Dr Fabio Ricciato

European Commission - Eurostat , Big Data Task Force, Luxembourg

Trusted Smart Statistics: What it is, Why it comes and Where it brings us

Abstract:

The talk sketches an evolutionary perspective of the production process of Official Statistics in the context of an increasingly "datafied" world, highlighting the main opportunities and key challenges that are associated with the exploitation of novel "big data" sources from the private sector. The concept of "Trusted Smart Statistics" is introduced and explained. The requirements, design principles and preliminary ideas for a general reference architecture enabling cross-domain processing of data sources from multiple data holders. In this context, an important role is played by enabling technologies like Secure Multiparty Computation and Trusted Hardware.

The goal of the talk is not to report on conclusive results, but rather open a window on work-in-progress activity within EUROSTAT and stimulate interactive discussion with the audience.