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## **Achieving optimal interoperability with statistical classifications, codesets and concordances**

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### ***Abstract***

An international statistical classification is defined as a standard for assembling and tabulating all kinds of data at the right level of detail needed to represent meaningful statistics. It provides a framework for international comparison and promotes harmonization of various types of statistics. In the last few decades, many successful initiatives have facilitated the understanding and representation of statistical classifications such as the work done defining the Neuchatel terminology model, GSIM's statistical classification model and a Linked Open Data representation of official statistical classifications to be published in the Web of data using standard ontologies. Today, our data consumers (people and systems) are confronted with several challenges such as the lack of consistency and uniformity on how international organizations and national statistical offices publish their official statistical classifications. The open data hype is very strong and the industry is forcing us to strengthen and optimize our data sharing abilities. Data interoperability is the ability of different information systems to connect in a coordinated manner, within and across organizational boundaries, to efficiently access, exchange and cooperatively use statistical metadata amongst stakeholders in support of statistical analysis and production. The presentation will provide an overview on the current state of official disseminated statistical classifications and provide options on how best to tackle optimal interoperability in this space.

### ***Keywords***

Statistical classifications, codesets, concordances, interoperability, inter-optimability, RESTful, API, data open standard