



Germany in GEO - GEO in Germany

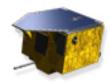
Jens Danzeglocke

D-GEO Office German Space Agency at DLR EuroGEO Workshop 2 October 2023, Bolzano

Elements of German contributions to the GEOSS









ARGO

Infrastructure for Earth Observation

- Operations of national & international networks
- National EO Programme (Space)
- Contributions to European programmes, e.g.:
 Copernicus, Research Infrastructures (ICOS etc.), ESA, EUMETSAT
- Contributions to international Organizations and programmes, e.g.: ARGO, WMO, CEOS

Research and Development Programmes

Cooperation for Economic Development





Germany in GEO – GEO in Germany



Germany supports GEO and its objectives

- Technical & scientific contributions and data
- Contribution to GEO Secretariat (Trust Fund etc.)
- Contributions to GEO Initiatives and Working Groups
- National implementation of GEO principles

BMDV* is tasked with national Implementation

- National coordination structure "D-GEO"
- National implementation plan
- links to long standing interministerial body for geo-information (IMAGI)
- D-GEO Secretariat at DLR

*Federal Ministry for Digital & Transport















Why D-GEO?

- Contributing to the success of GEO and to achieving ist goals
 - Make national observation systems available
 - Bring in German expertise in GEO Initiatives
 - Stimulate and coordinate capacity building activities
 - Pursue GEO data sharing principles at national level
 - Foster European level activities
- Engage national users and contributions to GEO
 - improve public services
 - encourage scientific exploitation
 - stimulate commercial services
- Coordinate national interests in EO
 - research, technology, standards, data policy
- Create visibility and opportunities for German activities at global level



D-GEO Working Group



















Bundesanstalt für Gewässerkunde













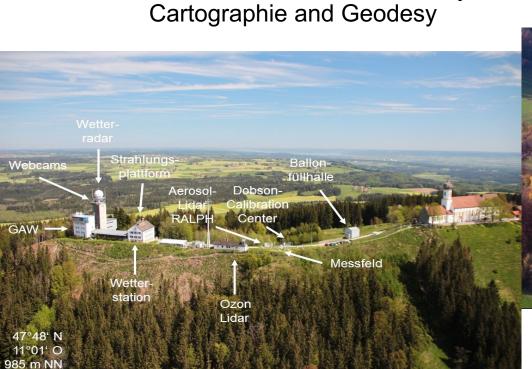
Bundesamt für Kartographie und Geodäsie

and many more...



Three annual Meetings

- D-GEO meets at changing host organisations
 - 6/2022: DWD Mountain weather observatory Hohenpeißenberg
 - 10/2022: GIZ (International Cooperation)
 - 3/2023: Alfred-Wegener Institute (Polar and Ocean Research)
 - 6/2023: Geodatic Observatory Wettzell of the Federal Agency of Cartographie and Geodesy







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Connecting the German Data Infrastructure GDI-DE and GEOSS





Contributions to GEO Activities

Participation in GEO Programme Board, ExCom (2024/25), GEO WGs

Contributions to GEO Flagships

- GIZ hosts the GEO-LDN Secretariat and leads one of three sub-groups together with UNCCD
- Federal Ministry of Food and Agriculture (BMEL) supports program coordination and a strategy for sustained operations of GEOGLAM
- Geoscience Institute GFZ hosts GFOI programme office for R&I activities (funded by ESA)
- iDiv Institute hosts GEOBON Essential Biodiversity Variables (EBV) portal

Other contributions

- Federal Institute for Hydrology hosts several international data centers (GRDC, ISMN, GEMS)
- AWI leads ArcticPASSION (Hor2020 project) related to ArcticGEOSS
- GEOMAR co-chairs GOOS
- DLR participates in CEOS and its WGs
- etc.



Bonus Slides

Thank you for your attention!

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Recommendations of the German Implementation Plan

- Building/expanding the national SDI
- Sustaining information and systems in the long term
- Implementing international standards, linking with GEOSS
- National coordination
- Acting across disciplines and departments
- Using modern EO nationally
- Developing new EO applications
- Establish more liberal data policies
- Capacity Building
- Tie national activities to GEO

Technical foundations

National Coordination

Support EO application

International activities



Working methods

- Flexible and open structure
- Resourced secretariat
- Annual workplans and reports, implementing the national plan
- Three annual meetings at different host organizations
 - Pursuing annual workplans
 - Promoting GEO at host organization
 - Workshop with host organization on GEO opportunities
- No dedicated programme funding working/coordinating with research and development agencies and funding organizations
- Close coordination with Copernicus and other programmes at Eureopean level

