

10. Ljubljana Forum

From Digital Transformation to Driving Innovation and Sustainability – Smart City Zurich

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Starting Points for Smart City Zurich

- **Urbanisation:** By 2050, two thirds of the world's population will live in cities. The Greater Zurich Area has 1.5 Mio. inhabitants.
 - **Challenges:** Quality of life in urban areas shall be maintained or improved. At the same time and facing climate change, resource and energy consumption will have to be reduced.
 - **Innovation:** New technologies and digital transformation offer great potential to address these challenges – if we get it right.
- Cities will shape societal developments and drive innovation – world wide.



Digitalisation: Opportunities and Threats for Sustainability

Opportunities for Sustainability

- Digital networking of products and processes (industry 4.0, internet of Things) promotes efficiency, dematerialization and reduces the demand for resources.
- Digitisation is a key technology for addressing climate change: Logistics, transport, corporate sustainability management, building technologies and a sharing economy can be strengthened.

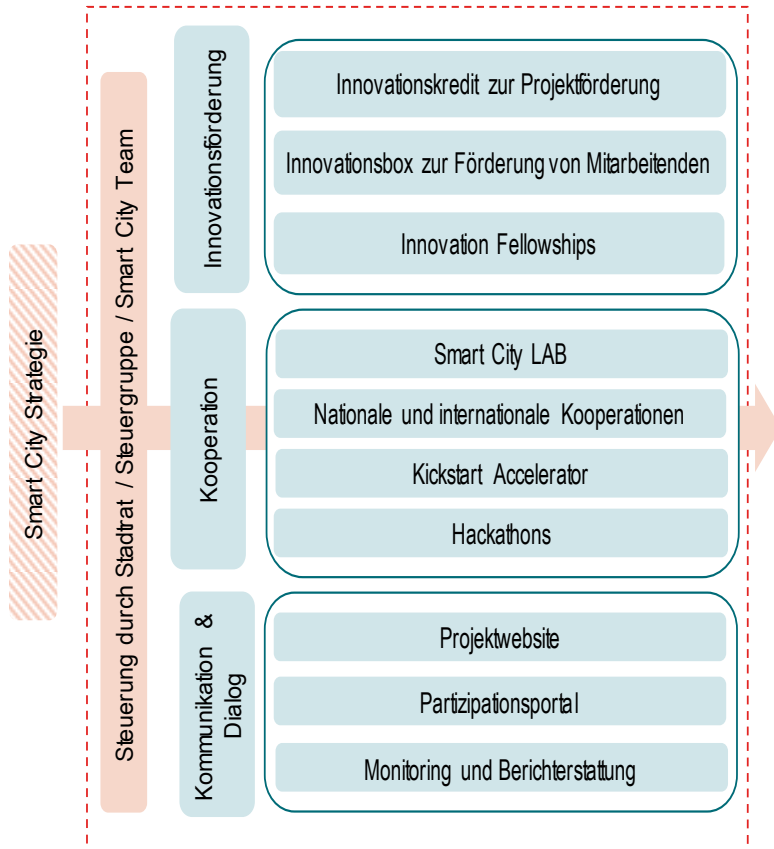
Threats for Sustainability

- As of today, energy requirements of server farms produce as much CO₂ as global air traffic.
- Digitalisation increases the demand for limited raw materials, including production, logistics and disposal.
- Taken together, this creates problems in terms of ecology, economy, jobs, politics and society.

Smart City Zurich – Three Strategic Objectives

- **Equal opportunities and a high quality of life for everyone.** SMART City Zurich involves the entire population. This includes everyone who lives, works in or visits the city in Zurich.
 - **Sustainable development:** Zurich wants to build on digital transformation to improve environmental quality and to become a 2000 watt as well as a net zero CO₂ society .
 - **Innovation and attractive business.** Zurich promotes a state of the art and reliable digital infrastructure as well as attractive framework conditions for innovative entrepreneurs.
- Innovation and networking are core elements of the Smart City Zurich strategy.
 - Thus, Zurich is strengthening its agility in view of technological changes and grand challenges ahead.

Smart City Zurich – Three Core Elements



- Strengthening innovation within the administration
 - Innovation grants for projects involving several offices
 - Innovation box supporting co-workers with innovative ideas
 - Innovation fellowships for extern experts
- Cooperations of external partners with the City of Zurich
 - Smart City LAB supporting projects with partners
 - National und international cooperation
 - Data pool – sharing internal and external data
 - Kickstart Accelerator for start-ups, companies, public offices
 - Hackathons addressing specific issues
- Communication and dialog
 - Website informing a public audience
 - Participation addressing the broad population
 - Monitoring and reporting to strengthen political support

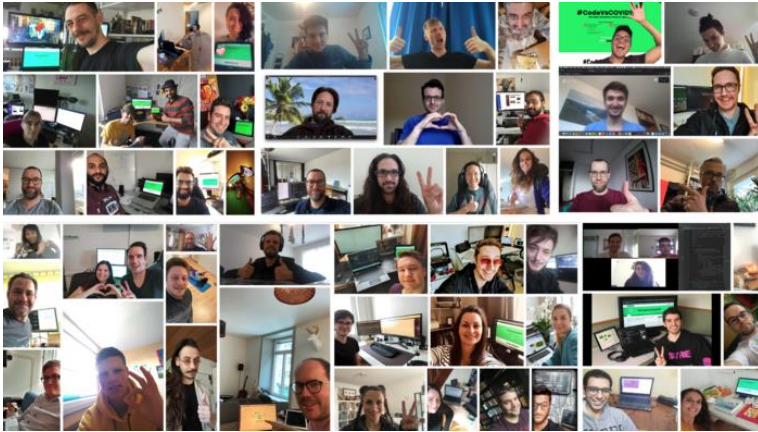
Experience made – Linking of Top Down and Bottom up

- Projects implemented under the umbrella of Smart City Zurich are diverse. They include top down as well as bottom up initiatives and their number is constantly increasing.
 - Citywide network for the Internet of Things
 - Connecting services for an integrated urban mobility
 - Supporting neighbourhood projects
 - Equal opportunity platform
 - Care centre communication
 - Digital support of participatory processes
- Moreover, Smart City became an innovation hub.
 - Coaching co-workers, public offices as well as private companies with regards to innovation and digital transformation.

- The digital transformation of the public administration has become business as usual!



Devellopping Smart City Zurich – Lessons Learnt



- From digital transformation to smart innovation!
 - We started with the attempt to strengthen digital capacities in the administration – and ended with a comprehensive innovation programme.
- Including policy makers from the beginning!
 - We involved policy makers on a regular bases in order to assure their support.
- Bringing together internal and external expertise!
 - We empowered an internal steering committee and teamed them up with an external sounding board.
- Empowering the population!
 - Many down to earth projects have been proposed.

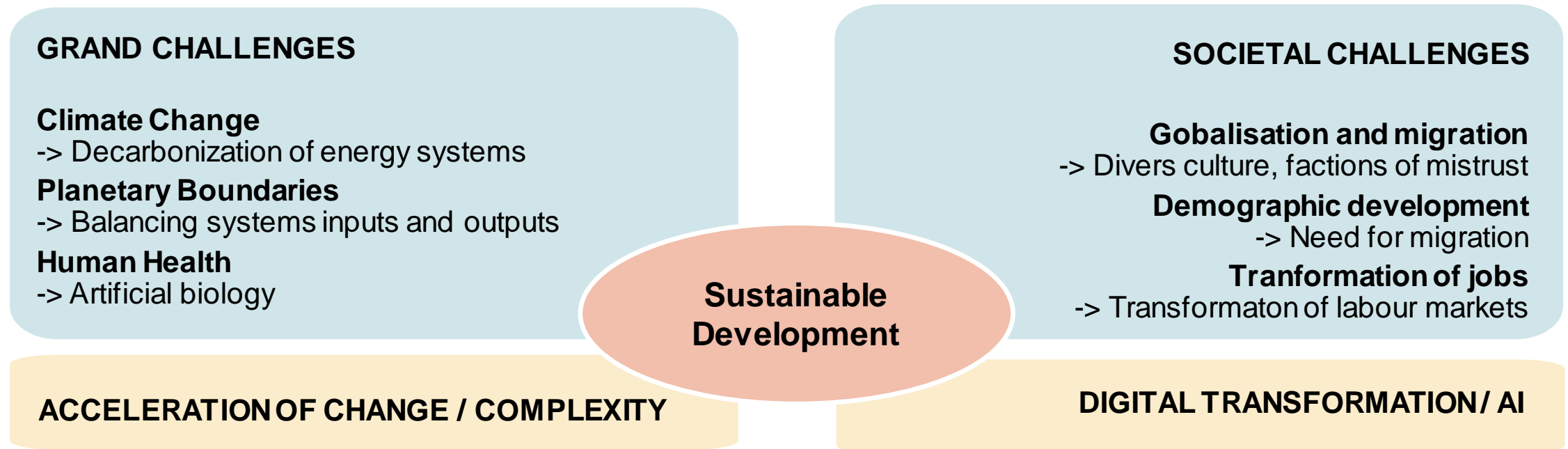
So far so good?



Inspite of 40 Years of Sustainability and Digital Transformation



Sustainability has to be our Core Concern!



- When launching Smart City projects, their contribution to a more sustainable development has to be the main focus.

We know enough.
We have the technologies.
We have the financial means.
It's up to us, to make the change happen.



Impressum

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