GEOGLAN

Science Priorities Food Systems Science Cluster Meeting

> Living Planet Symposium May, 23, 2022



@G20_GEOGLAM www.geoglam.org

Post 2022: Mounting Policy Challenges



UNDRR United Nations Office for Disaster Risk Reduction

3 CLIMATE

17 PARTNERSHIPS FOR THE GOALS

2 ZERO HUNGER

Key actions to rise to the challenge

- New Science challenges
- Need for sustained solutions with continuity
- Scale up co-development efforts to less developed nations
- Better integration across sectors and science discipline's
 - Essential variables, terrestrial monitoring framework, align with modelling community

373



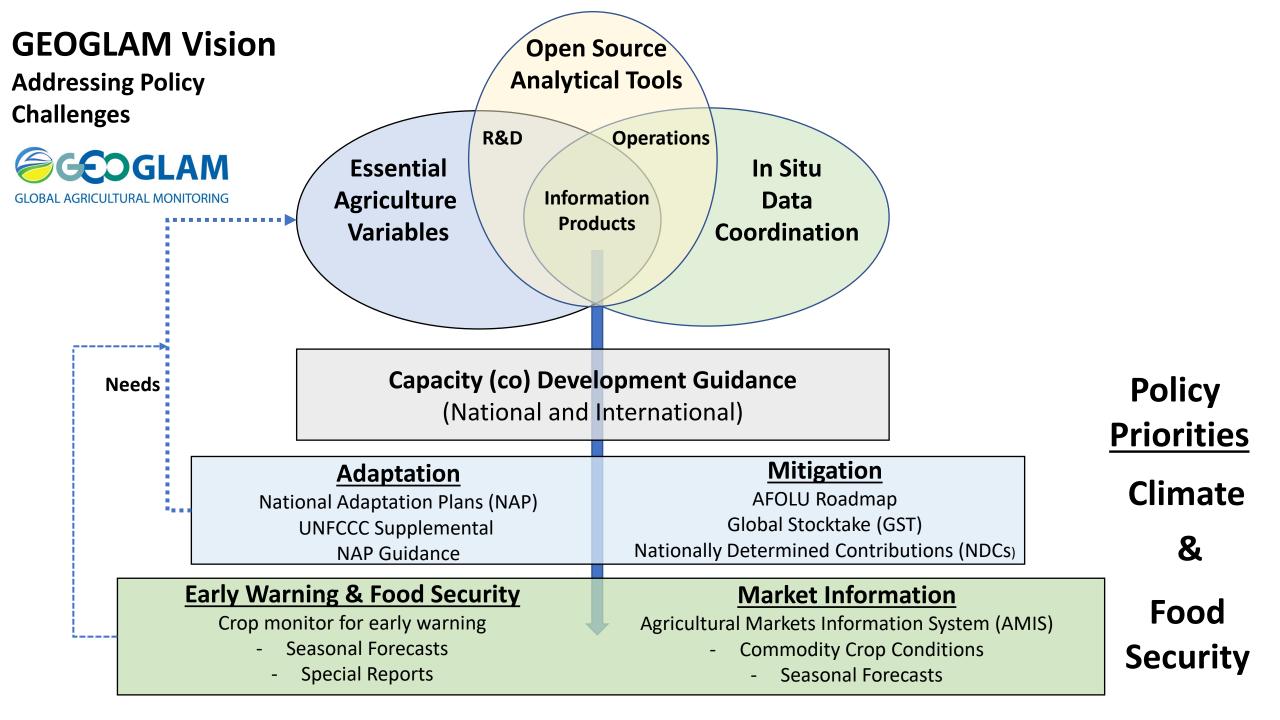
@G20_GEOGLAM www.geoglam.org

15 LIFE ON LAND

NO Poverty

∕∏∗ŤŤŕ∏

3 GOOD HEALTH AND WELL-BEING



Selected Science Priorities GEOGLAM Specific

- SAR for Agriculture Monitoring, going the last mile to operations
 - Sen2Agri, Sen4CAP and Stats type approach to the development of open SAR tools
- Operations 2.0, Resilience of Observing Systems
- Product Validation and intercomparison
 - Making sense out of the plethora of products available
- Yield Estimation, Forecasting and Gap
 - Understanding and Monitoring Crop Yield particularly in Smallholder Systems
- New Missions and Constellations
 - E.g. Hyperspectral (PRISMA, ENMAP, etc)

Integrated Challenges

- Development of change methods and metrics
 - Moving from one-off products to rigorous change assessment
- Systematic approaches to information development
 - Essential Variables State and Change
 - Continuity and Sustainability of products for decision support
- Integration across the AFOLU Sectors
 - Information integration
 - Development of a terrestrial monitoring framework

GEOGLAM al Agricultural Monitoring

@G20_GEOGLAM www.geoglam.org