

@mrautavirta
#datapinciples2019 #EU2019FI

AI, IoT algorithms, big data: what for transport and mobility?

Digital Transport Days 9.10.2019

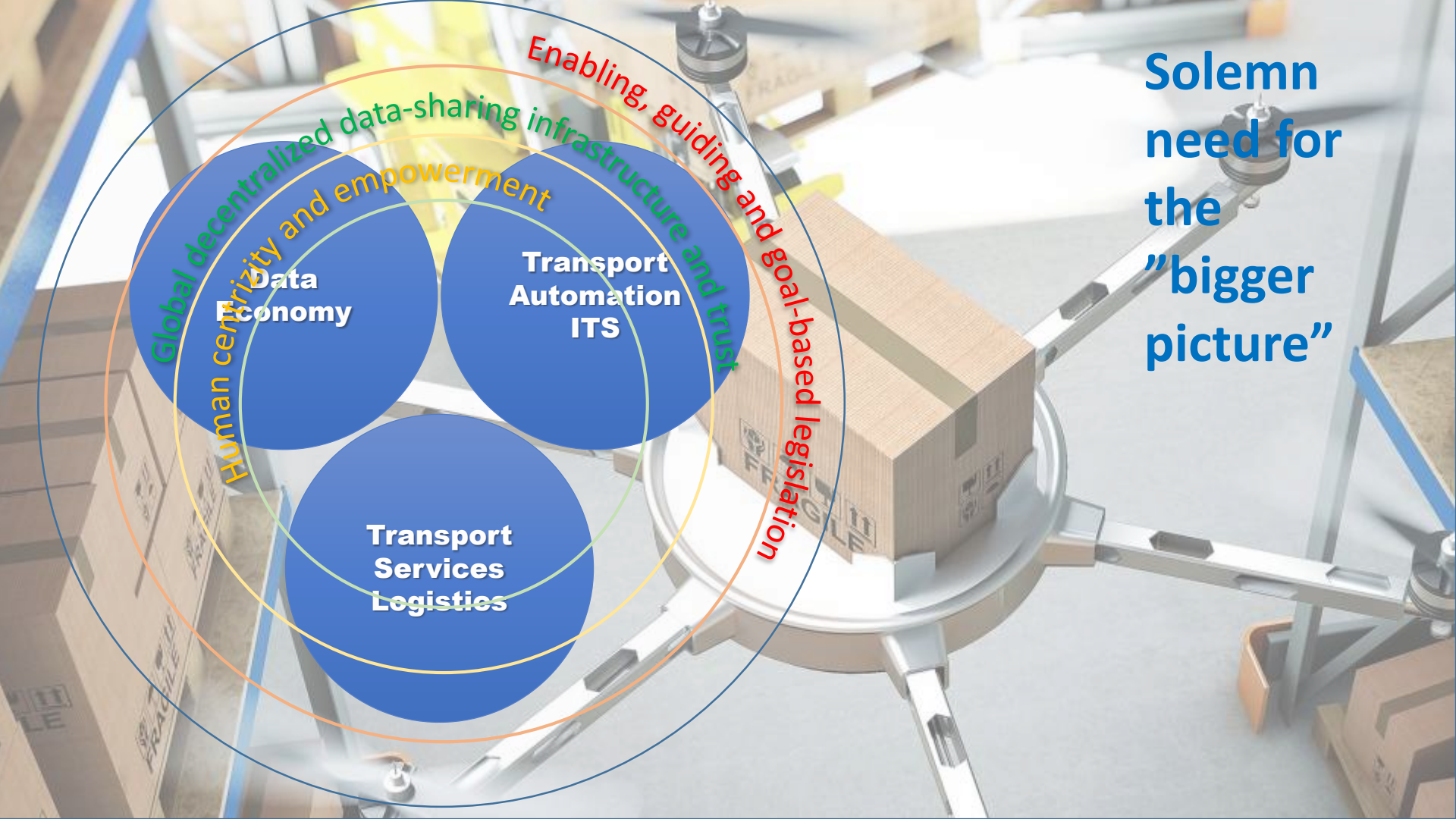
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LV MINISTRY OF TRANSPORT
AND COMMUNICATIONS

21.10.2019



Solemn
need for
the
"bigger
picture"

**Data
Economy**

**Transport
Automation
ITS**

**Transport
Services
Logistics**

Global decentralized data-sharing infrastructure and trust

Human centrality and empowerment

Enabling, guiding and goal-based legislation and trust

Development of transport automation has to be human-centric

- From organization and technology –oriented approach to human-centricity
 - Focus on increasing people's well-being
- Everything in the digitalization process should begin with the respect for basic human rights
 - Need to increase trust, sustainability and ethics
 - E.g. development and use of A/IS (AI)
 - Also inclusivity, equality and privacy in the form of personal data control should be regarded as key principles

Effective data sharing is vital for the transport automation

- **Decentralized (sector agnostic) data sharing infrastructure** must be developed
 - Basically global
- Creating a **digital model of the physical transport infrastructure** enables data to be updated in real time
 - Vehicle manufacturers commitment essential
 - Transport policy and management tools into data/digital format (light signals, geofencing, green zones)
- Availability of **both static and dynamic transport** data has to be increased
 - Increase quality of data

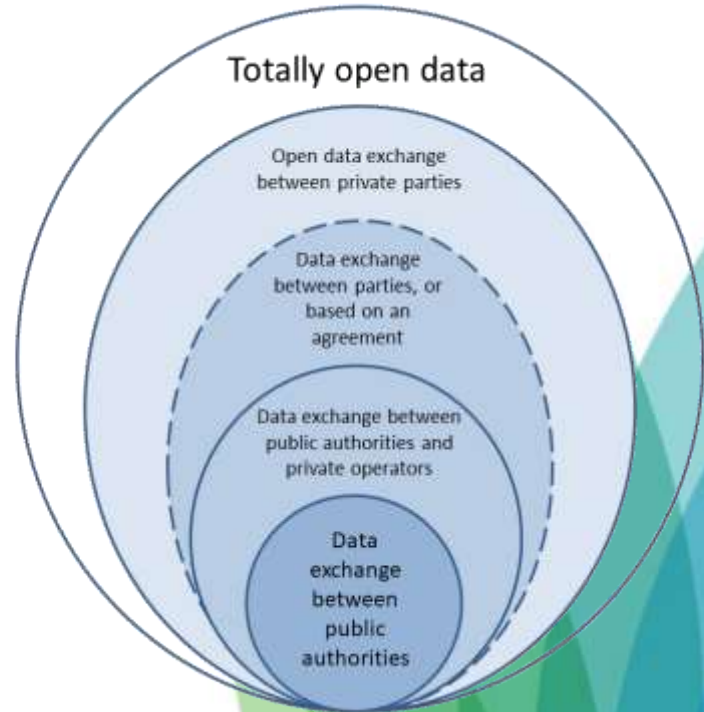
ELEMENTS OF DECENTRALISED DATA SHARING INFRA

Data: What we exchange

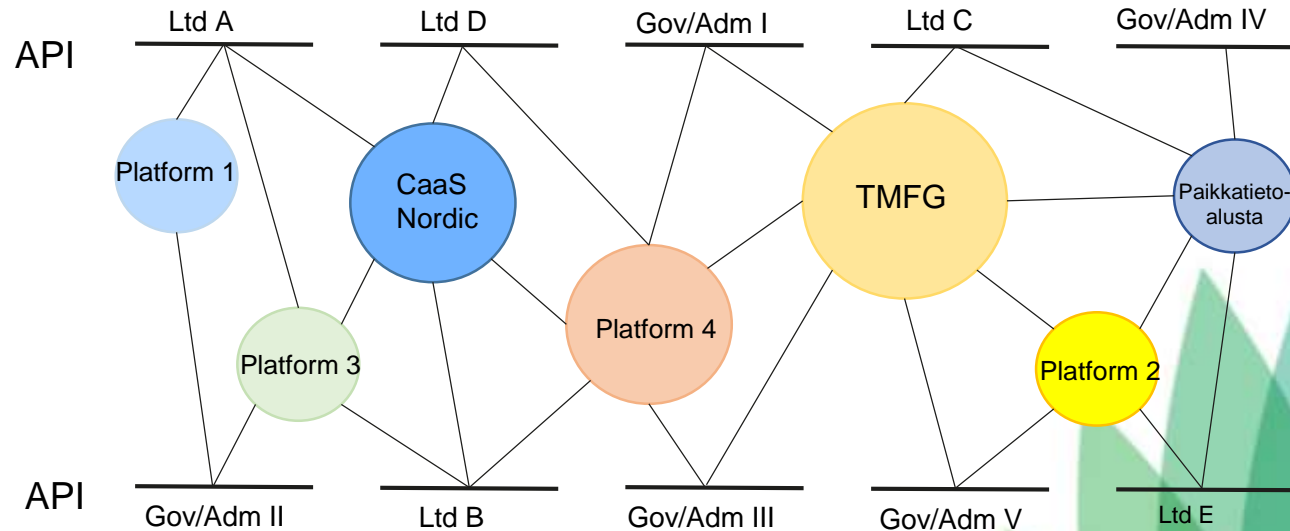
- Data in machine readable format, of good quality, real-time if possible
- Focus not on the ownership of data, but on the rights to use it

APIs: How we exchange

- Private and public entities share their data through their own APIs



Intermediary platforms (ecosystems)



Trust: Who can exchange

- Access to the data will be managed through distributed trust networks

New approach to regulation

- Regulation need to become more enabling and goal-based and less technical
 - Need to change the mindset if old concepts prevent us from finding solutions to the current challenges
- Transparency of algorithms!
- Emphasis on technology neutrality
 - Automation must be enabled to exploit general/public communication networks and satellite navigation
 - 4G/LTE/5G, GPS, Galileo, Glonass
- New approach needed for certification and type approval – EU must seek global solution!

WELLCOME TO CO-CREATE...

- **Principles for a human-centric, balanced and thriving data economy**

- <https://datapprinciples2019.fi/>



Thank you!