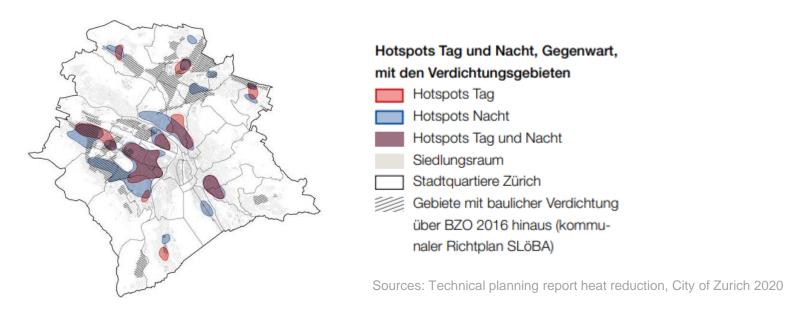


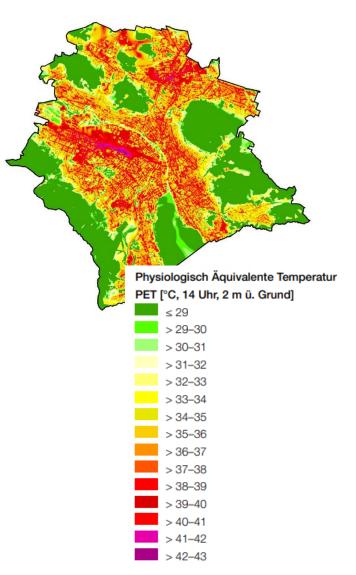


Technical planning report about heat reduction (2020)

Objectives:

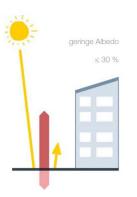
- 1. Prevent overheating across the entire urban area
- 2. Relieve "vulnerable areas" as a priority
- 3. Preserve existing cold air system





Approaches for street spaces

- Shading (trees or technical)
- Unsealing sealed surfaces
- Retain water and let it seep
- Open water bodies, fountains
- Use materials with high albedo











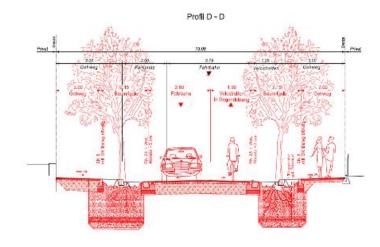
Sources: Technical planning report heat reduction, City of Zurich 2020

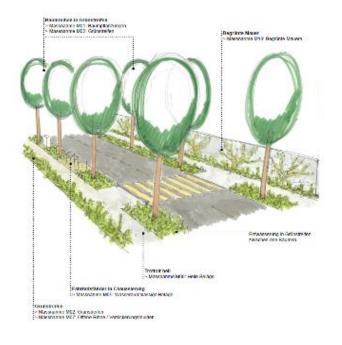
Implementation – planning instruments

Heat reducing measures require space, but the space is scarce:

Heat reduction +

- space for different modes of transport,
- obstacle-free use,
- utility infrastructure and service lines,
- maintenance, etc.
- → Adjust standards, norms, and other planning instruments to ensure meaningful implementation





Implementation – planning instruments Currently considered to be adjusted:

- 1. Basic Attitude > Supplementing with basic goals for shaowing and materials
- Room Types > basic principals how proven solutions for heat reduction can be integrated in street designs
- 3. Catalog of Standard Elements > 1. Label for existing elements with positive effect,2. identifyinfg what can be improved



Implementation – pilot projects

- To verify simulated effects (e.g. light pavements)
- To see what can be done with minor changes







Photo: Roggenstrasse



Photo: Escher-Wyss Platz

Excursus: sponge city concept

- Two large-scale projects planned

- Pilot project to test specific elements (i.e. the curb)
- indiproject to test specific elements (i.e. the co



Photo: Special curb at Giessereistrasse pilot

Ausserrahmen rechteckig 2,00 x 3.00 m Stahlwinkei 0.18 x 0.09 x 0.01 m

- Betonrohr Ø 500 mm Länge 0.75 m

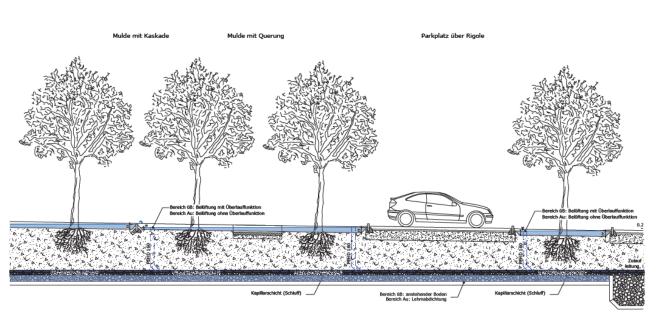
auf Betonrahmen 0.20 x 0.30 m verschraubt TAZ-Nr 5007183

Optional: Baumscheibenschutz rechteckig,

* Licht aum für Unte haltsfahrzeuge gemäss Normblätter 16.02 / 16.03

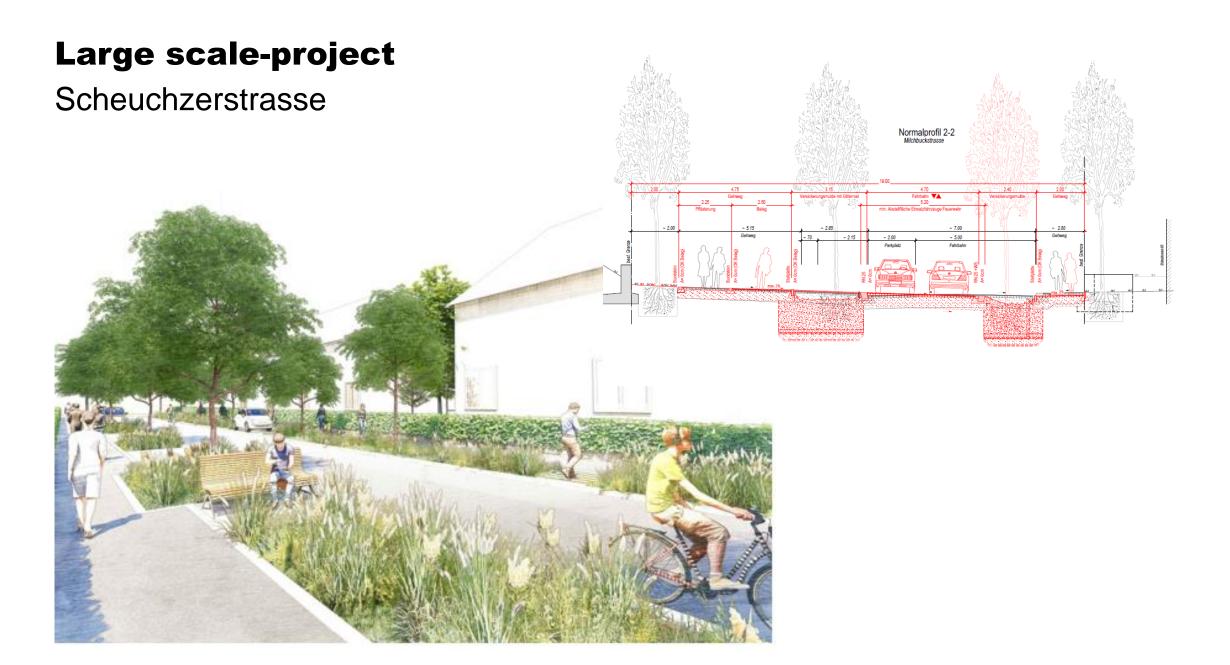
16.21 / 16.31

Breite der Baumgrube



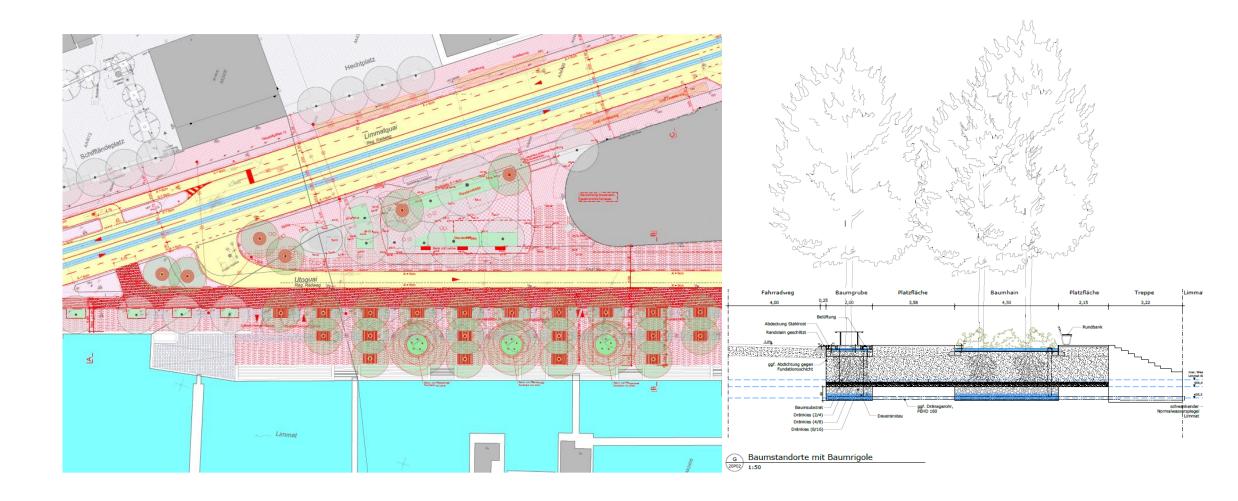
Plans, visualzations from project Scheuchzerstrasse

Breite der Baumgrube Fuge zw. Randstein Optional: Baumscheibenschutz rechteckig, und Aussenrahmen Feuerverzinkt, auf Betonrahmen verschraubt max. 5 mm, TAZ-Nr. 5008115 mit Mortel verfugt Aussenrahmen rechteckig 2.00 x 3.00 m Stahlwinkei 0.18 x 0.09 x 0.01 m Normb ätter auf Betonrahmen 0.20 x 0.30 m verschraubt 16.21 / 16.31 TAZ-Nr. 5007183 (bei Gehweg) 70cm Baumsubstrat A 70cm Baumsubstrat B



Large-scale project

Utoquai / Riviera



Large-scale project

Utoquai / Riviera



Thank you.

IMPACTS conference Dublin, 9th of June 2020 Rupert Wimmer, Head of transport and urban space planning, City of Zurich, Department for Civil Engineering