



# WG PID Information Types

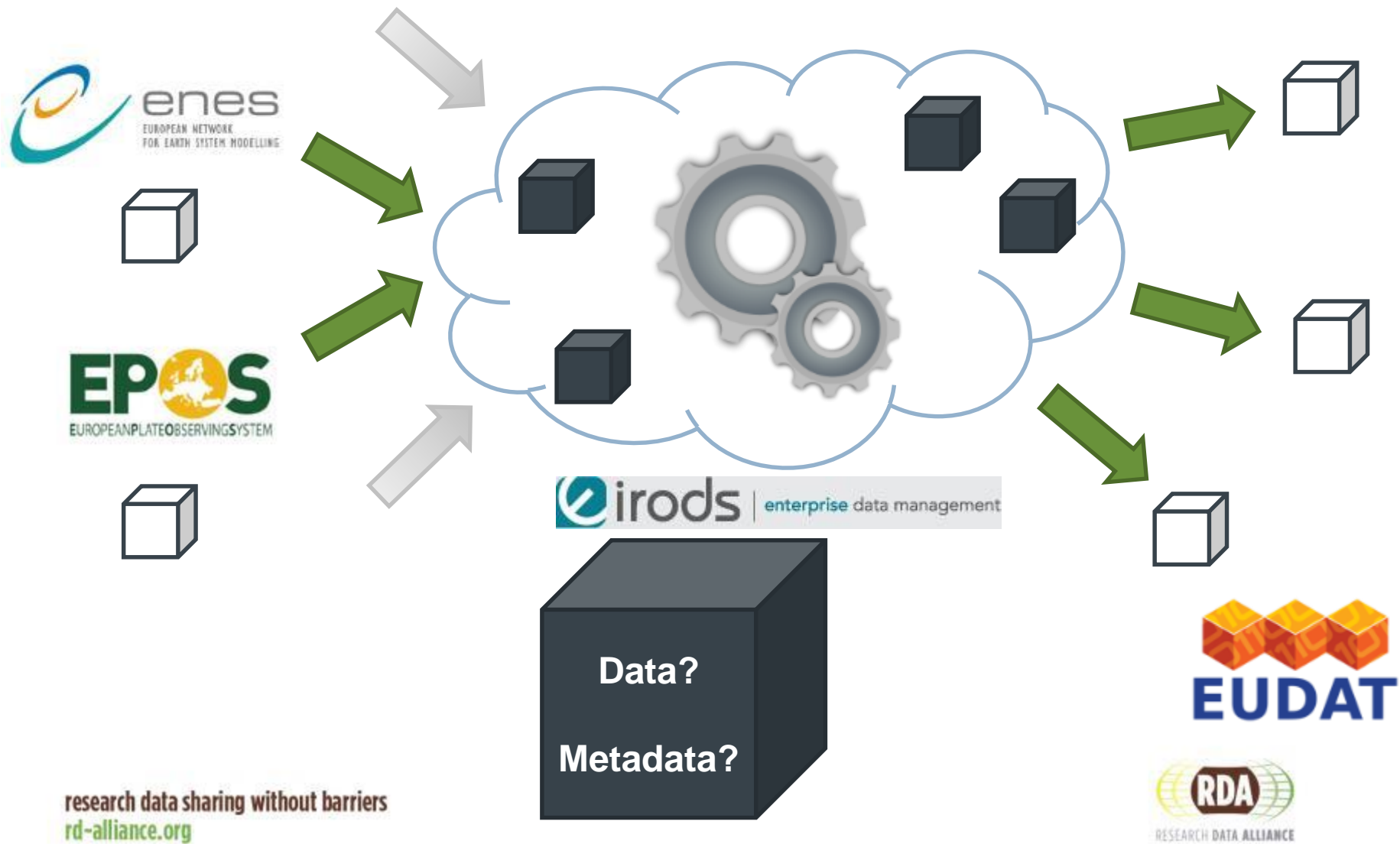
RDA Deutschland, 20 Nov 2014

Tobias Weigel (DKRZ / Universität Hamburg)  
Tim DiLauro (Data Conservancy / Johns Hopkins University)

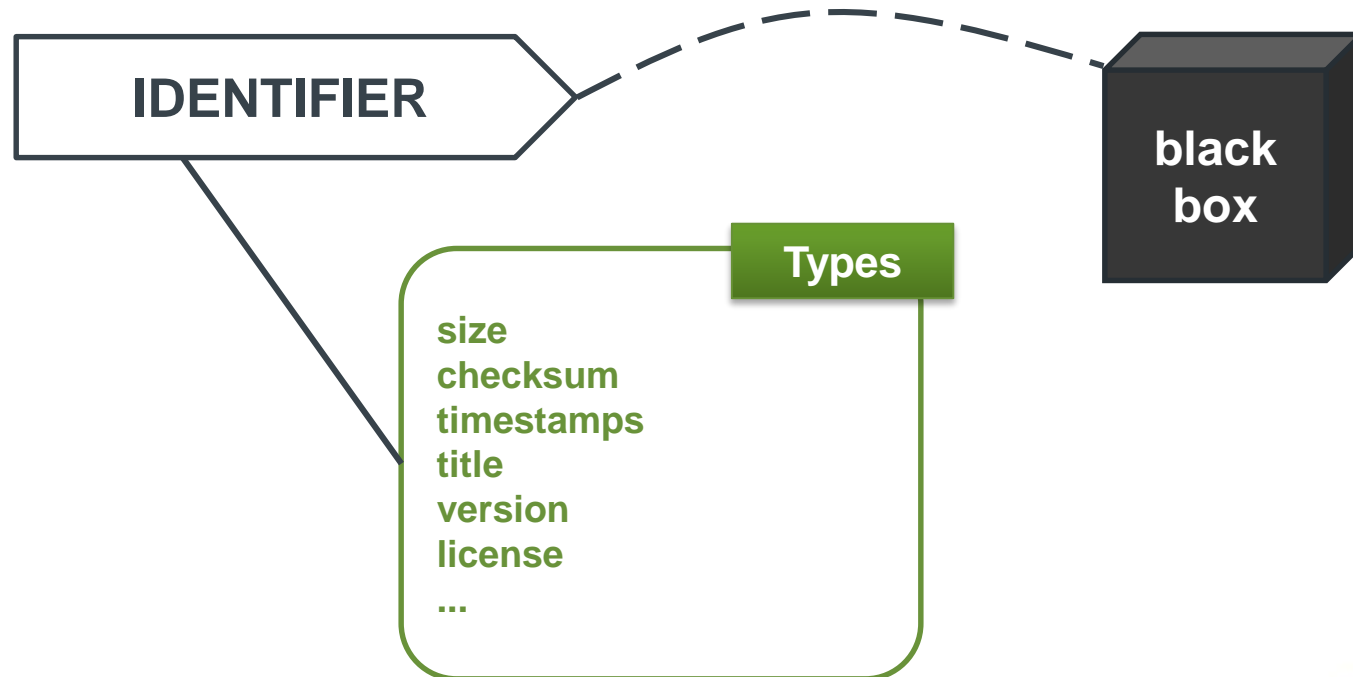
research data sharing without barriers  
[rd-alliance.org](http://rd-alliance.org)

- 18 months, RDA P1 to P4
- co-chairs: Tim DiLauro (JHU); Tobias Weigel (DKRZ)
- Goal: Harmonization of basic information types associated with PIDs across disciplines and infrastructures
- Approach: Design an API and type examples to target practical usage
- Strong interaction with Data Type Registries WG

# Example scenario



# What are PID Information Types?



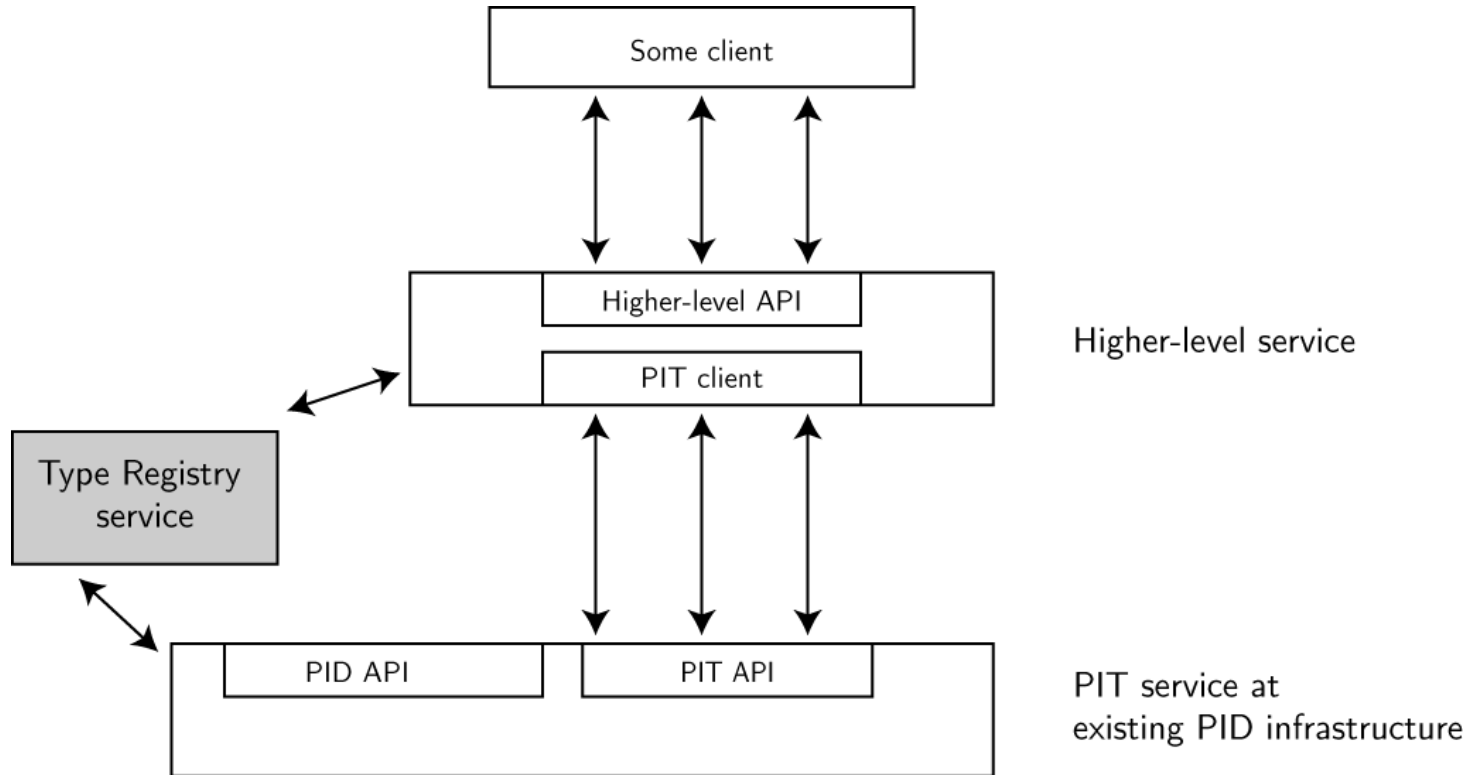
Higher level APIs and services

PID Info Types API

PID system

PID system

PID system



- Some essential core type examples to illustrate generic use cases
- Prototypical API implementation and exemplary client
- RESTful protocol specification



<http://smw-rda.esc.rzg.mpg.de/PitApiGui/>  
Client prototype implemented by Tom Zastrow (RZG)

- RDA Recommendation with three parts
  - Final report document
  - Prototypical implementation (source code)
  - API specification and prototype documentation
- Licensed under CC0 / BSD





- Types depend on use cases and semantics differ between disciplines
- There is no single set of types fitting all cases
- Community processes must define types from practical adoption

- Motivate adoption and further implementations in grassroots scientific communities
- Further testing and adoption of the Type Registry
- Come to a consolidated set of core types in a bottom-up process

- Example at DKRZ:  
Implementing PIT concepts for versioning within the Earth System Grid Federation for CMIP6 / IPCC AR6



- Increase in number of data objects exceeds capabilities of manual curation
- Continuously automated process, bundle information through PIDs
- Use PIDs for dissemination, publication and archiving
- Symbiotic benefits from using same interfaces
- Additional user value
  - References for preliminary data
  - Traceability and accountability of data – provenance and versioning



- Pragmatism: Concrete outcome is a crucial success factor
- Less discussions as WG progresses
- Keep It Simple & Stupid
- Local take-up!

Vielen Dank für Ihre Aufmerksamkeit.

