PUJIANG INNOVATION FORUM
浦江创新论坛

共享创新 共塑未来：Building an Open and Cooperative Global Sci-Tech Community
Sharing Innovation and Shaping the Future: 构建开放合作的全球科技共同体

2025 浦江创新论坛（第十八届）
THE 18th PUJIANG INNOVATION FORUM

2025.09.20-22
中国 • 上海 Shanghai, China

Space Sustainabulity Forum

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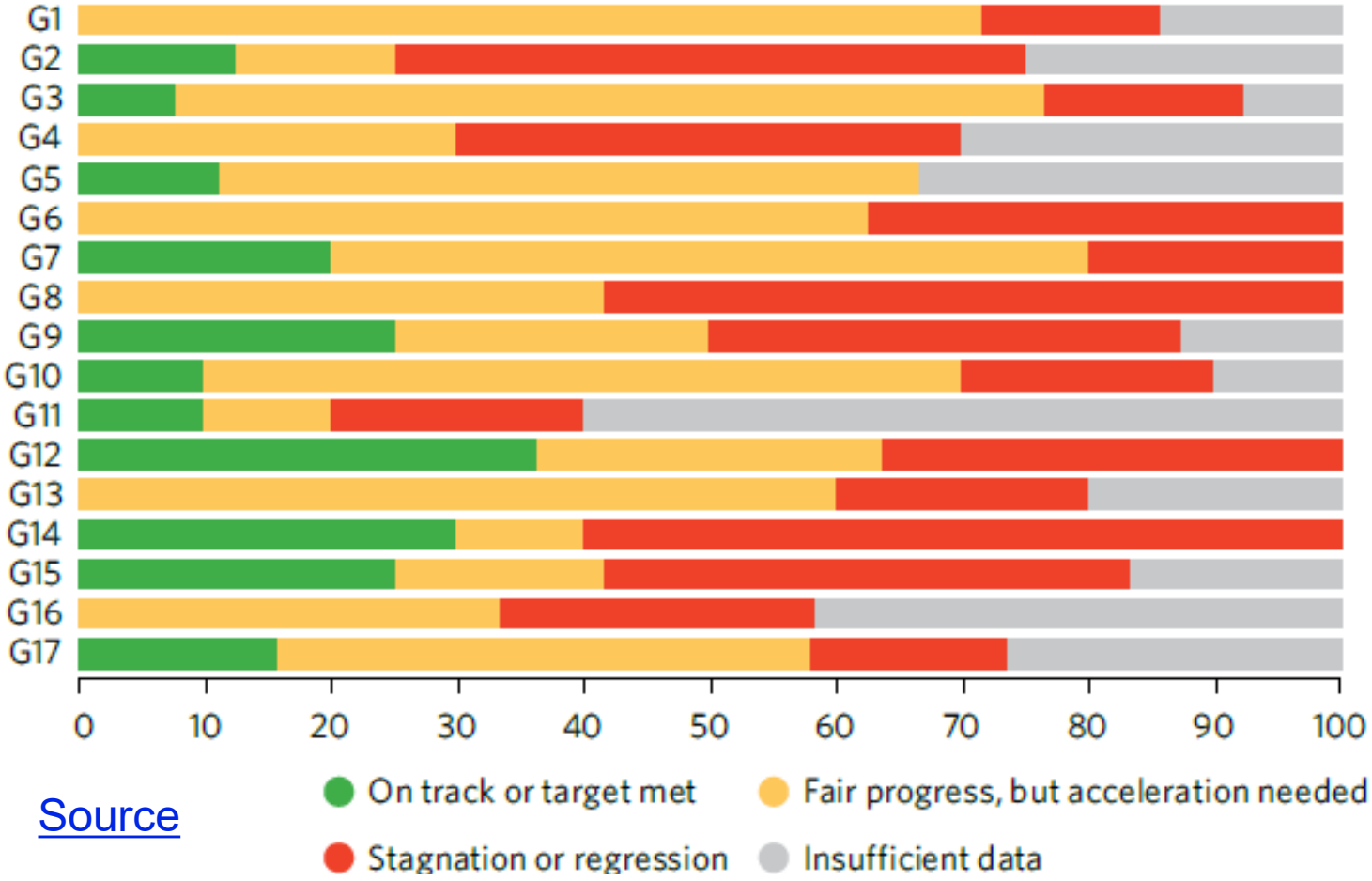
CBAS

An Open, Collaborative Platform to drive Global Sustainable Development according to UN 2030 SDG

Dr. Farid Gamgami
Vice Director Satellite Digitalization Laboratory

Challenges Implementing UN 2030 SDG

- **48%** targets exhibit deviations, and
- **35%** targets stagnation or regression below the 2015 baseline



Source

Challenges Implementing UN 2030 SDG as identified by the Chinese Academy of Sciences

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1) **Data and Methodology Gaps:**
   - Over 60% of the Sustainable Development Goal (SDG) indicator data are missing
2) **Fragmented Standards and Technical Barriers:**
   - Data gaps and dormant data & the value of available data remains largely underutilized.
3) **Subjectivity in Statistics and SDG Variability:**
   - New indicators and methods are urgently needed
4) **Complex Trade-offs and Synergies among SDGs:**
   - Addressing progress in one goal often leads to setbacks in another, highlighting the need for integrated solutions.

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中国科学院
CHINESE ACADEMY OF SCIENCES

- **Chinese Academy of Sciences (CAS)** founded CBAS
- CAS provides **scientific leadership**, infrastructure, and global collaboration channels
- CBAS acts as **an international platform** linking CAS research with global SDG needs.

CBAS
INTERNATIONAL RESEARCH CENTER OF BIG DATA FOR SUSTAINABLE DEVELOPMENT GOALS
可持续发展大数据国际研究中心

Tasks of CBAS:

- Develop and apply **big data, Earth observation, and AI** for SDG monitoring
- Build **open data platforms** to share global sustainable development data
- Provide **scientific evidence and policy advice** to UN agencies and governments
- Support **capacity building** in developing countries through training and tech transfer
- Facilitate **international cooperation** on data-driven SDG solutions.

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CASEarth
Big Earth Data Science Engineering Program

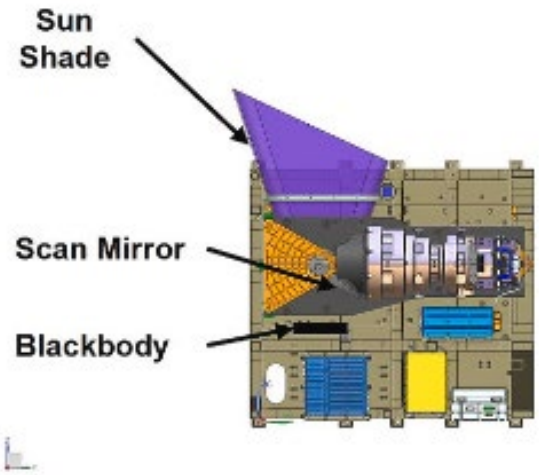
CBAS draws on over 1,200 researchers from 129 institutes via the Big Earth Data Science Engineering Program (**CASEarth**).

CASEarth develops the science → CBAS applies it globally for SDGs

SDGSAT-1

SDG Satellite SDG-1, known as SDGSAT-1, is the **first satellite developed specifically** for the implementation of UN 2030 Agenda for Sustainable Development (SDG), launched 2021

SDGSAT-1



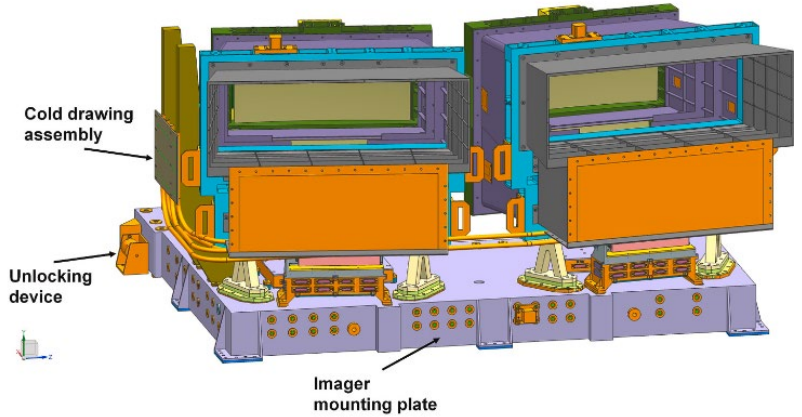
Payloads and Sensors Achieving Global Coverage in 11 days

1.Thermal Infrared Spectrometer

- Swath Width: 300 km
- Spectral Bands: 8–10.5 μm, 10.3–11.3 μm, 11.5–12.5 μm
- Spatial Resolution: 30 m

2.Glimmer Imager (Panchromatic & RGB)

- Swath Width: 300 km
- Panchromatic band: 444–910 nm, 10 m resolution
- RGB bands: 424–894 nm, 40 m resolution



3.Multispectral Imager

- Swath Width: 300 km
- Bands: Deep blue (374–427 nm, 410–467 nm), Blue (457–529 nm), Green (510–597 nm), Red (618–696 nm), Near-Infrared (744–813 nm, 798–911 nm)
- Spatial Resolution: 10 m

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How to participate?

Digital Sustainable Development Goals Programme (DSP)

Digital Sustainable Development Goals Programme

Digital Sustainable Development Goals Programme

- **Digital Sustainable Development Goals Programme (DSP)** is an initiative led by CBAS and coordinated by its **Director-General, Professor Guo Huadong**

- DSP was officially **endorsed by UNESCO in February 2025** as a key program under the International Decade of Sciences for Sustainable Development (IDSSD) 2024-2033.

How to Join

If you are interested in becoming part of the DSP, please contact

DSP Secretariat, International Research Center of Big Data for Sustainable Development (CBAS)
Email: cooperation@cbas.ac.cn
Website: http://www.cbas.ac.cn/

Digital Sustainable Development Goals Programme

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感谢你的关注

Thank you for your attention