

Refined recommendations	Acting stakeholder	Beneficiary
Lower access barriers for participation to interoperable global PID e-Infrastructures e.g. through providing national licenses or other appropriate agreements.	e-Infrastructure providers	e-Infrastructure providers, research communities
Broaden the scope of PID solutions to address needs of the "long tail" (less data-intensive) sciences such as the humanities and support their participation to existing interoperable PID frameworks.	e-Infrastructure providers	research communities
Facilitate interoperability between community- and/or institution-specific or national PID solutions through global open solutions.	e-Infrastructure providers	e-Infrastructure providers, funders, researchers
Provide (seed) funding to ease local access, integration and participation to emerging PID infrastructures.	funders	e-Infrastructure providers
Provide documentation for implementations and technical specifications of PID infrastructures that supports development of third-party tools for discoverability, impact assessment, and other value added services.	e-Infrastructure providers	e-Infrastructure providers, funders, researchers
Design policies to encourage data sharing and re-use, making data a key indicator in research assessment and encourage scientific communities to support them by providing guidelines for practical implementations.	funders	researchers

Refined recommendations	Acting stakeholder	Beneficiary
The emerging global PID community needs to continue in ODIN's footsteps and develop cross-platform services, and collaborate with more stakeholders, in particular publishers and discipline-specific datacentres.	e-Infrastructure providers	Research communities, funders, publishers, e-Infrastructure providers
Provide training for researchers to raise awareness about incentive systems and good practices for data citation.	e-Infrastructure providers, publishers	researchers, funders
Concrete steps are needed to ensure the sustainability of services and tools being developed to integrate PID systems, through expansion of use by external parties and activities to foster adoption and consequently refine business models.	e-Infrastructure providers, publishers	all stakeholders
Establish a participative framework with PIDs for contributors and extend the framework and include more PIDs, e.g. for institutions.	e-Infrastructure providers	researchers, funders, scientific communities