

## EMIF Deliverable 5.1: Establishing functional data warehousing and management

**Executive summary** 

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The task is to establish functional data warehousing and management for 'omics data. The tranSMART data repository combines a data mart with access to federated sources of open and commercial databases. tranSMART provides a demonstrated schema and loading utilities for a variety of data types:

- Phenotypic data, such as demographics, clinical observations, clinical trial outcomes, and adverse events
- High content biomarker data, such as gene expression, genotyping, pharmacokinetic and pharmaco-dynamics markers, metabolomics data, and proteomics data
- **Unstructured text-data**, such as published journal articles, conference abstracts and proceedings, and internal studies and white papers
- **Reference data** from sources such as Medical Subject Headings (MeSH), Unified Medical Language System (UMLS), etc.
- Metadata providing context about datasets, allowing users to assess the relevance of results delivered by tranSMART.

On the short term, to meet the timelines, a drop-box solution will be used as a temporary solution while the tranSMART solution is further developed. A drop-box solution will allow the team to store and exchange files with an access and security procedure defining roles and related privileges.

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