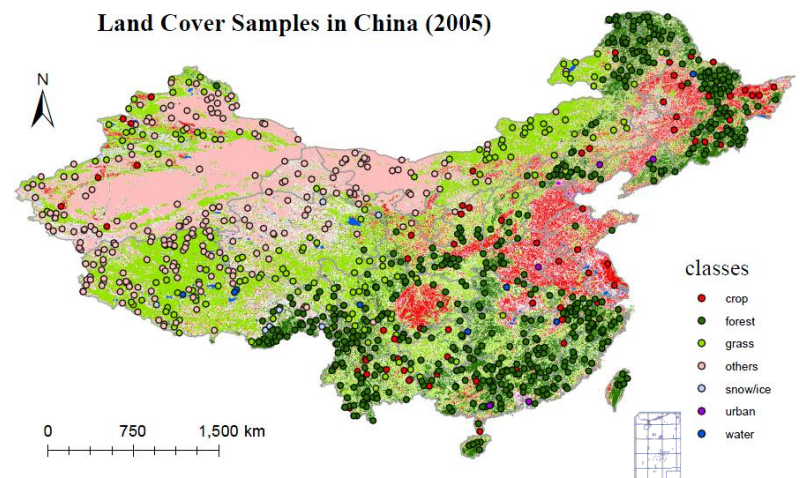
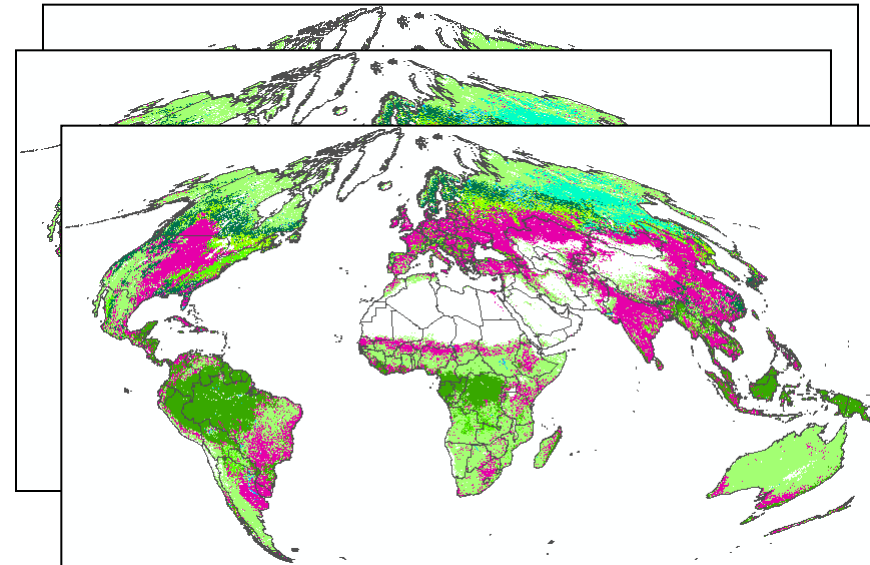


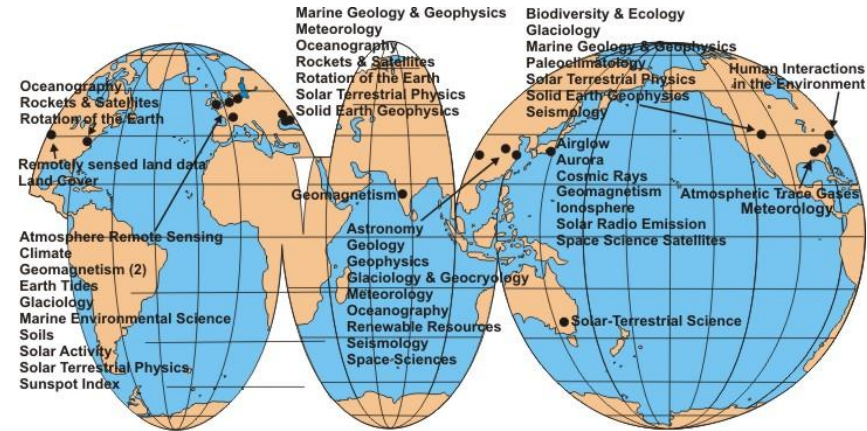
# Global data sharing needs global efforts

- Viewpoint 1: Advance the global scale data quality needs global efforts
- Case: Land cover data
  - Produced by developed countries. E.g, GLCC, UMD, MODIS, GLC2000, GlobCover,
  - Unbalance accuracy in different regions
  - Usually, regions in developed countries has high relatively accuracy, low in developing countries because of limited ground truth data support
- Comments:
  - Enhance the cooperation in global data production
  - eliminate the data gap between the rich and the poor



# Global data sharing needs global efforts

- Viewpoint 2: Unite lots of data organization to put forward the global data sharing
- Case: ICSU WDS (World Data System)
  - Distribute data centers in the world
  - One portal, all access
  - OAI-PMH (Open Archives Initiatives Protocol for Metadata Harvesting) is used for metadata interoperability
- Comments:
  - There are so many data organizations in the world, global data sharing needs them
  - Uniform data sharing standards, specifications and interoperability protocol are needed
  - Input unique and valuable data resources for global research



Former WDC (now is merged in ICSU WDS)centers distribution

3900+ data sets of CAS are shared in WDS Portal supported by OAI-PMH

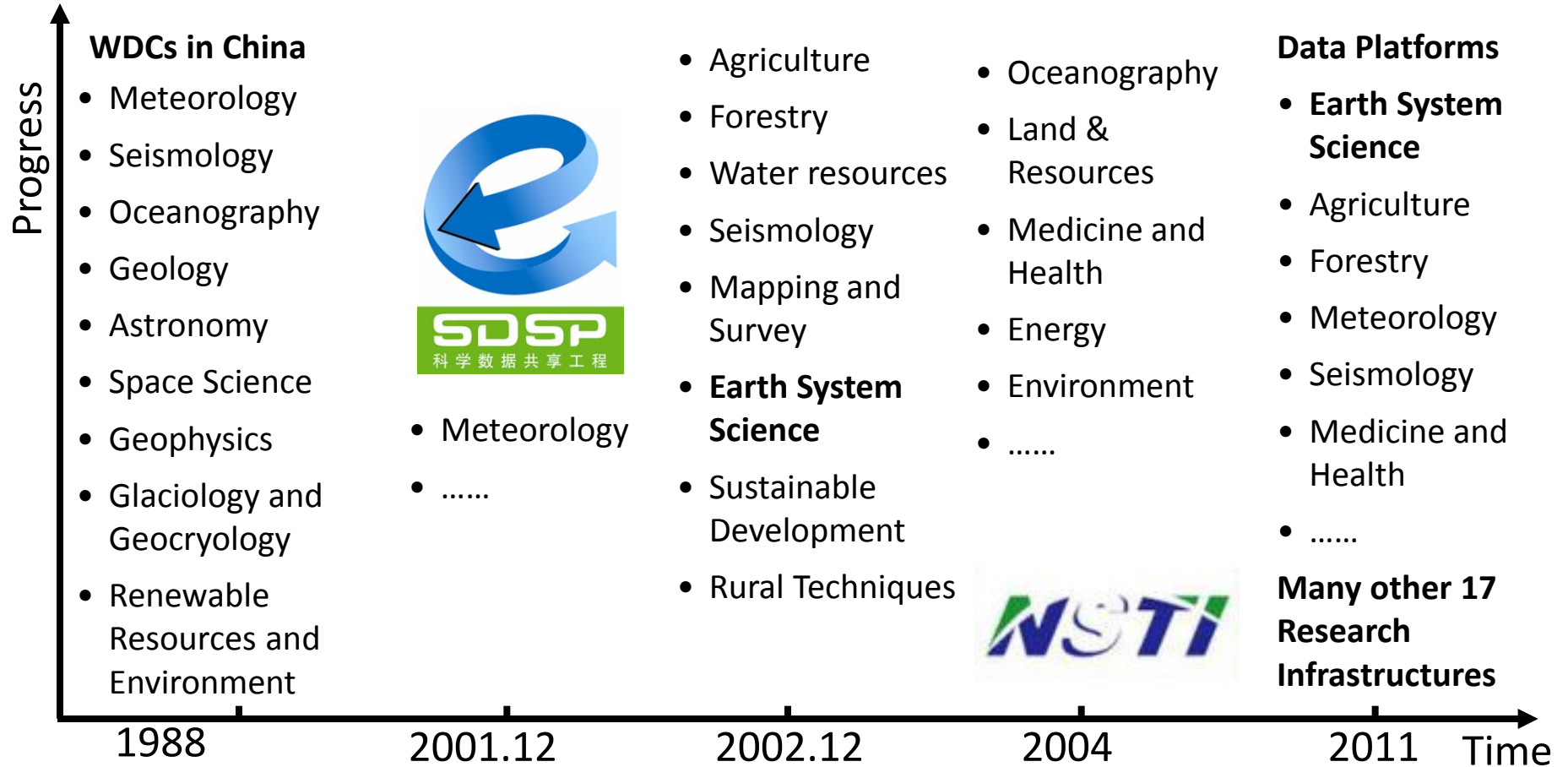
“ The new WDS will support ICSU’s mission and objectives, ensuring the long-term stewardship and provision of quality-assessed data and data services to the international science community and other stakeholders. ”

SCID Report 2008

ICSU  
WORLD DATA SYSTEM

# Global data sharing needs global efforts

- Viewpoint 3: Various efforts for data sharing in different countries are important parts of global data sharing
- Case: China scientific data sharing progress and its approach



- Comments: country level data sharing activities needs global e-infrastructure architecture guidance for avoiding obstacles for global sharing in the future.