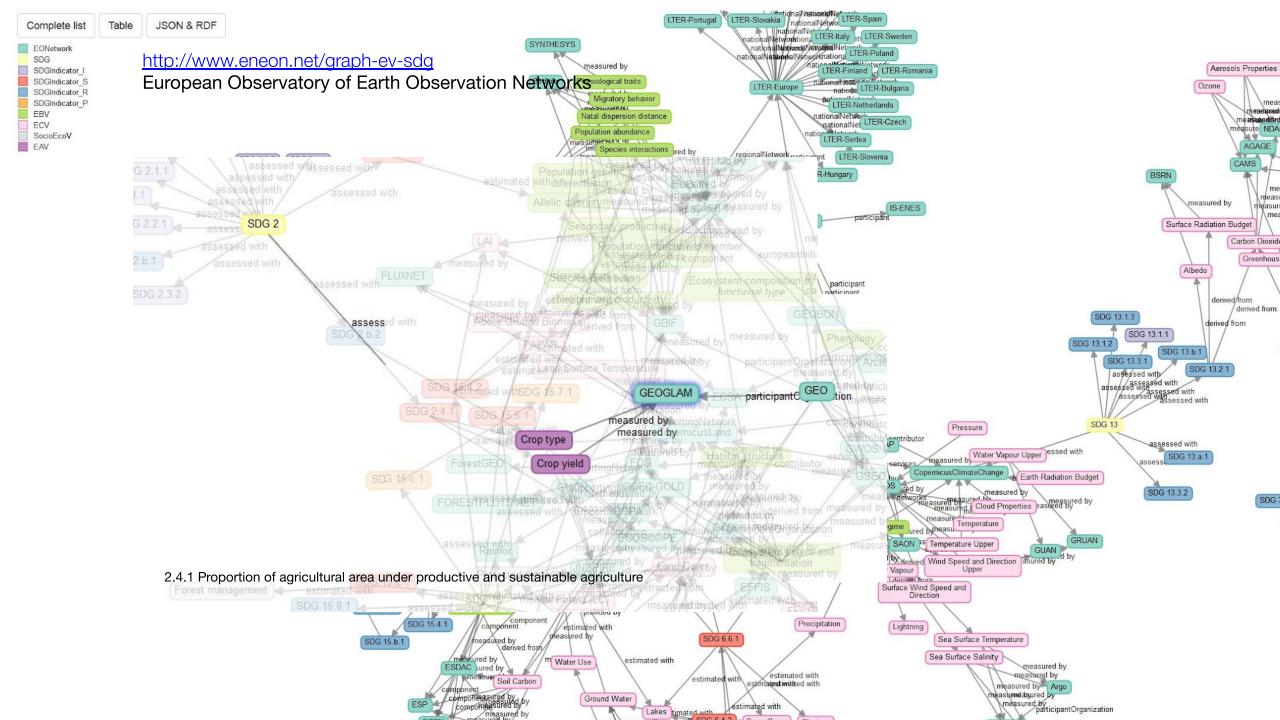


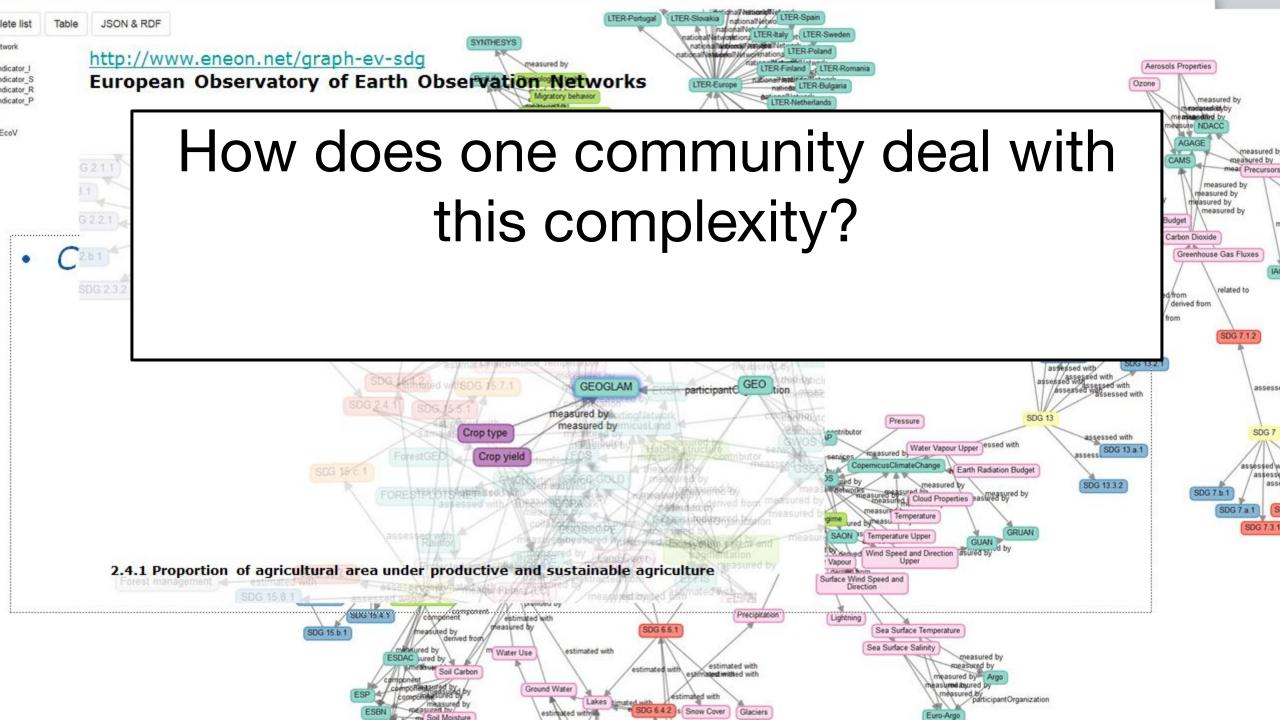
3.2 CEOS-GEO Coordination

CEOS Support to GEOGLAM Essential Agriculture Variables

Ian Jarvis
Director GEOGLAM
SIT-35 Virtual Meeting
26 March, 2020







How Does One Community Deal with the Complexity of the Policy Landscape?

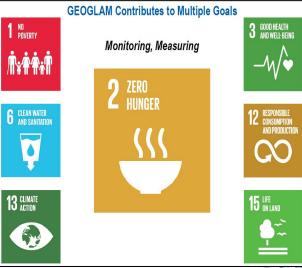
- Information produced by the GEOGLAM community can support a multitude of policy targets
- Almost all targets and goals require information integrated across multiple science communities
- Need for a common approach across communities to enable integration and information sharing

GEOGLAM believes Essential Agricultural Variables are the way forward











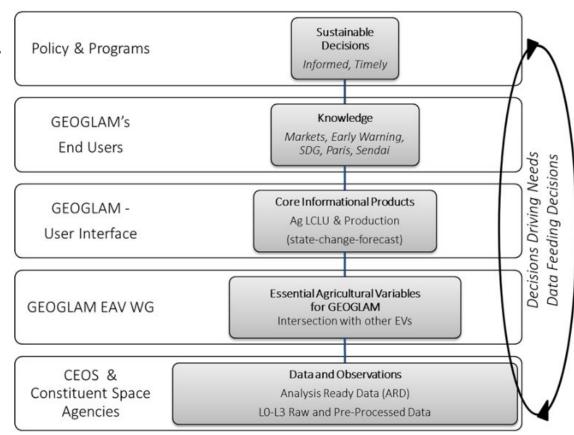
Essential Variables in Support of Multiple Policy Drivers

Essential Agricultural Variables for GEOGLAM

- The concept of Essential Variables (EV's) suggests a <u>minimum</u> set of fundamental variables required to characterize state and change in a system
- EAV's are at a minimum a useful communication device, at best it allows us to reduce complexity when faced with multiple needs, focus our activities, and communicate our outputs in a way that supports coordination and integration with other science domains

High level Essential Variables

- Crop mask, type, area, condition and yield estimates/forecast
 - Within growing season, inter-annual to decadal
 - Next EAV working group meeting June 26, Ottawa





Implications for CEOS

- 1. EAV's driving data needs
- 2. EAV's driving R&D priorities
- 3. EAV's and potential implications for ARD-ARD+
- 4. EAV's and Support for SDG's, seeking a new paradigm

Final Point:

GEOGLAM requirements will grow and we would benefit from broader space agency representation on the CEOS-GEOGLAM Working Group



