

INCIPIT (192-001)

INCIPIT - Infrastructure Nationale d'un Complément d'Identifiants Pérennes, Interopérables et Traçables

The INCIPIT project will develop a complementary infrastructure for the low-cost attribution of persistent identifiers (PIDs) with high granularity based on the Archival Resource Key (ARK) identifier. This incremental approach will allow data curation for all scientific domains comprising short as well as long tail data sets at an early stage, i.e. during active research and thus long before the transfer to a long-term archive and even before transmission into an open or closed repository.

To assure functionality as well as sustainability, INCIPIT is designed to be based on a combination of the EZID software packages provided by the California Digital Library and INVENIO, a well-established open source software framework for digital repositories that have both proven their robustness and applicability in scalable contexts.

The service to be delivered after the funding period (of one year) is to be seen as being only the first step towards the creation of trusted identities for Swiss researchers and their data sets. Trusted identities are created by linking data and their PIDs (such as ARK) with scientists' personal identifiers (such as ORCID) and those for publications (such as Digital Object Identifiers – DOIs) as well as those for organizations (such as GRID) and the contexts in which they are or were actively used (such as the cool URIs used in Linked Data). Data becomes thus traceable, i.e. identifiable with certainty, and reusable in an interoperable environment. The service to be created can thus be considered as a coordinating hub for all PIDs attributed in Switzerland.

After the end of the project, a service of ARK-attribution open for the whole Swiss scientific community will be hosted by and at the Haute Ecole de Gestion with the intention to create a consortium for PIDs within Switzerland. According to a general trend, PID-attribution as a concerted activity of several stakeholders united in a consortium is considered the 'camino real'. The fusion of a large-scale attribution service and the congregation of interconnected PIDs as proposed in this project will thus be a major step towards the creation of disambiguated identities for data, scientists and publications within the Swiss Open Science landscape.