3.2 CEOS-GEO Coordination
CEOS Support to GEOGLAM
Essential Agriculture Variables

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2.4.1 Proportion of agricultural area under productive and sustainable agriculture
How does one community deal with this complexity?
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 Agricultural Variables for GEOGLAM

- The concept of Essential Variables (EV’s) suggests a minimum 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**