e-Infrastructures for Digital Data Preservation

Data from Research Processes

Raw Data

Inconclusive Results

Negative Results

Results of Processed Data

Shared Data

Pub. Data

OA
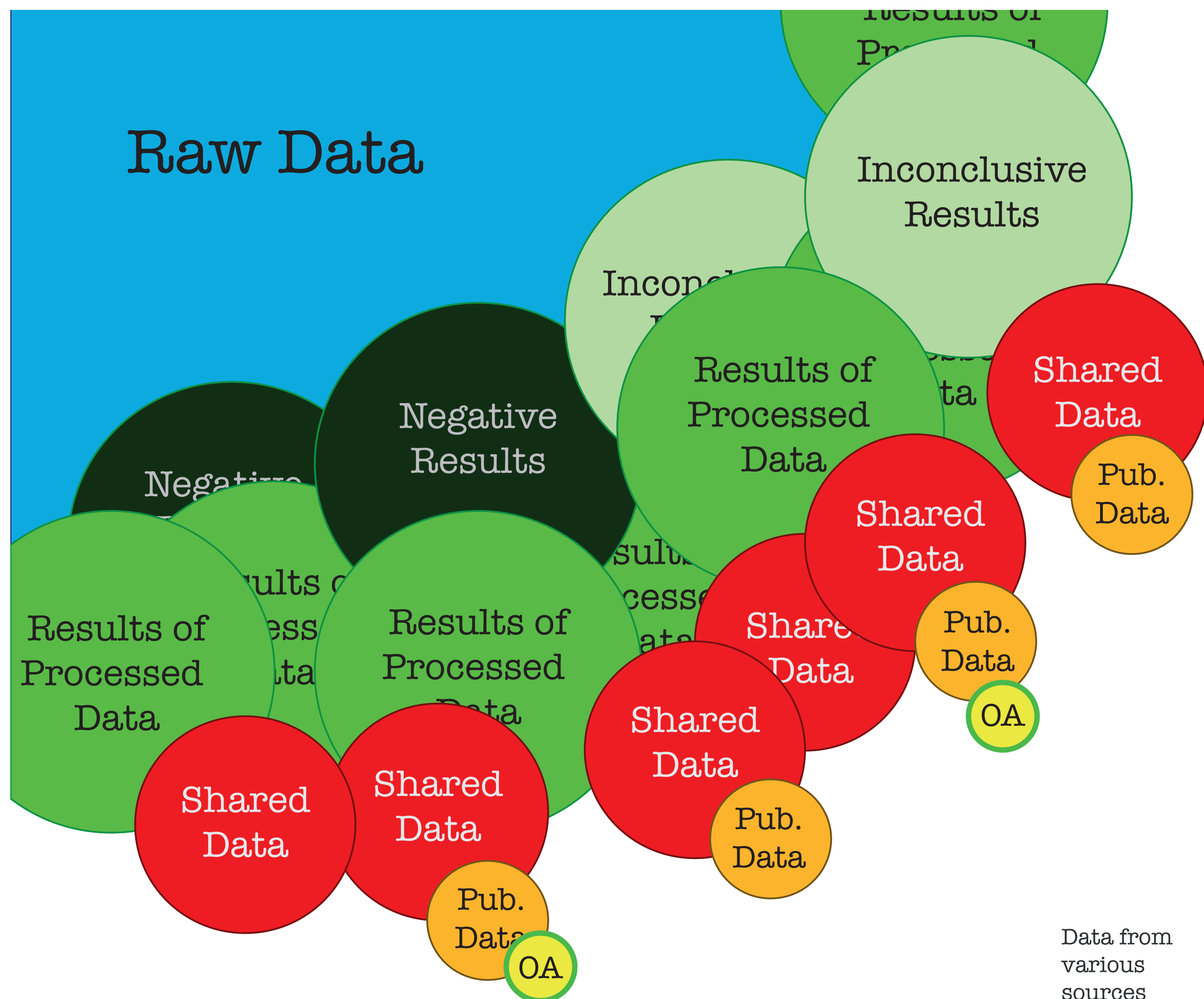
Levels and Layers of Data

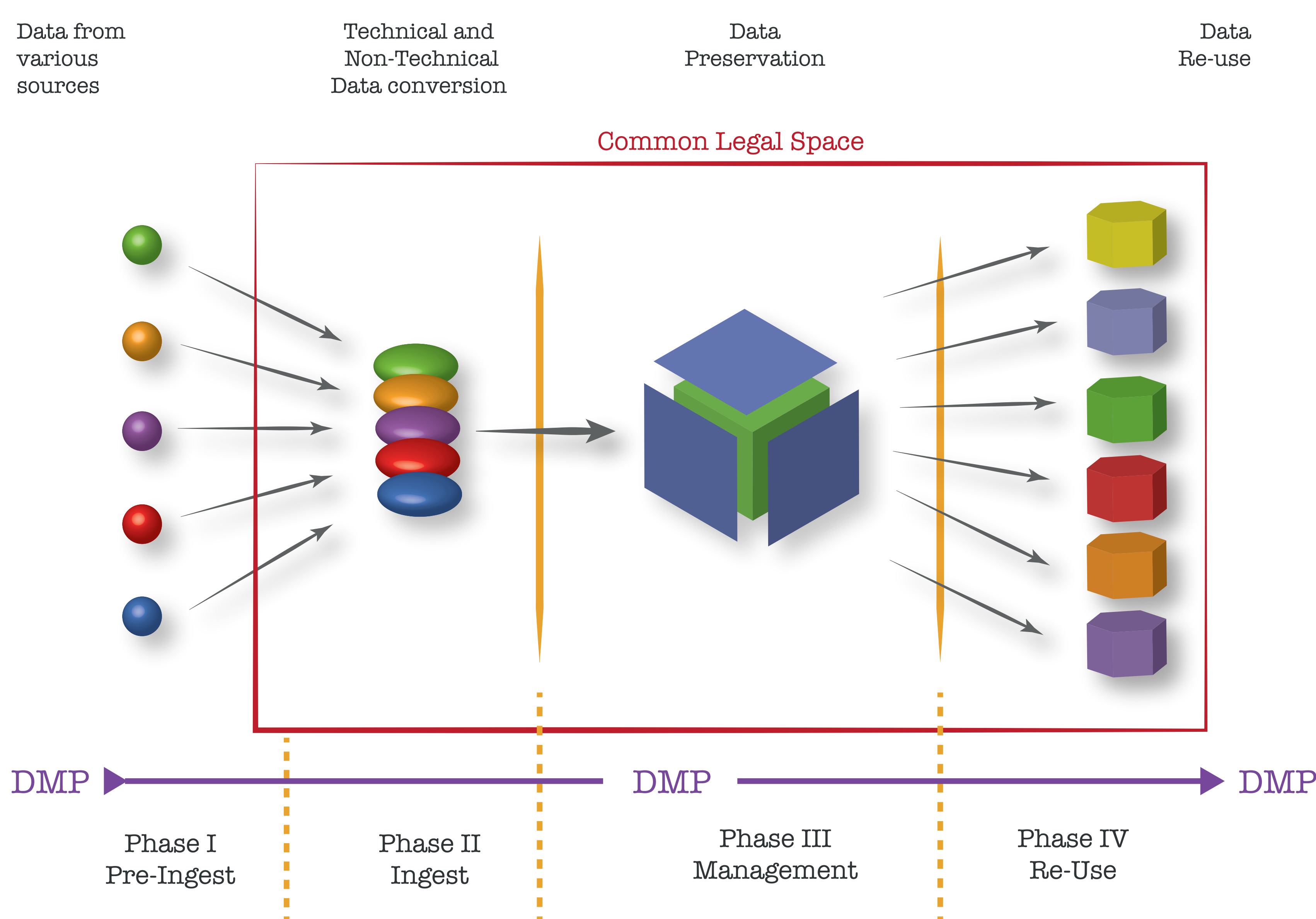**Raw Data:** Primary data derived from the reseach processes

Processed Data: Data derived from analytical processes. These processes could provide results, including negative or inconclusive results.

Shared Data: Data that will be shared with others.

Published Data: Publications

Open Access Published Data: Publications under any Open Access modality.

Phases of the Data Preservation Process

Pre-Ingest: In this step, the reponsibilty lies on the Content Creator. In this phase will be determined which data is to be archived, their quality, and under what user licence will be granted their re-use.

Ingest: In this step, the Repository Manager takes over the reponsibility. To be able to archive the data, a data conversion process needs to take place first. The conversion process should not affect the quality of the data.

Management: Ensures security and access to the data, in the quality required for their re-usability.

Re-Use: Delivery to external applications specialized on reusing the data provided. The data can be used in e-Learning systems, Presentations, or any other additional research processes. Here the responsibility goes to the Content Provider of the external applications.
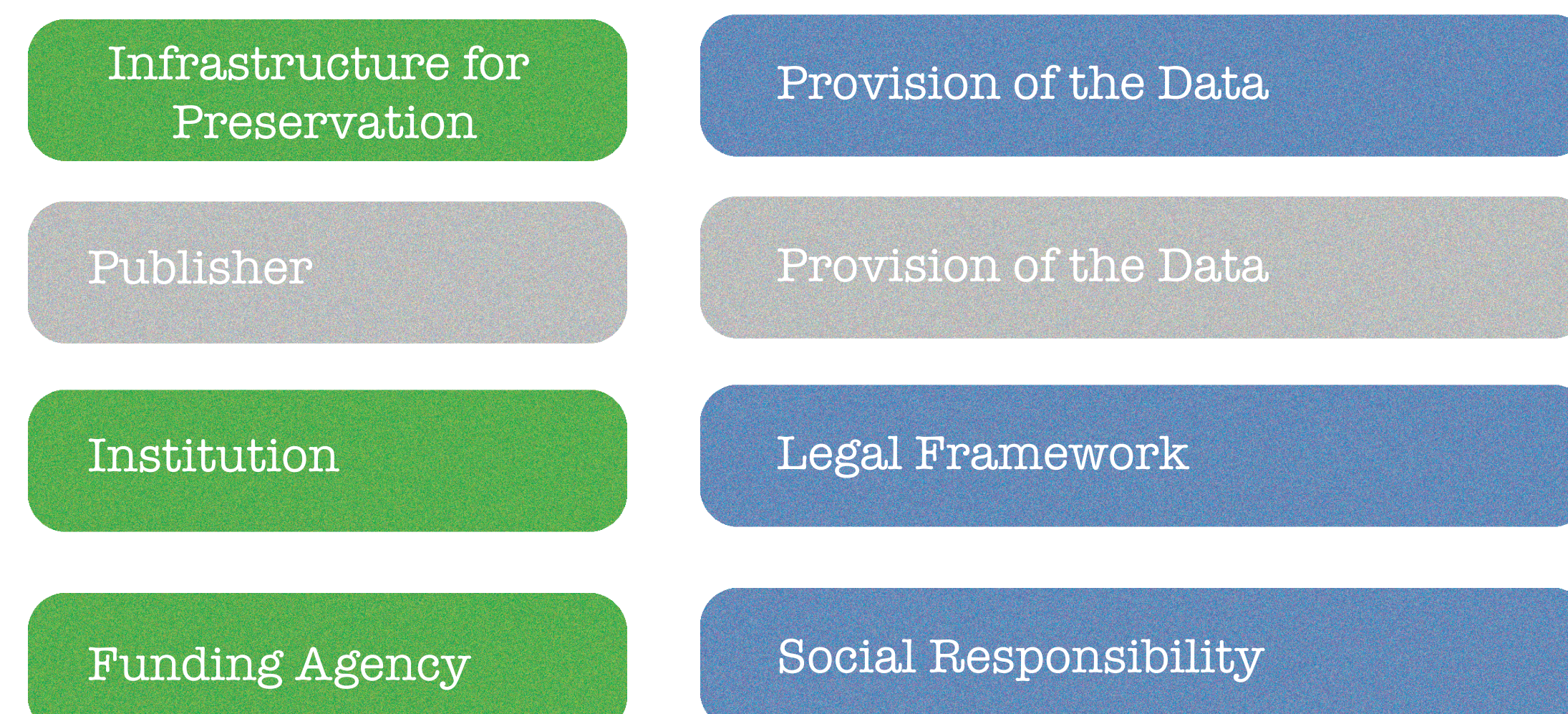
Workflow Model for the Preservation Processes in e-Infrastructures

| Data from various sources | Technical and Non-Technical Data conversion | Data Preservation | Data Re-use |

Common Legal Space

DMP ▶ DMP ⟶ DMP

| Phase I Pre-Ingest | Phase II Ingest | Phase III Management | Phase IV Re-Use |

Aspects for Data Preservation

Long-Term Preservation	Archives for Databases	Big Data Archives
Publication Repository	Software Repository	Short-Term Preservation
Open Access Repository	High Security Archives	...

Role Model for DMP for e-Infrastructures

Roles	Responsibility
Infrastructure for Preservation	Provision of the Data
Publisher	Provision of the Data
Institution	Legal Framework
Funding Agency	Social Responsibility

Standardized Data Management Plans

Data Management Plans Project Specific

| Data Producer | Quality of the Data |