



JUST STREETS

Inclusive stakeholder involvement in desealing activities


A guide for co-creation of
climate fit public space

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CIPRA "Ground-breaking"

The challenge

- 
- Cities face pressure on land
 - Various demands on how land should be used + many societal and economic needs to fulfill
 - -> permanent battle between capitalistic growth and human/ecological well-being

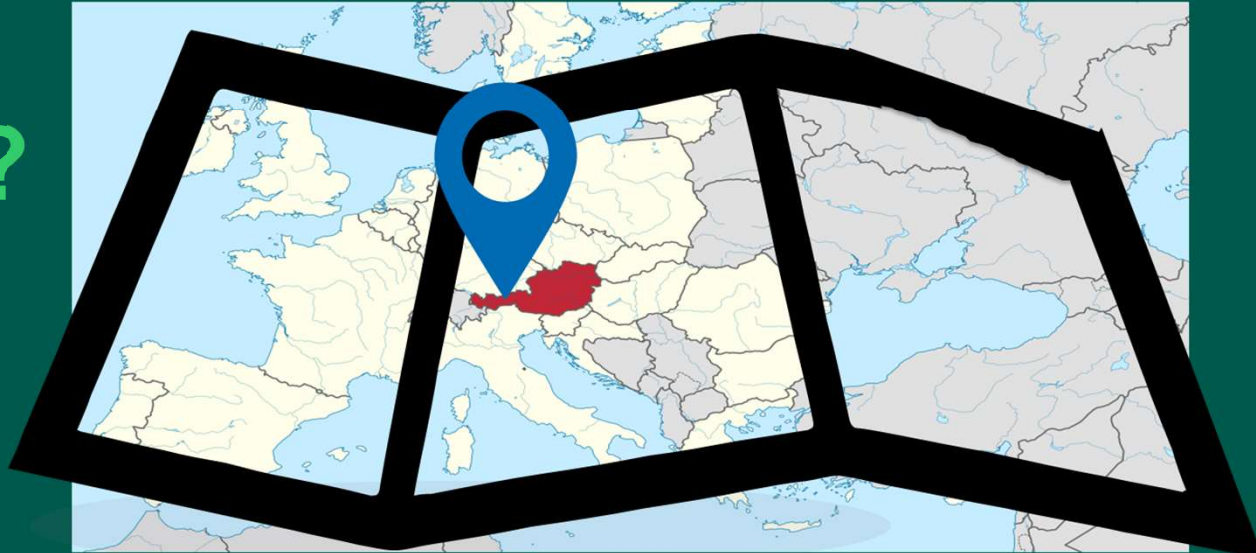


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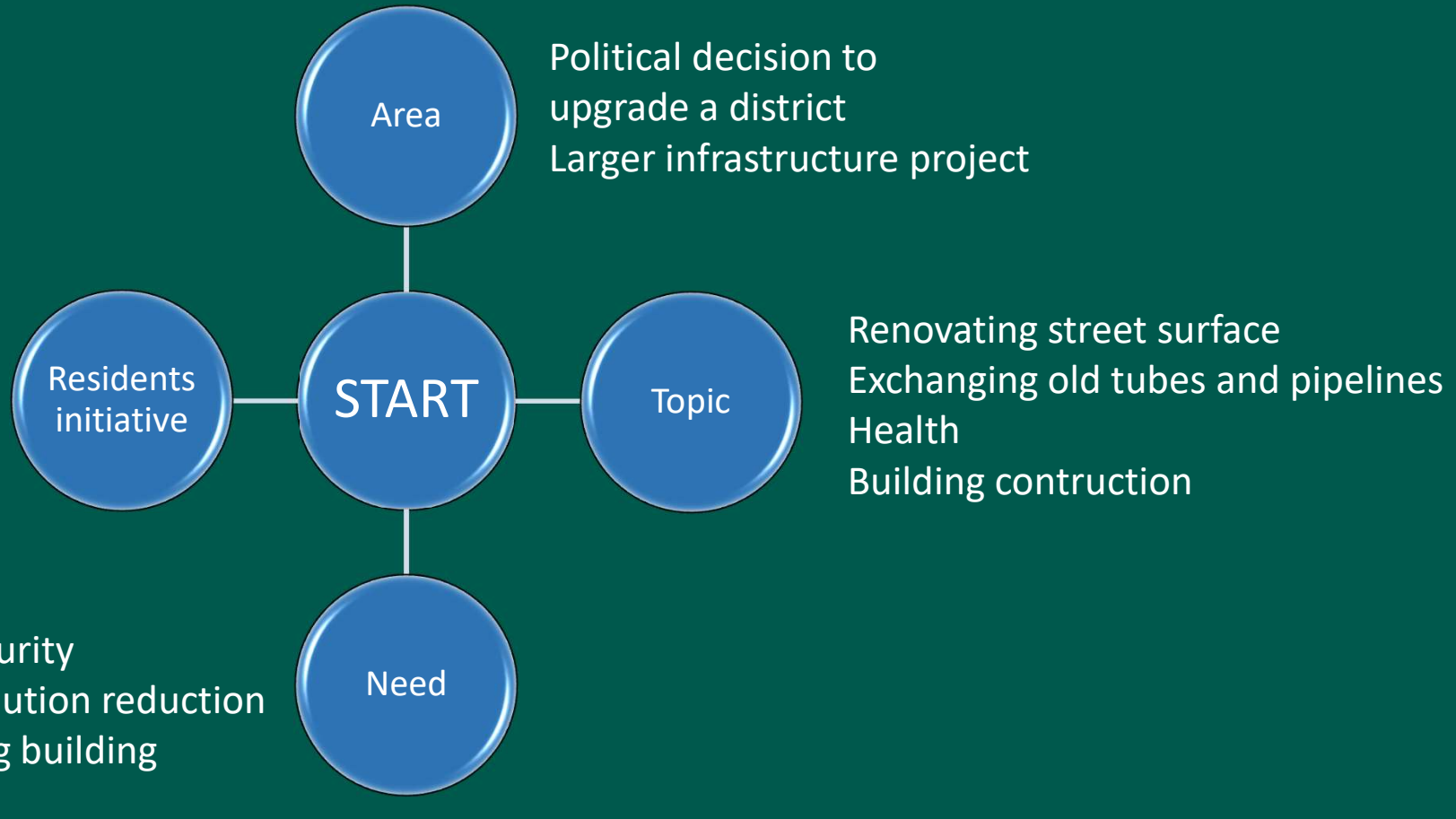
Where to start, when making the city a more human place?

Showcase Innsbruck

cool-INN – *cool urban habitats for a resilient society*
(2020-2023)



Screen your city





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Getting together a suitable team



- Collaboration between municipal utility company + city + universities
- What departments to involve within the city administration? -> *citizen participation + green space + engineering*





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Many possible AREAS to start



- Versiegelt
- Gebäude
- Gewässer
- Grünbereich
- Schotter/Unversiegelt

Abbildung 3: Naturstandskarte für einen Ausschnitt von der Innsbrucker Innenstadt mit Kategorien: Versiegelt (rot), Gebäude (schwarz), Gewässer (blau), niedrige (Wiesen) und hohe (Bäume) Vegetation (grün) und Schotter- bzw. unversiegelte Flächen (ocker).

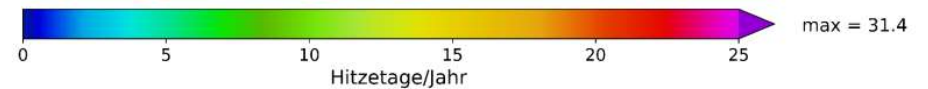
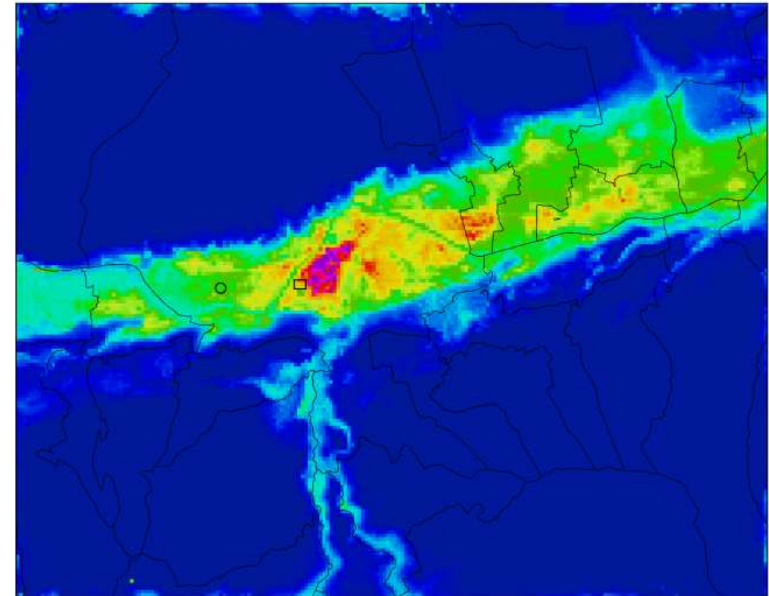


Abbildung 22: Wie Abbildung 20 aber für den Zeitraum 1990-2019. Der maximale Wert befindet sich wieder beim Bozner Platz.





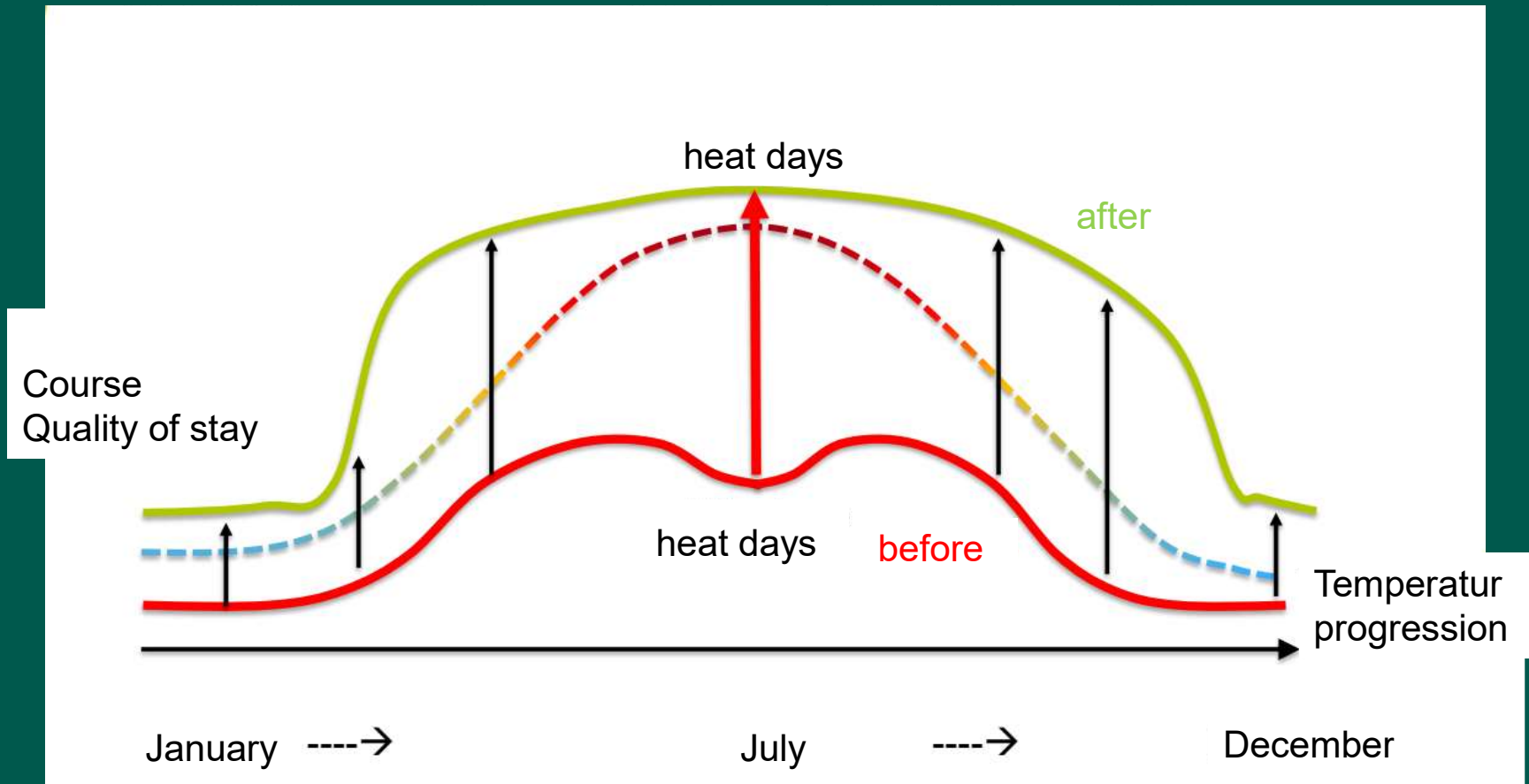


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Messepark

- Not the hottest place, but very much sealed surface
- Street work in the pipeline
- Building of the new train station
- Traffic problem
- Planning of >120 new flats
- Much street, little, unattractive green space

GOAL: Increasing the quality of stay all year round



Who could be possible stakeholders?

Co-creation
Planning the park

WHO

has an interest?
will be affected?
has knowledge & expertise?
is an important allie?

Living lab – Co-creation

Observation:

Record movement patterns

Survey:

Interview passers-by and residents

Participation:

Develop concrete ideas with neighbors

Workshop with children

Performance:

Through activism and knowledge transfer creating awareness about climate change, heat islands, soil sealing and what can improve wellbeing in public space



Who could be possible stakeholders?

Co-creation Planning the park

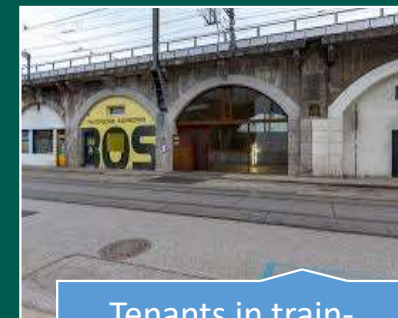
Closest neighbours



ÖBB – Train company



Exhibition / Fair



Tenants in train-
viaducts



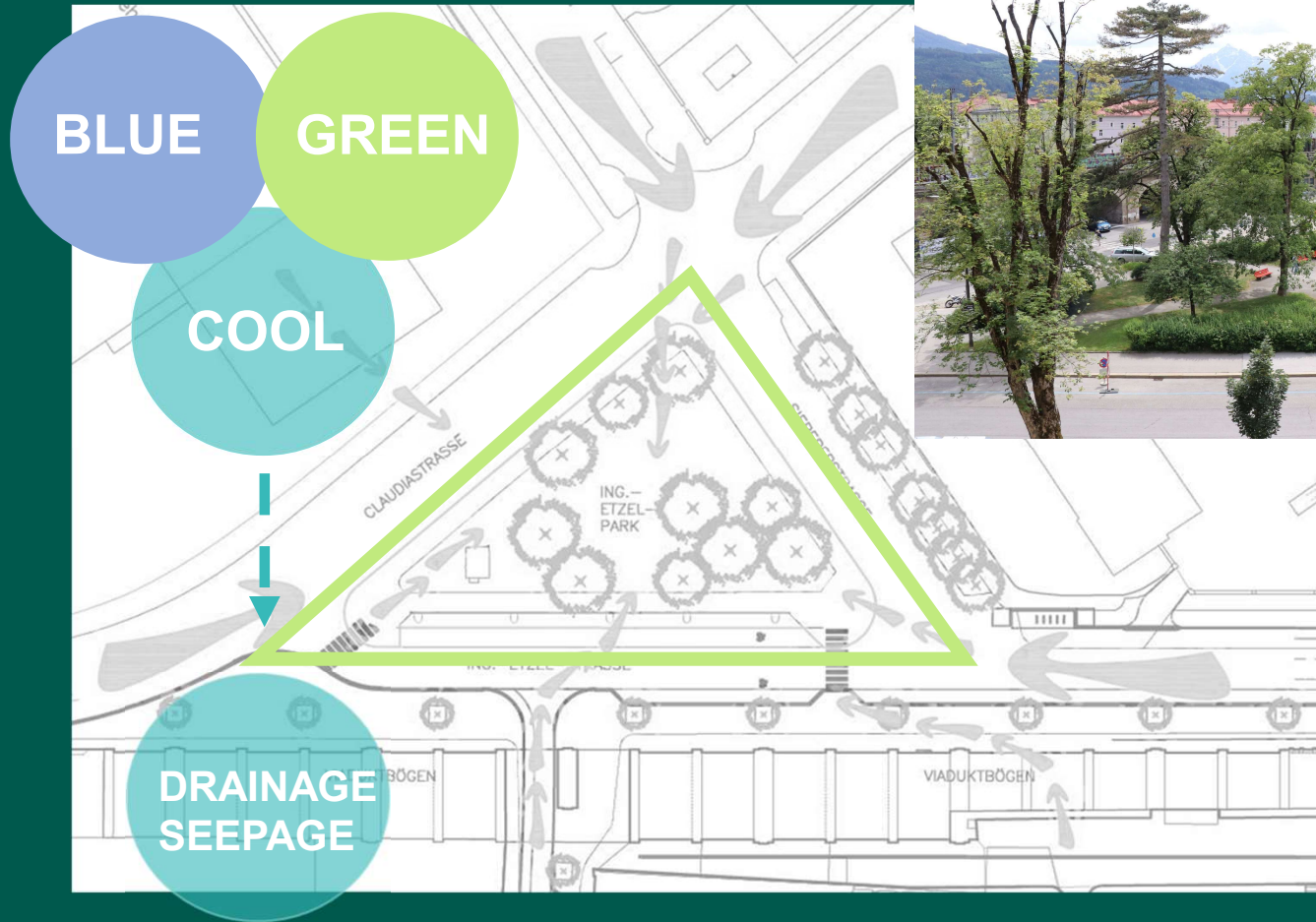
Homeless-
organisation

Pedestrians

Residents

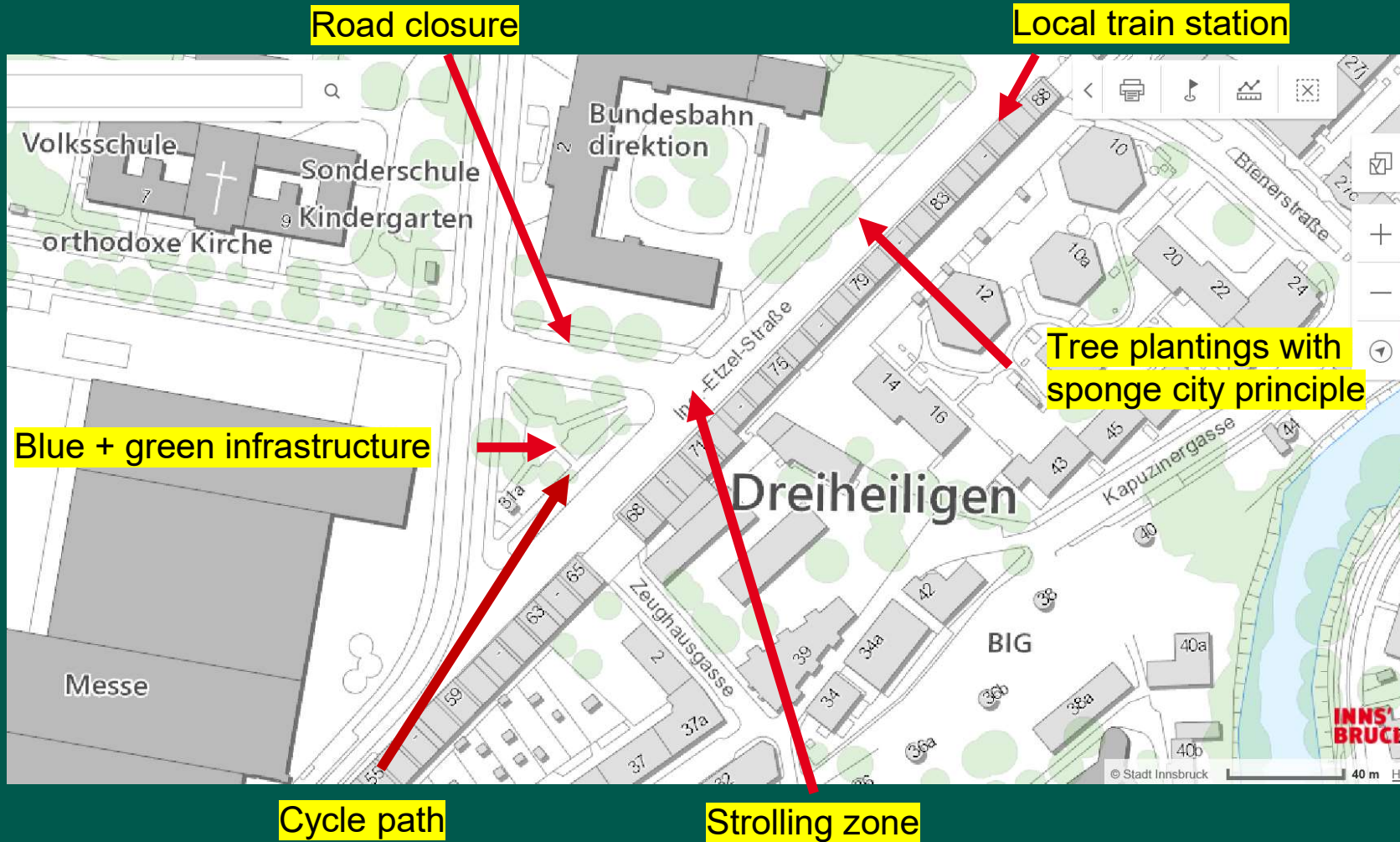
Children

Cool - Inn





Main measures to convert a „traffic island“ into a park





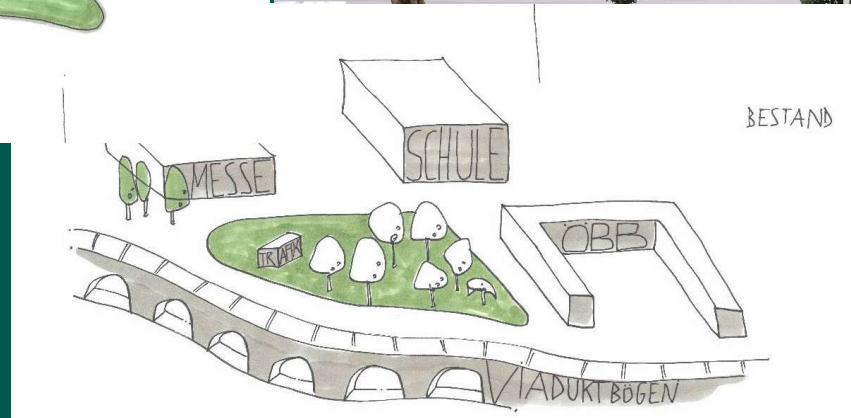
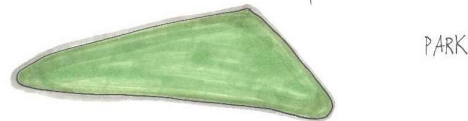
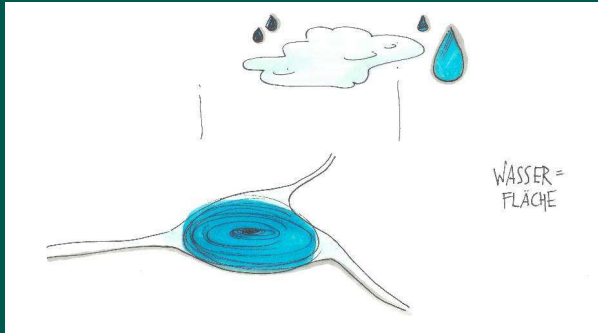
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One week creative building workshop with kids





How to design public space with multiple benefits?



- ✓ What is / could be the **THEME** of the park?
- ✓ **QUALITIES** of the place?
- ✓ Multiple use possible?
- ✓ Synergies with other measures?


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WATER COURSE - COOLING

GREENING



FURNISHING





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- a** Green spaces and terrain modeling
- b** Trees old and new
- c** Sponge city system with Raingardens
- d** Enregis
- e** Drain concrete paths
- f** Furniture/equipment





Formwork dren concrete



Water-bound path surface



Tree-planting sponge city



Redesign

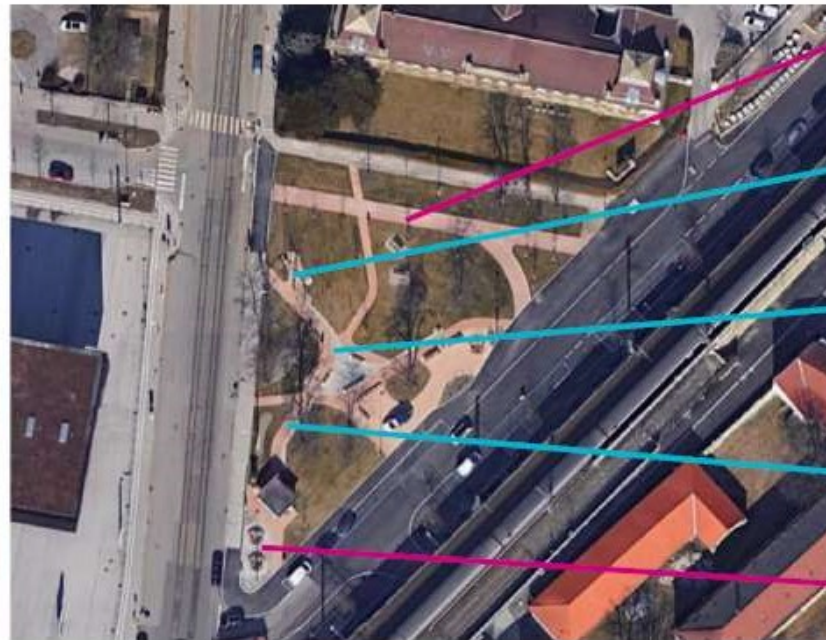
Area prior to the redesign



Credit: Land Tirol, 2019



Area after the redesign



Credit: Google Maps, 2022

Porous Pavement

Mist System

Central Open Water
Surface &
Water Fountain

Open Channels

Porous Pavement



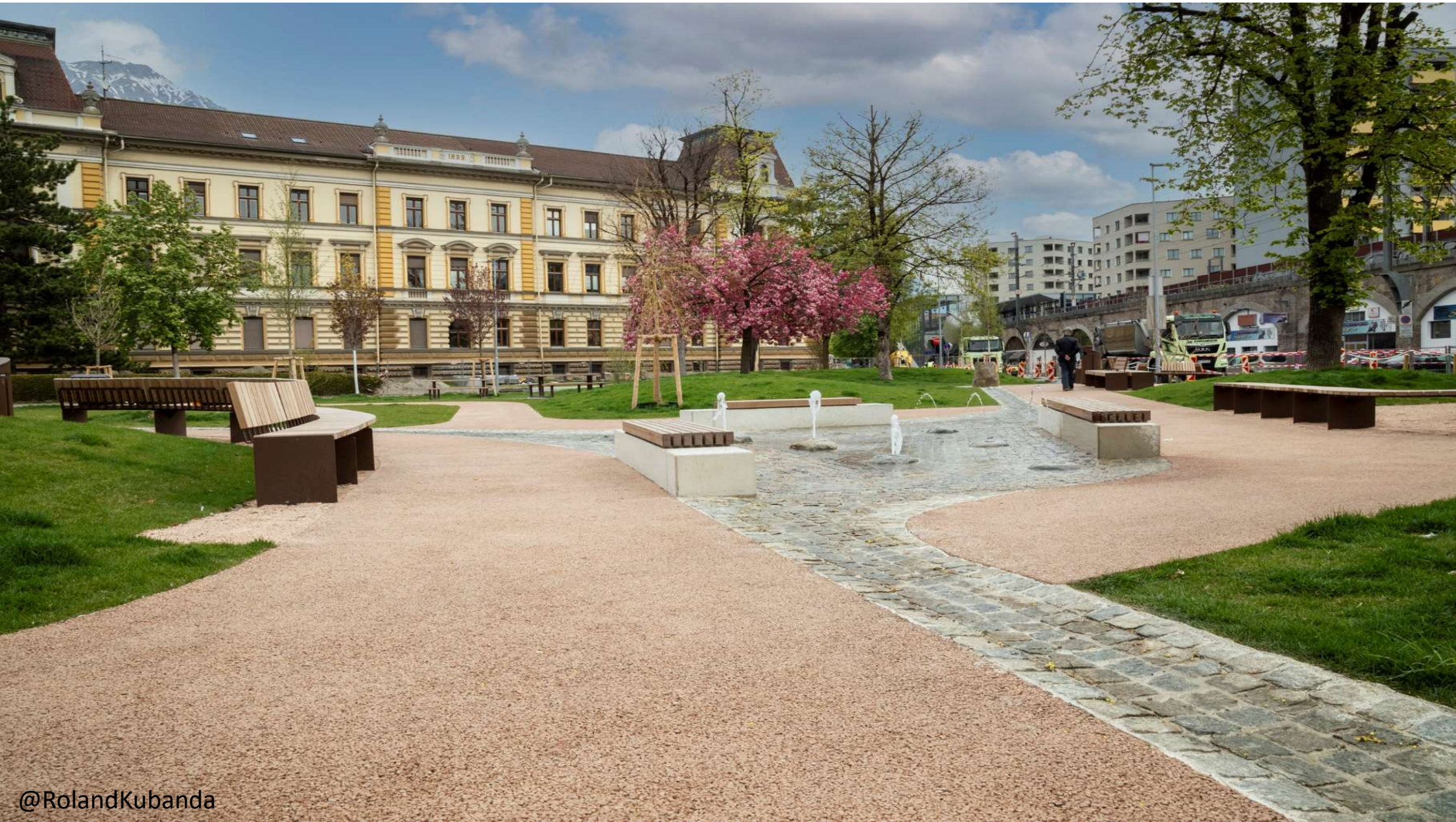
BEFORE

@Willi Giuliani



AFTER

@RolandKubanda



@RolandKubanda



@RolandKubanda

Surface Temperature before and after unsealing

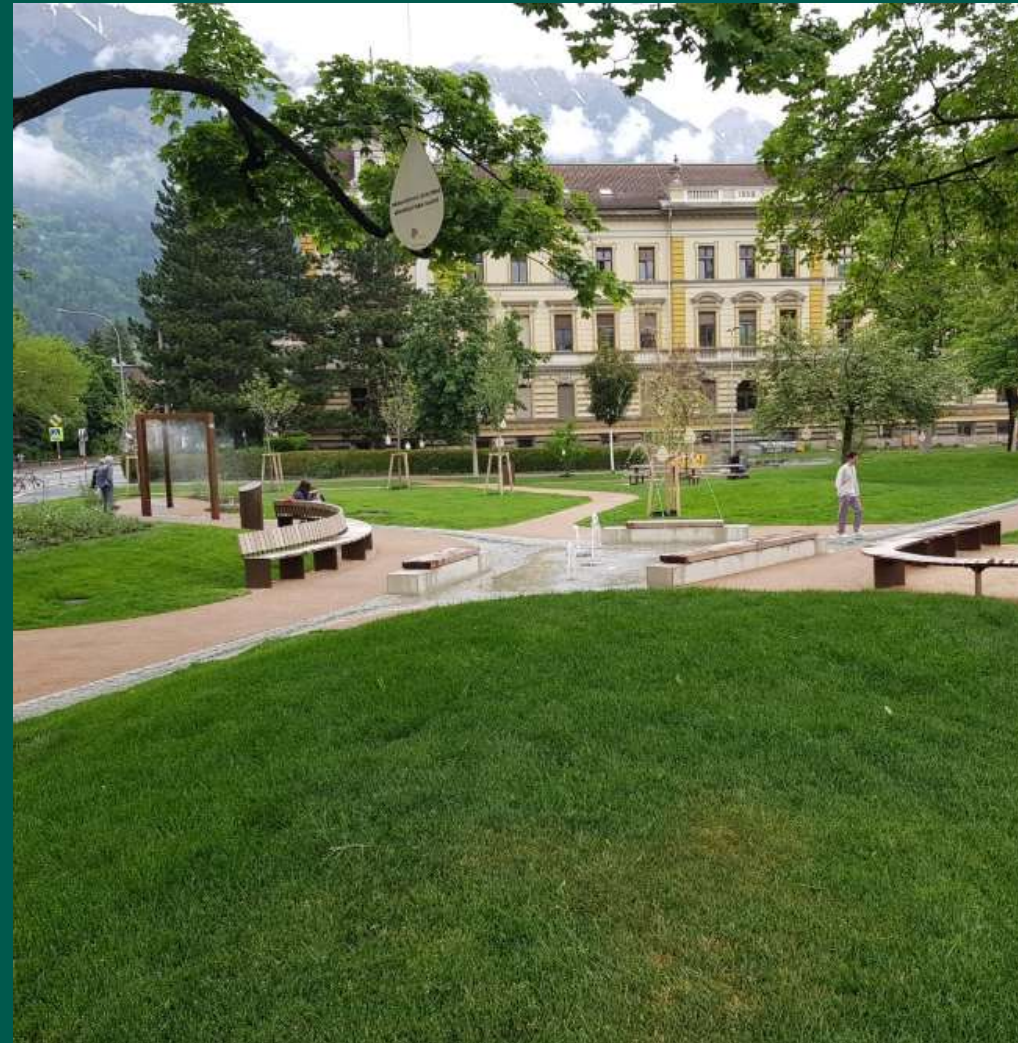


(Back, 2022)



Green space and terrain modelling

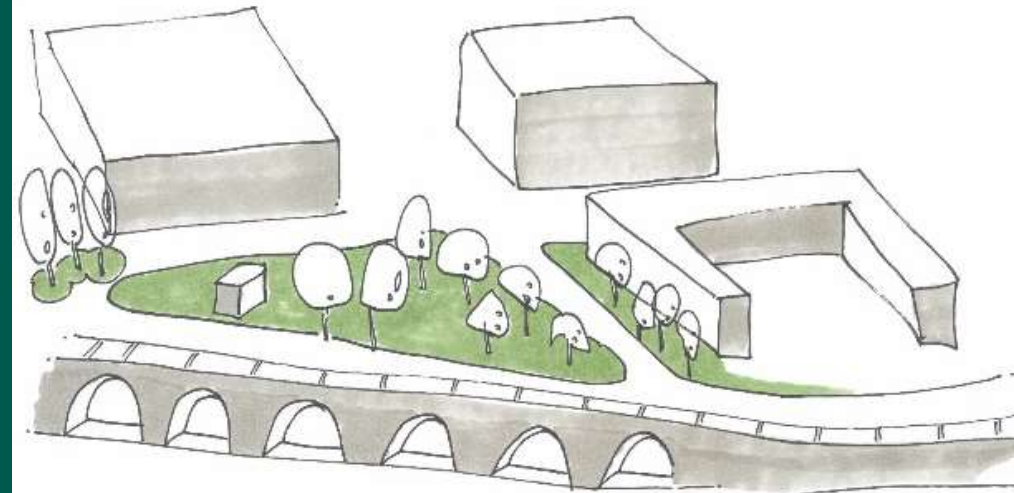
- All asphalt surfaces (1.066 m²) replaced with green areas and water-permeable surfaces
- Expansion of the park green area from 860 m² to 1617 m²:
 - Dissolution of one street into a cycling/pedestrian path + lawn
 - Larger green space through terrain modeling





Tree planting

- 16 new trees in the park
- 9 trees along the train viaduct with sponge city principle
- Value:
 - Shade
 - Evaporation / cooling
 - Increase quality of stay



Sponge city

- Trees linked with rain gardens
- Sponge city body built in layers
- Root-penetrable substrate: coarse gravel, sand, compost and biochar

Value:

- Expansion of the root space under paved surfaces
- Creation of a retention volume
- Optimum irrigation of city trees
- Discharge of sidewalk surface water





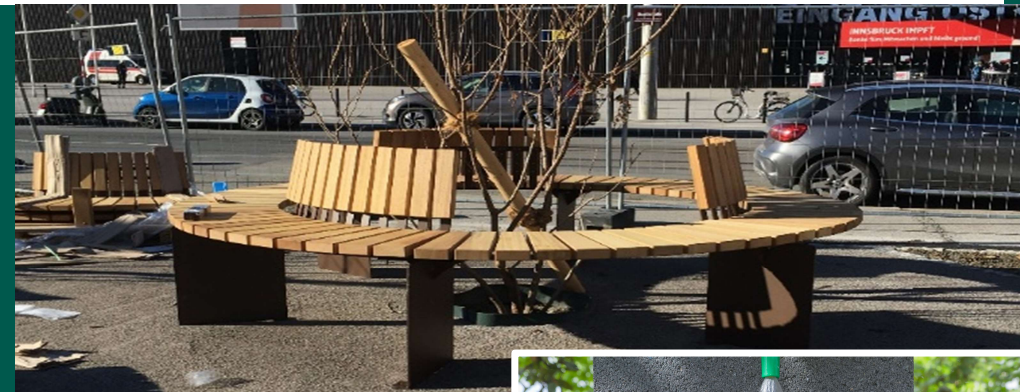
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Operating experiences – GREEN infrastructure

Water bound surface paths and drain concrete (cycle path)

Value:

- Barrier free
- High water permeability (concrete - 30l/sqm/second)
- salt dew resistant
- Prevention of ice formation (air circulation)
- Lower heat absorption
- High strength for static heavy traffic



ENREGIS path



Drain concrete

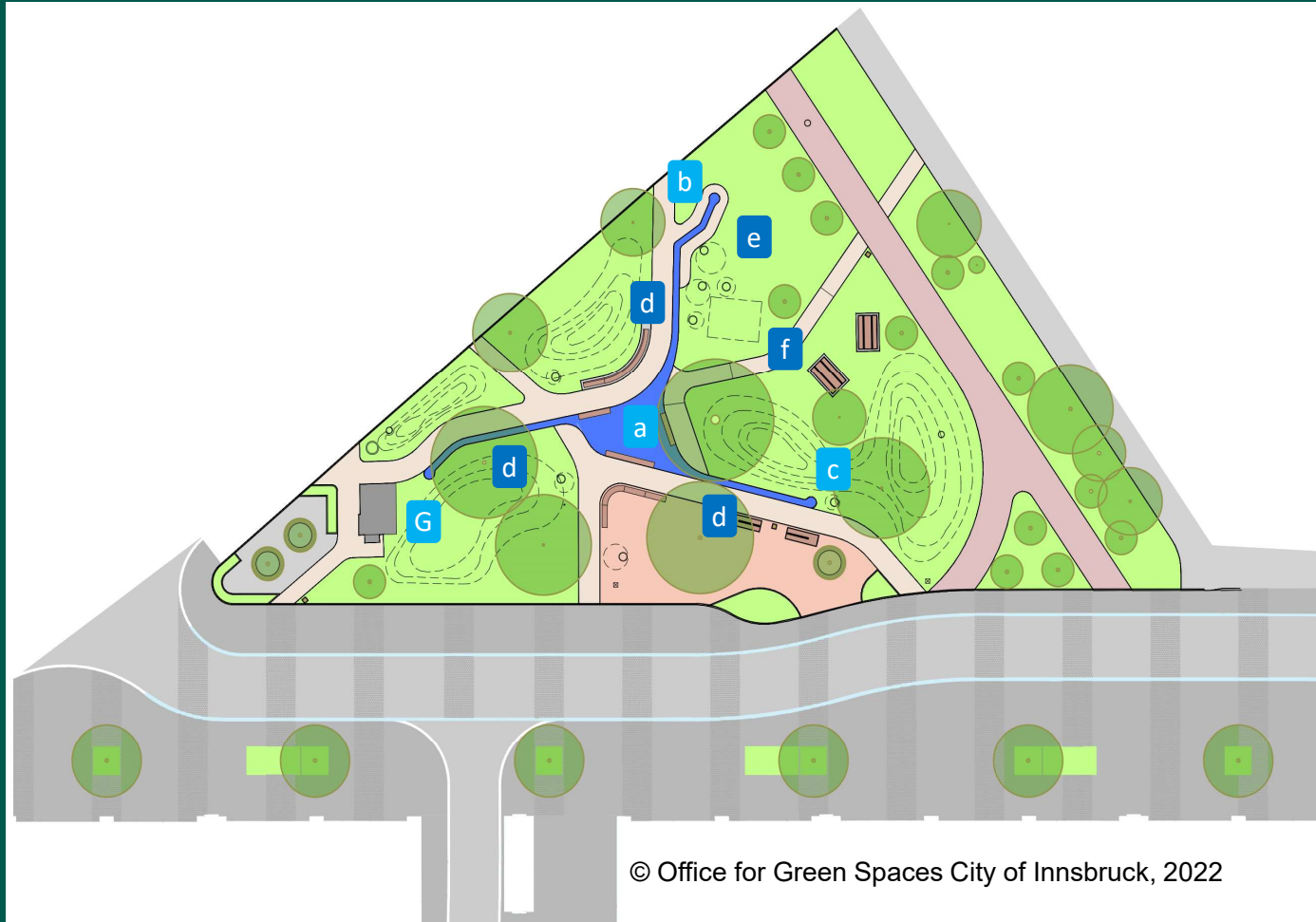


Operating experiences – BLUE infrastructure

- a** central water element
- b** Water walls
- c** drinking fountain
- d** Streams
- e** Water treatment
- f** seepage
- G** steering

Fresh water

Industrial
water



Operating experiences – BLUE infrastructure



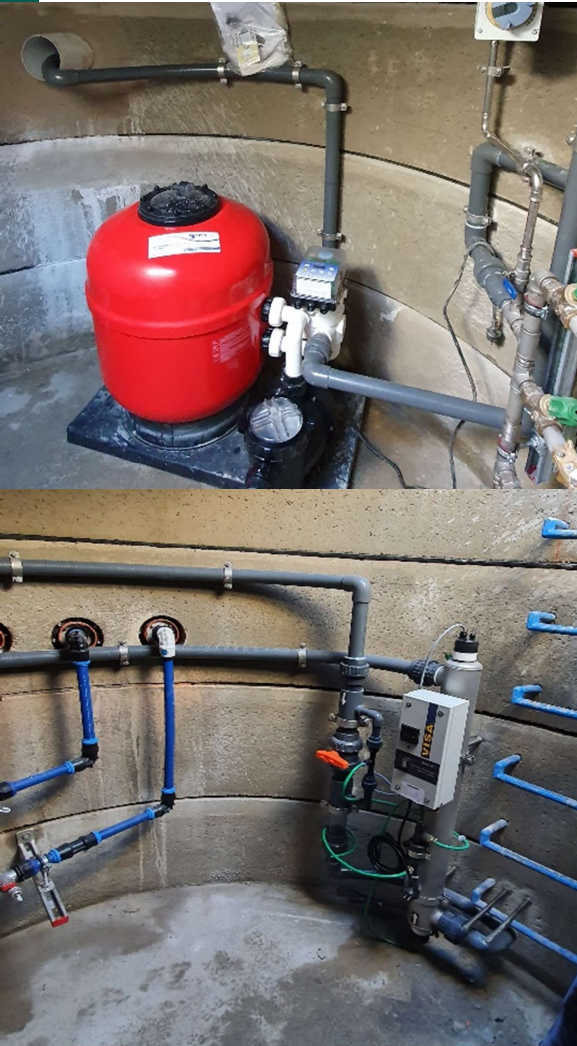
Central water elements and water walls

- Fresh water (UV-treated)
- Automatic control - Daily rinsing and emptying, temperature led
- Different types of nozzles

VALUE

- Low water consumption – streams run on treated process water
- High value for passer-by
- Hygienic
- Small streams dry out – no algae

Operating experiences – BLUE infrastructure

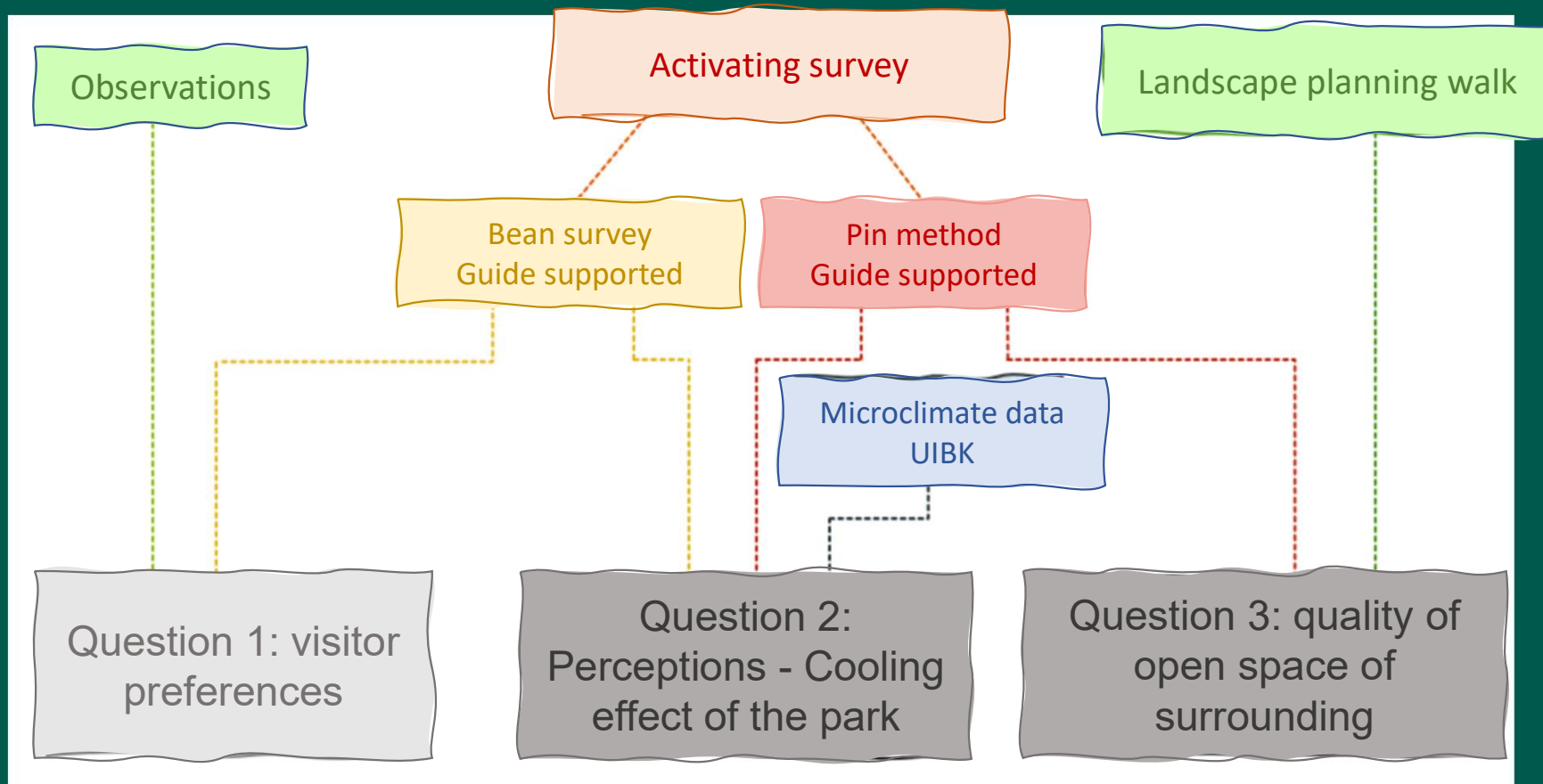


Water treatment and control

- Sand filters and UV filters process water collected from the sludge trap

➤ A Rolls-Royce in terms of water control

Effect on people - “Social Monitoring” (Lintner, 2023)



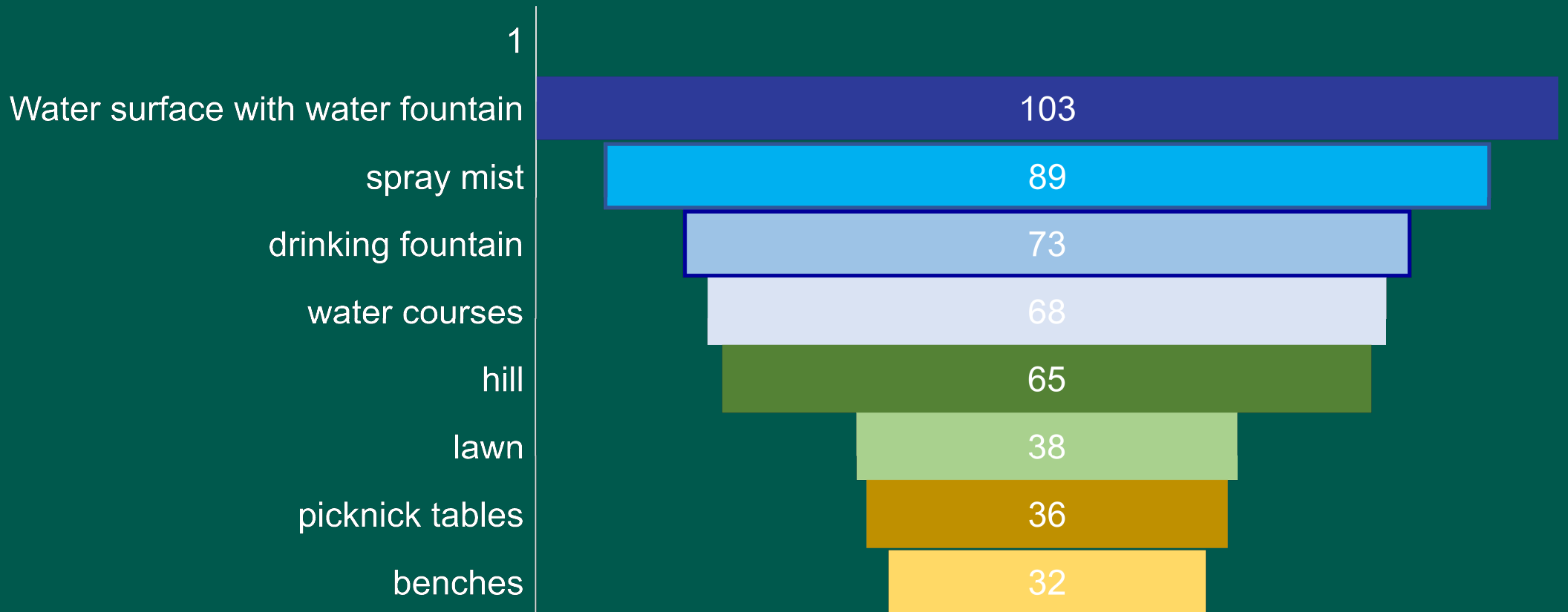


Peoples' perceptions

- More pleasant temperature in the park
- No green alternatives in immediate living area
- extra living room, playing room
- Water central for quality of stay

Result of the surveys: “*What do you like in the park?*”

(Lintner, 2023)



COMMUNICATION goal

- **Informing** residents about the new park
 - Creating **awareness** about **climate change** and climate fit public space
 - A new meeting place for small/medium-sized **events** (surface, power connection, vambience)
-

HOW?

- **Positive experiences** are remembered longer
 - Being **involved** means that knowledge and consciousness is transferred into habits and actions
-



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Metamorphosis in climate communication

*The inconspicuous traffic island at
the trade fair is being transformed
into a climate-friendly oasis of well-
being*

-> 46 green events during 3 months



**INNS'
BRUCK**

KLIMASALON IM MESSEPARK
14. Mai bis Ende August 2022

Der neue klimafitte Park zwischen Messe
und neuer ÖBB Haltestelle wird zur Bühne.

Theater | Wissenschaft | Kino | Musik | Integration | Bewegung | Werkstatt

Veranstaltet von: Innsbruck Marketing und Bürgerbeteiligung Stadt Innsbruck
Wir bitten um Verständnis für eventuelle Änderungen, mit denen wir uns vorbehalten.



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AK



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Secret of success

- **Interdisciplinary** expert team – collaboration between different departments, agencies and institutions
 - Citizens' **participation** / co-creation / living-lab
 - Co-creation process **top-down + bottom-up!**
 - **Restricted** implementation time
 - Political **commitment**
 - **Multi-benefits** addressed
 - **Innovative communication** strategy (Climate Saloon)
 - **Holistic** solution
-



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Investment budget :

CITY

Office for parks € 230.000.-

Citizens' participation € 18.000.-

Municipal services € 370.000.-

Funding provider :

Climate and Energy Fund € 292.000.-

Total € 910.000.-

NEXT STEP: DDr. Alois Lugger Platz (COOLYMP) 2023-2025



@Stadt Innsbruck



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Mobility justice for all: framing safer, healthier and happier streets

32 Partners
12 cities



THANKS!

Elisabeth@urban-future.org



Funded by
the European Union



References:

Back, Y. et al. (2023): Cool urban living places for a resilient society - Results from the project cool-INN, *Novatech*

Back, Y. and Kleidorfer, M. (2023): Chancen und Herausforderungen bei der Gestaltung klimaresistenter dichter städtischer Gebiete mit Blaugrüner Infrastruktur, *Österr Wasser- und Abfallw.* 75:615–625

Lintner, C. (2023): Planning climate-fit places in urban areas using the example of “Trade Fair Park” in Innsbruck. Bachelor's thesis at the University of Natural Resources and Life Sciences Vienna.

Slides: Elisabeth Meze (Urban Future/FH-Kufstein), Lisa Stöllnberger (City of Innsbruck), Michael Trojer (IKB), Yannick Back (University of Innsbruck), Florian Kretschmer, Thomas Ertl, Christoph Lintner (University of Soil Science Vienna)

Areas	old	new	difference
Total area	1,253 m ²	2,486 m ²	+1,233 m ²
Green space	860 m ²	1,617 m ²	+757 m ²
Asphalt surface	1,066 m ²	0 m ²	-1,066 m ² (of which - 689 m² in canal)
Trees	14	30	+16 pieces
Canal catchment area in the sponge city area	1,950 m ²	0 m ²	-1,950 m²

∑ Relief from the public sewerage system 2,639 m²