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## Invenio at TIND

TIND was started in 2013 as an official CERN spin-off providing Invenio as a service, now serving customers such as UC Berkeley, Caltech, Columbia and the United Nations. Over the past years, TIND has heavily developed on the Invenio framework, including the implementation of many new technologies and standards (e.g. Elasticsearch, IIF) as well as developing small and large modules completely from scratch. Based on these developments, the Invenio framework has been packaged into four different 'products' or 'applications' offered by TIND. These packages offer streamlined functionalities presented in a nice user interface on top of the flexible Invenio digital library framework:

**TIND Institutional Repository:** using many of the basic Invenio modules, enhanced with many improvements to the WebSubmit module (approval workflow, authority lookup).

**TIND Integrated Library System:** based on the BibCirculation module, enhanced with several new modules such as modules for Acquisitions, Serials Management, Loan Rules.

**TIND Digital Archive:** heavily based around IIF and image streaming in combination with traditional Invenio curation modules.

**TIND Research Data Management:** based on the Invenio 3 framework, enhanced with a self-developed submission workflow, file management and DOI minting.

This presentation will explain how TIND has worked with and developed on the Invenio framework. We will highlight and demonstrate some of the technologies and modules that TIND has developed over the past years, as well as demonstrate selected customer implementations. Furthermore, we will also give insights into building an infrastructure for deploying and maintaining Invenio as a service for +30 customers (using tools and services such as AWS, docker, Sentry, Grafana).

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