

Data architecture for statistical modernization: an integrated approach

Flavio Rizzolo (Statistics Canada, Canada)

flavio.rizzolo@canada.ca

Abstract

The nature of statistical production is changing: NSOs are increasingly dealing with larger volumes of data that is more heterogenous in nature and is generated at a much faster rate, which requires entirely new approaches to the way we architect and implement technical solutions in the world of official statistics. The Common Statistical Data Architecture (CSDA), together with other ModernStats models, like GSIM, GSBPM and CSPA, provide the basic abstractions to describe modern data platforms for statistical production, especially when integrated with FAIR and core metadata implementation standards, like DDI and SDMX.

We discuss StatsCan's integrated approach to modernization anchored in architecture viewpoints that link information capabilities with standardized information models, business processes and reusable components at the level of granularity required to design interoperable solutions.

Keywords

Data architecture, model integration, data platforms, interoperability, metadata standards, FAIR

Model (please specify name of at least one of models (i.e. GSBPM, GSIM, GAMS0 and CSPA) that your abstract is related to)

CSDA, GSIM, GSBPM