

The Next Step - Establishing a Long-Term Preservation Infrastructure for Science and Research: the nestor2 approach

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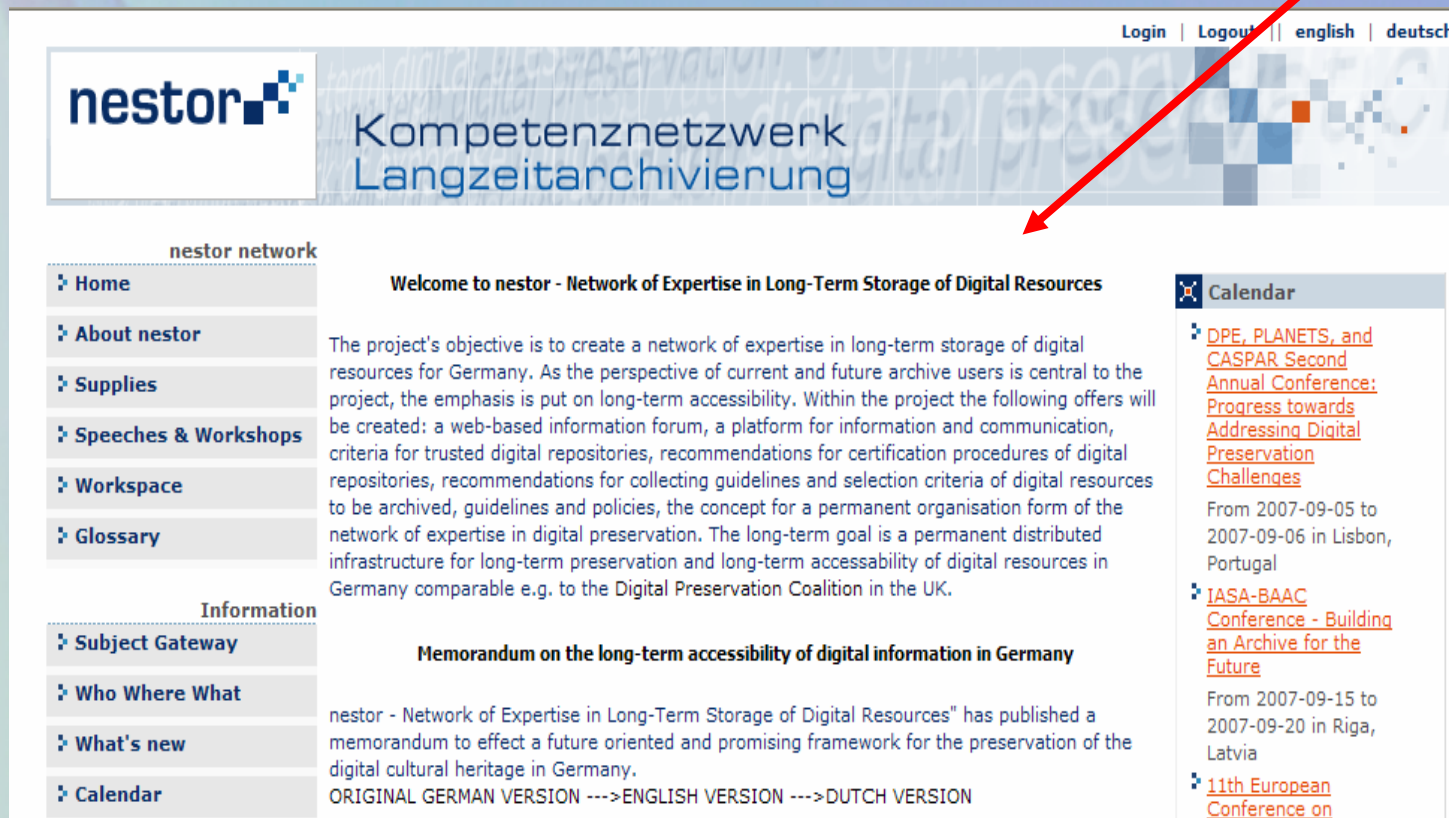
Topics

1. **What is the Network of Expertise - nestor?**
2. nestor2 - for whom ?
3. New challenges for nestor: The example „Grid/eScience and Preservation“


What is nestor ?

- Network of expertise
 - Center of competence in Germany in digital Long-Term preservation (digital curation)
 - Information platform for all activities in German speaking countries (DE, AT, CH)
 - Liaison with international developments, projects
 - Expert database
 -

The Mission of nestor



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Kompetenznetzwerk
Langzeitarchivierung

nestor network

- Home
- About nestor
- Supplies
- Speeches & Workshops
- Workspace
- Glossary

Information

- Subject Gateway
- Who Where What
- What's new
- Calendar

Welcome to nestor - Network of Expertise in Long-Term Storage of Digital Resources

The project's objective is to create a network of expertise in long-term storage of digital resources for Germany. As the perspective of current and future archive users is central to the project, the emphasis is put on long-term accessibility. Within the project the following offers will be created: a web-based information forum, a platform for information and communication, criteria for trusted digital repositories, recommendations for certification procedures of digital repositories, recommendations for collecting guidelines and selection criteria of digital resources to be archived, guidelines and policies, the concept for a permanent organisation form of the network of expertise in digital preservation. The long-term goal is a permanent distributed infrastructure for long-term preservation and long-term accessibility of digital resources in Germany comparable e.g. to the Digital Preservation Coalition in the UK.

Memorandum on the long-term accessibility of digital information in Germany

nestor - Network of Expertise in Long-Term Storage of Digital Resources" has published a memorandum to effect a future oriented and promising framework for the preservation of the digital cultural heritage in Germany.

ORIGINAL GERMAN VERSION --->ENGLISH VERSION --->DUTCH VERSION

Calendar

- [DPE, PLANETS, and CASPAR Second Annual Conference: Progress towards Addressing Digital Preservation Challenges](#)
From 2007-09-05 to 2007-09-06 in Lisbon, Portugal
- [IASA-BAAC Conference - Building an Archive for the Future](#)
From 2007-09-15 to 2007-09-20 in Riga, Latvia
- [11th European Conference on](#)

Timeline

- 1995: First approaches of DFG
- 2002: Constitution of an initial group in BMBF (Federal Ministry of Education and Research)
- July 2003: Creation of nestor with six partner institutions. Sub-project of BMBF-project „New Services, Standardisation, Metadata“
- End of 2004: Information platform with experts, profile database, news, newsletter, etc.
- Broad field of cooperation: science, libraries, archives, museums, data centers, training centers
- 2005: Entry of Bundesarchiv (Federal Archive)
- 01.07.2006: Start of 2nd project phase, project durance until 2009

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Financial Support ca. 1.500.000 €



Libraries

University, IT-faculty

Archives

Museums



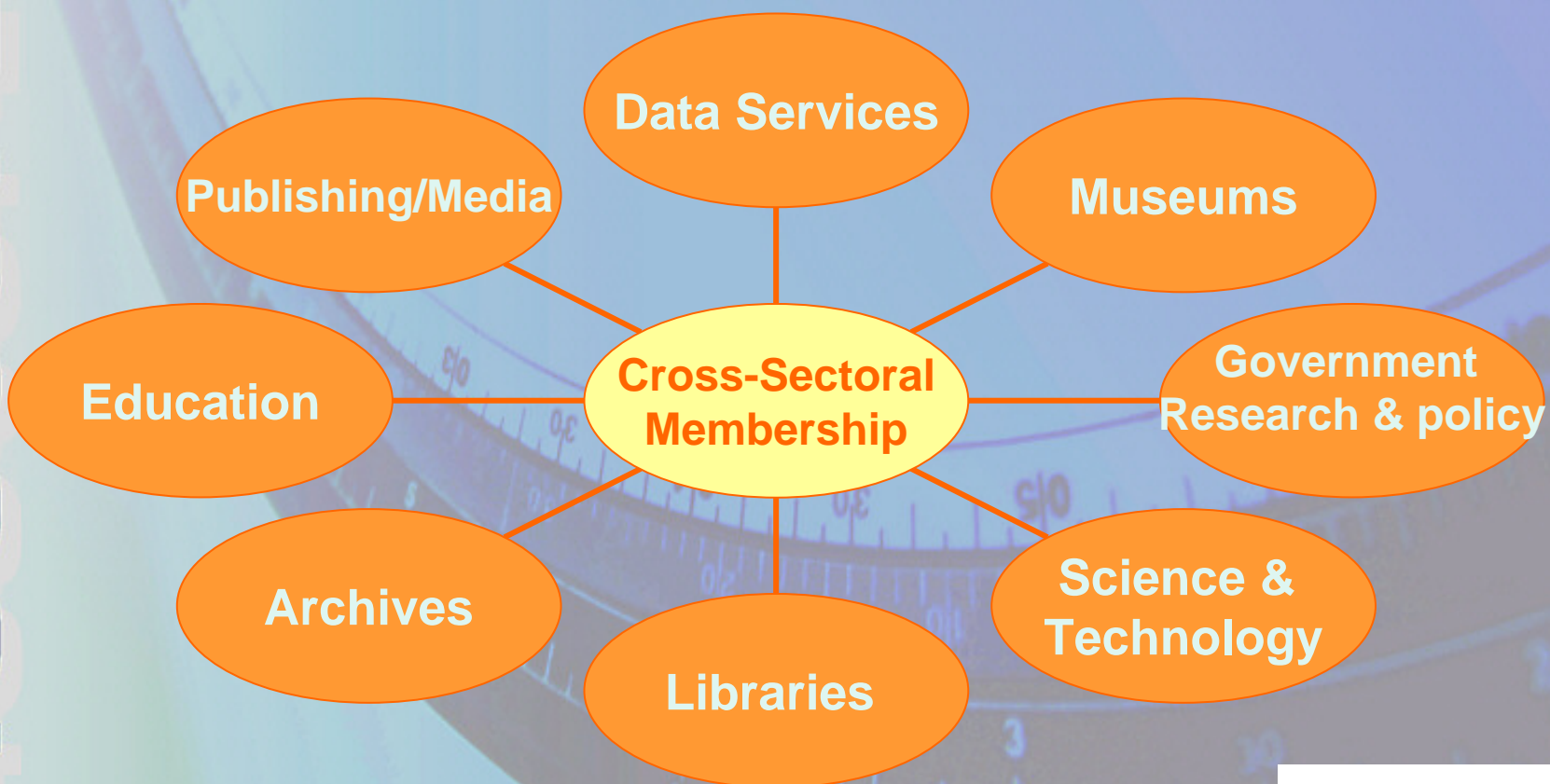
Rationale for nestor

- **Raises the profile** of Digital Preservation
- **Runs advocacy campaign** which targets stakeholders:
→ Owners and Creators of digital resources; Funding bodies
- **Provides examples** of Good Practice
- **Highlights** where gaps and priorities for action and responsibility are
- **Acts as catalyst** for Action
→ Builds partnerships, disseminating information; maintaining current awareness, develops projects
- **Prepares** a durable form of organisation
→ „association“, „network“, „shelter/harbor“ ???

Topics

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3. New challenges: The example „Grid/eScience and Preservation“

Target groups of nestor



Activities of nestor

- **Training** – nestor Spring/Winter School, cooperation with training centers, seminars of the Bundesarchiv, collaboration in DPE
 - **Research** – standardized delivery of electronic objects to the Archiv (Ingest), Grid-Technologie and Long-Term preservation, collaboration in EU-projects, e.g. PLANETS, CASPAR, PARSE, SHAMAN
 - **Certification** – Catalogue of Criteria for Trusted Repositories; Catalogue of Criteria for PIs, collaboration with DIN and ISO
 - **Tools / Workflow** – collection, overview ongoing activities
 - **Current Awareness** – “What’s New in Digital Preservation” from PADI/DPC
- Currently about 30 institutions in six workgroups
Further cooperation is necessary in all areas

nestor

Policy: „Memorandum on the Long-Term accessibility of digital information“

- Task of national interest
- Public funding
- Agreement of responsibilities
- Recommendation of a durable form of organisation
- Responsible choice of objects
- Consideration of all kinds of objects
- Consistent access to analogue and digital information
- Comprehension of digitisation activities
- Preference of non-proprietary formats
- Intensification of standardisation activities
- Professionalisation

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„Grid/eScience and Preservation“**

Grid is a Journey . . .

Old World

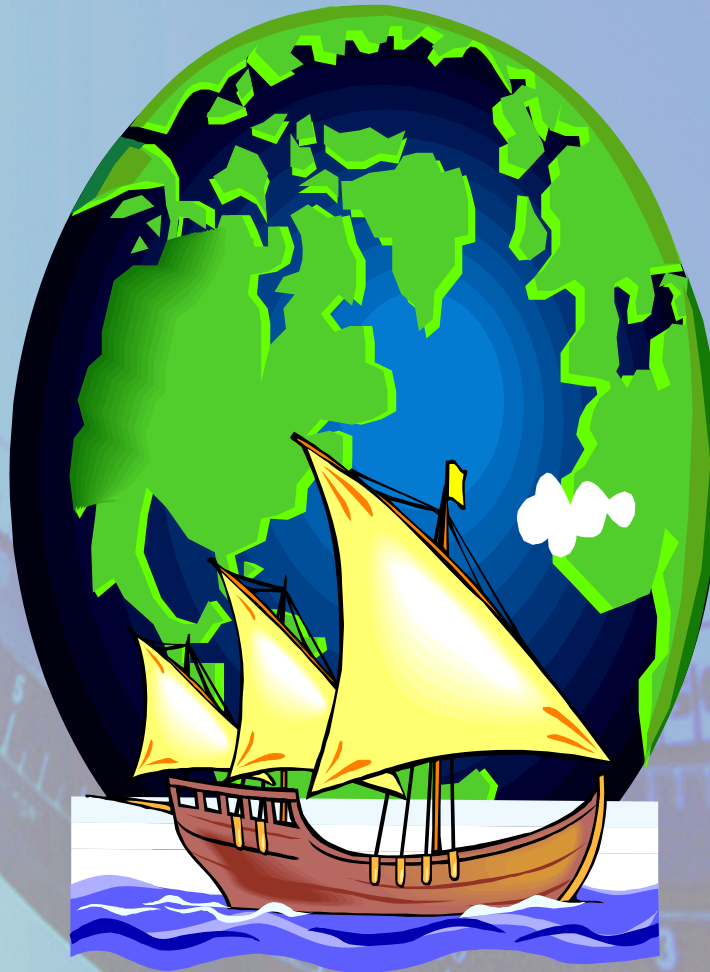
Static

Silo

Physical

Manual

Application



New World

Dynamic

Shared

Virtual

Automated

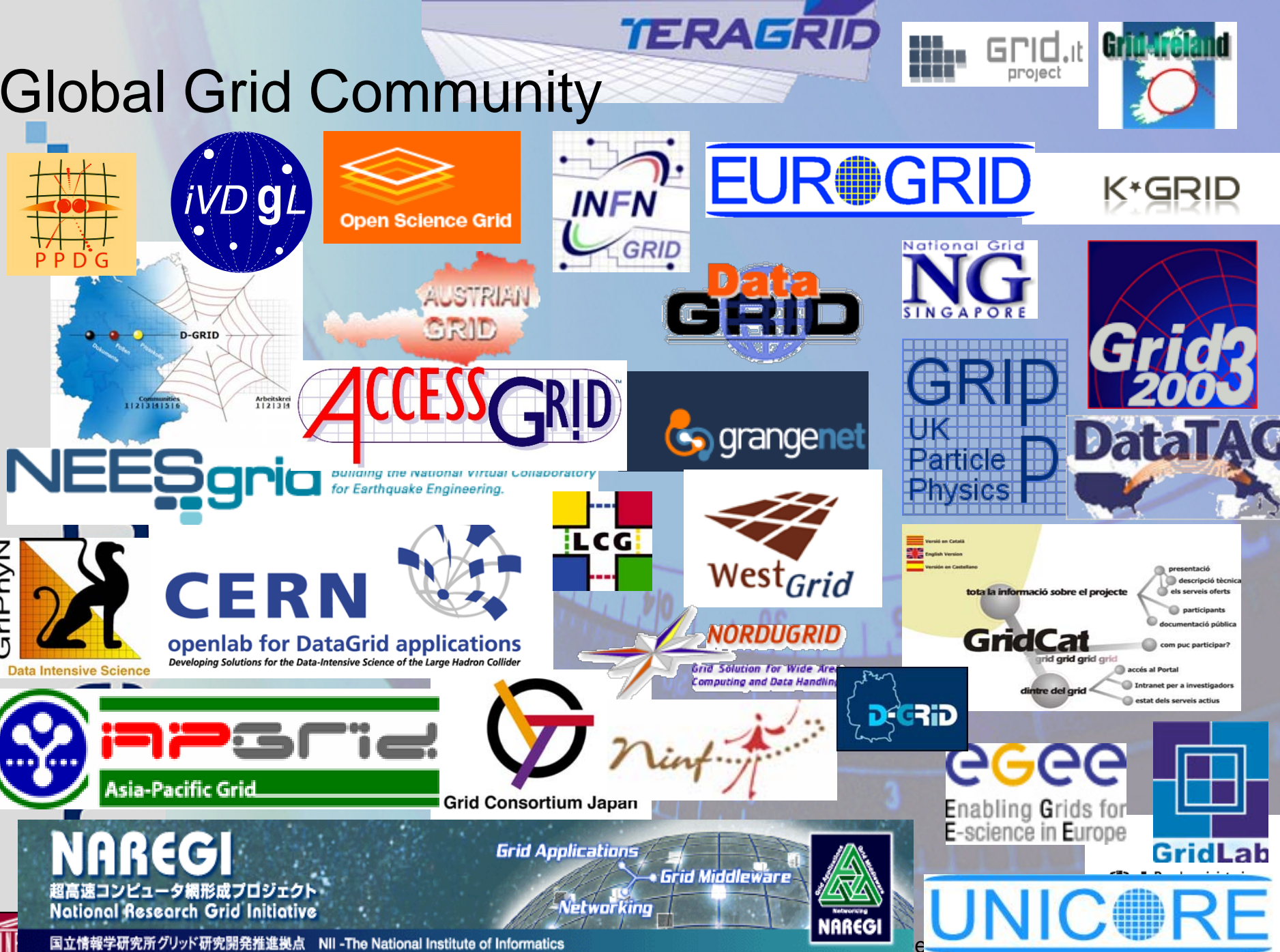
Service

Reference: Gentsch, "D-Grid and its Impact on Science & Industry in Germany", Mai 2006

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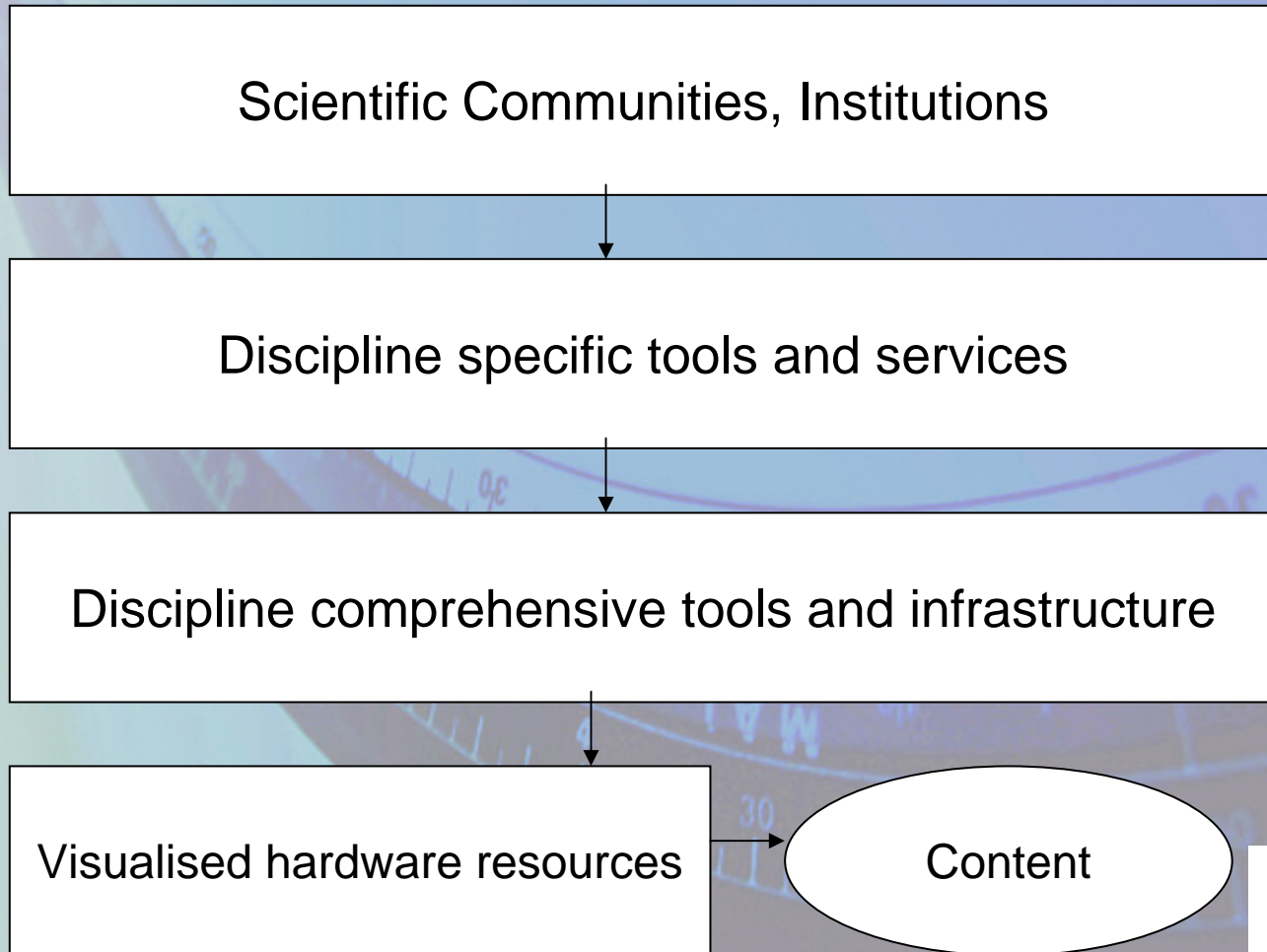
Global Grid Community



What is GRID/eScience?

- **Computer- and Storage capacity**
→ virtual knowledge environments with comprehensive datasets, visualisation and scientific information
- **Technical integration**
→ Connection of various players, services, resources and methods
- **Networking of people**
→ support of workflows, communication and knowledge transfer

„layers“ of Grid



Long-Term Preservation needs GRID/eScience

1. Grid-Technology is the latest developed information technology
2. With Grid-Technology, huge data volumes can be handled
3. Tools, Services etc. are increasingly integrated in Grid environment (e.g. Fedora, Editions-Tools)

Grid/eScience needs Long-Term Preservation

1. Scientific data volumes have to be preserved in Grid-environments, too
2. Experiences in this area (Workflows, Ingest ...) derive from the long term preservation-community

What does nestor contribute? (1)

Surveys

- **1. Raw data:** „Long-Term preservation meets e-Science in the field of scientific raw data“, GeoForschungszentrum Potsdam, Dr. Jens Klump
- **2. Standards:** "Standards and Standardisation in the context of Grid-Technology and Long-Term preservation", Universität der Bundeswehr München, Prof. Dr. Uwe M. Borghoff
- **3. Synergies:** „Synergy potential between GRID/eScience - Technologies for Long-Term preservation“, Fernuniversität Hagen, Prof. Dr. Wolfram Schiffmann

What does nestor contribute? (2)

WG LZA/GRID: Survey coordination, consolidation of results and verbalisation of further needs

- Definition of Testbeds
- Arrangement of events for and of both Communities (e.g. GES-Workshop)
- Observation of international developments
- formulation of a **Roadmap** for consolidation of Grid and Long-Term preservation / Grid and archival systems

**Thank you for your attention.
Any questions?**

www.digitalpreservation.de

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