Statistics Norway and implementing ModernStats models

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# Introduction

As part of the modernization effort in Statistics Norway, there have been a coordinated and focused effort to base the modernization on the ModernStats standards, including, GSBPM, GSIM and CSPA. Operationalizing these standards in a systematic way have always been a challenge. However, using Open Source tools, modern system development techniques and best practices, we’re closer to being able to put the standards as well as Open Source components in production. The new production platform Statistics Norway is creating as part of its modernization will benefit from this effort.

## GSIM

Statistics Norway have actively participated in developing GSIM and is now implementing GSIM in a new production wide distributed datastore (Linked Data Store). CSPA LIM, which is the CSPA Logical Information model, is being moved to GSIM. Making it easier to bind the conceptual part of CSPA tighter to a logical level, and thus makes it easier to bind it to a physical level. Through the work done on the Linked Data Store, the way of easing this binding is to use an intermediate specification RAML (RESTful API Modeling Language) which is a platform neutral way of describing RESTful API’s. This includes specifying a JSON-schema which in turn is used as a basis for the schema for the Linked Data Store.

**1.3 GSPBM**

GSBPM presuppose input and output to be GSIM artefacts. This requires an effort to create an ubiquous, abstract data store that follows GSIM, and can bind the different GSBPM processes.

**1.4 CSPA**

Statistics Norway is actively participating in developing the next version of CSPA. Most new projects under the Modernisation Programme uses the new CSPA principles when building new systems. This includes the concept of adapters, where one creates abstraction between the core logic of a service and the underlying technology. The use of Open Source for creating Open Source components that are fuelled by the ModernStats standard, can be the basis for more collaboration between Statistical Organizations.