

## 10. Ljubljana Forum

# From Digital Transformation to Driving Innovation and Sustainability – SMART City Zurich as an Example

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# Starting Points for SMART City Zurich

- Cities will shape societal developments and drive innovation – world wide.
- **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, resource and energy consumption will have to be reduced.
- **Innovation:** New technologies and digital transformation offer great potential to address these challenges.



# 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.

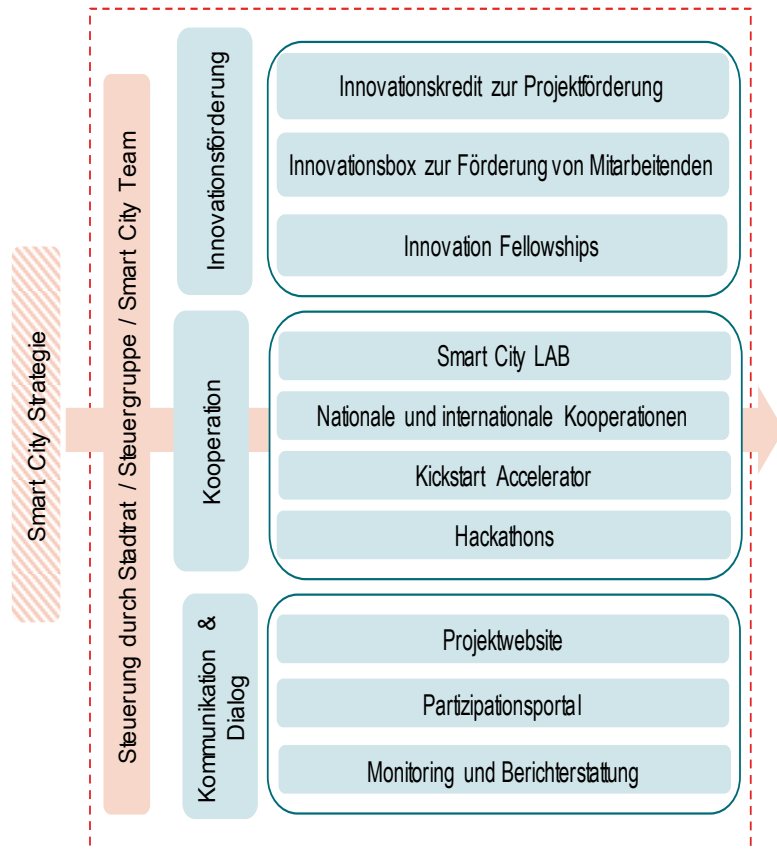
## Threats for sustainability

- Already today, energy requirements of server farms produce as much CO2 as global air traffic.
- Digitisation leads to a growing demand for limited raw materials, including production, logistics and their disposal.
- 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 CO<sub>2</sub> 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 Smart City Zurich strategy.
  - Thus, Zurich is strengthening its agility in view of technological changes and grand challenges ahead.

# Innovation / Cooperation / Dialog – Three Main 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 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

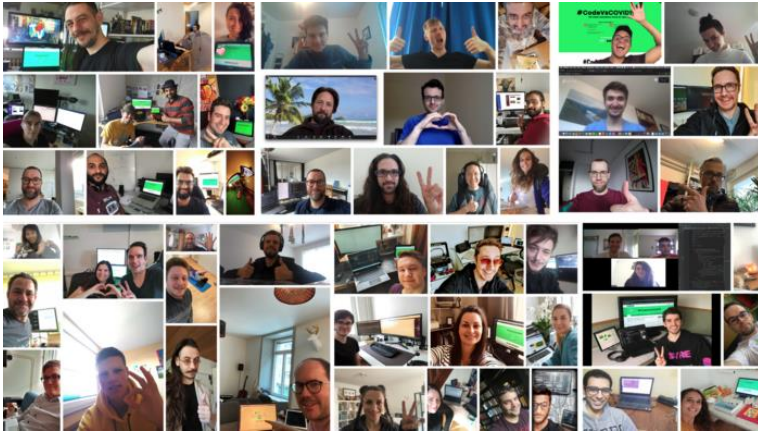
# Experience made – in Zurich and in other places

- Projects implemented under the umbrella of SMART City Zurich are diverse. They include top down as well as bottom up initiatives.
  - Citywide network for the Internet of Things
  - Connecting services for an integrated urban mobility
  - Neighbourhood projects
  - Equal opportunity platform
  - Care centre communication
  - Digital support of participatory processes
- «SMART City» became Zurich's 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!



# Developing SMART City Zurich – Lessons Learnt



- From digital transformation to smart innovation!
  - We started with strengthening digital capacities in the administration – and ended up with a comprehensive innovation programme.
- Including policy makers from the beginning!
  - We involved policy makers on a regular basis 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?

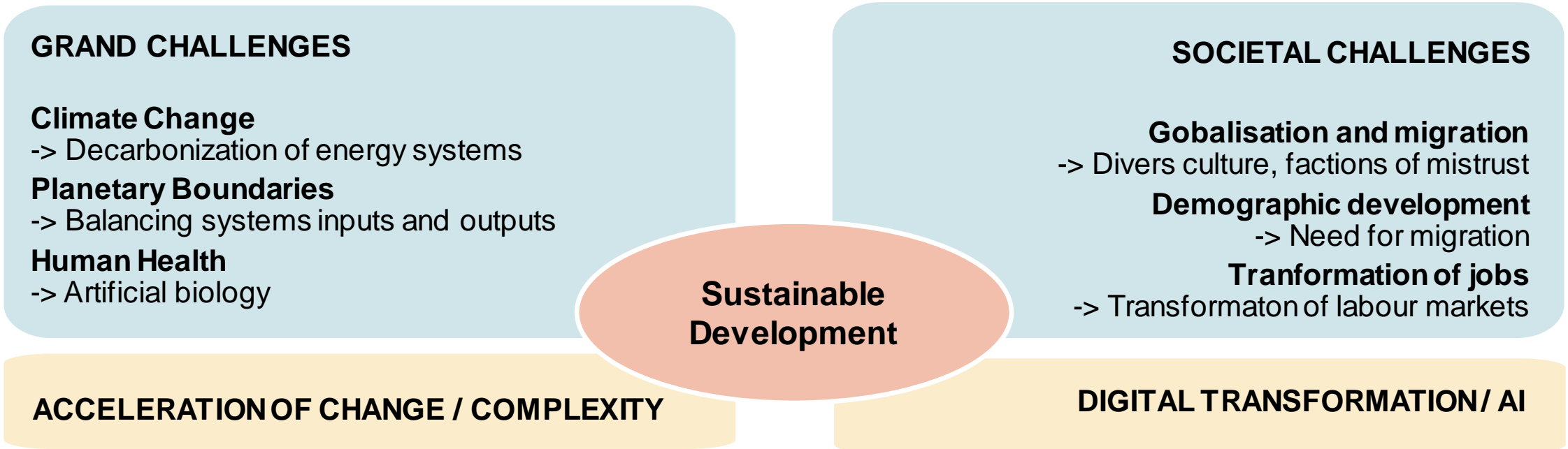




# Inspite of 40 Years of Sustainability and Digital Transformation



# Lets Put the Focus on Sustainable Development!



We know enough.

We have the technologies.

We ourselves bear responsibility for the change needed.



## Impressum

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