

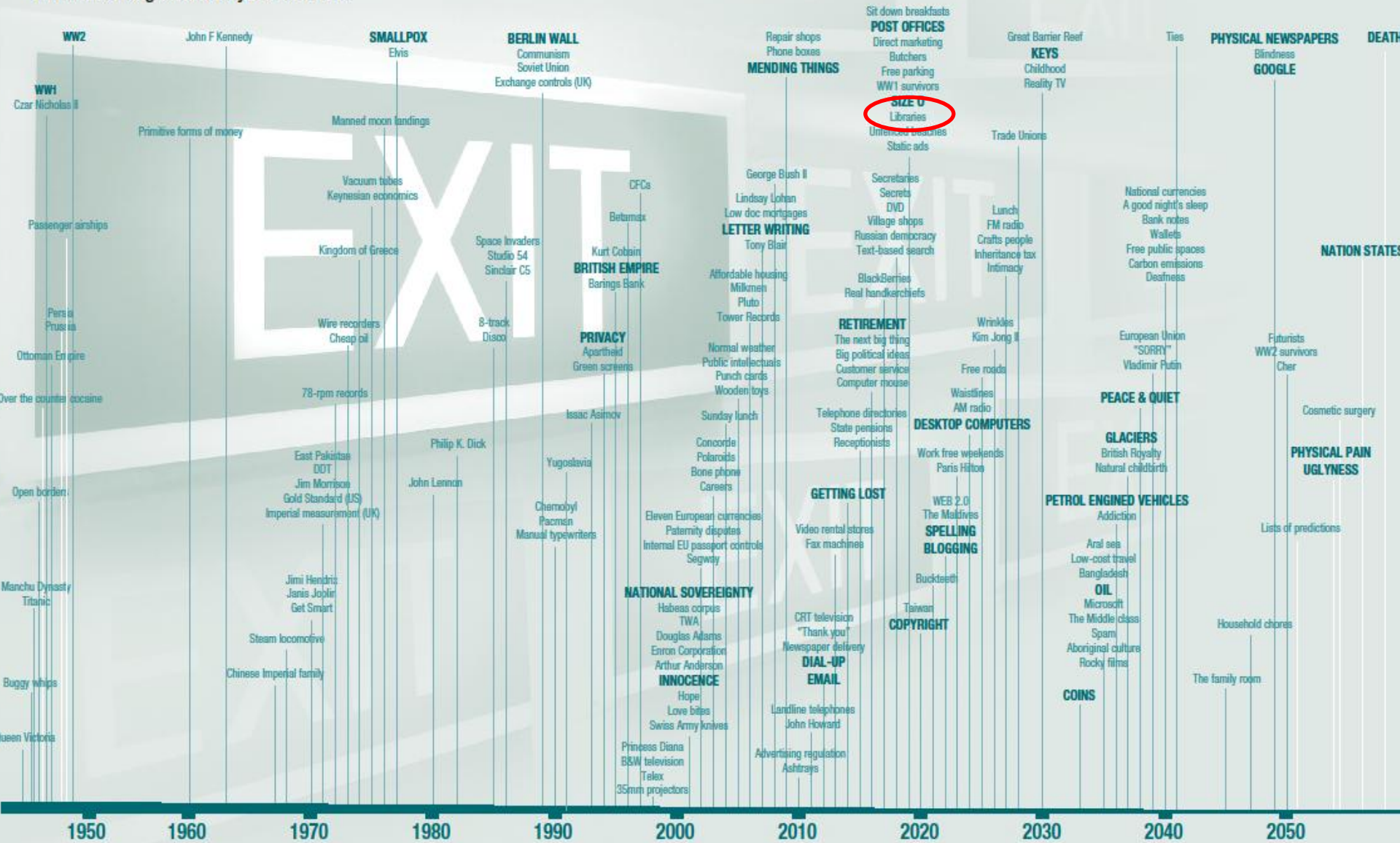
Digital Curation
Roadmaps:
a Policy Instrument in
the Making

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Why roadmaps?

Extinction timeline* 1950-2050

* Existence insignificant beyond this date



Roadmap as a self-organisation tool



digitalpreservationEurope



Open research challenges
and research roadmap for

SCAPE

Project no. 034762

Digital Preservation Europe (DPE)

Type: Coordination Action

Priority: IST-2005-2.5.10

Area: Information of cultural and scientific resources

Issues in Digital Preservation: Towards a New Research Agenda

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DPE Research Roadmap (2007)

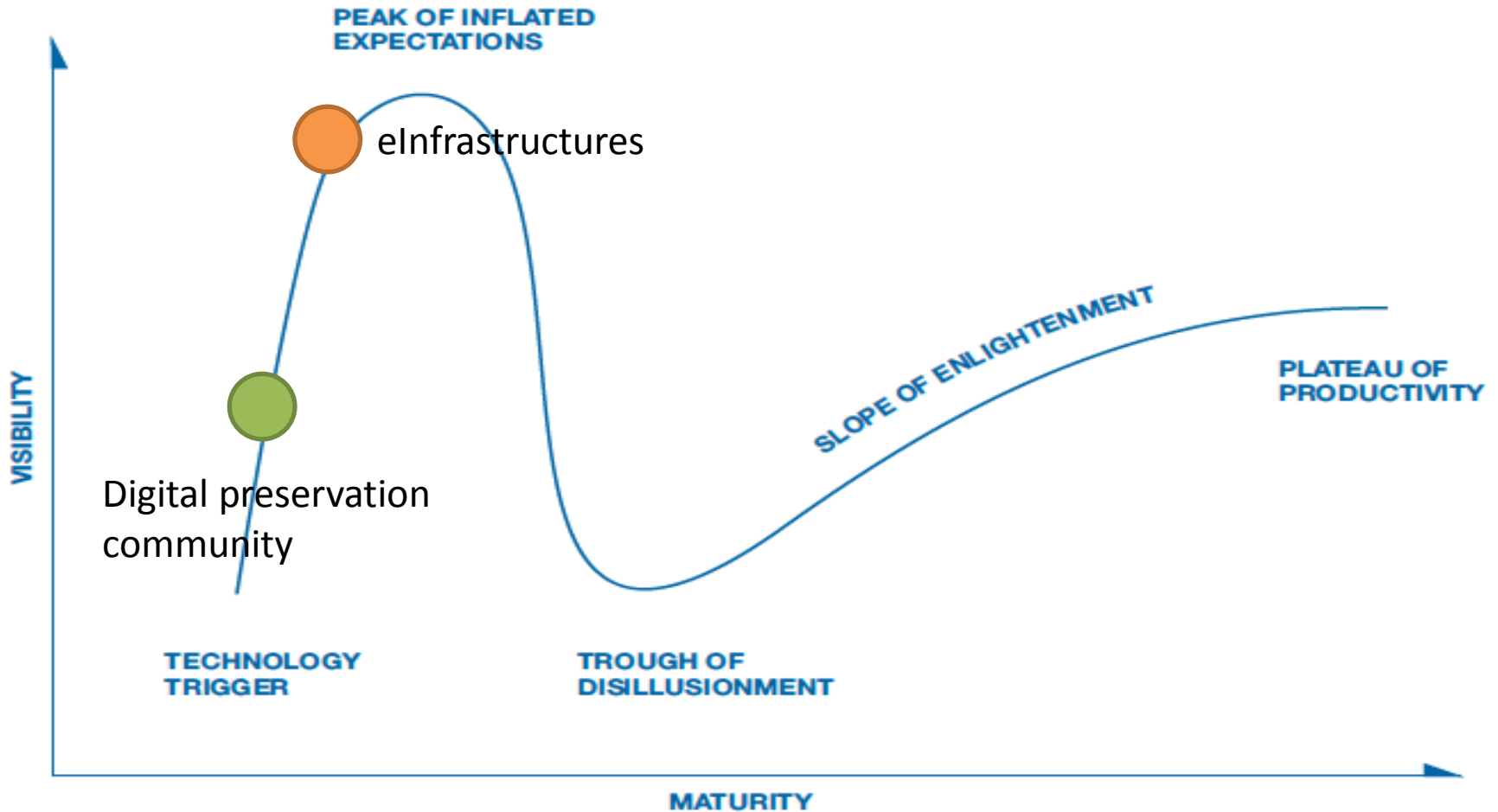
	UEI	PDI	DPNU	SoDP	IAT	I2S	eScienc e	Cyber	DigiCul t	Erpane t	Warwic k	DRR
	1991	1996	1998	2002	2003	2003	2003	2003	2004	2001- 2004	2005	2006
Digital Object Level												
Migration		+		+	++	+						
Emulation				++	+						+	
Experimentat ion		+				+						
Registries and repositories					+++	++++				+	++	
Complex Objects	+			+	++	+		+	++	++	++	
Significant properties			+	+	++	+	+					
Authenticity				++	+++++					+	+	
Acceptable loss					+			+				



WHAT DOES YOUR
ROADMAP
LOOK LIKE?

photography by
LESLEY STEFANSKI

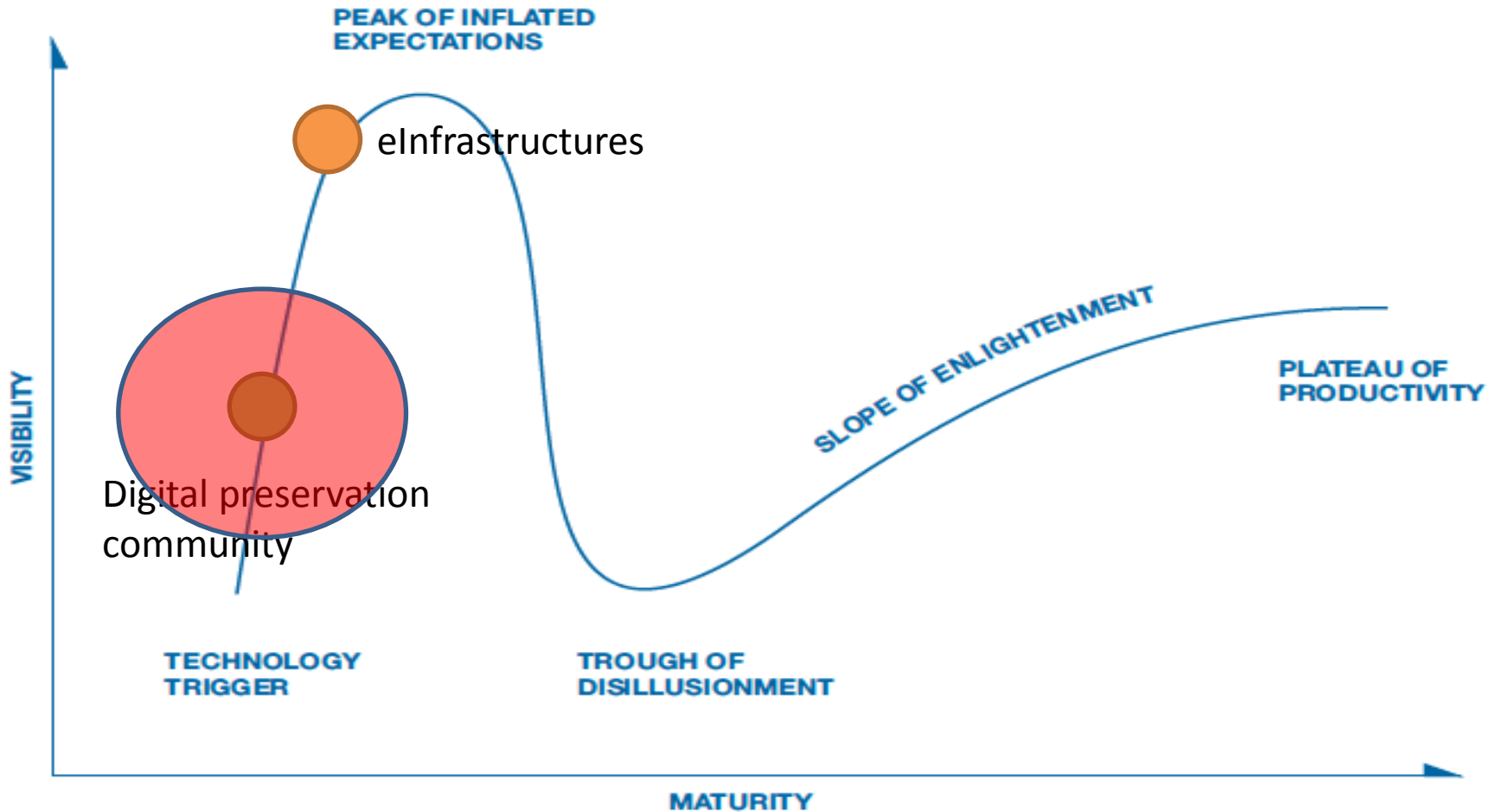
Where are we now?



Based on: Gartner Hype Cycle

What should roadmaps help us to do?

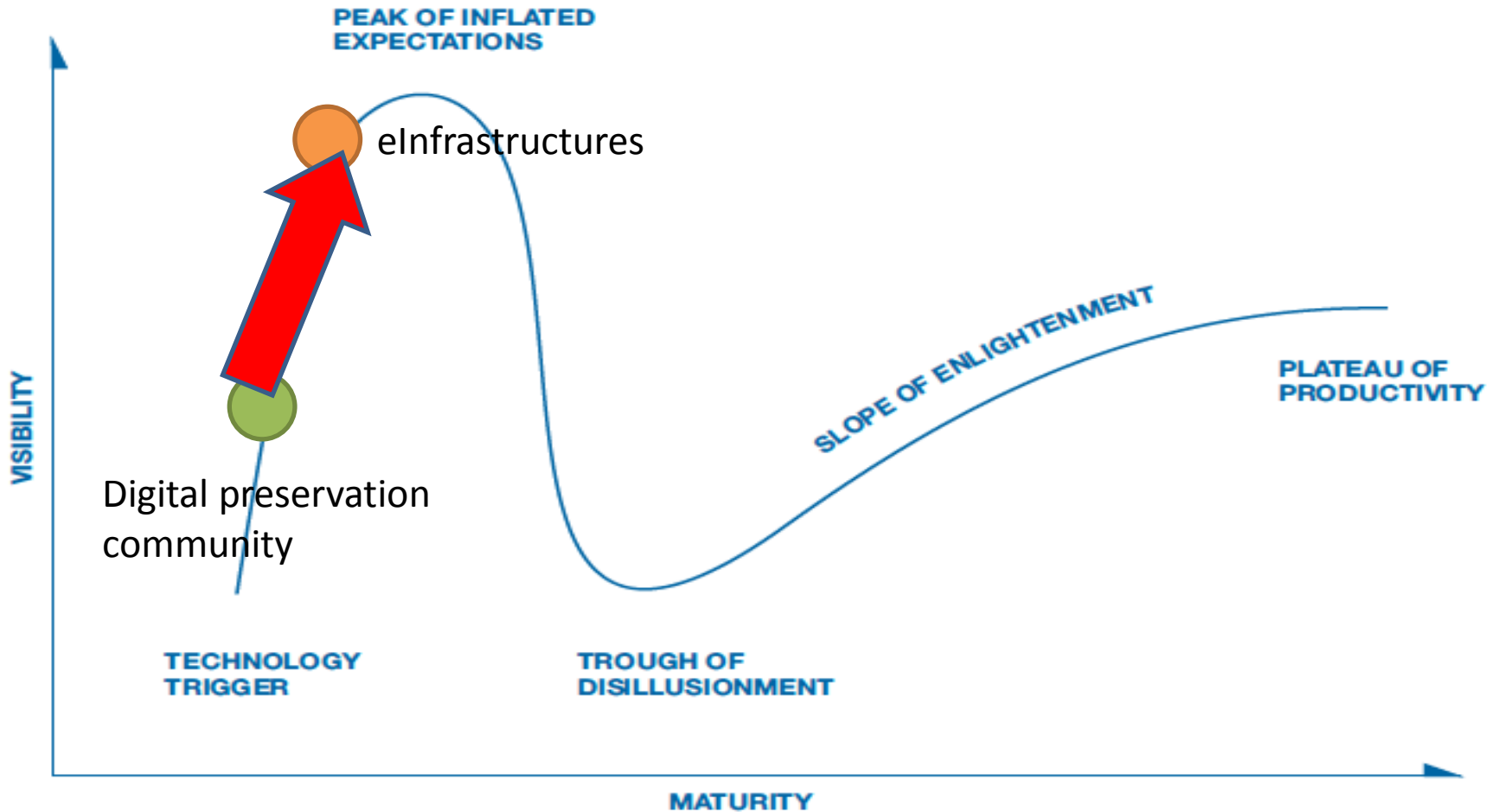
The digital preservation perspective



Based on: Gartner Hype Cycle

What should roadmaps help us to do?

The eInfrastructures perspective



Based on: Gartner Hype Cycle

Roadmap – crossing the community
boundary

DCH RP 2012

	Harmonisation of data storage and preservation	Progress for inter-organisational communication	Establishment of conditions for cross-sector integration	Governance models for infrastructure integration
Short term (2014)	<p>Test existing technical solutions in DCH environment</p> <ul style="list-style-type: none"> Define an initial set of critical system requirements Analyse the needs and conditions for infrastructure federation – e.g. NGLs, NRENs, EGI, EUDAT, CLARIN, DARIAH, DASISH, PLATON and commercial infrastructures Summarise ongoing experience with grids and cloud solutions applied in cultural institutions Identify examples of use of PaaS – and promote the benefits offered by virtualisation 	<p>Identify and promote best practices</p> <p>Analyse interoperability issues including the following aspects:</p> <ul style="list-style-type: none"> Technical Semantic Organisational and inter-community Legal Political/human Cross-border 	<p>Analyse what impact do emerging and established standards have on grid and cloud preservation architectures</p> <p>Establish and update a registry of preservation tools and services</p> <p>Analyse which PAAS composition of services best matches digital preservation requirements</p> <p>Identify gaps in provision and establish a plan for medium- and long-term developments to address the gaps</p>	<p>Analyse major information governance patterns and windows of opportunities</p> <p>Explore the issues of trust-building through pilot systems</p> <p>Suggest possible business models for typical scenarios</p>
Medium term (2016)	<p>Test technical solutions in DCH environment</p> <ul style="list-style-type: none"> Long-term storage, bit-level preservation Multiple entry points Operational benefits VRE development Support framework Middleware services Authentication and authorisation infrastructure <p>Sharing of other services</p>	<p>Develop and test tools facilitating interoperability addressing the following aspects:</p> <ul style="list-style-type: none"> Technical Semantic 	<p>Fill in gaps in provision [plan for medium-term work needs to be made in the end of the short-term stage]</p>	<p>Analyse needs for redesign of existing local (institutional) infrastructures</p> <p>Define a set of governance principles for digital preservation in DCH</p>
Long term (2018 and beyond)	<p>Consolidate mature requirements for preservation in the DCH environment</p>	<p>Implement tools in selected infrastructures facilitating interoperability aspects:</p> <ul style="list-style-type: none"> Technical Semantic 	<p>Fill in gaps in provision [plan for long-term work needs to be made in the end of the short-term stage]</p>	<p>Offer mature business model for preservation services for different types of institutional settings</p>