



Towards a Digital Research Infrastructure for the Humanities in Europe

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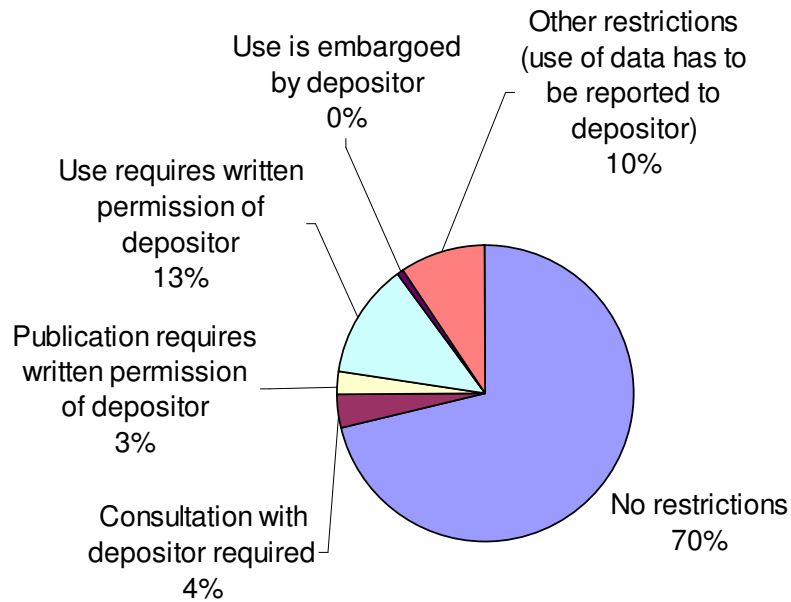
- DANS and open access to research data in the Netherlands
- The European context:
 - Need for a European Digital Research Infrastructure for the Humanities
 - Outline and model for its development

- **DANS:**
 - Dutch national organisation for access to research data
 - Guarantee long-term curation to such data
 - Works for humanities and social sciences
- **Joint initiative:**
 - Royal Netherlands Academy of Arts and Sciences (KNAW)
 - Netherlands Organisation for Scientific Research (NWO)
- **Aim:**
 - Boost collaboration with researchers and between researchers, both within and across disciplines
 - Open Access is the guiding principle
- **DANS stimulates permanent access to research data at the European level**

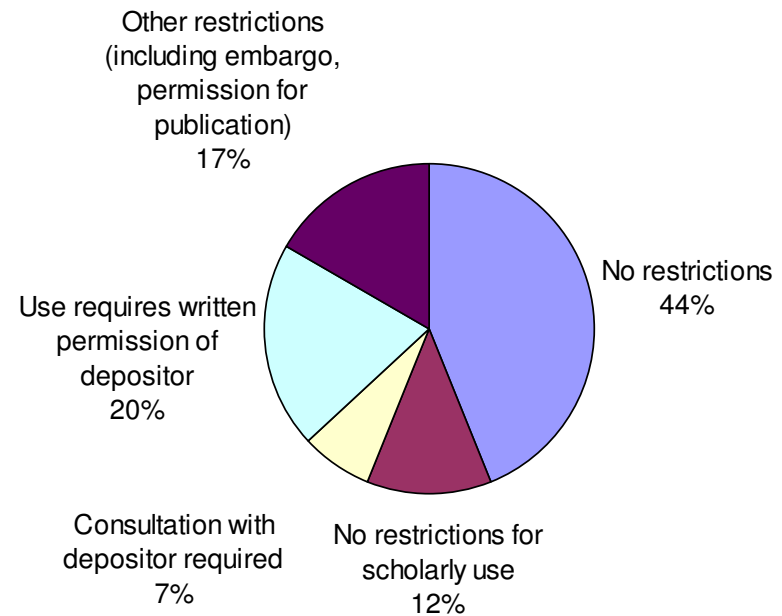
- Dutch ministers of economic affairs and of education, culture and sciences favour open access (OECD agreement)
- KNAW and NWO signed Berlin declaration
- How DANS works on open access:
 - DANS abolished all subscriptions, fees and other payments for data in its digital archives
 - Code of conduct for researchers for secure access
 - Authorisation system for access to privacy sensitive data
- Practice is less favourable:
 - Researchers want some degree of protection and control on who accesses “their” data
 - Official data providers still expect DANS to continue past data contracts

Access restrictions in two data archives

Steinmetz Archive



Historical Data Archive



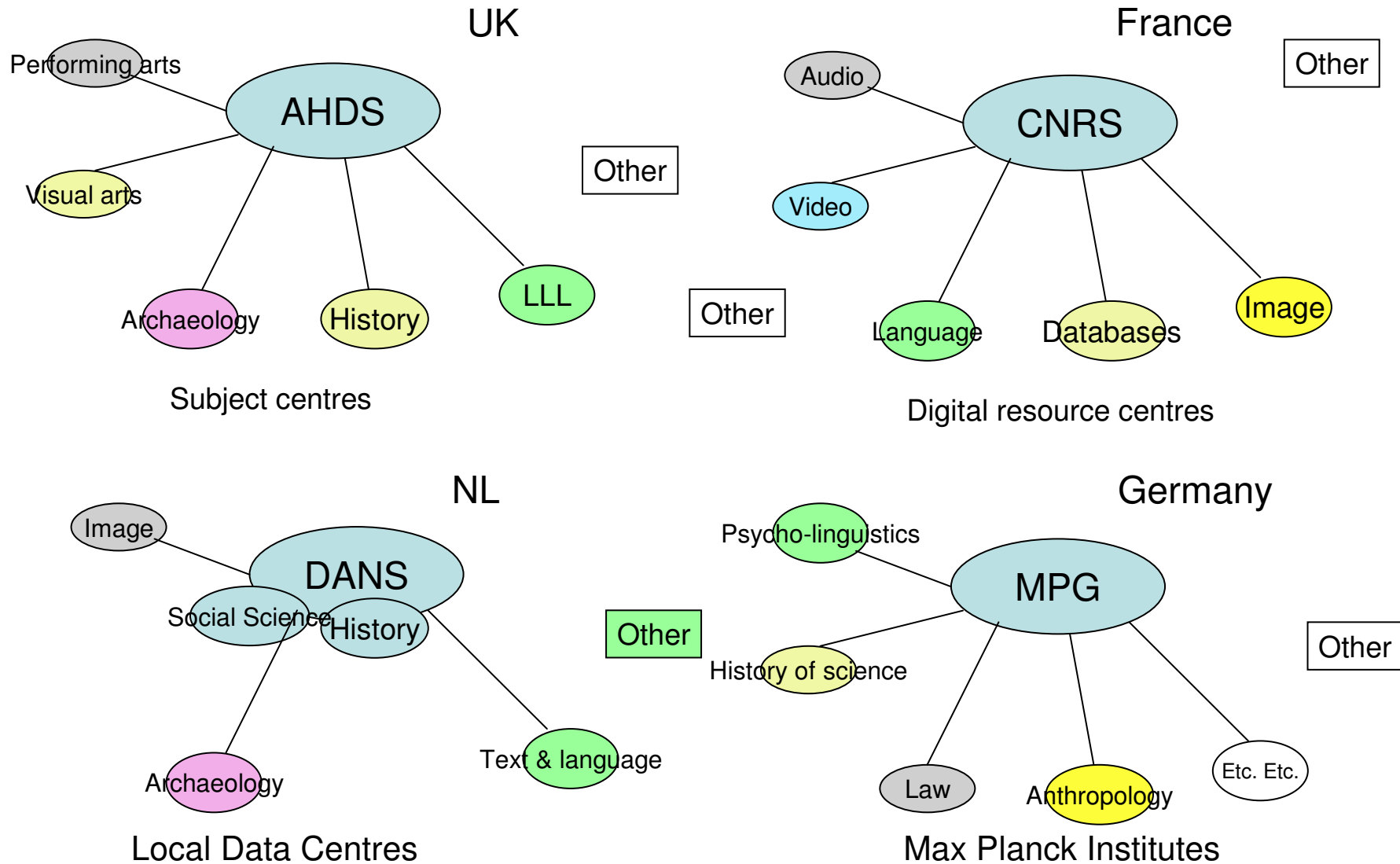
- Existing data organisations (like DANS) will function in the context of emerging European research infrastructures for the humanities (and social sciences)
- ESFRI Roadmap: European Strategy Forum for Research Infrastructures
 - Within ESFRI working group for Social Sciences and Humanities two Expert Groups:
 - EROHS: concentrating on social sciences
 - Cultural Heritage: concentrating on humanities
- Research infrastructures in general: **permanent** and **physical**
- Research infrastructures for the natural sciences: ice breakers for polar research, satellites, telescopes, particle accelerators, laboratories
- Cultural heritage in all forms is the main source of humanities research
- Libraries and archives are the traditional “laboratories” for the humanities
- In the digital age, essential for innovative humanities research is:
 - Access to digitised heritage data (data bases, text corpora, speech, image collections, etc.)
 - Tools to process this information
- The most important new research infrastructure for the humanities is therefore a digital one

- The Grand Vision:
 - Provide Access to all surviving European humanities and cultural heritage information across all of time
 - A Research Infrastructure that can Coordinate, Catalyse, Enhance, Support
- Digital research infrastructure for the humanities:
 - Provide permanent access to data collected/digitised in European projects: providing continuity for discontinuous activities
 - Support research networks in the humanities and social sciences
 - Structure: a strong nucleus in a cluster of networked organisations and satellites

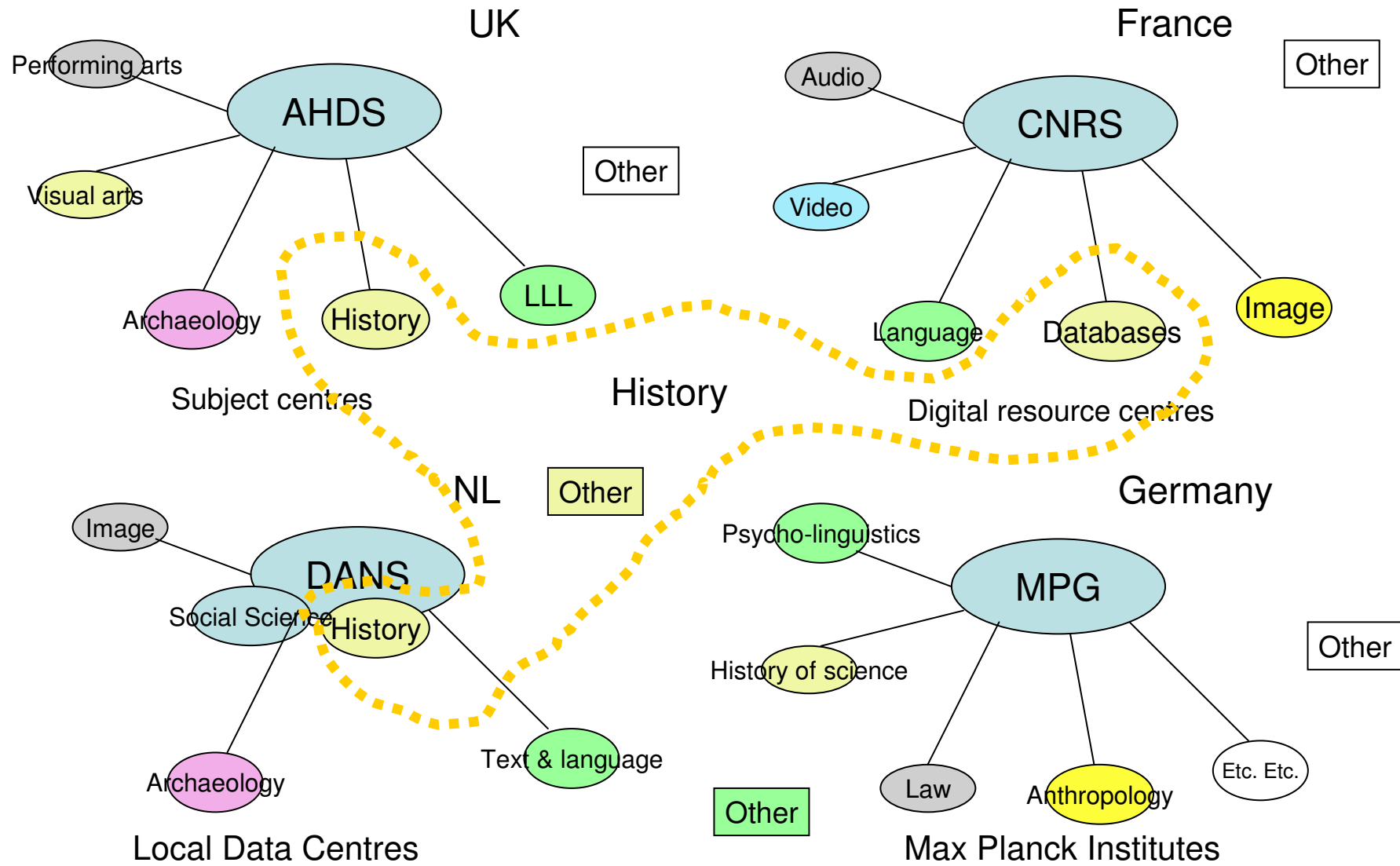
- **Digitise – Curate – Preserve**
 - Standards development and promotion
 - Preservation and digitisation services
 - R&D, technology platforms, tools development
 - Legal services and advice
- **Discover – Access – Deliver**
 - Authentication and authorisation,
 - Harvesting, aggregating, hosting
 - User-friendly discovery and delivery
- **Connect – Collaborate – Use**
 - Supporting communities of practice
 - Facilitating new research practices
 - Tools development and tools registries

- Changing research practice in a networked environment:
 - Data (including text, images, and other media) is the laboratory of the scholar in the social sciences and humanities
 - Distributed resources on the web (data grid)
 - The scale of research goes up: networked projects
 - New technologies and methods of analysis
- However, European projects have no continuity
- The existing structures are too weak (ad hoc networks, no permanence) and too national in scope
- Answer: strong European data infrastructure
- Start: four strong national organisations are forming the starting point for emerging pan-European RI

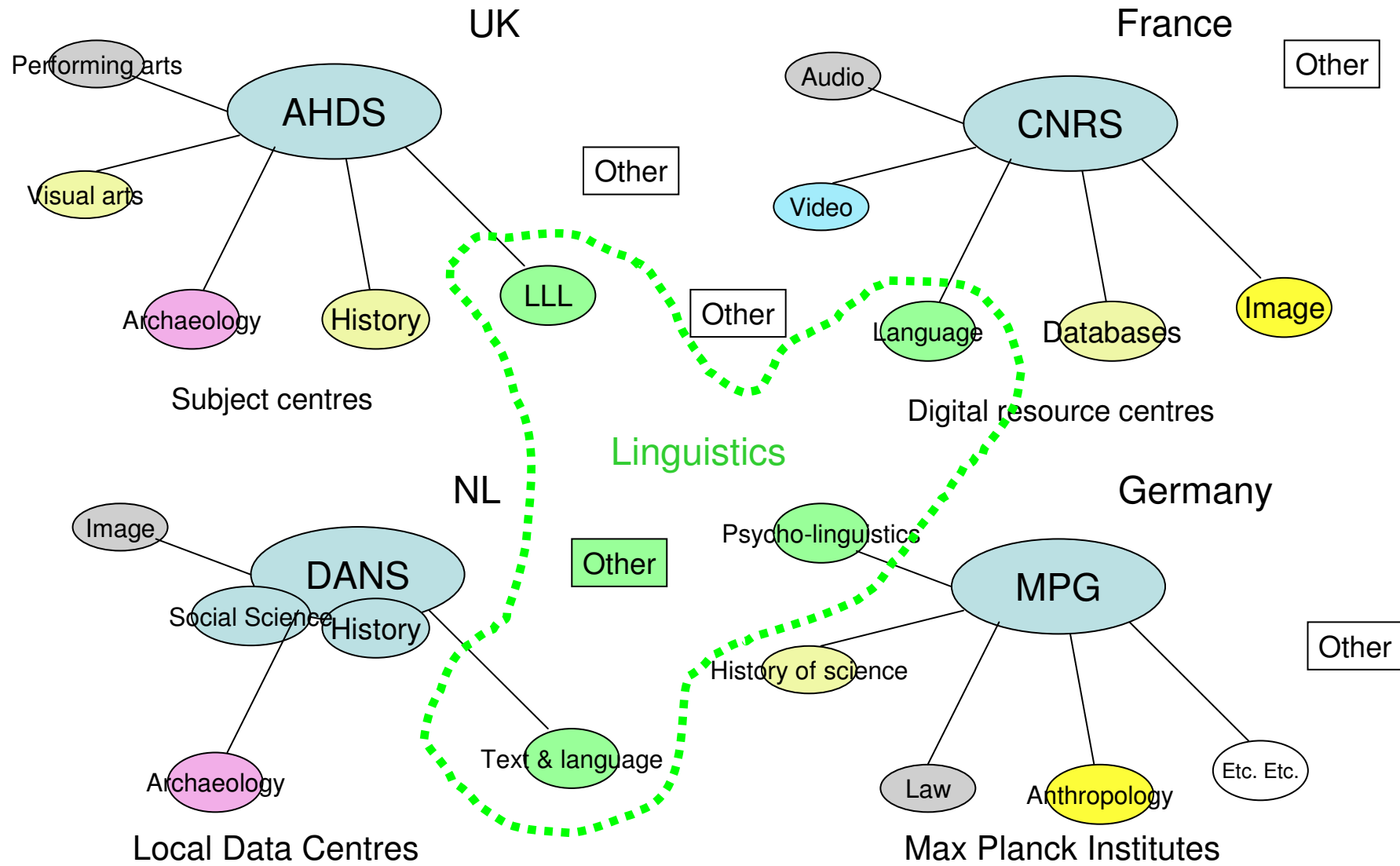
Present situation



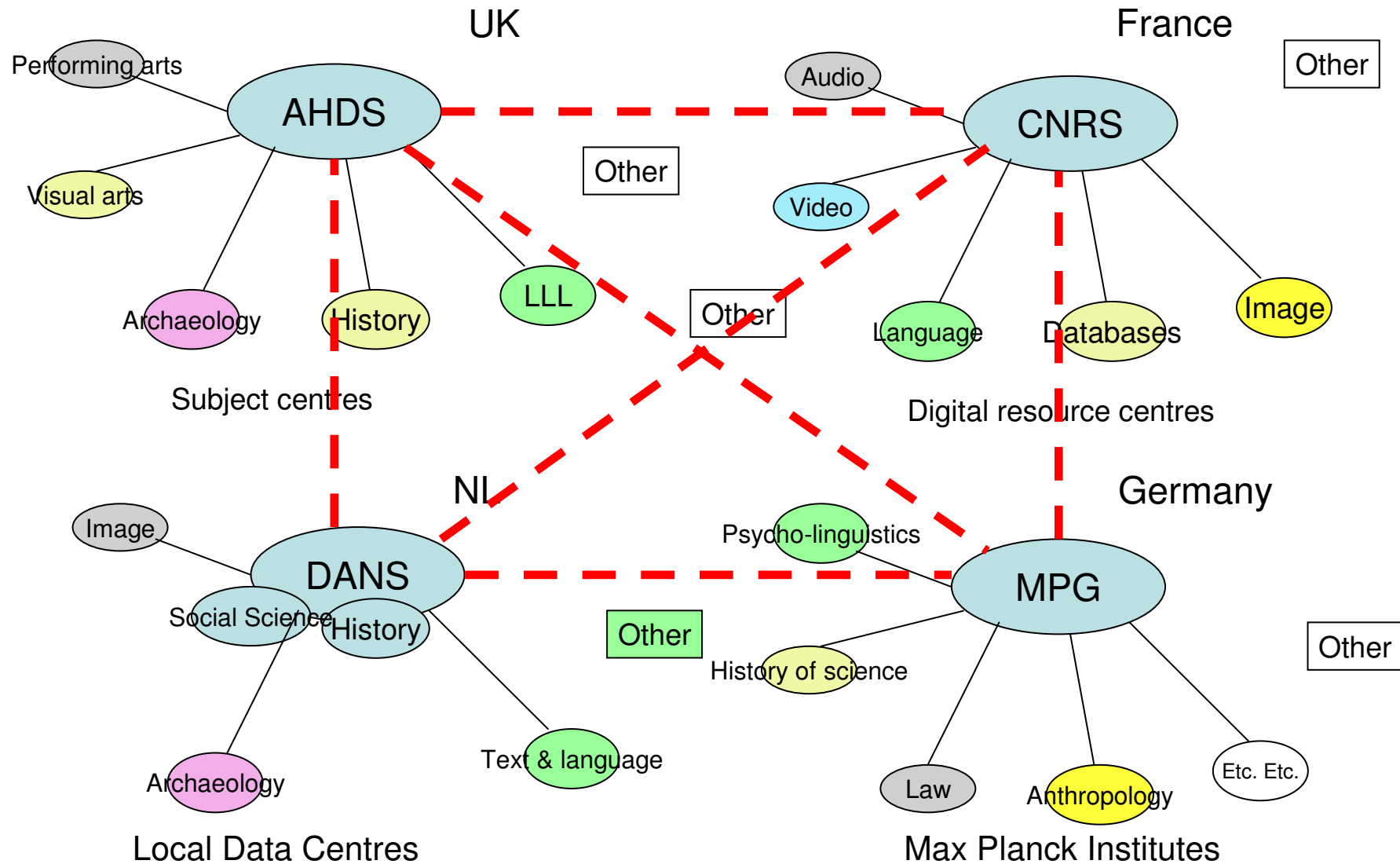
Projects and temporary coalitions: History example



Projects and temporary coalitions: Linguistics example



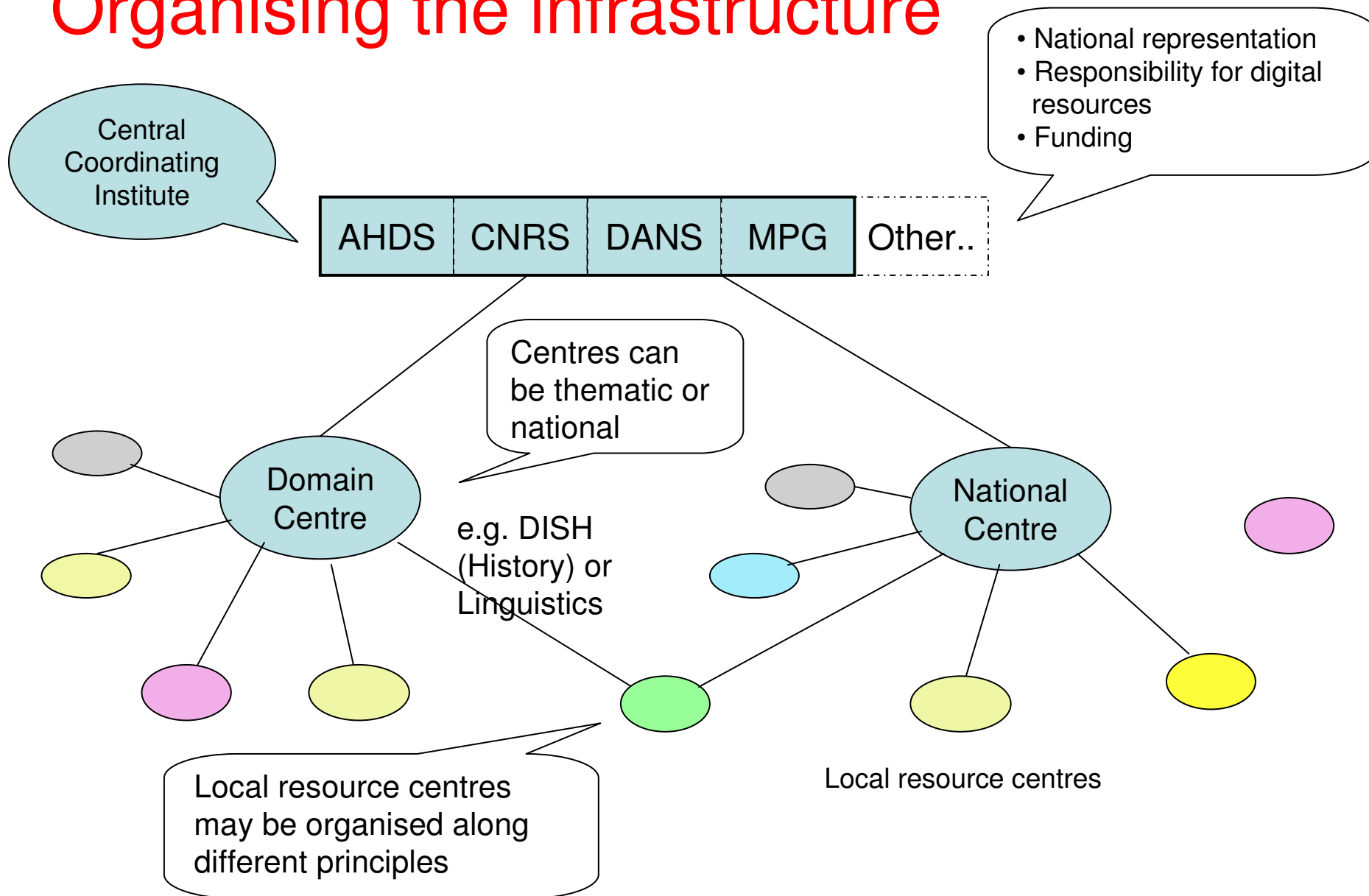
Coalition towards infrastructure



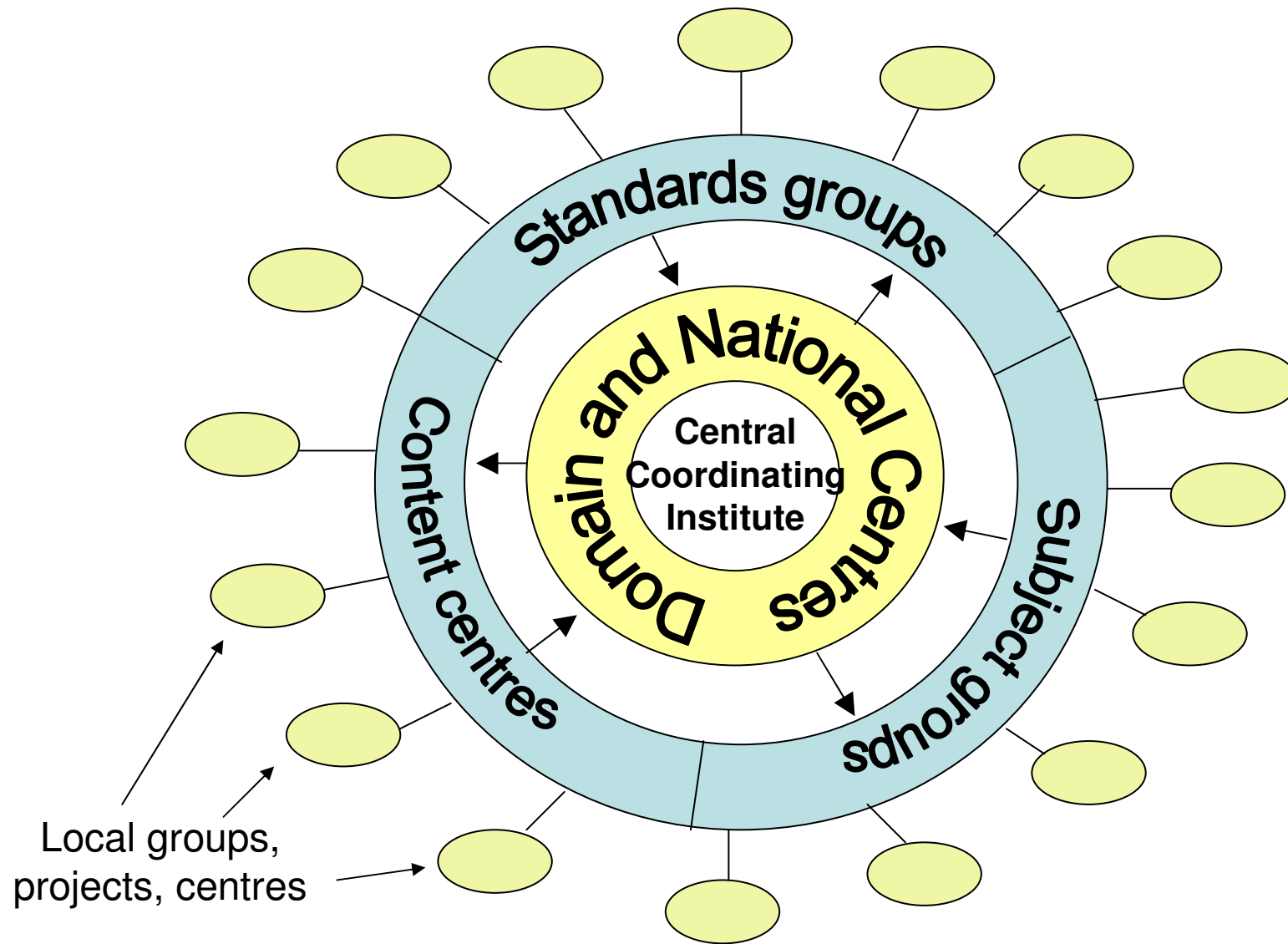
- European / International Layer:
 - Enabling, coordinating, funding
 - Best practice and standards
 - Harvesting, harmonisation and combination
- National Layer:
 - Enabling, coordinating
 - Service provision
 - Best practice and standards
- Local/thematic (domain) Layer:
 - Projects, communities of practice

Flexible and responsive; reciprocal relationships, subsidiarity

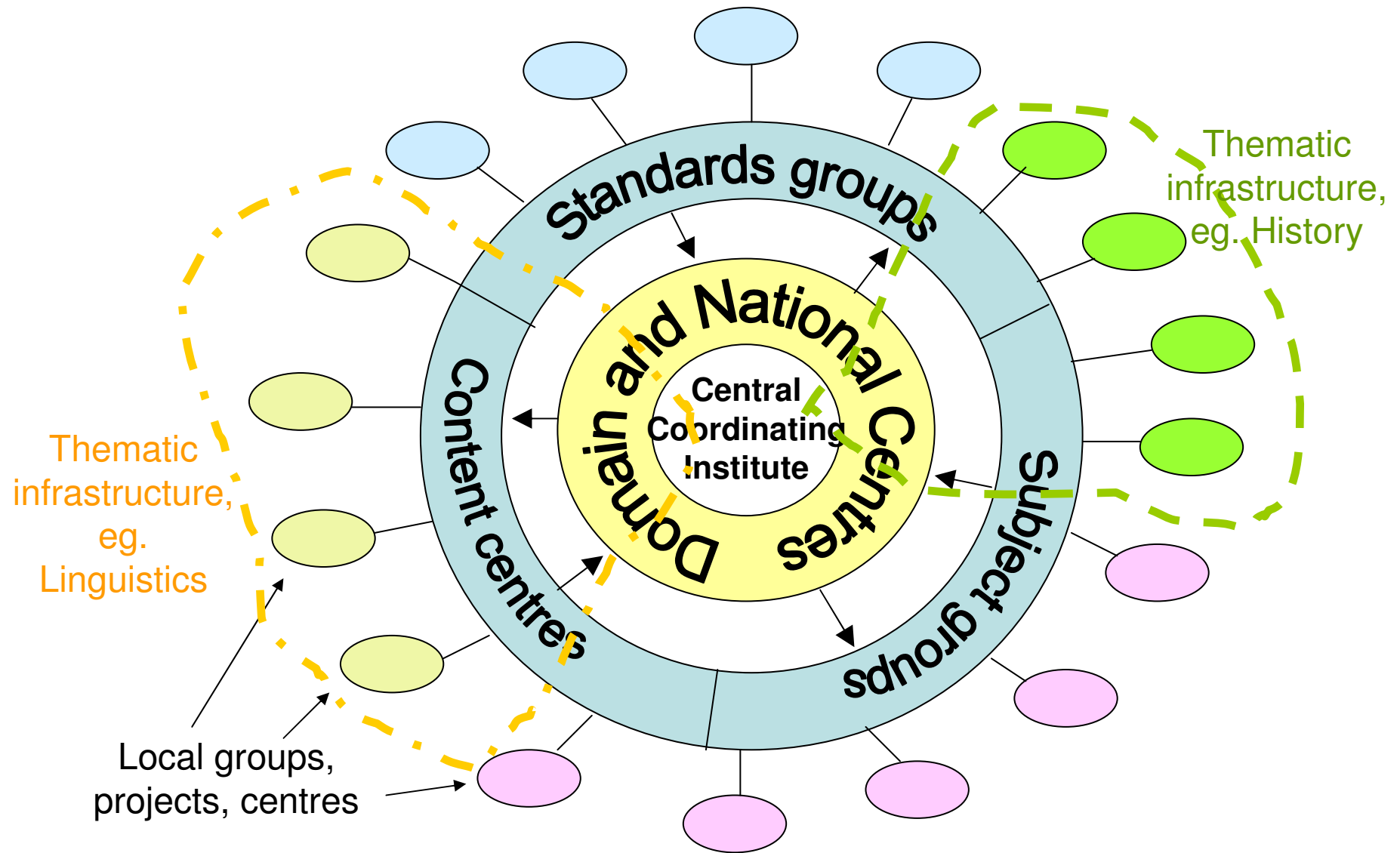
Organising the infrastructure



Expanding and consolidating the infrastructure



Expanding and consolidating the infrastructure



- Mission: to enhance the European research infrastructure in the humanities (and social sciences?)
 - linking (and upgrading) distributed digital resources and merging them into a grid-empowered architecture
 - designing new facilities for pioneering research, preferably of an international and interdisciplinary nature
- Structure: a single, core organisation that combines specialist knowledge of the fields with technological expertise in digital information and communication structures
- Organising principle: a decentralised network; a strong core in a cluster of satellites
 - The core will bear responsibility for organising and supporting the network, for the basic infrastructure, and for the method and means of communication.
 - The decentralised ‘hubs’ will bear responsibility for the specific thematic or disciplinary expertise. The hubs will be prominent institutes and research networks with a leading role within the European context. The model is an open one and will be able to embrace new, promising fields that are as yet unable to play such a leading role in Europe.