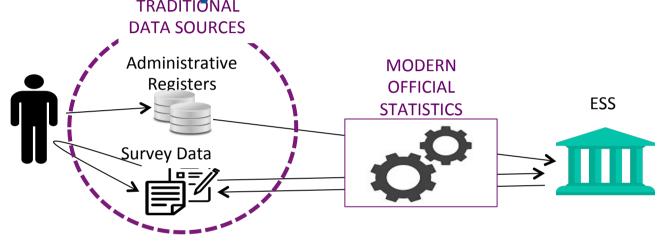


Trusted Smart Statistics: how new data and technologies will reshape official statistics

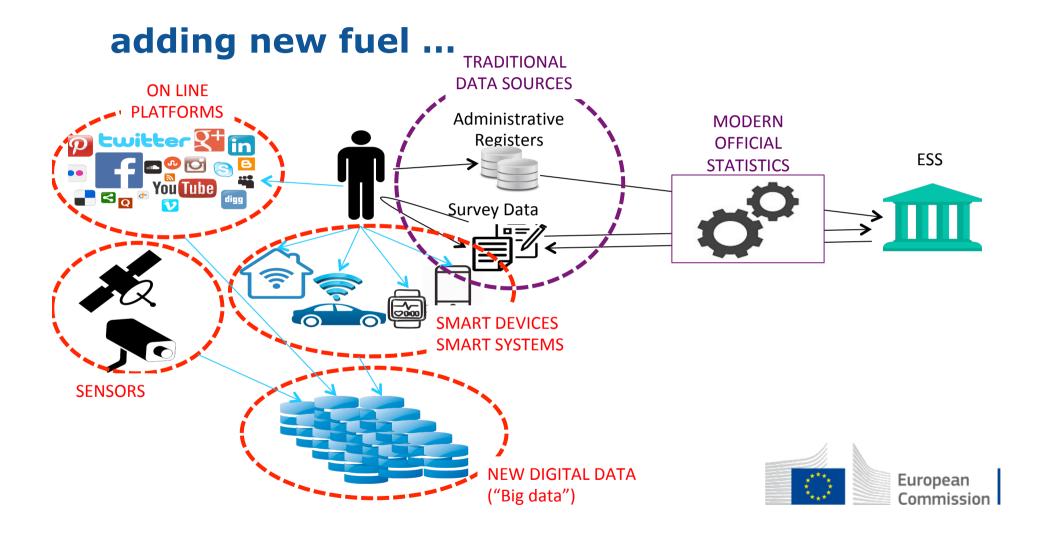
Martina Hahn Head of Unit B1 - Methodology; Innovation in Official Statistics

EUROSTAT- European Commission

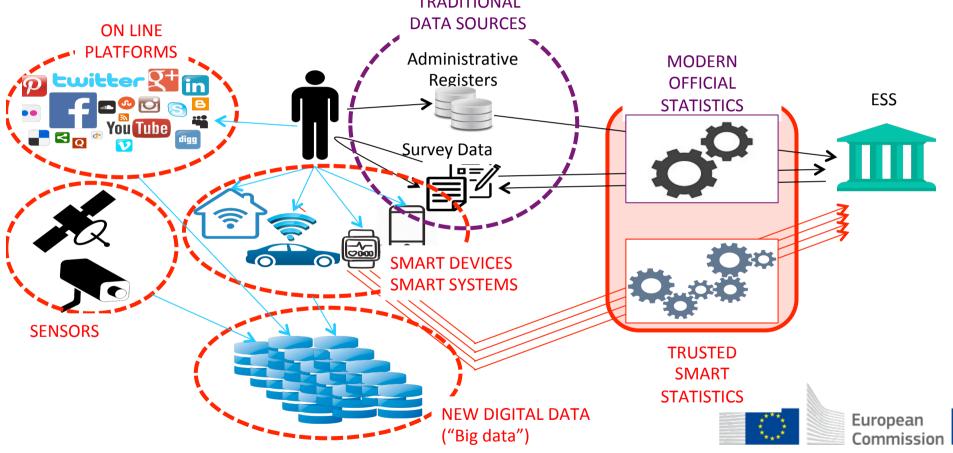
Official Statistics today TRADITIONAL





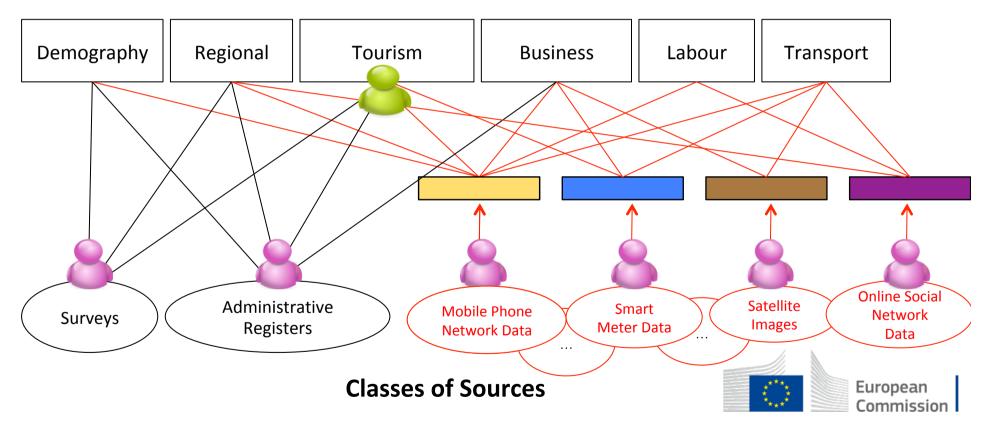


... requires building a new engine

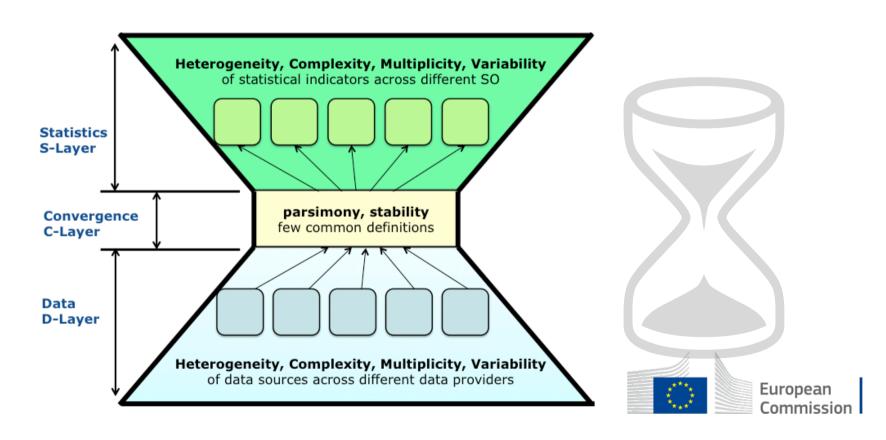


Multi-source statistics, multi-purpose data

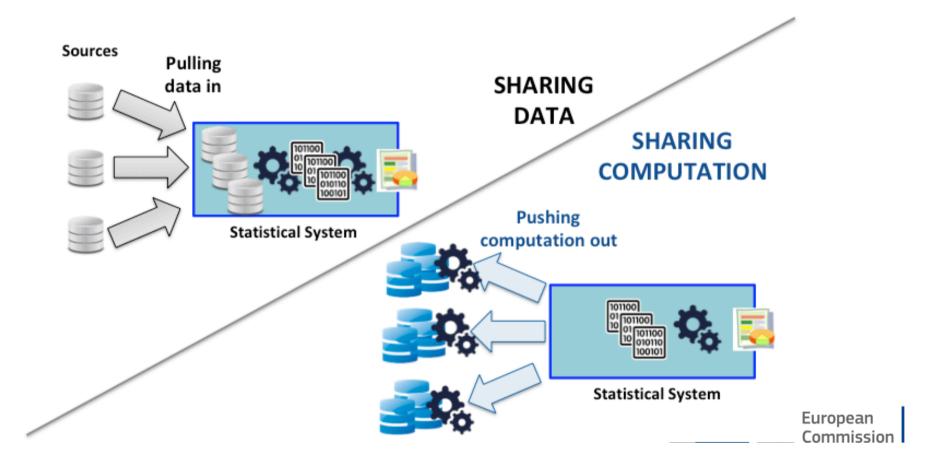
Statistical Domains



New methodological frameworks layered approach, hourglass model



Pushing computation out



Secure Private Computation and Auditability

Adopt **Secure Private Computing** technologies

- → disclosing only the desired **output information**
- → using data without sharing them

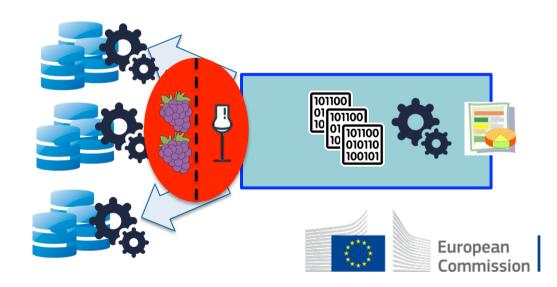


not the whole input data

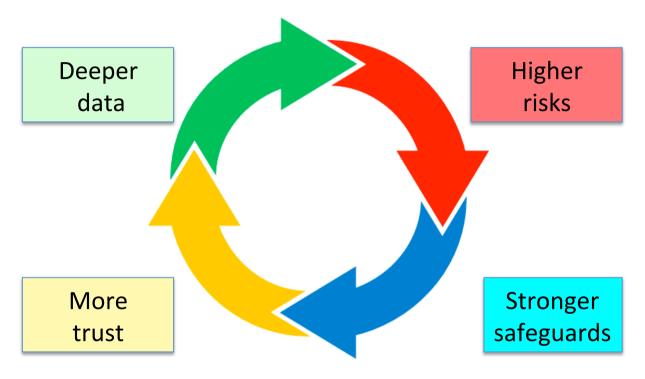


Sharing control with data holders over computation *execution*

Maximal transparency, auditability

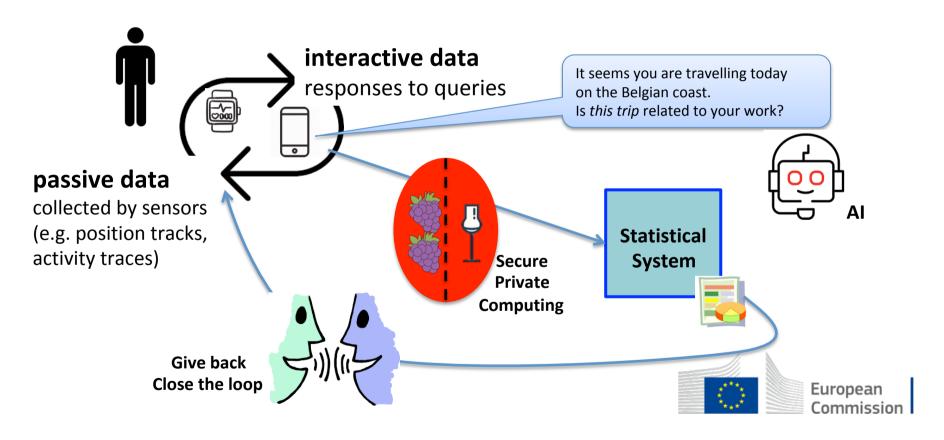


Trustworthiness → **better data**



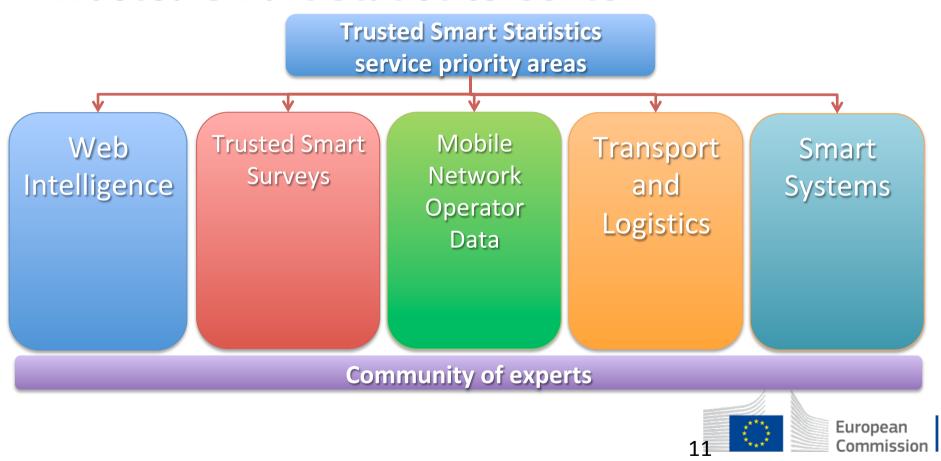


Engaging citizens, participatory statistics Trusted Smart Surveys



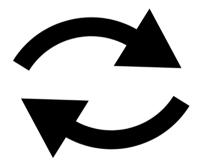


Trusted Smart Statistics Center

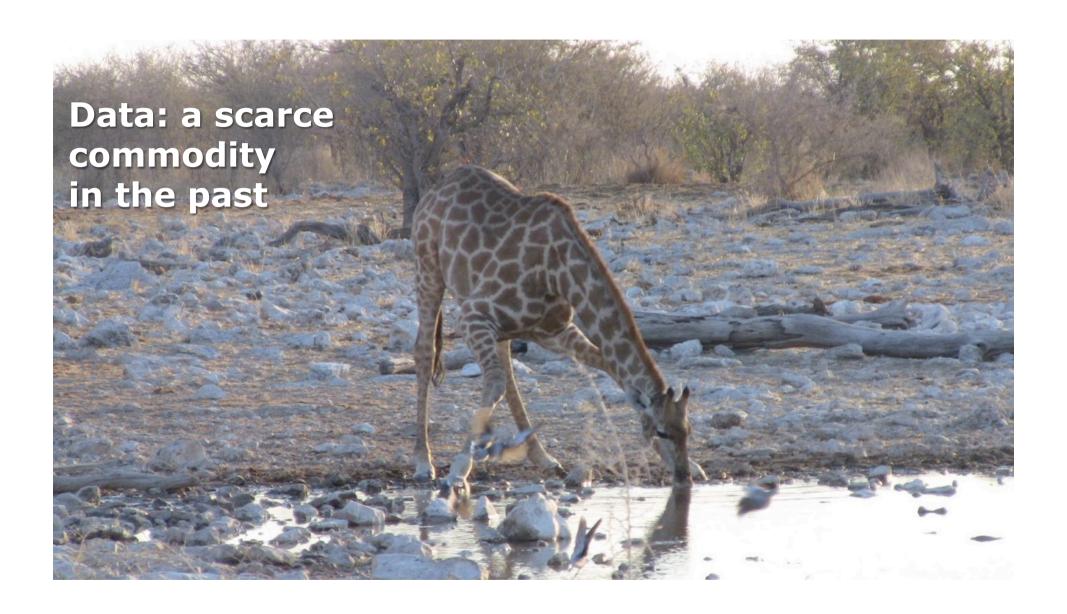


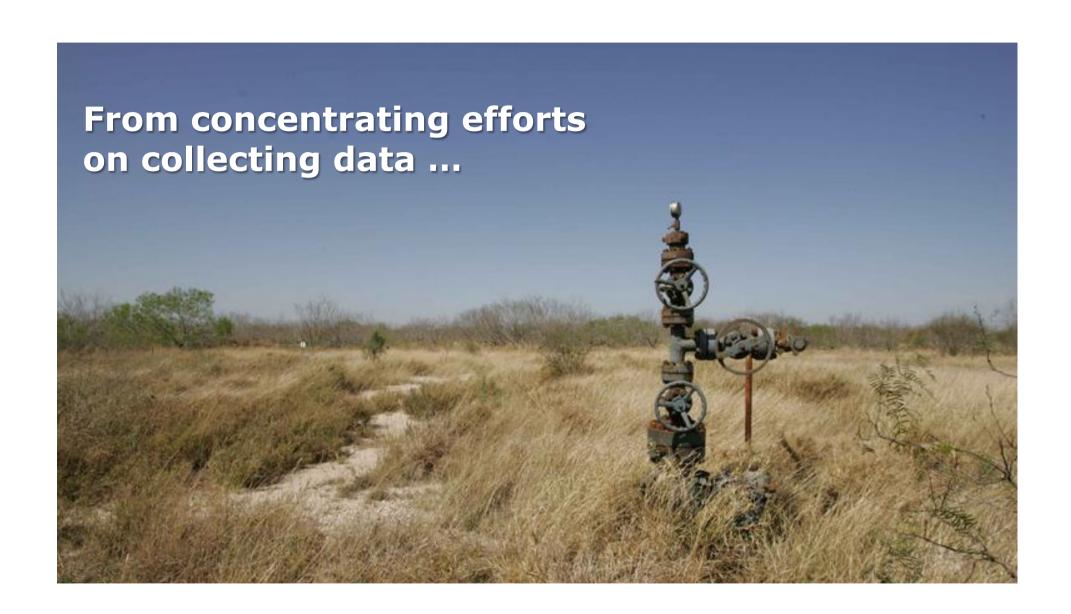
Access to privately held data

- Public-private partnerships can be successful, but also ephemeral.
- Ensuring **stable and sustainable** data access might require new legislation.
- Working out the technical, methodological and legal challenges must be done in parallel













Thanks for your attention

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Further reading

https://zenodo.org/record/3066061#.XOPLUPxR10s