

German EO Missions, Strategy and Programmes living planet symposium Bonn 2022

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Knowledge for Tomorrow





Overall programmatic context of the German EO programme

Priorities

- Climate Action
- Renewable Energies
- Digitalisation
- Civil Security

Objectives

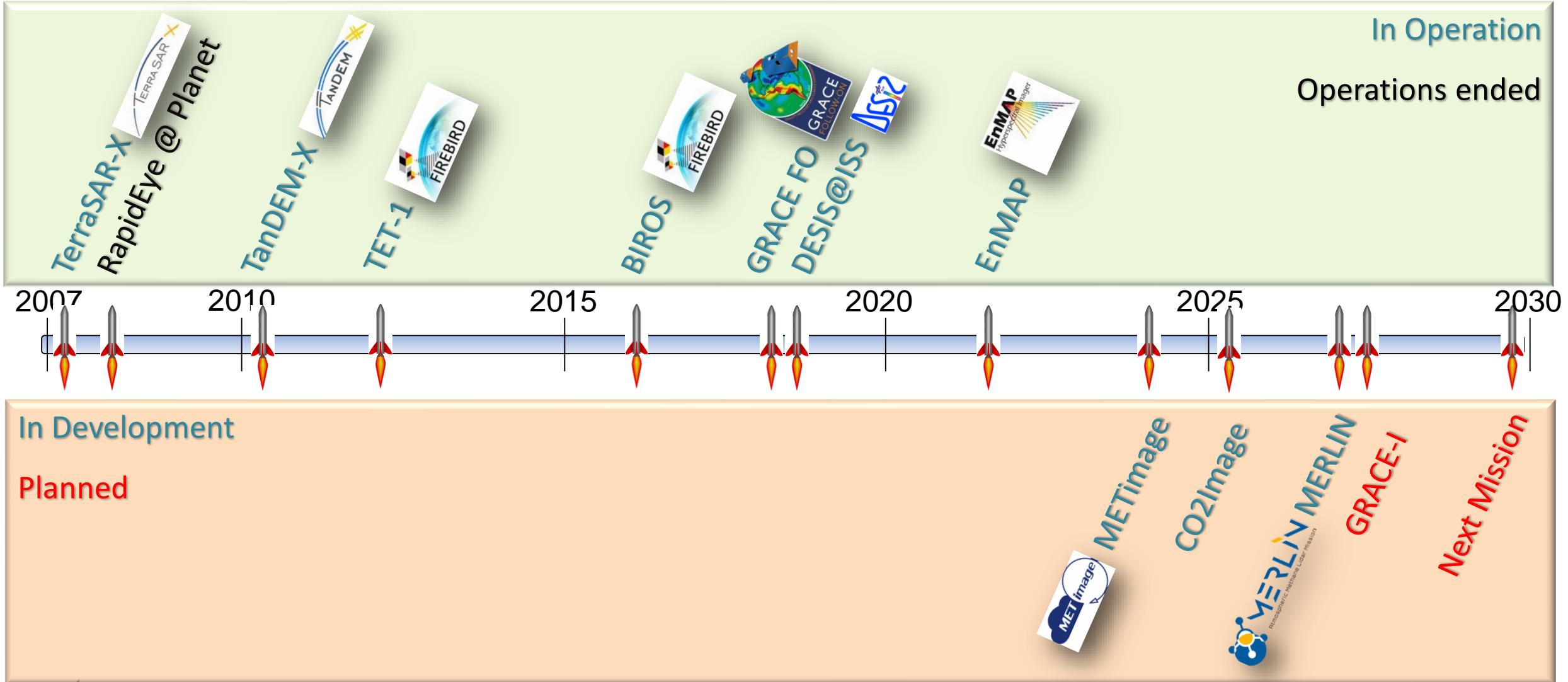
- EO missions to contribute to global challenges
- Sustainable end-to-end system capacity
- Ensure complementarity and synergy with EO programmes of ESA, EU and EUMETSAT

Ministries

- Economic Affairs and Climate Action
- Digital and Transport
- Defence
- Interior and Community
- Food and Agriculture, Education and Research
- Environment, Nature Conservation, Nuclear Safety and Consumer Protection

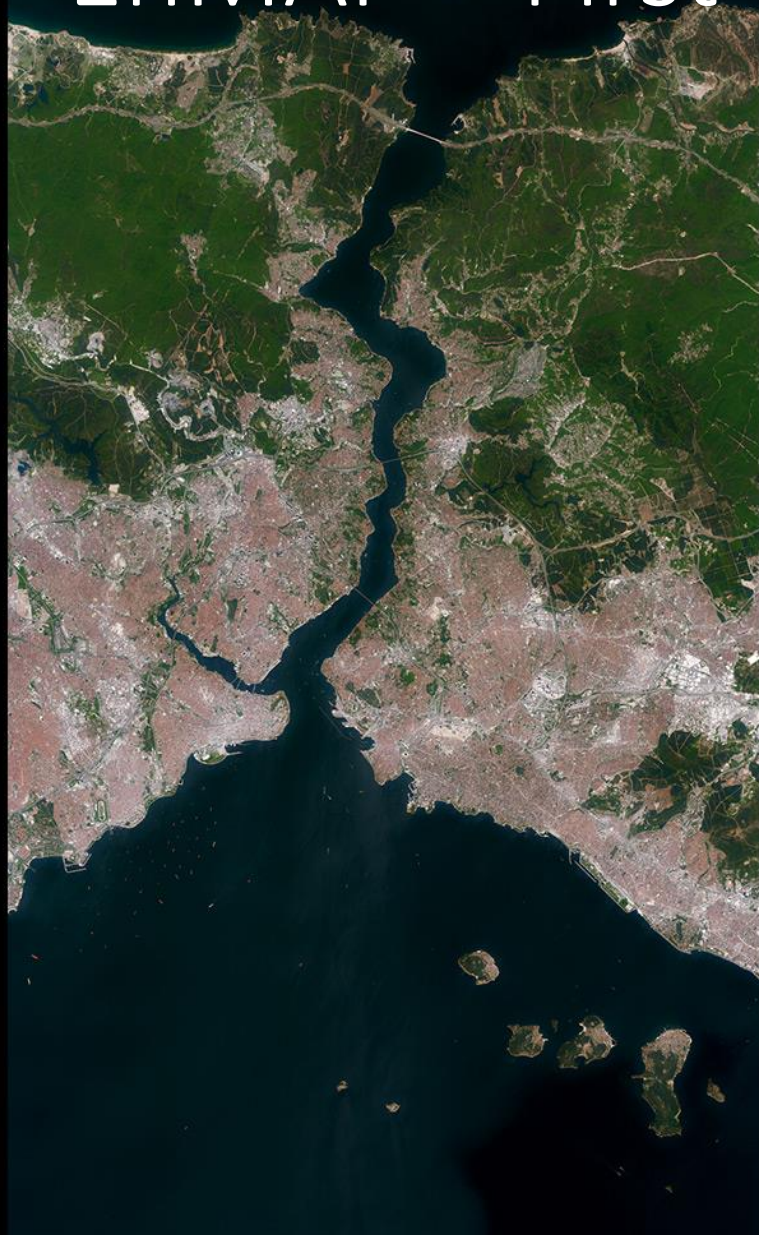


Overview German EO Missions



EnMAP – First Light!

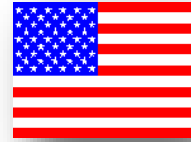
www.enmap.org



Credit: DLR

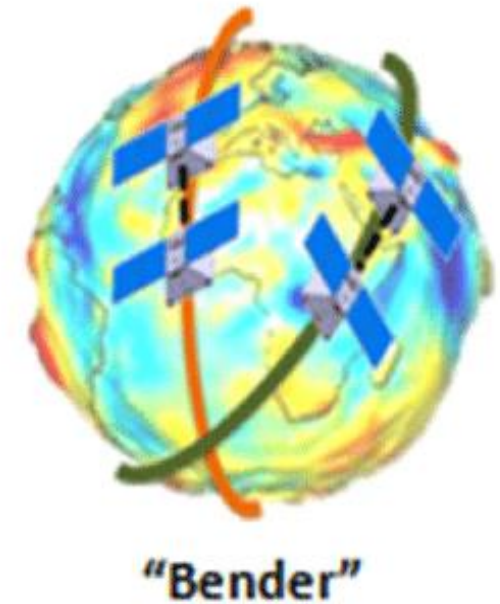
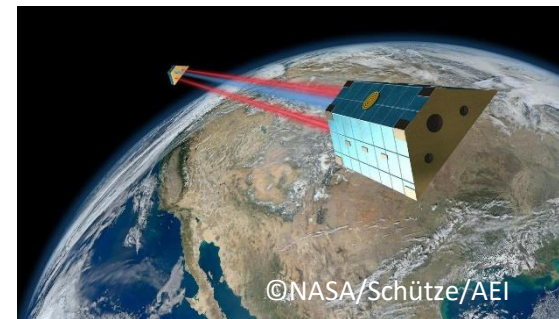
Outlook on future Missions in the German EO Programme

GRACE



• GRACE-I

- In continuation of GRACE (2002) and GRACE FO (2018) and first pair of a multilateral Bender-constellation MAGIC
- Mission focused on gravity and climatology - hydrology
- Fundamental data sets with important contributions to the modeling of the Earth System.



Call for Innovative Mission Concepts

- Provision of new data type/quality
- Addressing specific observation needs for key challenges
- Selection of concepts for phase 0/A studies



Complementary developments of critical technologies in radar, optics, LIDAR, gravimetry



Mission Exploitation

Platforms



EO and AI Programme

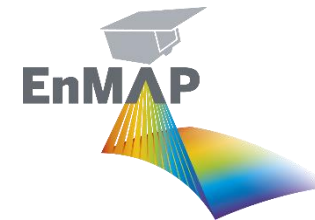


Artificial Intelligence
in Earth Observation



Slack Workspace for
community building

Application development



Green Deal & SDG
applications

Complementarity and Synergies with European and international programs



New Space in the German EO Programme

Increasing number of data providers

- **High** resolution data, flexibility, mapping capacities, temporal resolution
- **Lower** data quality
- **Increasing** Applications

Role of the German Space Agency at DLR

- Support of technology developments
- Support of business cases, e.g. through ESA InCubed+
- Support of clear distinction between institutional EO programmes vs commercial markets
- Data buy of innovative observation capacities for R&D



Knowledge for Tomorrow

