A **FAIR Digital Object** is a representation of research data and other digital assets that contains all information required for FAIRness. The IG aims at providing a communication and discussion platform for experts as well as novices exchanging experiences about the implementation and application of FAIR Digital Objects.

**Achievements**
- Collection of project shares (reports from groups implementing FDOs)
- “FAIR DOs for pedestrians”: Collection of elevator pitches and introduction materials (in progress)

**What’s next?**
- Extension of the collections
How FAIR DOs Enable Interoperability

IG FAIR Digital Object Fabric
(Rainer Stotzka)

P20
20 March 2023
FAIR Digital Object Concept

**Overarching Representation** of research data and other digital assets that contains all information required for FAIRness

- Data content
- Referenced and identified by a persistent ID
- Has properties described by metadata, e.g. type
FAIR Digital Object: Example Implementation

The representation contains at minimum an **Identifier** and an **Information Record** with the following properties:

- Identifier: *unambiguously assigned*, e.g. a PID
- Information Record: well and *unambiguously defined structure* containing a *minimum of information* entries or links pointing to the information:
  - identifier,
  - definition of the structure of the information record, e.g. profile,
  - type of the data,
  - link to the data, e.g. a PURL

**PID Information Record**

<table>
<thead>
<tr>
<th>PID</th>
<th>PID Profile</th>
<th>Type</th>
<th>Location URL</th>
<th>...</th>
</tr>
</thead>
</table>
FAIR Digital Objects

**Overarching Representation** of research data and other digital assets that contains all information required for FAIRness

- Data content
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<table>
<thead>
<tr>
<th>Concept</th>
<th>Technical Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• General, simple, bridges borders</td>
<td>• Technology</td>
</tr>
<tr>
<td>• Slow, based on consensus</td>
<td>• Manyfold</td>
</tr>
<tr>
<td>• Long-lasting &amp; sustainable</td>
<td>• Quick</td>
</tr>
<tr>
<td>• Technology agnostic</td>
<td>• Dynamic, evolves over time</td>
</tr>
<tr>
<td>• <strong>Interoperable</strong> and harmonized</td>
<td>• Realistic</td>
</tr>
<tr>
<td></td>
<td>• Complex</td>
</tr>
</tbody>
</table>