

















































VO T	Fools	* *
 Certificate Authority (ESnet): DONE Group database administration (GroupMan, INFN scripts) Gridmap file creation tools (EDG mkgridmap) A group database (CA LDAP) Maintains a replica of certificates, which can be remotely accessed INFN CA LDAP uses a list of encoded certificates to construct the database Or use a replica from a central LDAP server Caltech GroupMan script eases certificate management in this database 	B) Contract & Collecture Annum Crave File selected: Cetificate info: 0- 0u= Issued by: dc= dc= 0u= Verification: Not valid before: Not valid before: Not valid before: Not valid before: Not valid after: <u>Ce</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u> <u>Inter</u> <u>Oran members</u>	Interventional and Intervention Interventinterieuro Intervention Intervention Intervention Inter
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	GriPhyN	In the second		
		0		
NSF funded 9/2000 @ \$11.9	M+\$1.6M			
→ US-CMS	High Energy Physics			
→ US-ATLAS	High Energy Physics			
→ LIGO/LSC	Gravity wave research			
→ SDSS	Sloan Digital Sky Survey			
Strong partnership with com	puter scientists			
Design and implement produ	ction-scale grids			
Develop common infrastruct	ture, tools and services (Globus based)			
Integration into the 4 experimental	ments			
Broad application to other set	ciences via "Virtual Data Toolkit"			
Research organized around '	Virtual Data (see next slide)			
Derived data, calculable via algorithm				
Instantiated 0, 1, or many times (e.g., caches)				
"Fetch data value" vs "executivation of the security of the	ute algorithm"			
Very complex (versions, cor	nsistency, cost calculation, etc)			
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HEP F	Relat	ed Da	ta Grid Pro	ojects	÷	
Funded projects → PPDG → GriPhyN → iVDGL → EU DataGrid → LCG (Phase 1)	USA USA USA EU CERN	DOE NSF NSF EC MS	\$2M+\$9.5M \$11.9M + \$1.6M \$13.7M + \$2M €10M CHF 60M	1999-2004 2000-2005 2001-2006 2001-2004 2001-2005		
<pre>"Supportive" funded</pre>	I propos USA EU UK EU	als NSF EC PPARC EC	\$53M €4M >£25M (out of £120M) ?	2001-> 2002-2004 2001-2004 2002-??		
Other projects → Initiatives in US, UK, Italy, France, NL, Germany, Japan, → EU networking initiatives (Géant, SURFNet) → EU "6th Framework" proposal in the works!						
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