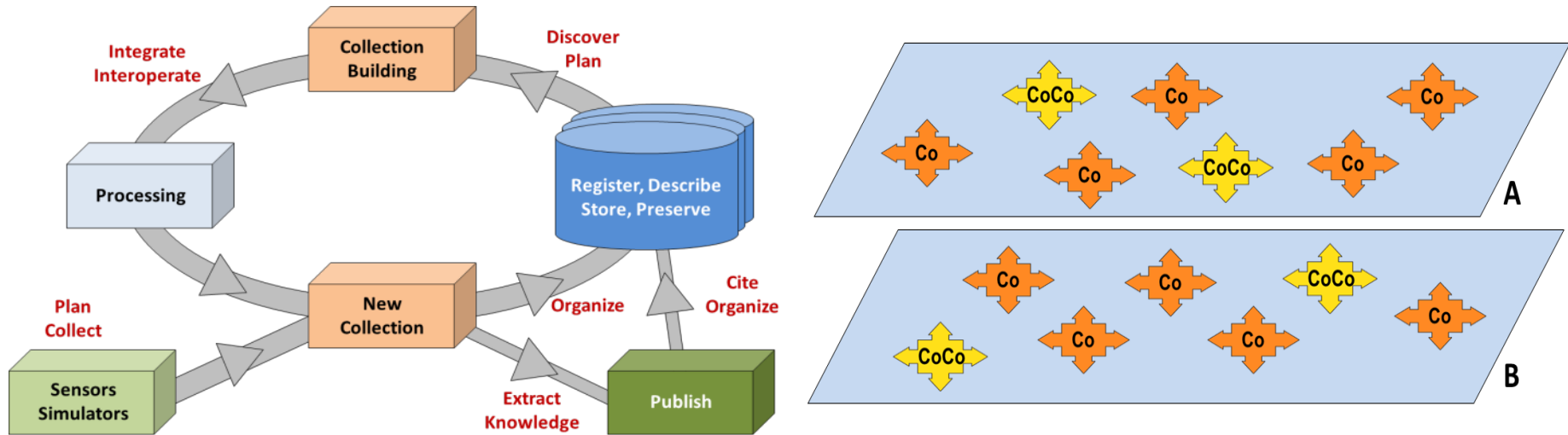# RDA Data Fabric Configurations - Thoughts about PID Centric DMA: Towards a global Virtualisation Layer

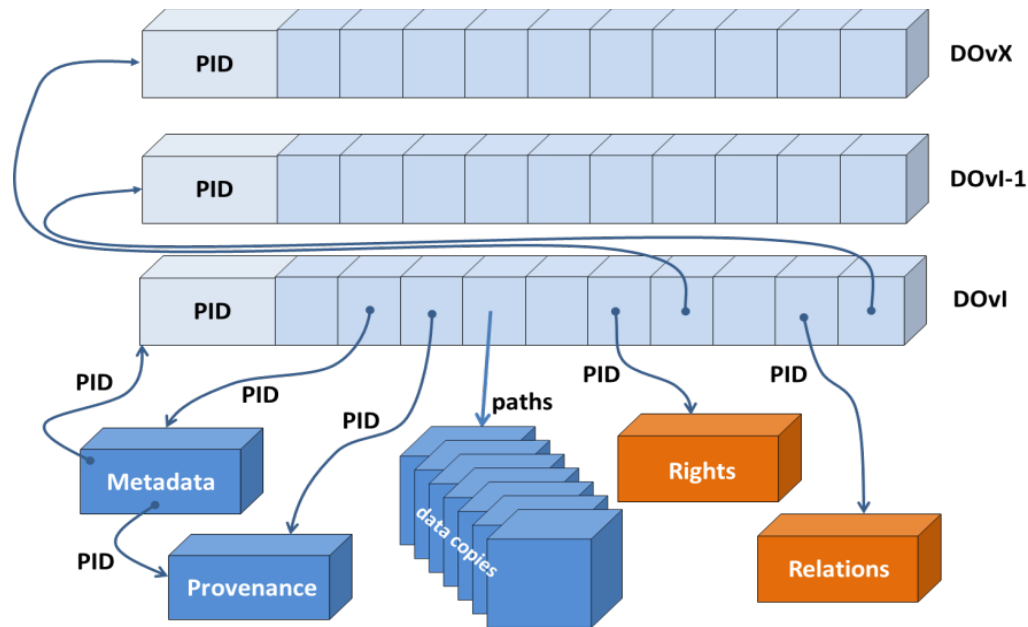Tobias, Michael, Peter, Larry, Dieter, Beth, etc.

DF Configurations

- from WG/IG outputs to Core Components
  - testing them intensively & adopting
  - testing them in combination -> test beds
- combinations interpreted as specific DF configurations

- in Tokyo some got together
  - let's work on a specific configuration
  - PID Centric Data Management and Access (PID CDMA)
  - **it's not an RDA group, but it will use RDA results**

Story behind PID CDMA

- idea behind PID CDMA is to use PID record to bind various information
- PID systems need to be persistent and performant anyhow
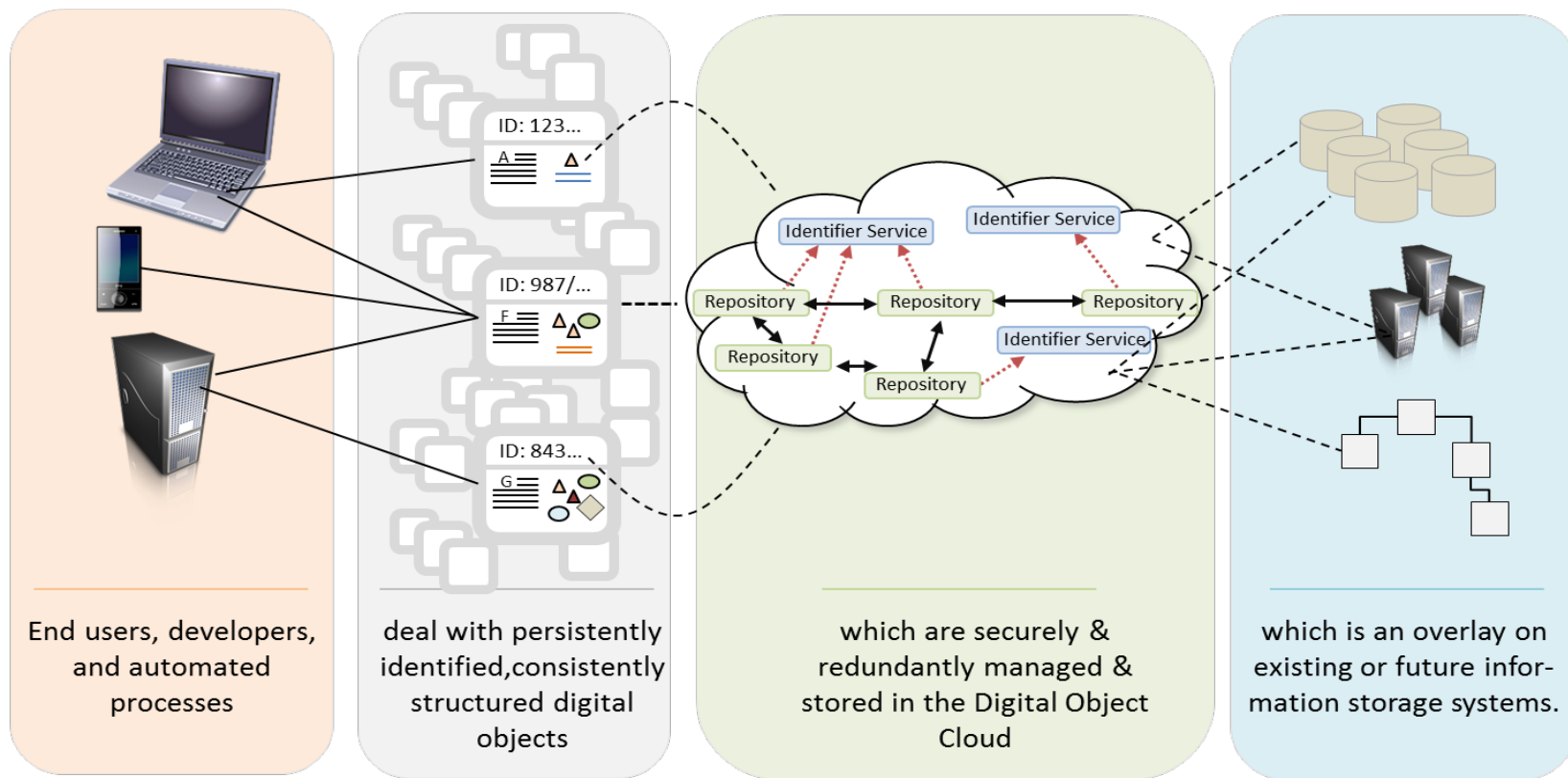- but then one needs to associate "types" with information in the PID record

- **certainly other configurations one can think of**
- **colleagues should start defining configurations**

2 complementary tracks in PID CDMA

1. work out a model for minimal information types associated with PIDs that works with the reference software of the Persistent Identifier Types and Data Type Registry RDA recommendations and do a concrete implementation in collaboration with interested communities (Beth)

2. work out more details of the proposed configuration and possible future directions (Peter etc.)

-> Beth

Global Digital Object Cloud

End users, developers, and automated processes

deal with persistently identified, consistently structured digital objects

which are securely & redundantly managed & stored in the Digital Object Cloud

which is an overlay on existing or future information storage systems.

- users & applications are just dealing with representations of DOs (PID records, MD records)
- they are based on persistent and robust services and repositories
- these are implemented with some technology

urgent PID-CDMA Components

what is needed if …

- PID Initiation component
- DO Management component (move, copy, delete)
- remote change component
- rights DB component
- collection builder
- consistency check component
- DOI creation component
- metadata extraction & extension components
- layered services
- PID system certification
- workflow initiation component

PID-CDMA Partners

- track 1
    - Materials science Initiative
    - Deep Carbon Initiative
    - climate modeling and GWDG

- track 2
    - climate modeling
    - linguistic community

- obviously this is about building infrastructure test-beds
- funds will be requested for this -> EC proposal etc.

- need further interested communities