

Management of Virtual Organizations in the D-Grid

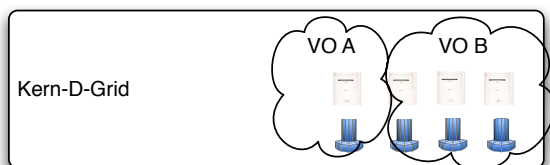
The Why, What, and How

M N M

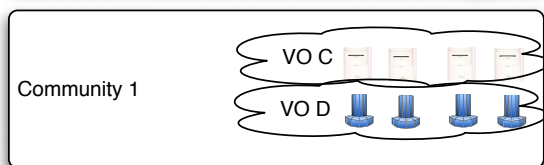
TEAM

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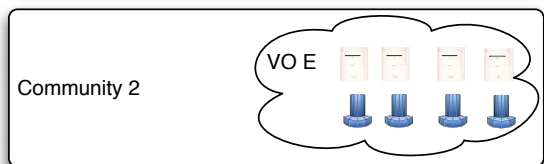
The Why



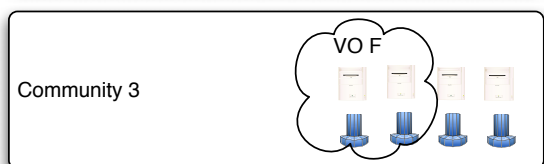
e.g. KernGrid



e.g. HEPGrid



e.g. AstroGrid

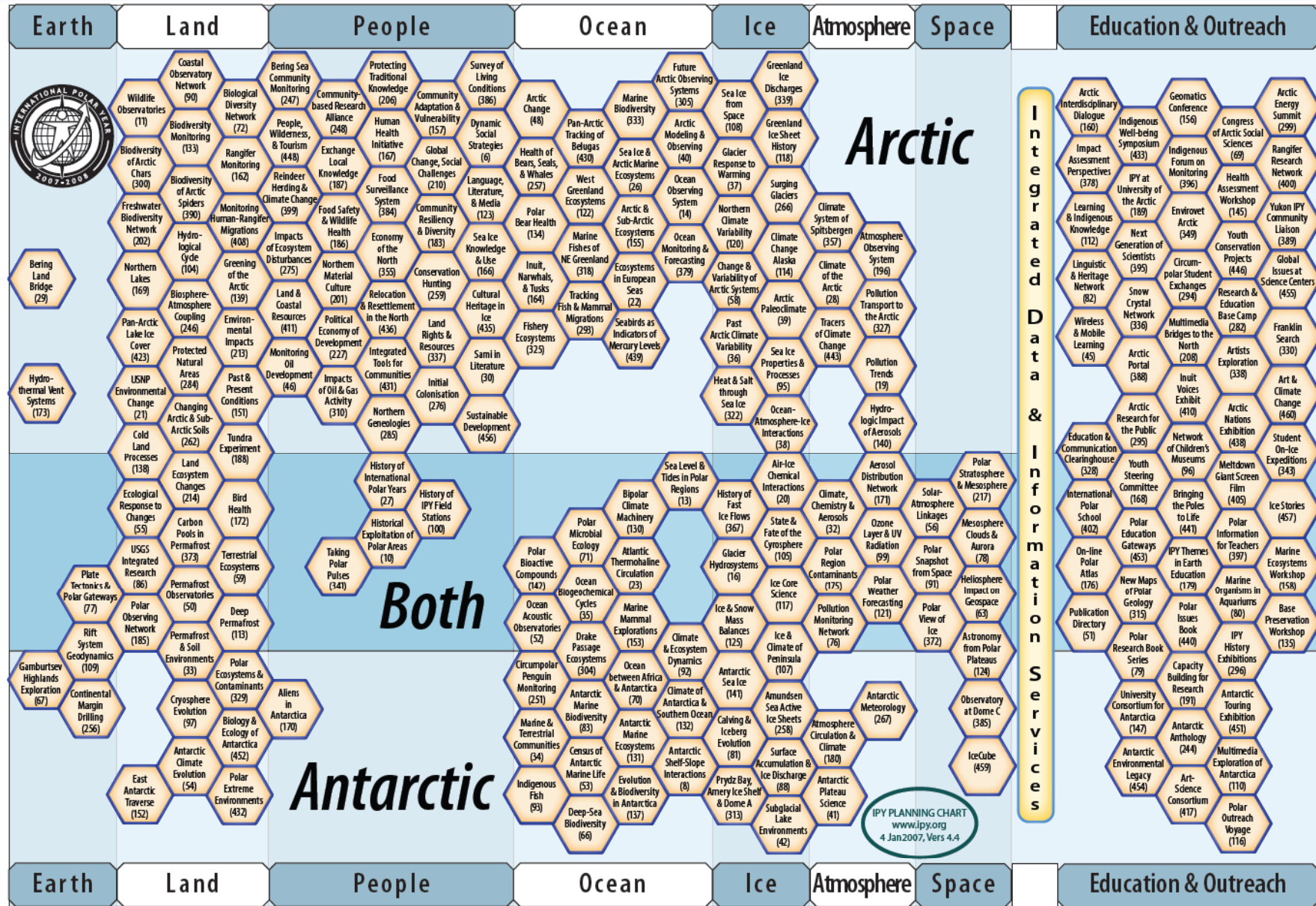


e.g. AstroGrid (sub-VO)



e.g. InGrid, C3-Grid, MediGrid

VOs in the International Polar Year 2007-2008



Source: www.ipy.org



VOM-Tools in the Communities

as per october 2006

Community	Registration	Authn+Authz
AstroGrid	VOMRS	
HEP	(VOMRS)	VOMS
C3		
MediGrid	(VOMRS)	VOMS
InGrid		(VOMS, Shibboleth)
TextGrid		(Shibboleth, VOMS, Permis)
KernGrid		

The What

- I. Provide a generic VO-management concept
- II. Achieve interoperability and integration of VO-management technologies

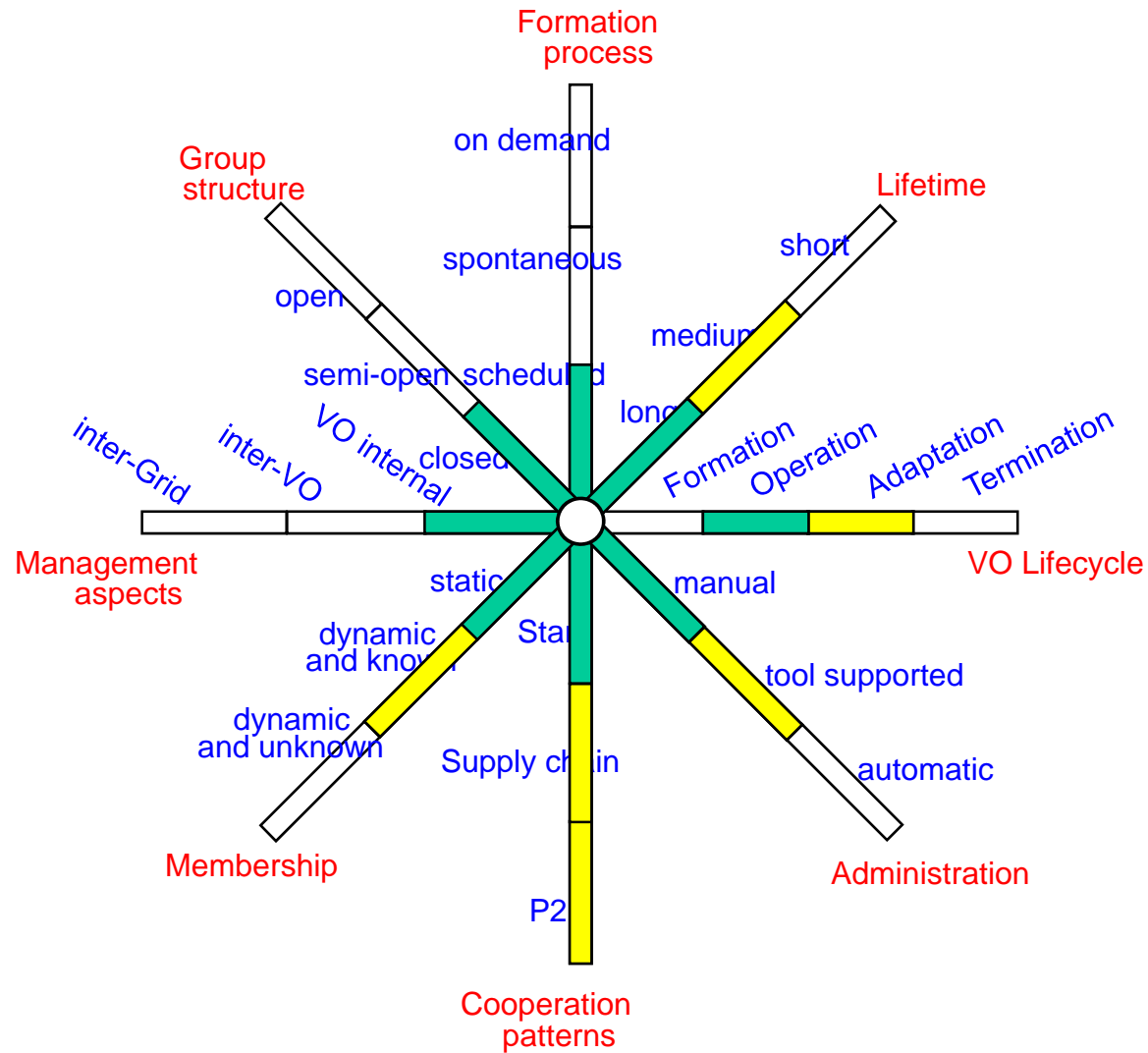
**This is one Work
Package of the
DGI**

Sept. 1st 2005 –
Aug 31st 2007



Oct. 1st 2006 –
Mar 31st 2008

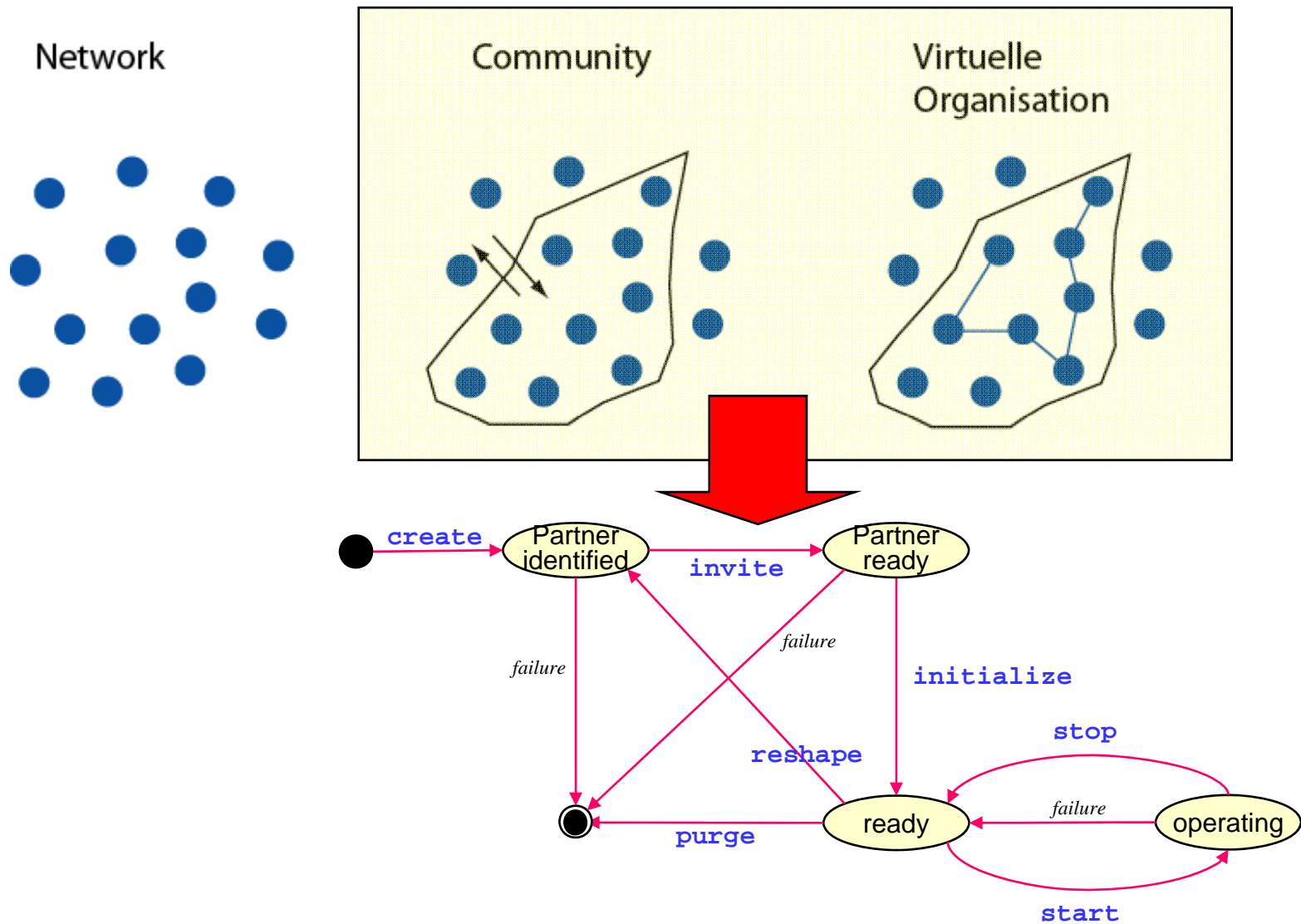
Some Dimensions to Consider



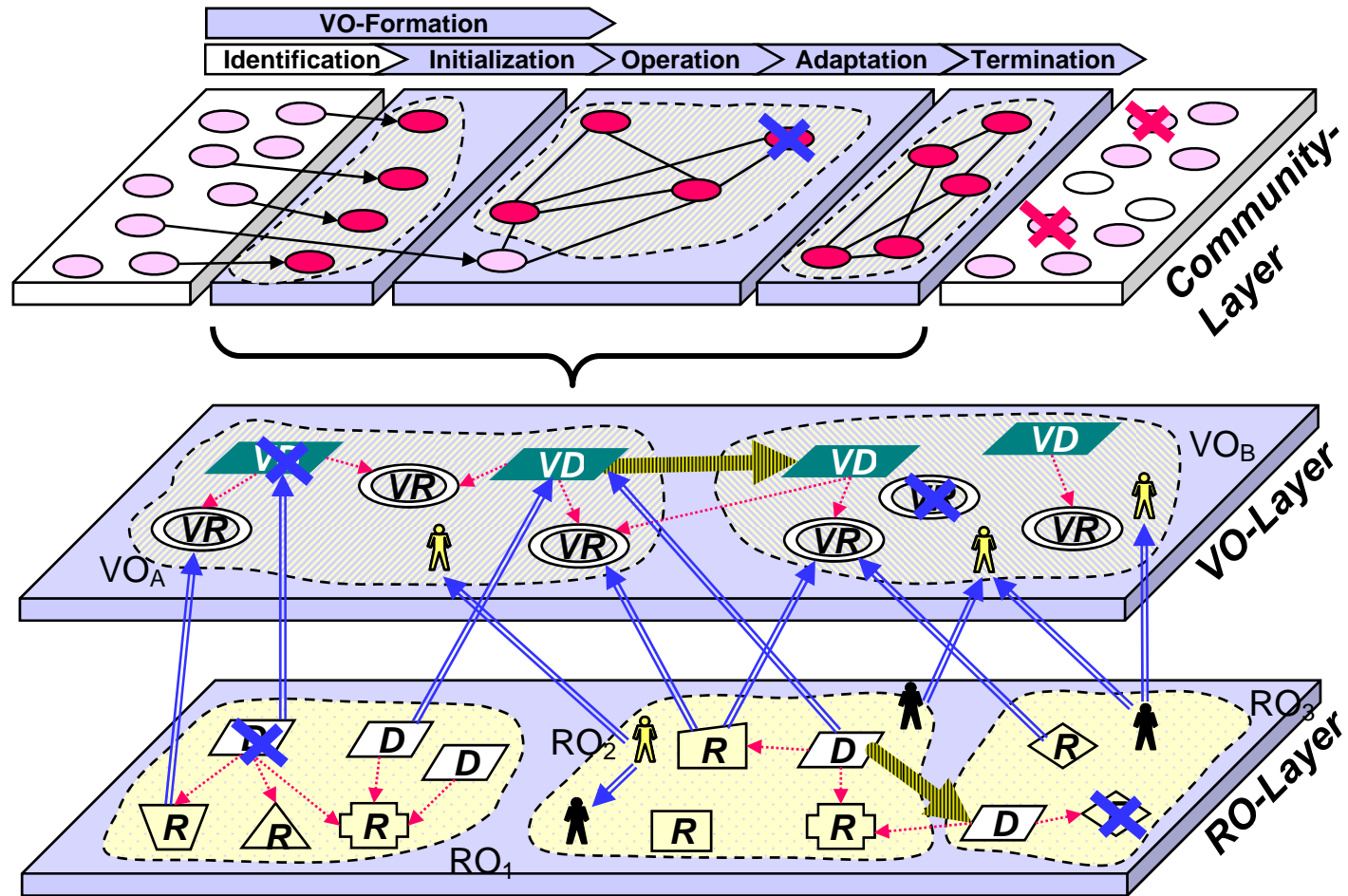
The How

- Requirements analysis
 - Community interviews
 - Evaluation of and cooperation with international projects
 - myVocs
 - GridShib
 - Permis
 - VOMS
 - VOMRS
 - MAMS
- Conceptual work
 - VO Management Architecture (VOMA)
 - VO Lifecycle Model
 - Role model
- Realization
 - Enhance WSDM
 - Integrate with GT4, UNICORE, gLite

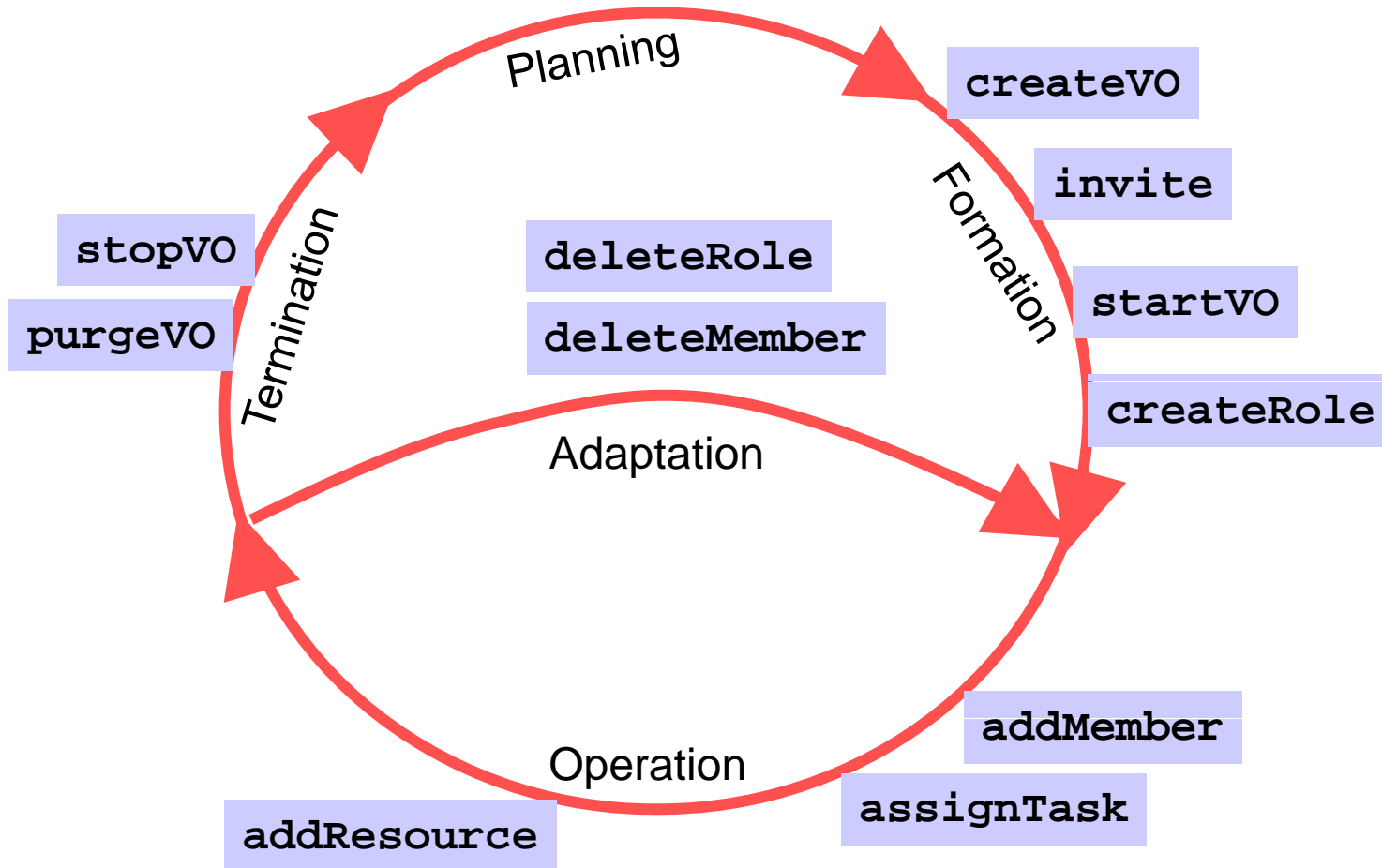
VO-Management in D-Grid



VO "Lifecycle Chain"



Examples



Goal: Contribution to OGSA VO-Management

Use Cases & Applications	Distributed query processing		Data Center	
	Collaboration	Persistent Archive	ASP	Multi Media
Core Services	VO Management			
	OGSA Self Mgmt Information		OGSA-EMS	WS-DAI
	GGF-UR		WS-BaseNotification	Discovery
	Privacy		Trust	Naming
			GFD-C.16	
Web Services Foundation	WSRF-RP		WSRF-RL	Data Model
	WSRF-RAP		WS-Security	SAML/XACML
	X.509			
WS-Addressing		HTTP(S)/SOAP	WSDL	CIM/JSIM
				Data Transport

Hole
Gap
Evolving
Standard

Source: Hiro Kishimoto, 2006

