Trust in the context of smart cities
Cities as fora (and battlegrounds) of civilization

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Agenda

- Cities
- Public space, urban spirit, and surveillance
  - Sensing traffic and public life
  - “Camera zones”
- Summary & outlook
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“By far the greatest and most admirable form of wisdom is that needed to plan and beautify cities and human communities.”
— Socrates

“Privacy is precious in cities. It is indispensable. Perhaps it is precious and indispensable everywhere, but in most places you cannot get it. In small settlements everyone knows your affairs. In the city everyone does not — only those you choose to tell will know much about you.”
— Jane Jacobs, The Death and Life of Great American Cities

From a city in which I am expected to live I demand concrete roads, street-cleaning, a key for the door, air heating, hot water pipes. Convivial I am myself.
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The Citizen as a sensor

The log of events in relation with citizens and their municipality
„Data are the new oil“
Big Data = Big Brother?

[www.thebigdatainsightgroup.com/site/article/big-data-talk-005-big-data-big-brother]
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• EU Draft Regulation on Privacy and Electronic Communications (2017/0003(COD))

Location data in the ePrivacy Regulation

- Art. 4 (3)(c): “‘electronic communications metadata’ means [...], including [...] data on the location of the device generated in the context of providing electronic communications services, [...][/span]”

- Too narrow:
  - Telcos are covered.
  - OTTs are not covered!

  - Only limited protection for users (and the borderline is hard to understand for users)
  - Competitive disadvantage for telcos (European players)

- Delete the text in red.
Person responsible for collection must indicate measures end-users may take to minimize or stop the collection.

Gives the impression that organisations may collect information emitted by terminal equipment to track the physical movements of individuals (such as “Wifi/Bluetooth-tracking”) without the consent of the individual concerned.

The party collecting these data could apparently comply by means of a notice informing users to switch off their devices, when they do not want to be tracked.

Contrary to a basic goal of the telecommunications policy of the European Commission to provide high-speed mobile internet connectivity with strong privacy protections at a low cost to all Europeans, across borders.
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Cities are microcosms of civilization.
Digitalisation expands and intensifies data flows.
„Data are the new oil.“
Smart City providers must support
- Design / control of data flows
- Decentralisation of data and processing
- (Transitive) Protection of users and citizens
Users (and researchers and regulators) must
- Watch data flows carefully
- Consider, whether the respective application ...
  - ... needs the data,
  - ... is worth the data.
CyberSec4Europe
Demonstration case “Smart cities”

- Address cybersecurity challenges of smart cities
- Mainly related to privacy management in data exchanges among city stakeholders
- Cases to be elaborated with OASC and member municipalities, such as Genoa and Murcia
- OASC: “Create an open smart city market based on the needs of cities and communities”
- Personal Data Space: Personal data service & repository enabling citizens to e.g.
  - Manage and share personal data during the interaction with real life services
  - Grant and withdraw consent to data access
Demonstration case “Smart cities” as a dedicated environment

- Exchange of ideas, needs, best practices and lessons learned among cities and cities’ stakeholders
- Identification, uptake, collaborative development and deployment of cybersecurity services for smart cities
- Novel business model and Trusted marketplace to
  - pool resources and
  - decrease the individual cost supported by each city
- Contribute to the Governance model of the
  - CyberSec4Europe competence network pilot
  - EU Cybersecurity Competence Network institution/body
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