



# From Secure to Trusted Smart Cities

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# Issue of Sustainability

- **“2020“-“Vitalizing Region” - Increasing needs for city-wide efforts in Japan**
  - 2020 - Olympic Game, Tokyo; scope is over many regions and sectors for tourists etc
  - Vitalizing region; Japanese government strongly promote the project “vitalizing citizen, town and work”, officially called **“Overcoming Population Decline** and Vitalizing Local Economy in Japan” in English.
  - It means sustainability is important issue for regions and also for continuity even after above projects.
- **It is proposed that eSelf-government capability with cross-sectorial federated life support services with social trust might be important for sustainable smart cities\*1,2**
  - From a point of view of autonomy and spontaneity through citizen-oriented approaches
- **In order to realize such federation, security issues are important for reducing unsafety, but in addition social trust will become important.**
- **CSA(Community Supported Agriculture) and crowdfunding model with some compensation will be appropriate solution for sustainability, then what is the issue to expand the model to others and to accelerate the usage?**

## Why social trust and what is it?

\*1. E.Niwano, “Social Trust, Cross-Sectorial Integrated Services and eSelf-Governments for Citizen-oriented Smart Cities”, Proc. of Global Forum 2014

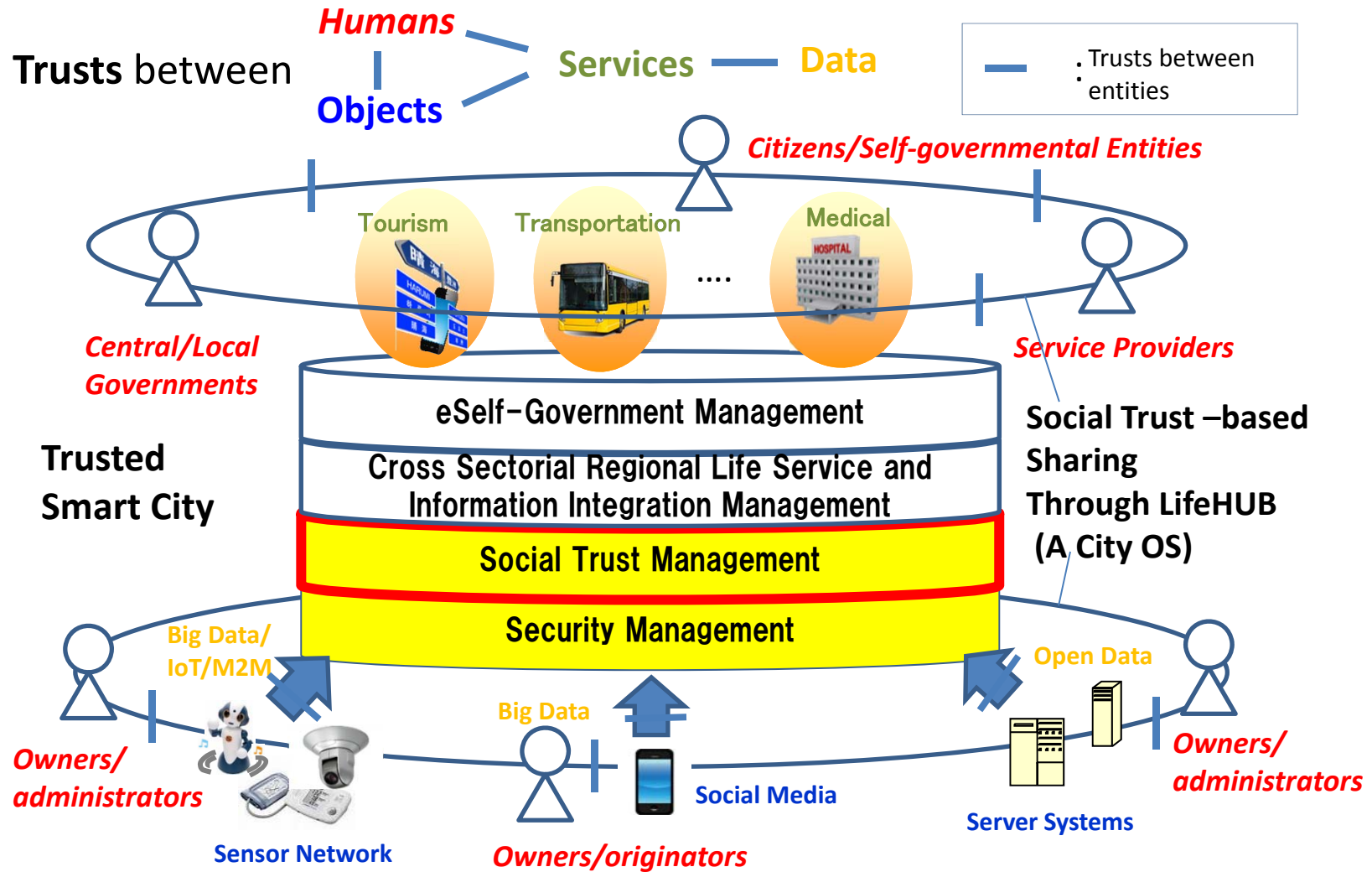
\*2. E.Niwano, “eSelf-Government as a next issue of eParticipation”, Proc. of Global Forum 2013

# Trust – Sharing – Resilience

- In the environment of “Internet of Everything(IoE)”, we need guarantee more for socially **who is who or what by whom etc**, correspond to real entities in the world
  - It is in the case we connect to unknown or well-known but uncertain human/objects.
  - Security is just computing issue basically.
- **Social trust/reliability** (not as performance issue, also) will be some kind of guarantee and the basis of relief in IoE environment.
  - Until now, trust is discussed in such fields as TPM (Trusted Platform Module), trust circle in SSO (Single Sign On) environment, but more upper layered human social aspects may have to be discussed more.
  - In IoE environment, services and data that humans-objects own/administrate/utilize may have to be shared based on social trust; **Self Trust - Mutual Trust - Cooperative Trust - Public Trust**
  - One of important thing is because those values changes dynamically based on social trust and social trust itself also changes dynamically according to many occasions and human view.
- **Sharing model** like CSA and crowdfunding **based on social trust** will be one of important concept for sustainability.
- Because it might give city-community **dynamic resilience** by every citizen and any other stakeholders by increasing chance and reducing risk of sharing.
  - In case of electronic decision making/communication/commerce/donation on “Social Trust”
- **Extended CSA(Community Supported Agriculture) model** to other sectors and **crowd funding** based on Social Trust will become important.



# Trusted Smart Cities



**-> How to evaluate and guarantee many types of social trusts in city?**