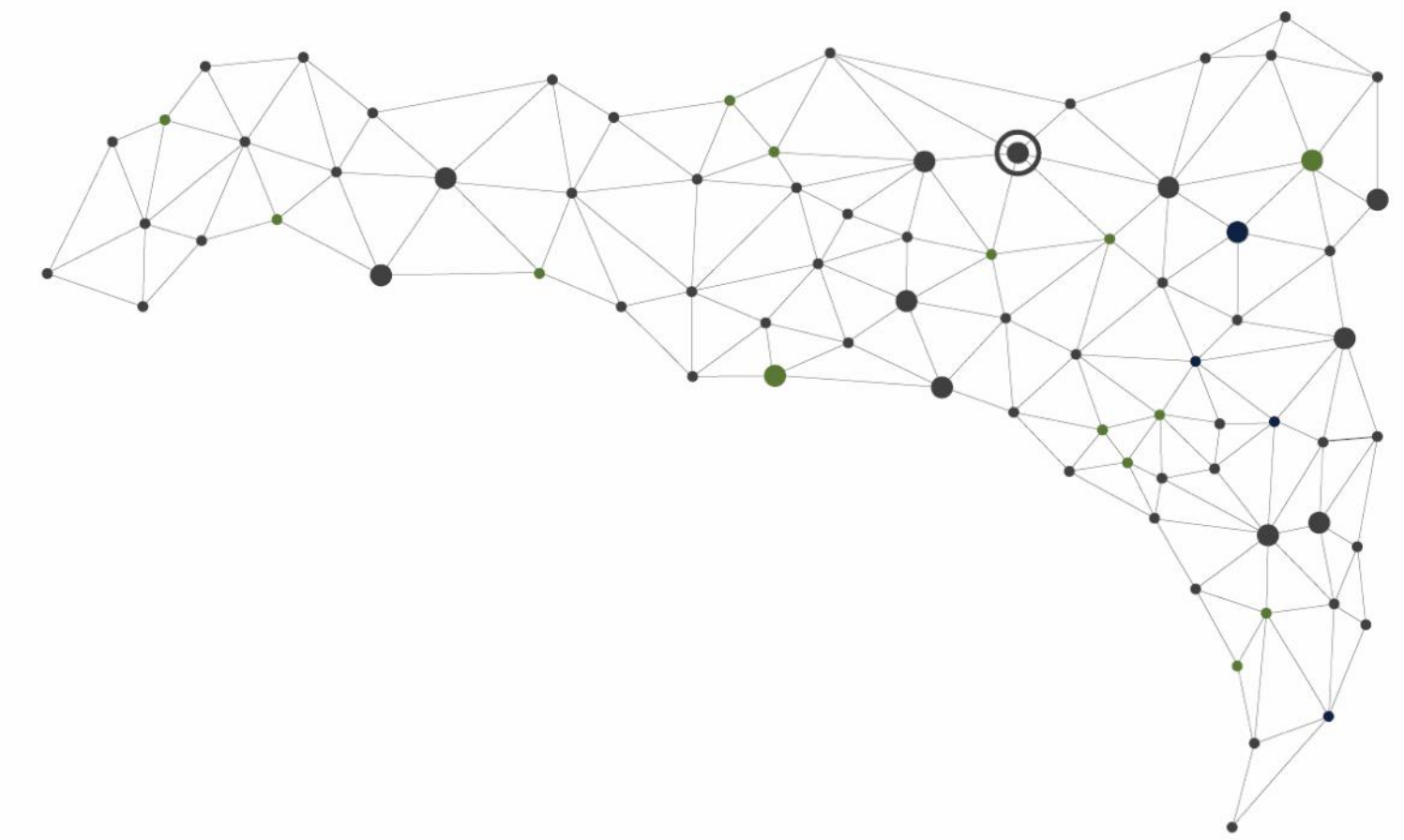
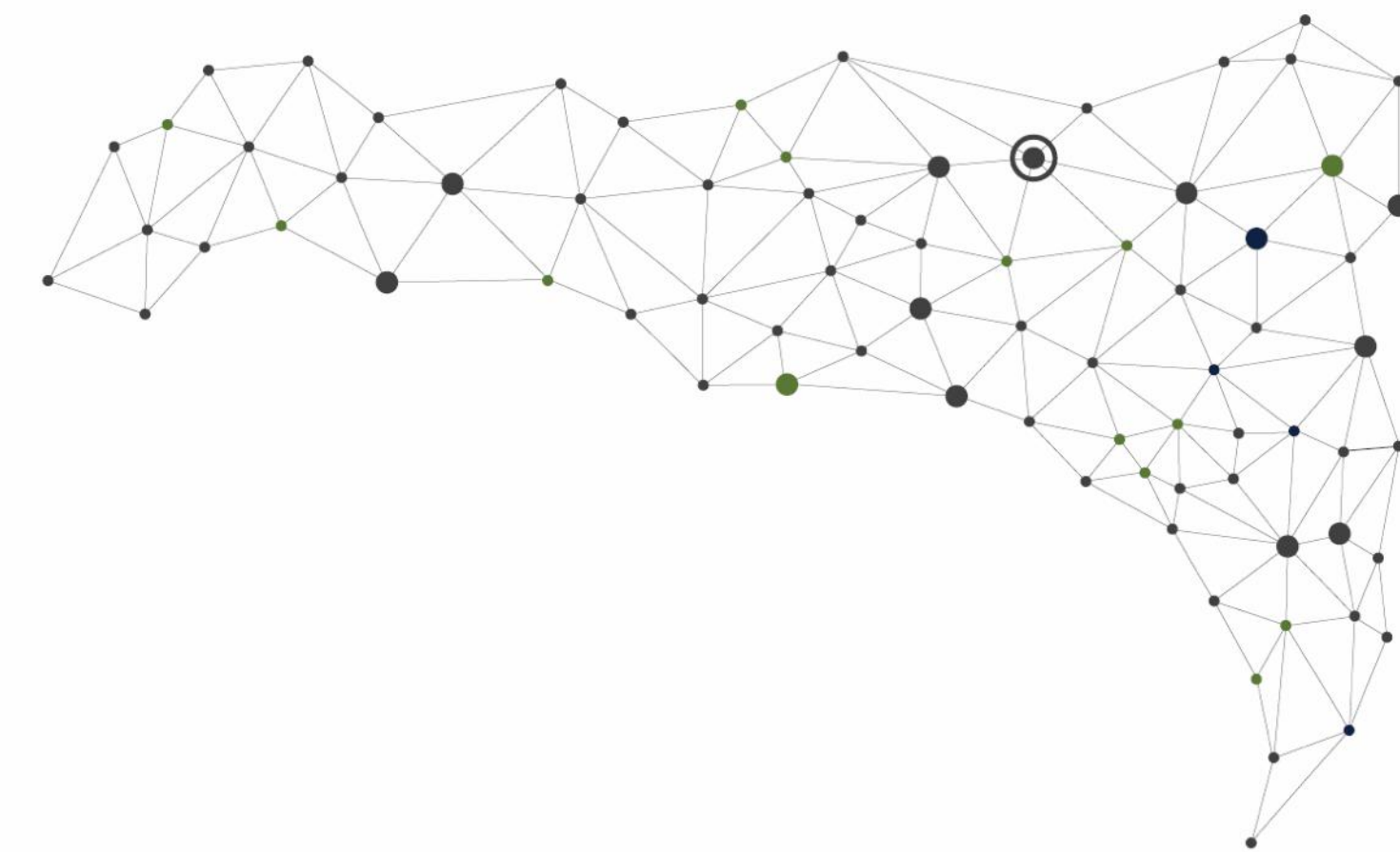


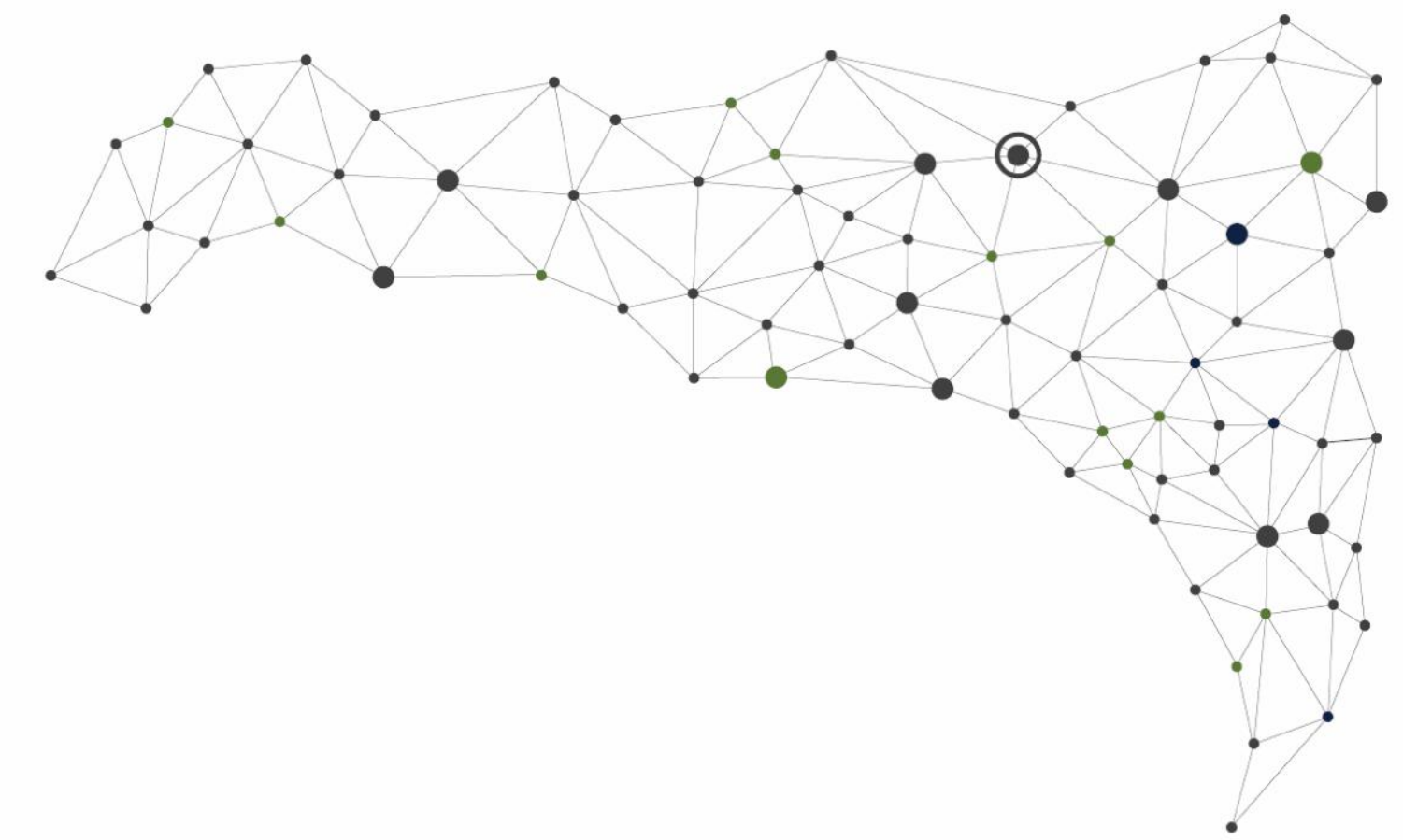
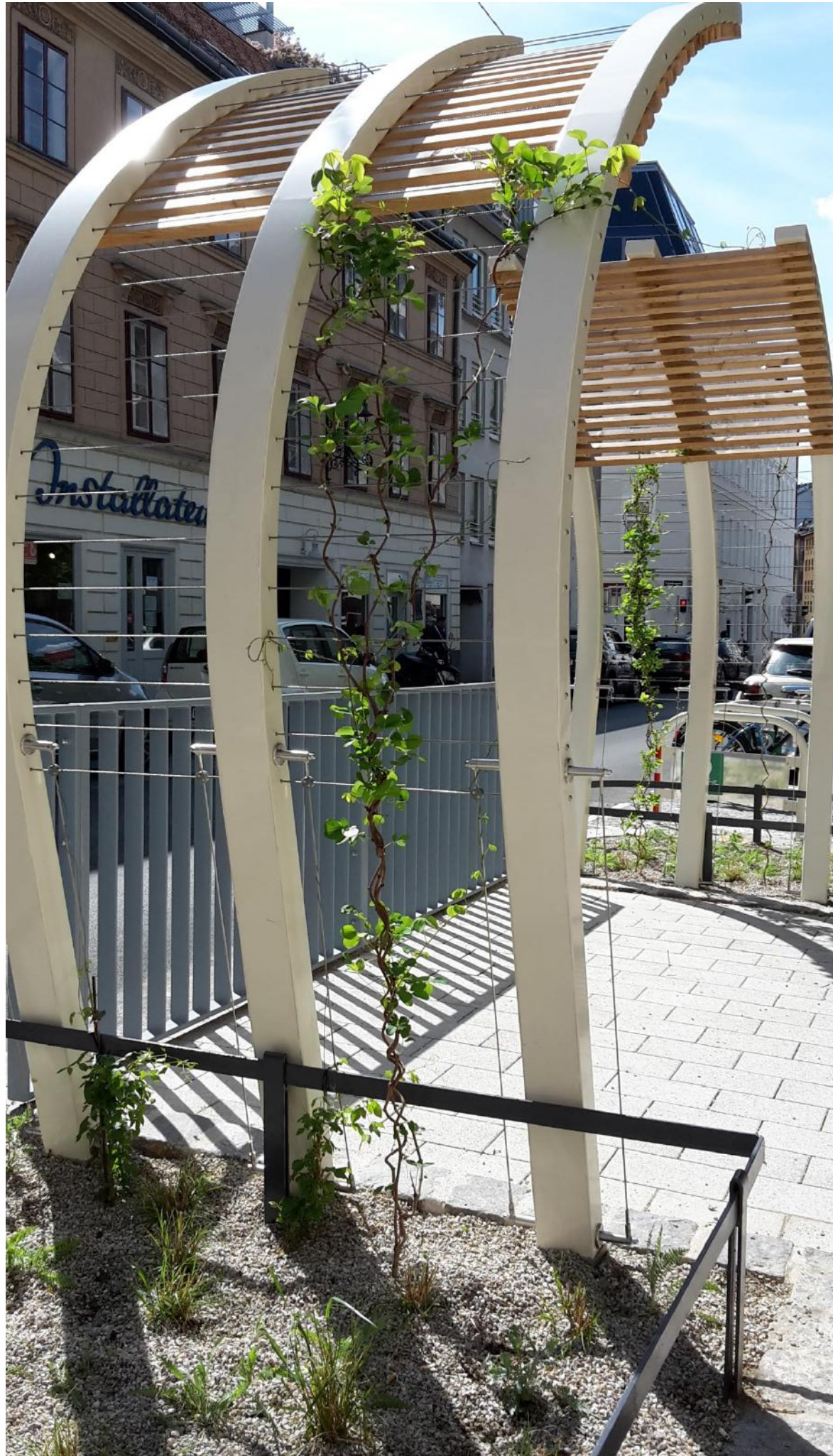
image: City of Vienna, Martina Frühwirth





„Cool Mile“ Zieglergasse

Rendering: ZOOM VP.at



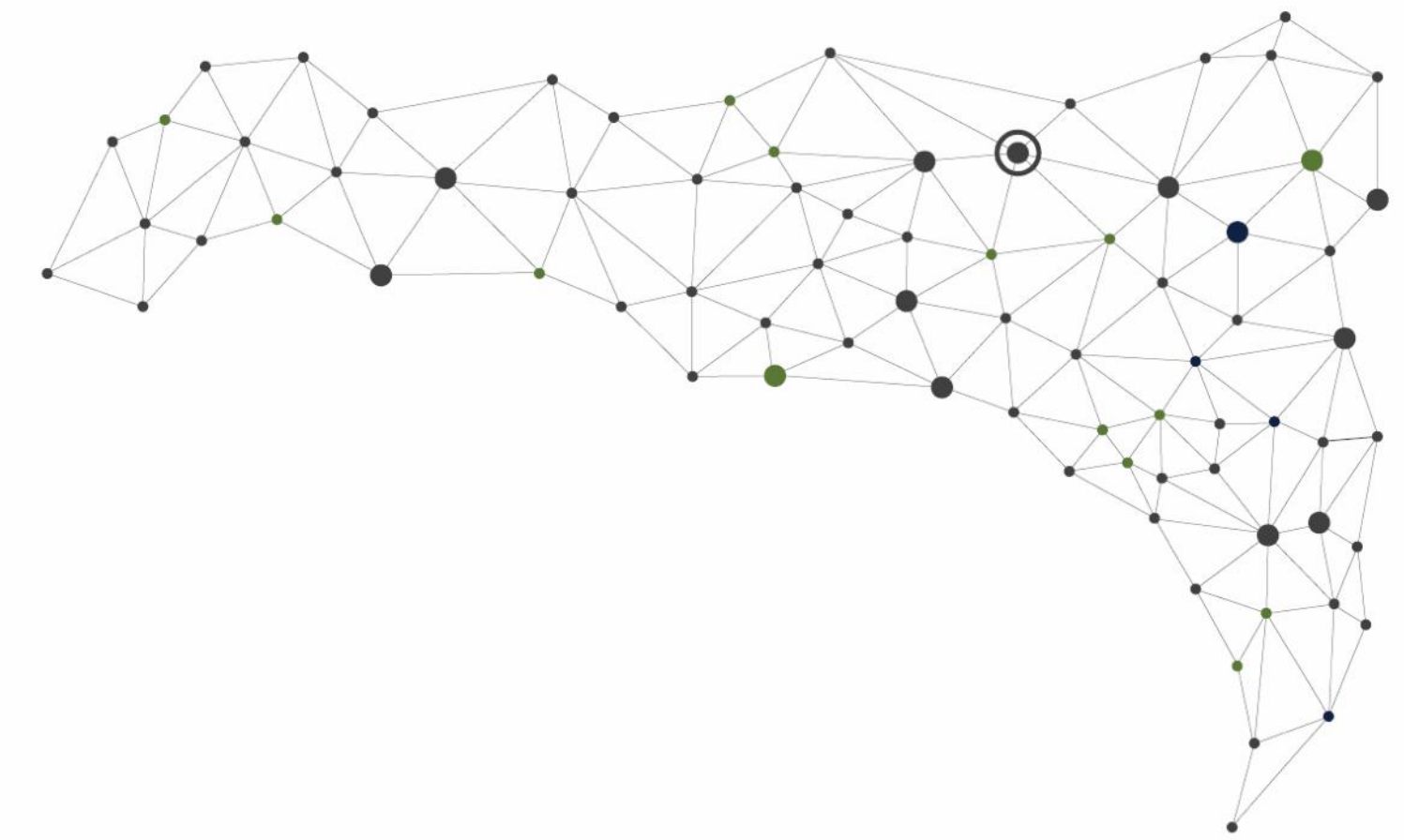
„Cool Mile“ Zieglergasse

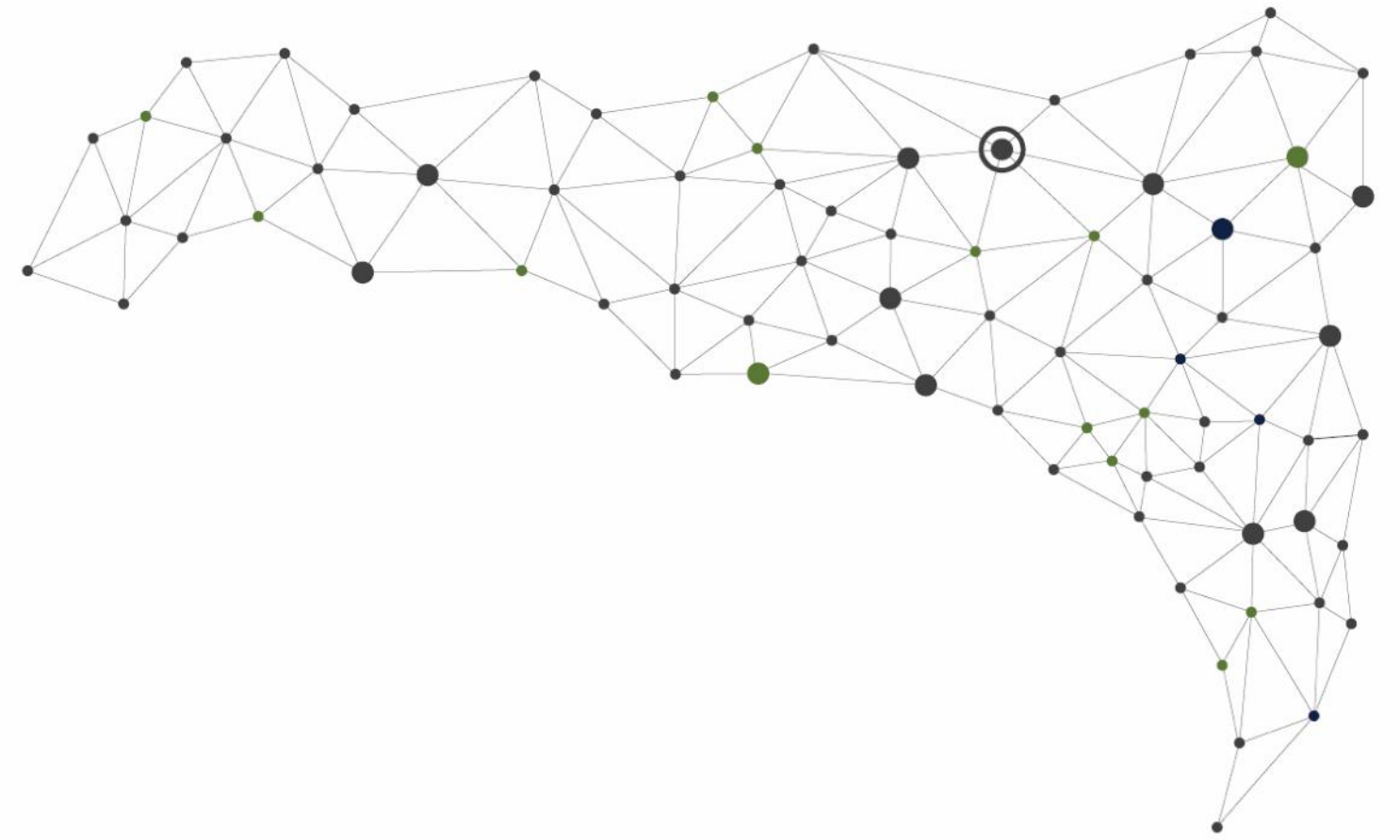
images: City of Vienna, Martina Frühwirth

Thank you for listening!



Martina Frühwirth
City of Vienna – Architecture and Urban Design
Design of Public Space
martina.fruehwirth@wien.gv.at





Q&A



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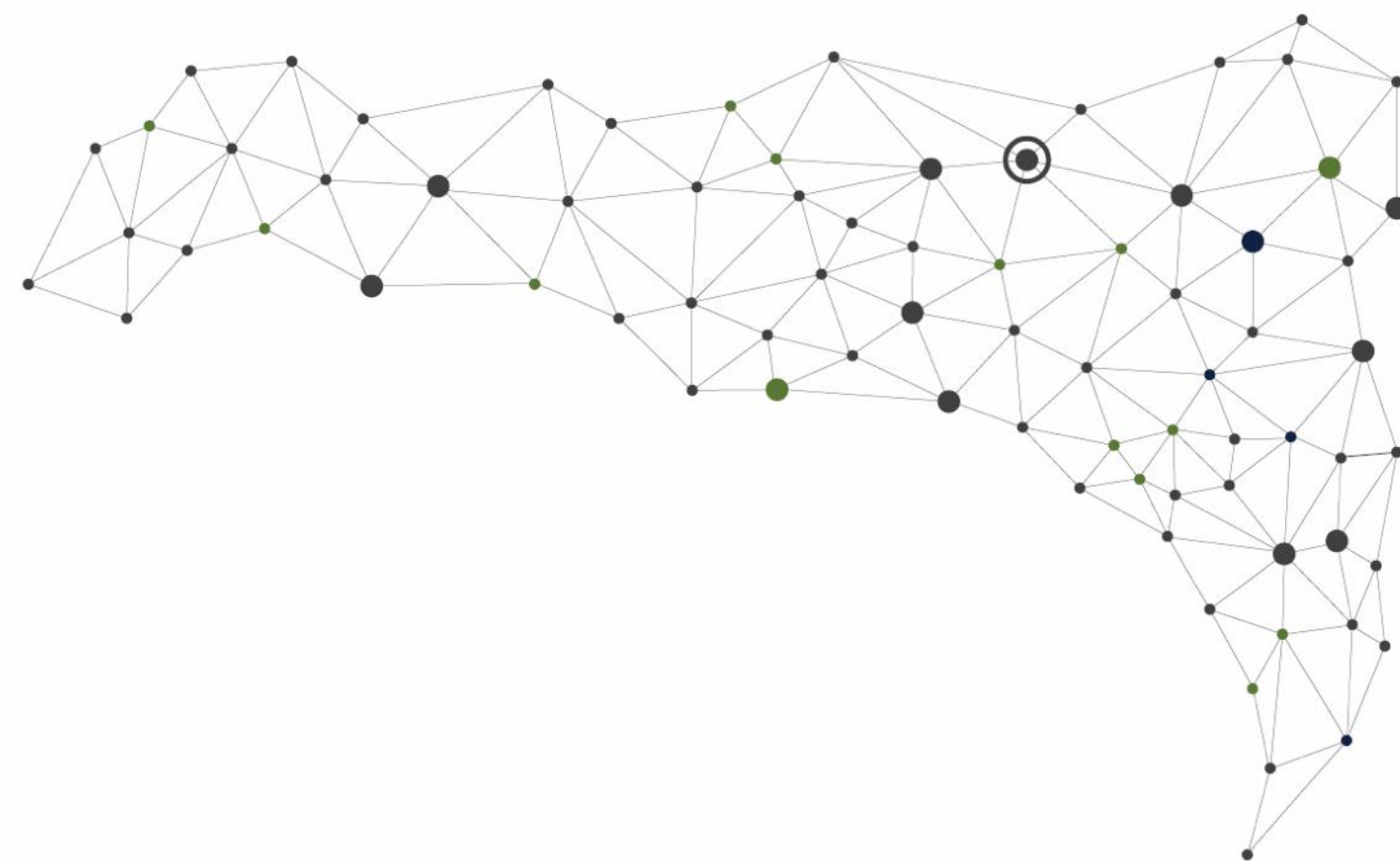
What is your take-away up to now? What did you find especially interesting and innovative?





Do you think COVID-19 is actually a chance for urban green recovery?



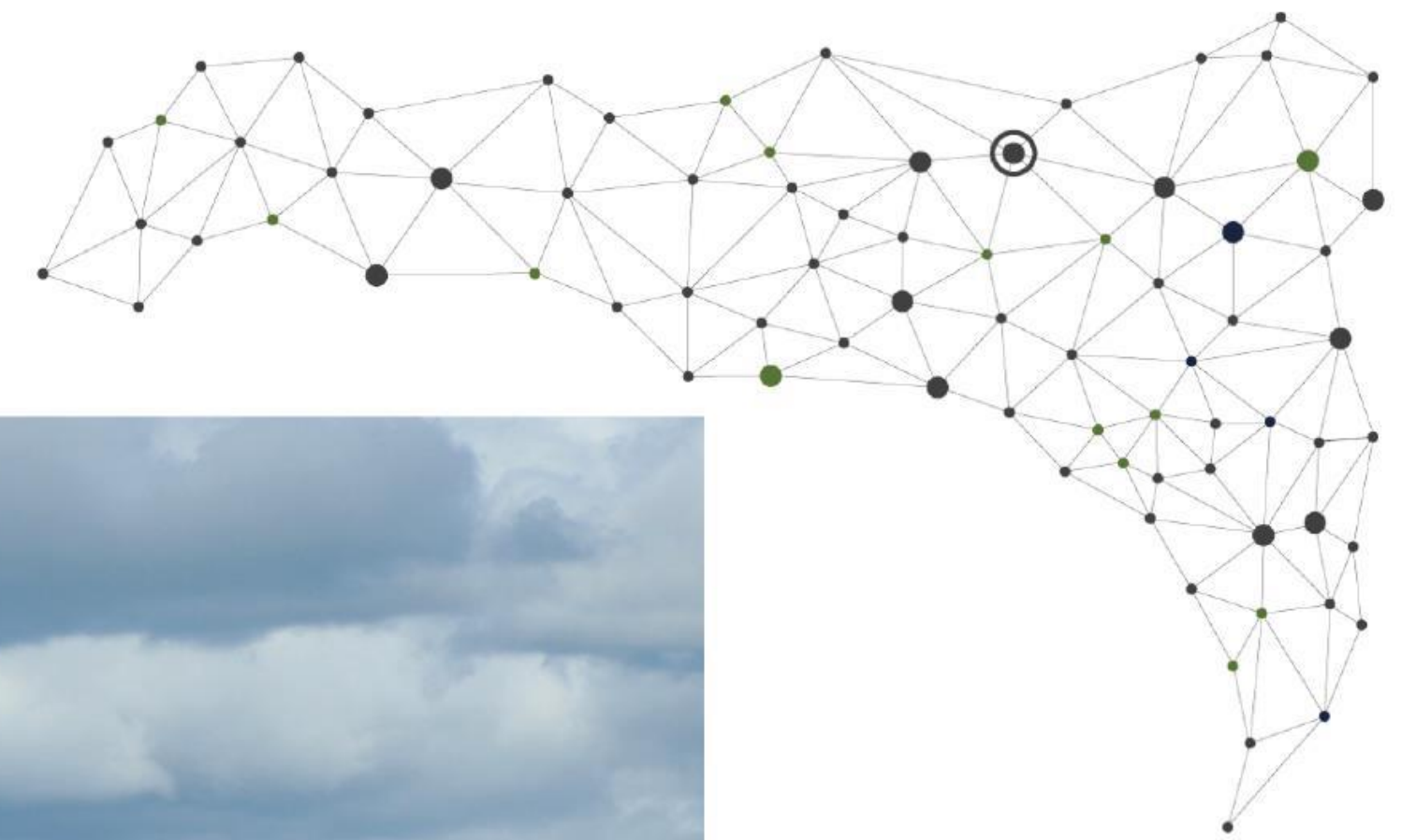


Speaker 3



Commissioned by





GLASGOW

Glasgow's Avenue Strategy & The Role Of Beauty In Public Spaces

C

CONTENTS

- Covid 19: rapid change
- Temporary measures
- The importance of beauty
- The Avenues programme
- Conclusions



C

I M P A C T

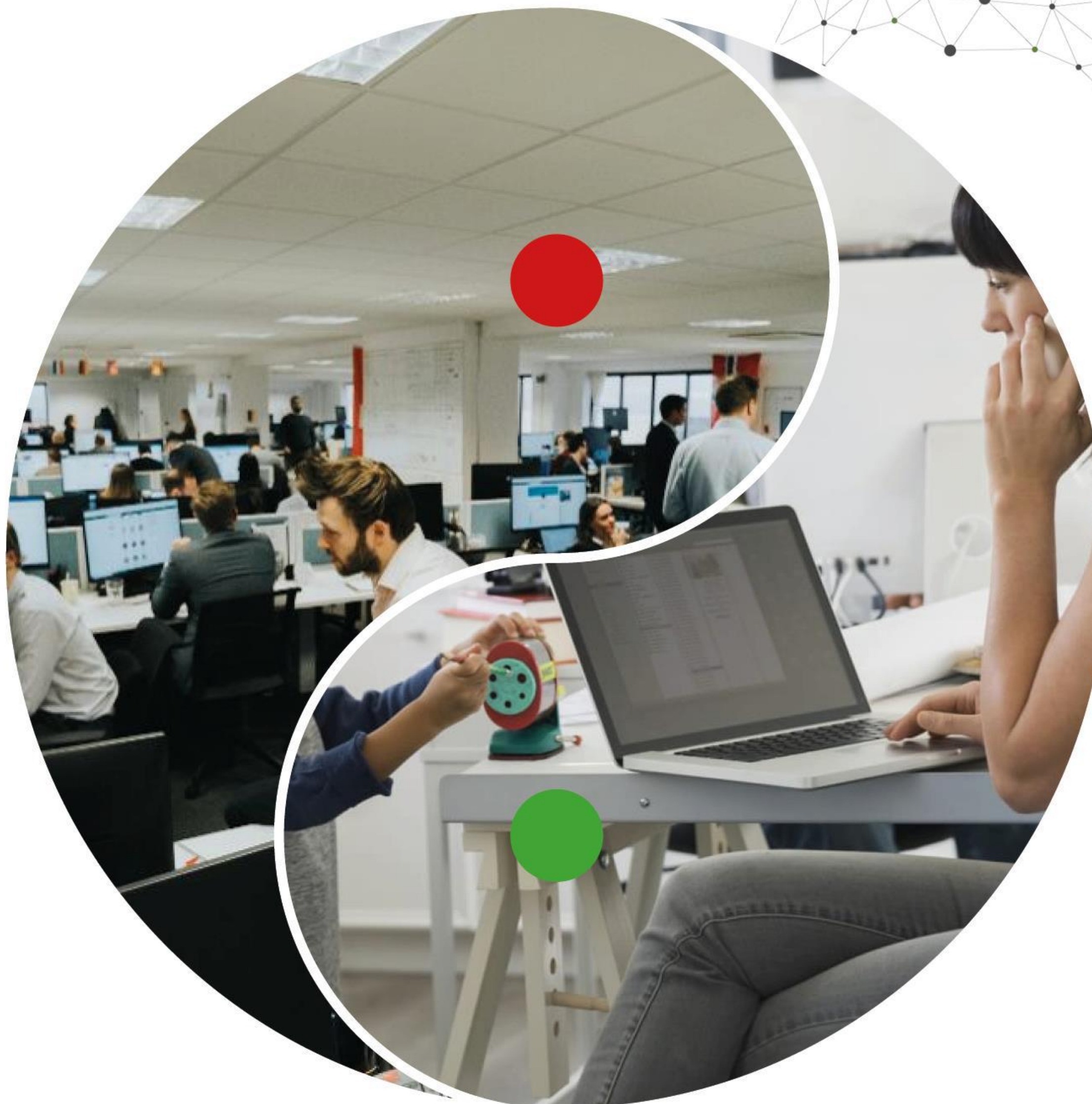
- Where we spend time
- Where we work
- How we move
- Where we want to live





I M P A C T

- Where we spend time
- Where we work
- How we move
- Where we want to live





I M P A C T

- Where we spend time
- Where we work
- How we move
- Where we want to live





I M P A C T

- Where we spend time
- Where we work
- How we move
- Where we want to live





- ent



giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH





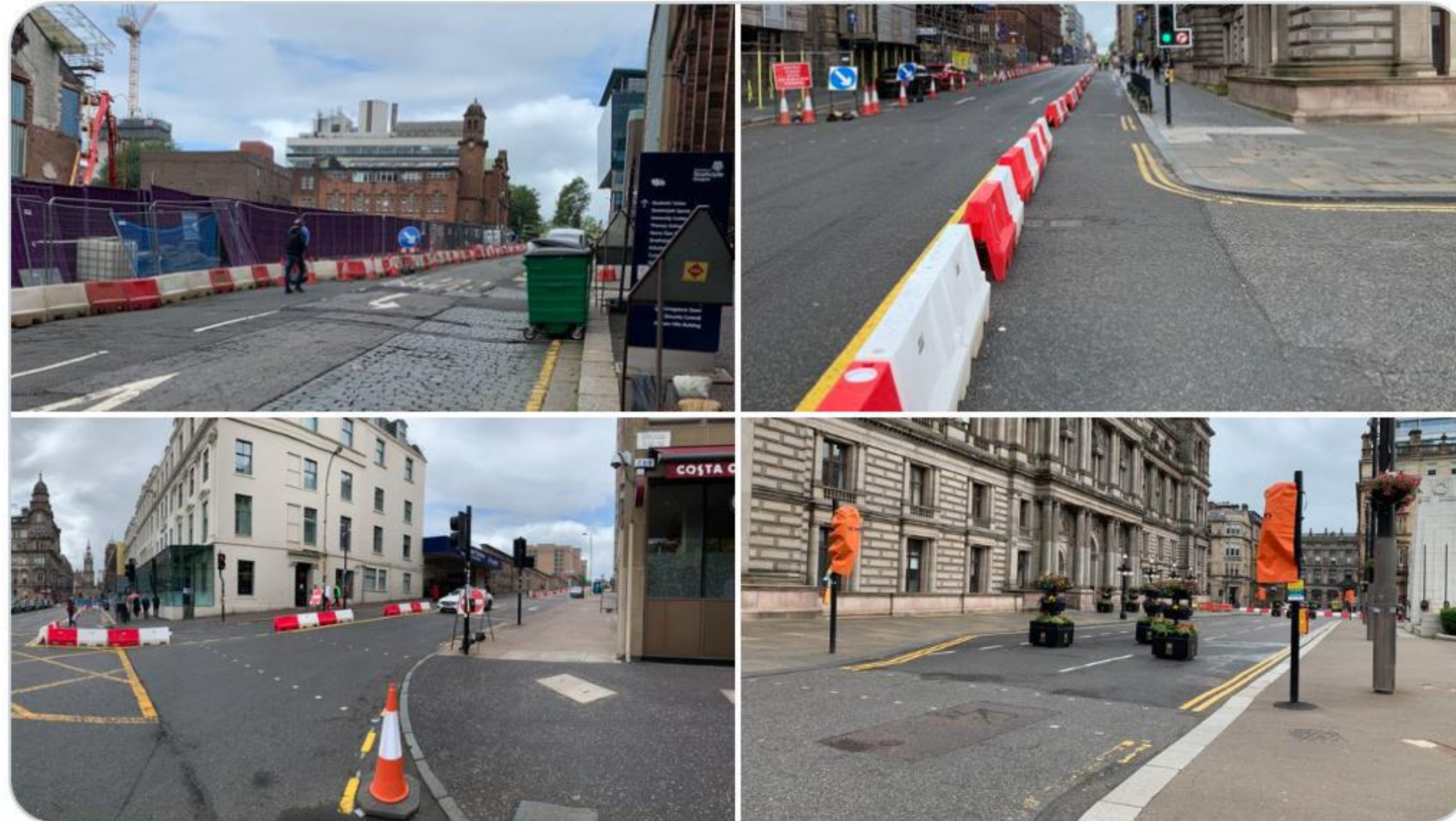
TEMPORARY

- Spaces for People



roddyUoS @roddyUoS · 7 Jul

Seen for myself the **Spaces for People** works in **Glasgow** city centre. Good to have them even if not very pretty. Thanks @GlasgowCC @Strath_Eco @UniStrathclyde #bikeisbest



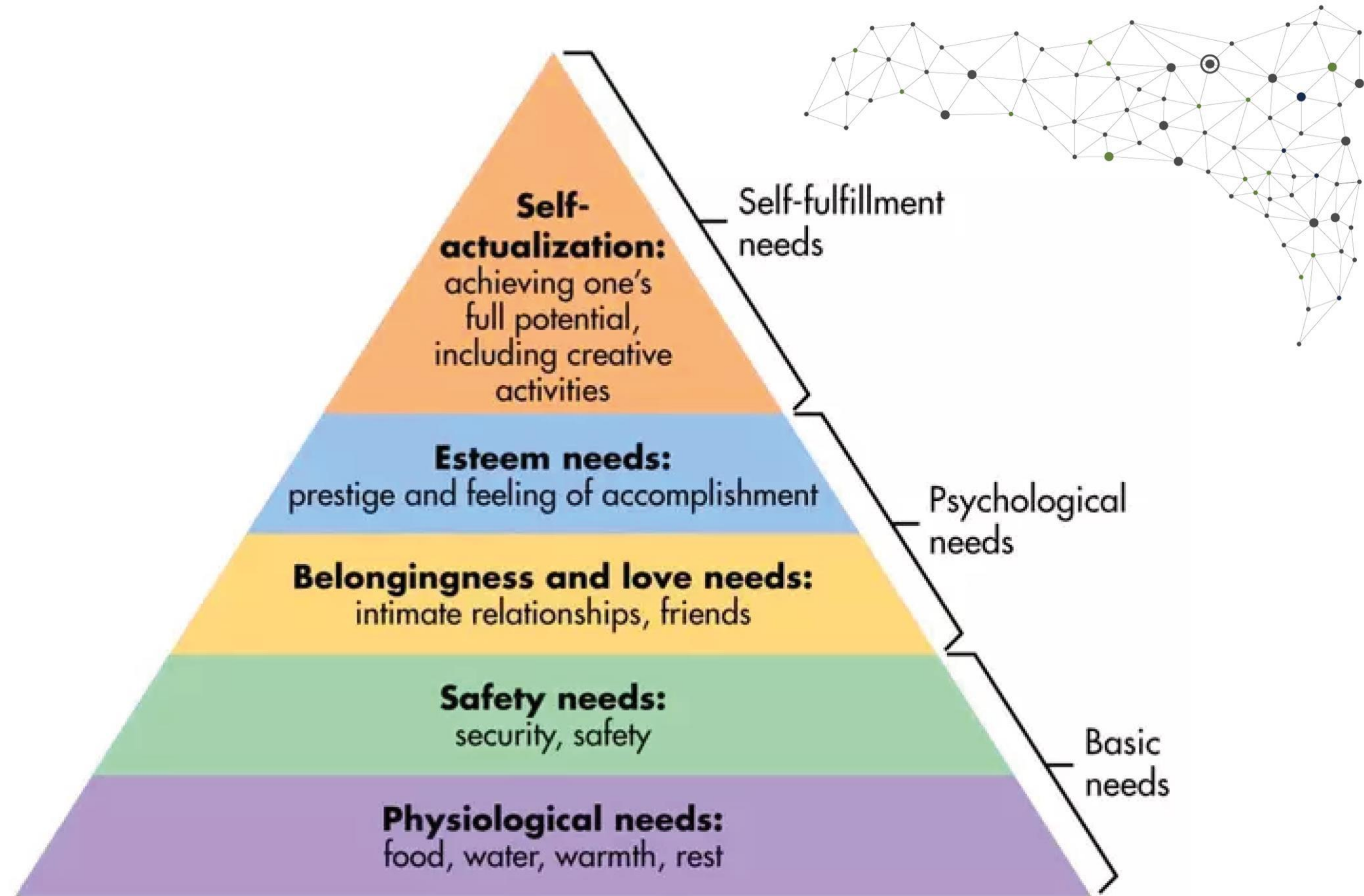
& do get it's right now... 🤔





TEMPORARY

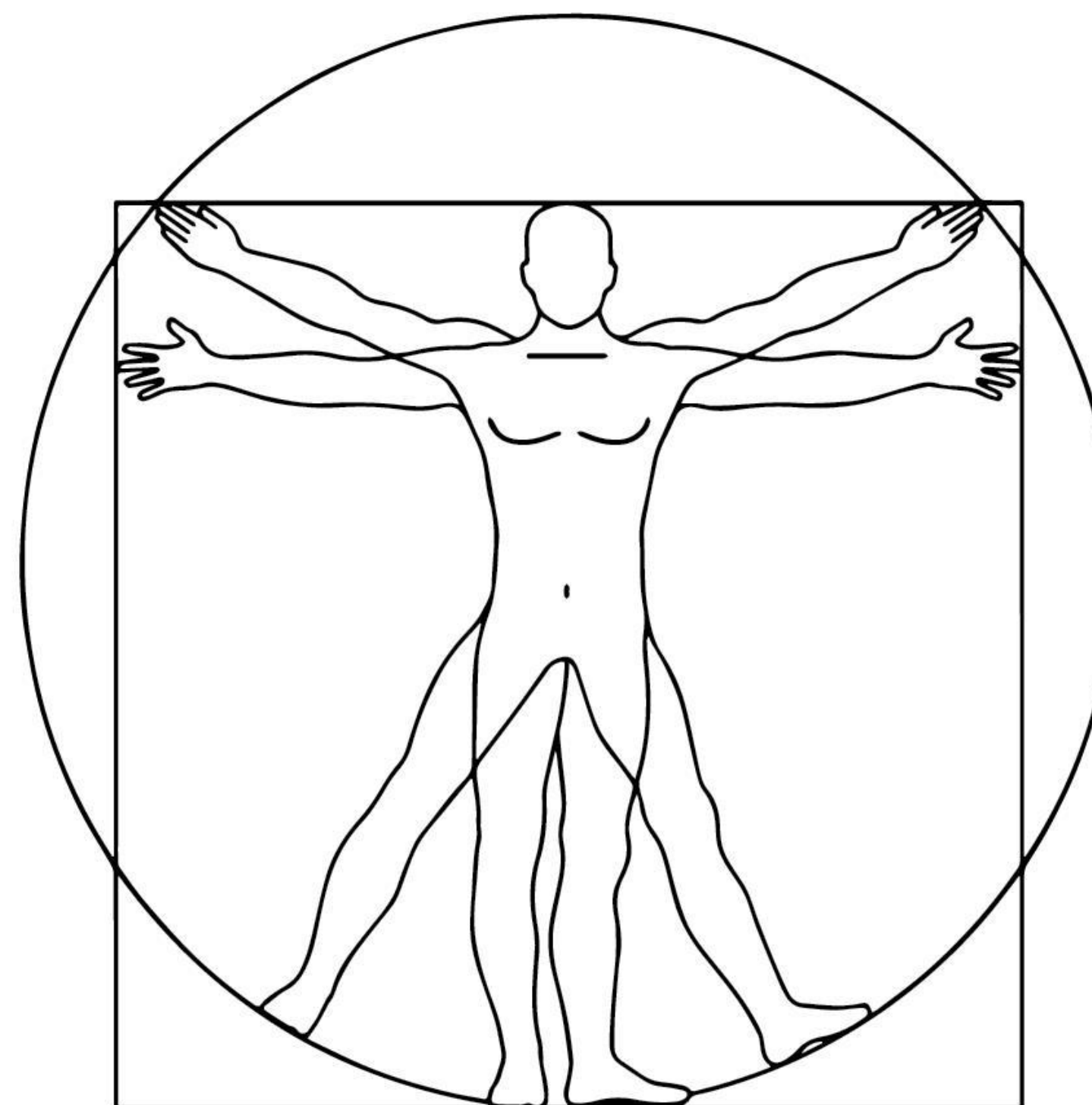
- Basic Needs
- Hierarchical/ Holistic



G

TEMPORARY

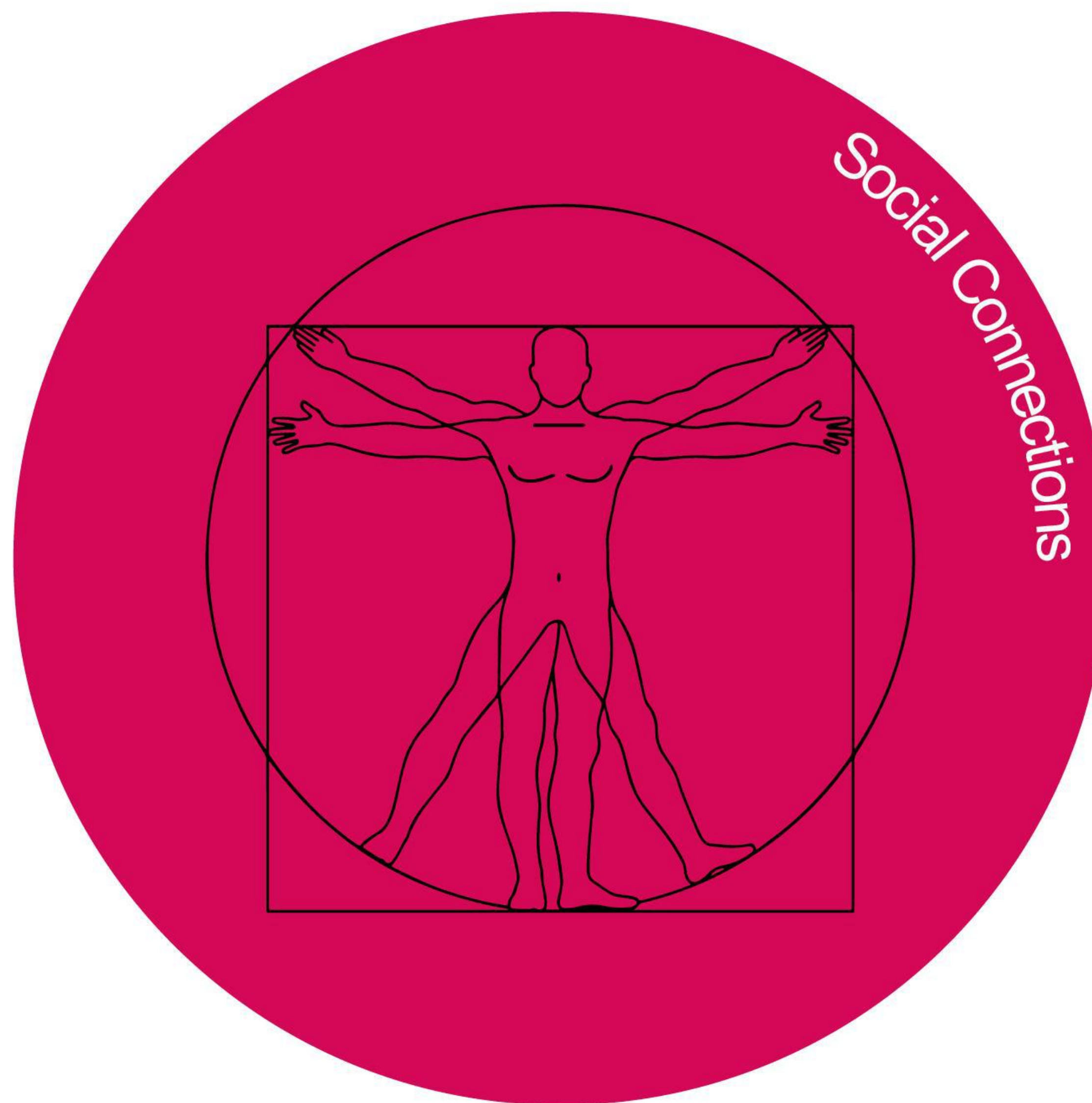
- Basic Needs
- Hierarchical/ Holistic





TEMPORARY

Create places able
to foster **social
connections**

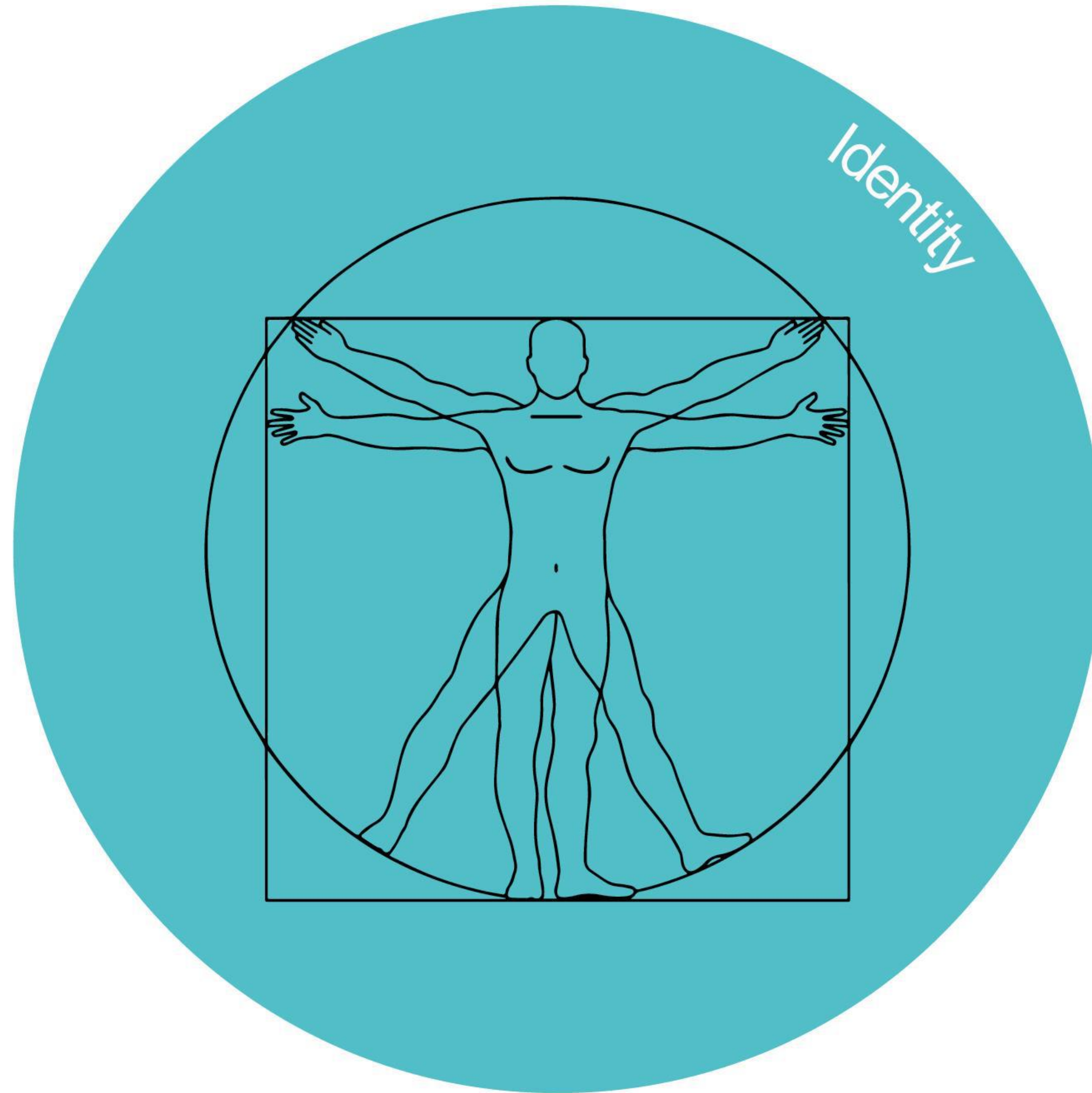




TEMPORARY

For Lynch, **identity of a place** is a response to identification and recognition of objects in space, which is to distinguish one space from another.

The **meaning of the objects for the observer** enhances the **quality of spatial and pattern relation of space**.





TEMPORARY

Spatial justice is about public culture. It's about who has the right to be, thrive, express, and connect in and across public space.

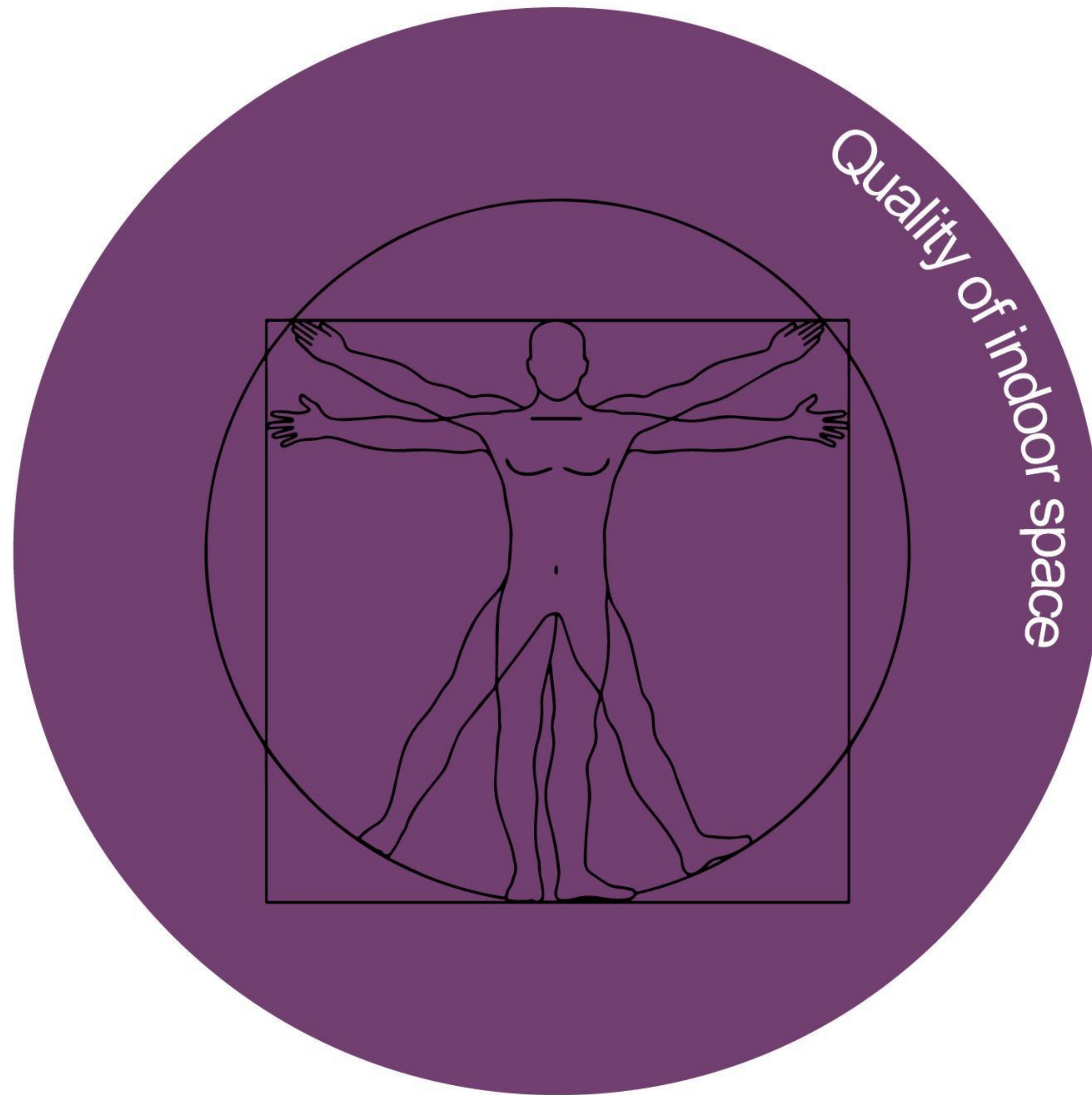


G

TEMPORARY

Lockdown has not been experienced in the same way by all.

Those living in homes that are substandard, overcrowded, at times unsafe, are living through lockdown with a very different perspective.

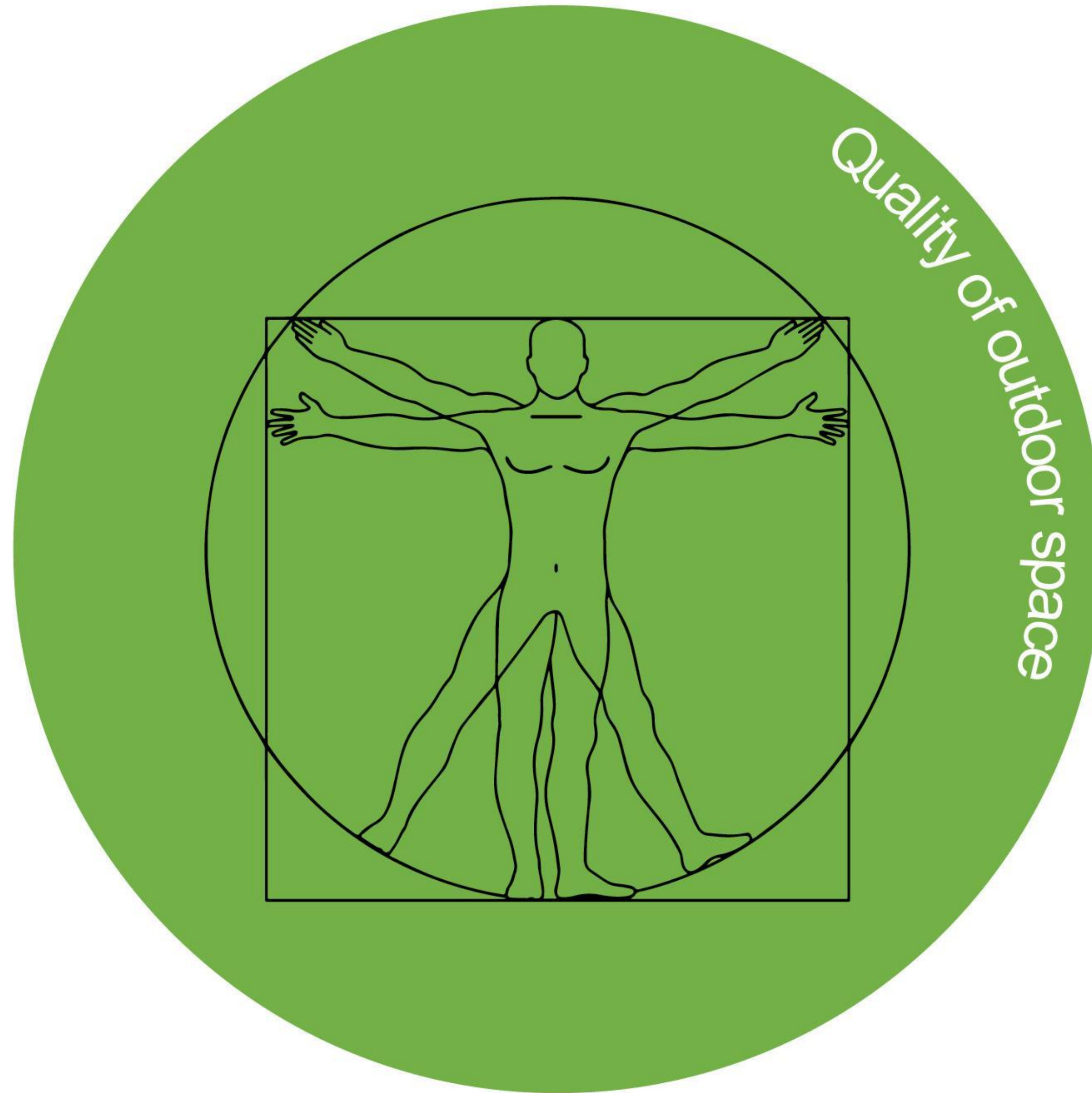




TEMPORARY

Spending time in nature within the guidelines provided by the government directly and positively affects our cognitive function.

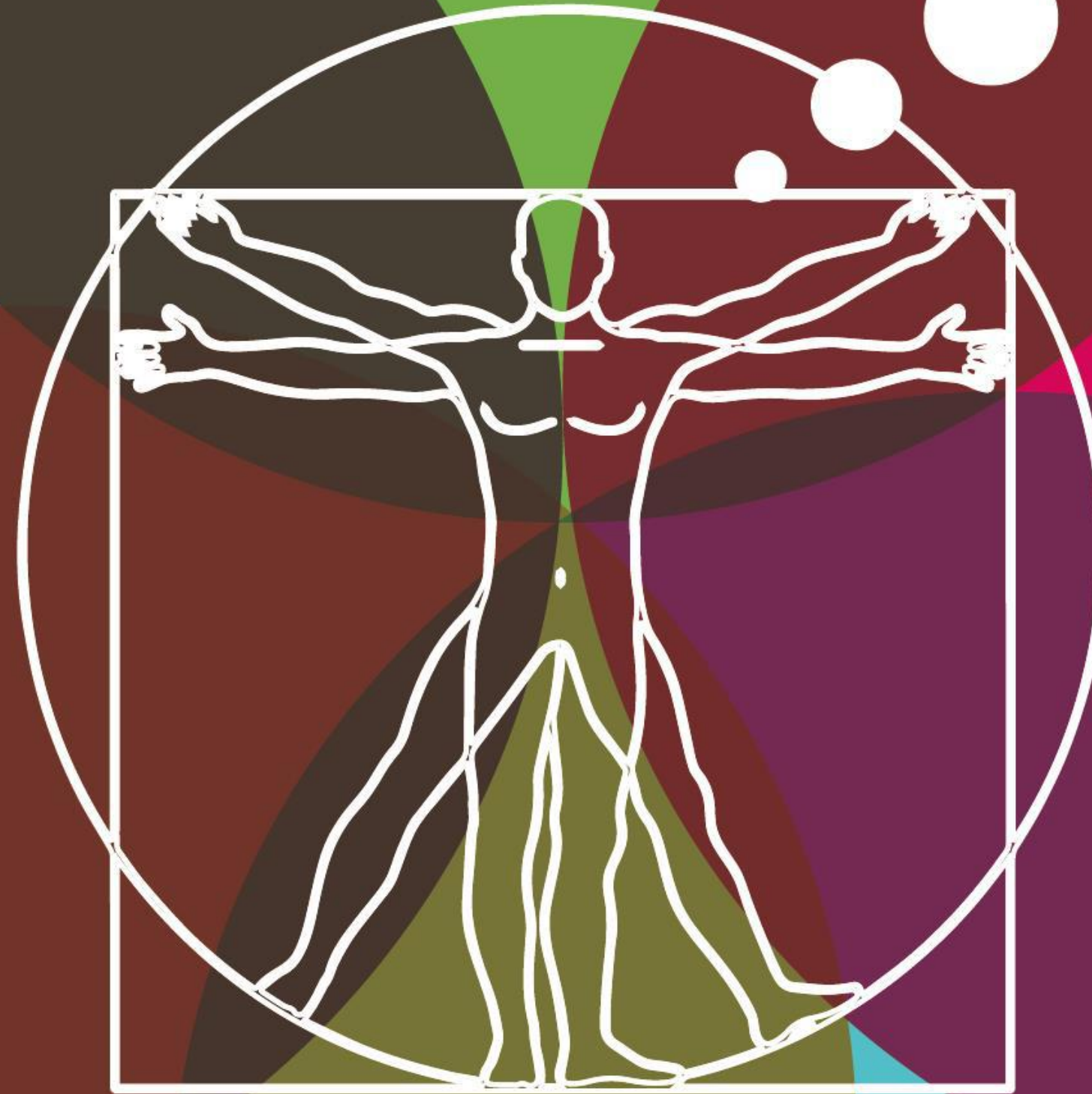
Cities must ensure equal access to quality green space



B

B E A U T Y

What about
Beauty?

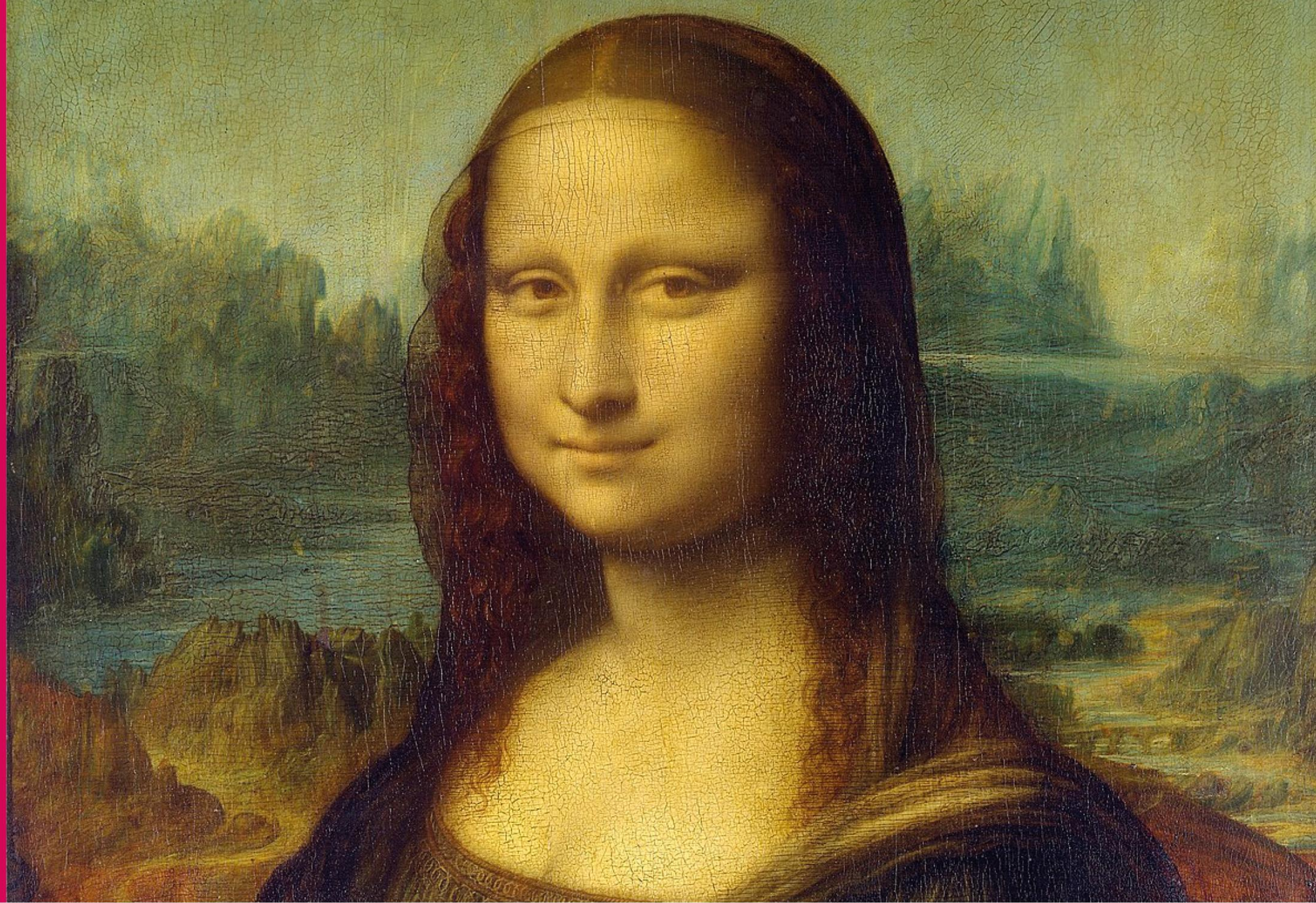


B

B E A U T Y

Beauty is an elusive but nevertheless universally acknowledged concept;

It may inhabit objects, ideas, experiences, people, and the capacity to recognise it is tied with perceptions and subjective taste.



B

B E A U T Y

Beautiful in Latin is “bellus” which means good, well.

An urban area is **beautiful** when it is well planned and can enhance the quality of life/well being of its users.

Calafiore, Alessia. “Measuring Beauty in Urban Settings.” (2020).

Historical
Properties and
the Character
of Place

Walkability

Size and Sense of
Order

Greenness

Gehl et al. (2011)
Jacobs (1961)
Alexander (1977)
Rossi et al. (1982),

“Good cities need infrastructure, efficiency and economic activity, and smart cities give equally strong attention to sustainability, arts and culture, and social compassion. But great cities need more than that. They need beauty”
(Toderian, 2007)

Sechseläuten Square in Zürich, Switzerland



B

B E A U T Y

Ask for Beauty.

Beauty includes everything that promotes a **healthy and happy life**, everything that makes a collection of buildings into a **place**, everything that turns anywhere into somewhere, and nowhere into home.

It is not merely a visual characteristic, but is revealed in the deep **harmony** between a place and those who settle there.

Living with beauty: report of the Building Better, Building Beautiful Commission

We do.

Glasgow City
Development Plan

The Avenues

Place
Commission

City
Centre
Living
Strategy





The Avenues strategy was originally conceived in the CCS as an integrated network of continuous pedestrian and cycle priority routes, with avenues of green infrastructure.

The Avenues will connect key areas and transport nodes within Glasgow city centre, as well as improving connections and interfaces with surrounding neighbourhoods and areas.

This initial Avenues concept was further developed into the **EIIPR programme** :

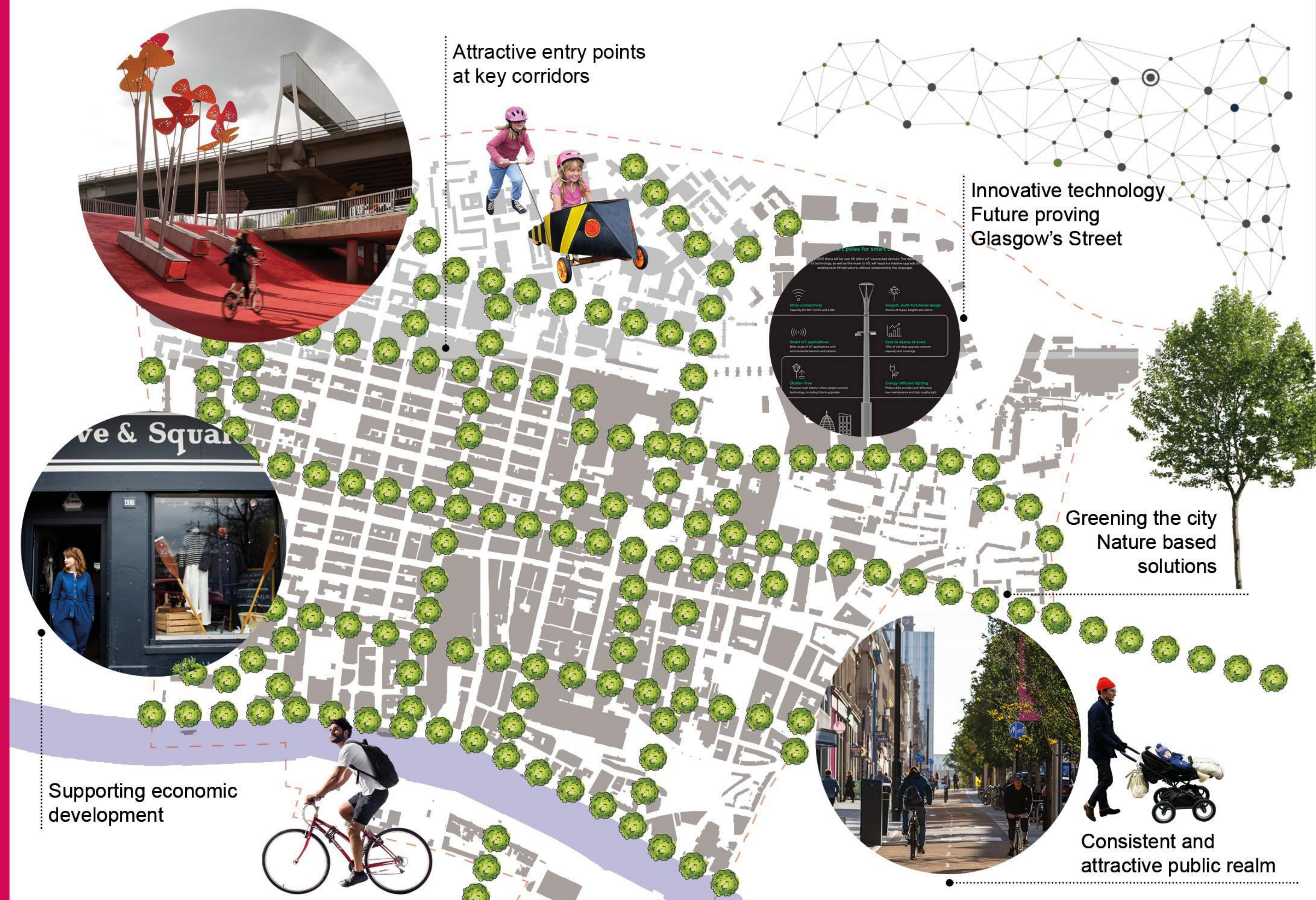
- **21 Avenues** in EIIPR programme
- **5 Blocks** of work
- **Deliver by December 2027**



A V E N U E S

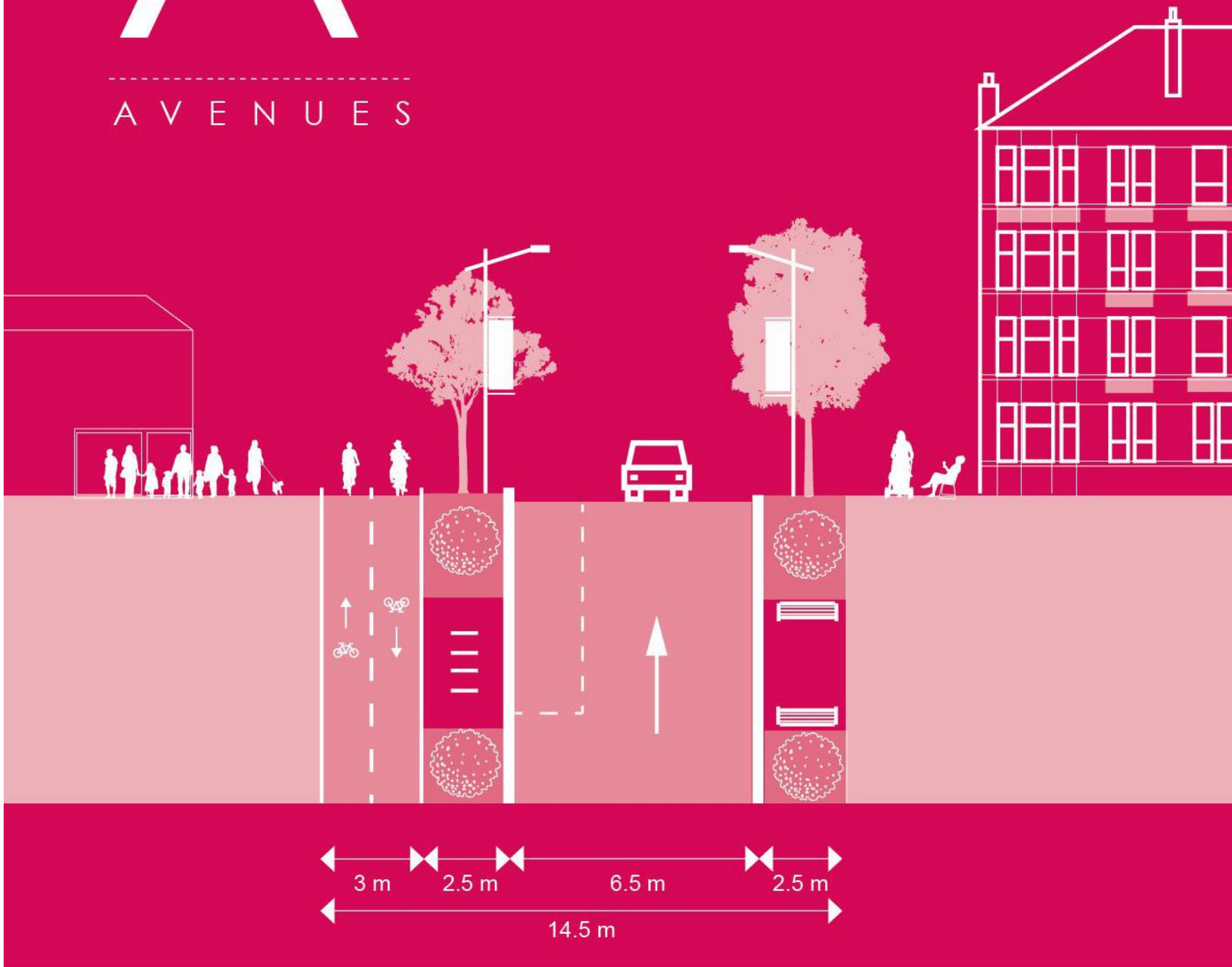
- Creating attractive points of entry at key corridors
- Greening the city through the provision of quality landscape and environments
- Embracing innovative technology and future proofing Glasgow's streets
- Encouraging commercial, retail, leisure and residential property development
- Providing consistent and attractive public realm

Objectives



A

AVENUES



One way street layout



Two way

A

B E F O R E



A

CONCEPT



A
CONCEPT



A

A F T E R





People-first solutions

Attractive public realm

Active frontages

Improved lighting features

**Integrated green and
blue infrastructure,
climate mitigation
solutions**

**Improved connectivity /
A balanced approach to
motorised vehicle, pedestrian
and cycle networks.**

A

A F T E R



A

A F T E R



A

A F T E R



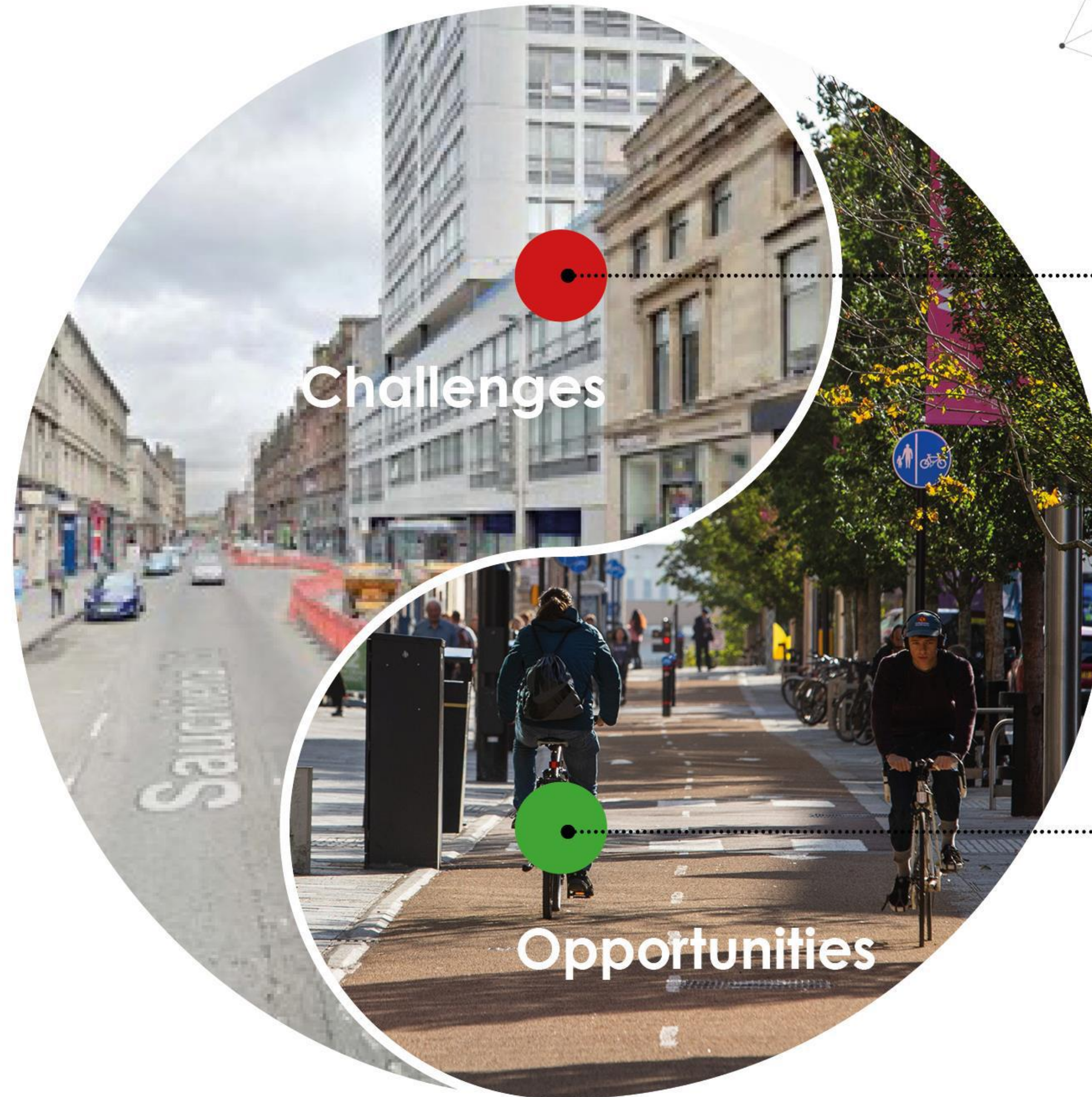
A

A F T E R





- Challenges
- Opportunities



- 30% to 35% reduction in traffic
- How do we protect footfall and accessibility?
- Saturation of the market
- Management of the wider road network
- Understanding the future of Glasgow post Covid

- Low Emission Zone
- Promote Modal Shift
- Development of the public realm framework
- Revised programme of works
- Supporting mode shift
- Partnership Working
- Space for People



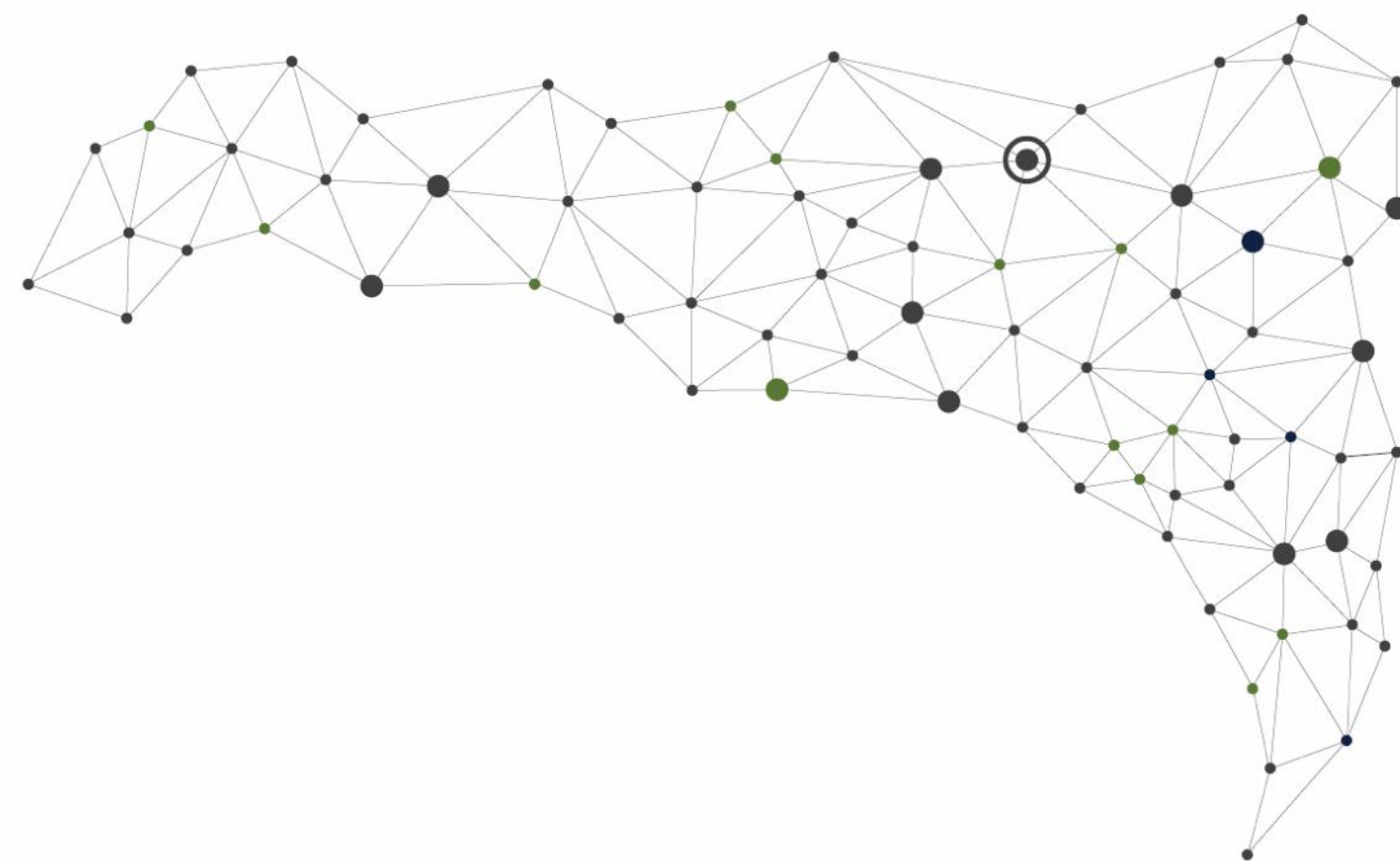
G

GLASGOW

Jamie Shields
jamie.shields@glasgow.gov.uk

Paola Pasino
paola.pasino@glasgow.gov.uk





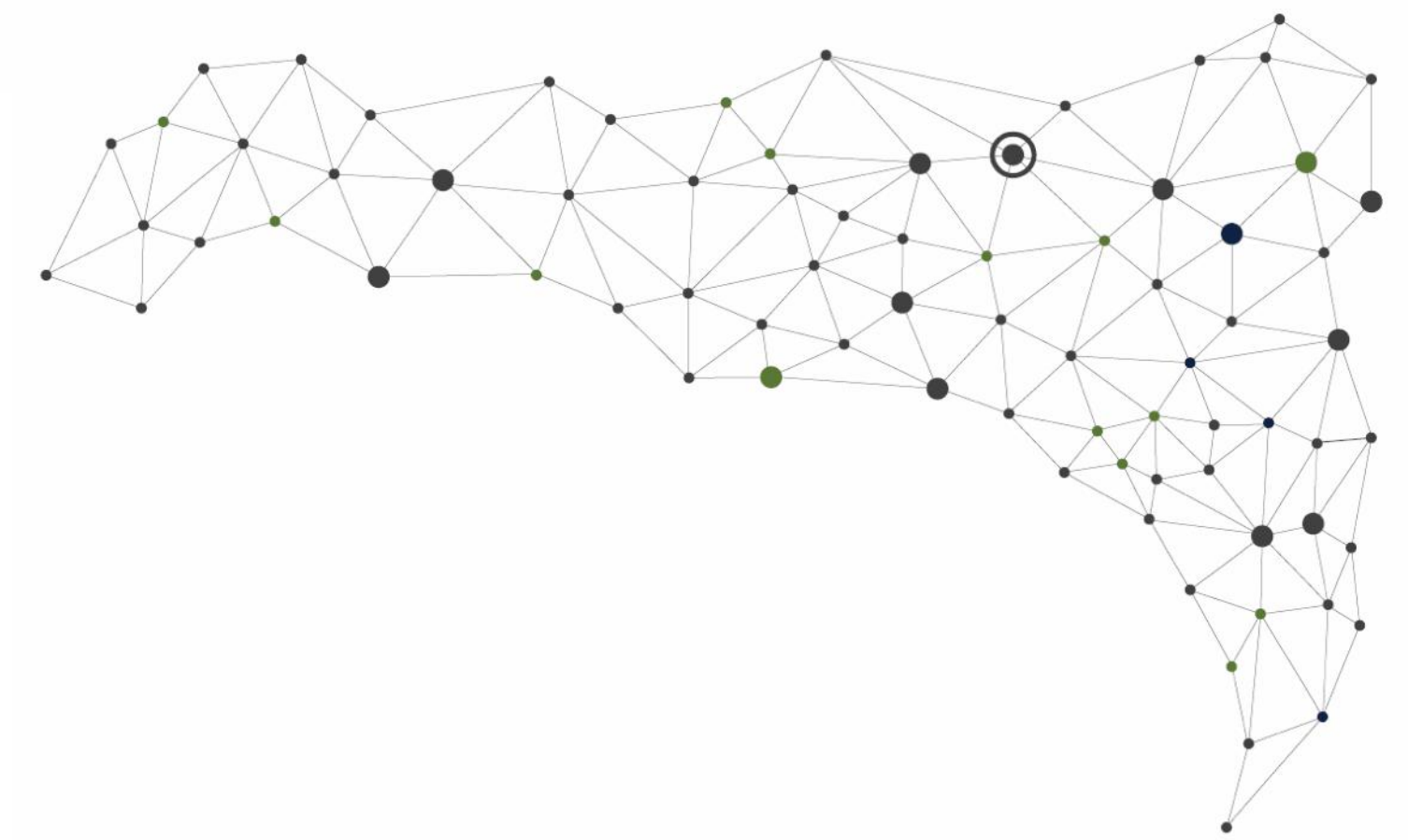
Q&A

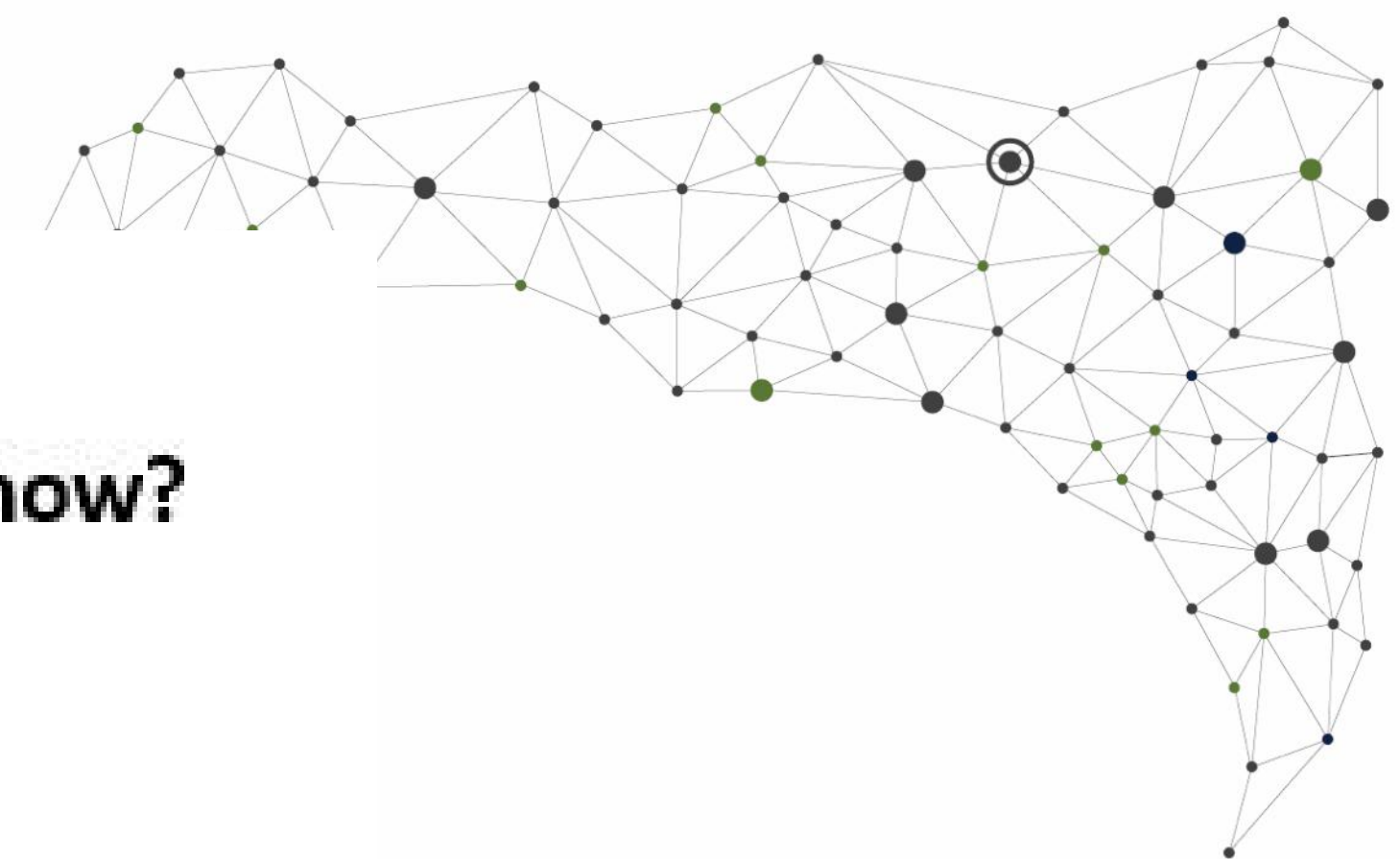


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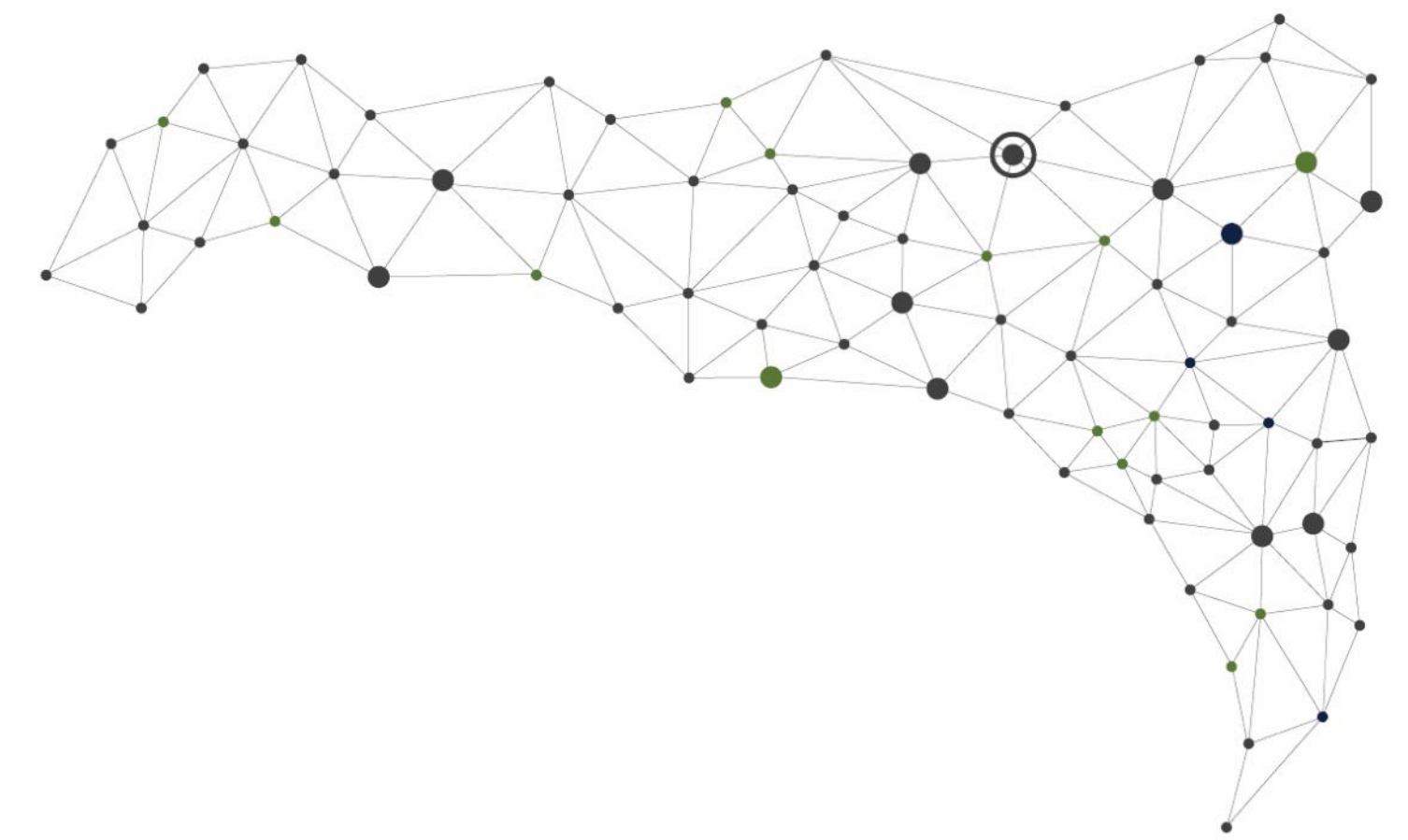
What does your city need to be more green, beautiful and safe in times of COVID-19?





What would you like to let our guest speakers and the audience know?





Agenda for the rest of the event series

Evaluation:

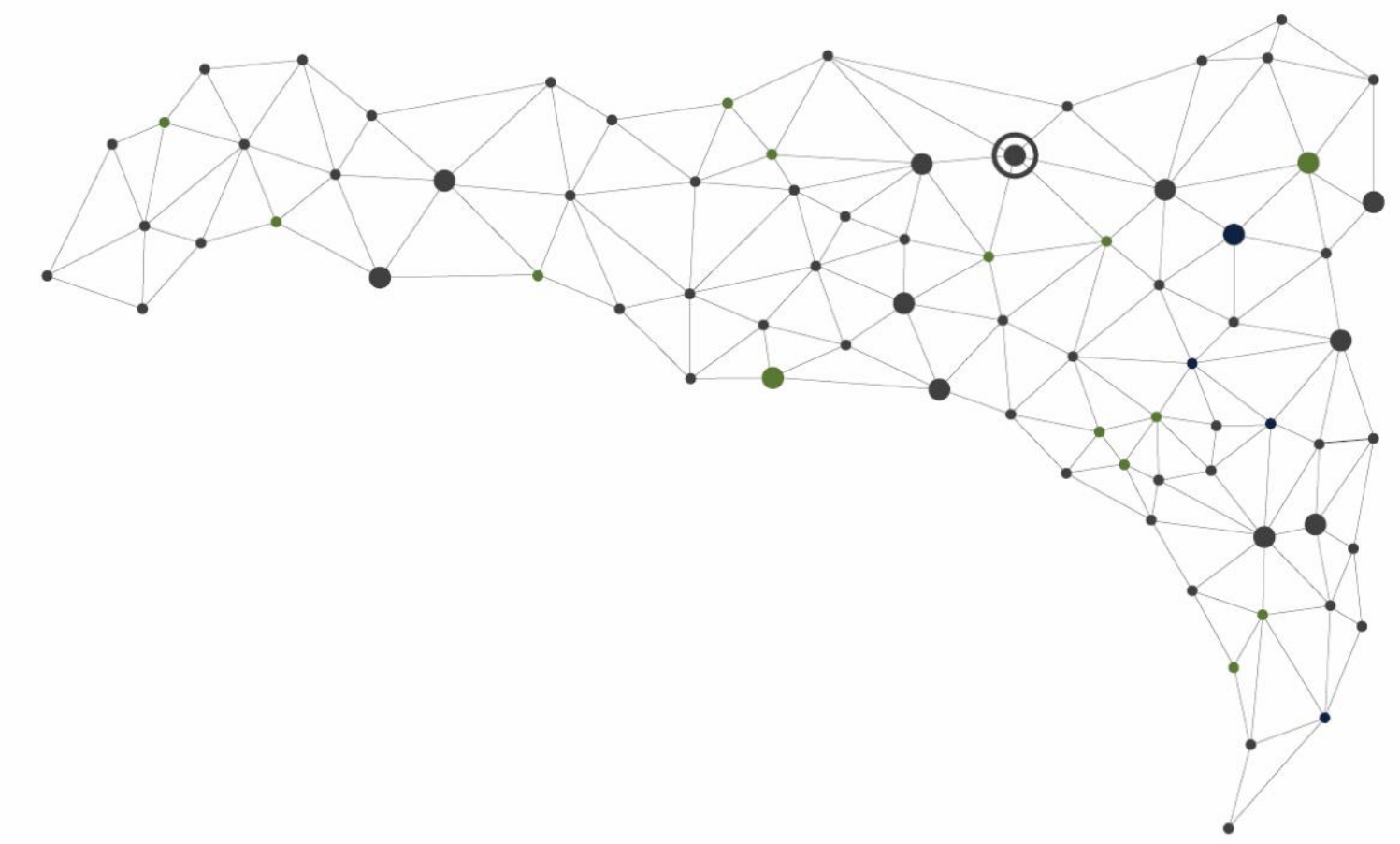
<https://giz-cc.think-modular.net/form/connective-cities-covid-19-event>

Harvesting Insights



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Thank you!

