

An aerial photograph of a rural landscape. In the upper right, a house with a purple roof and a driveway is visible. Below it, a field of green crops is planted in neat rows. To the left, a road curves through a grassy area with several trees, some of which have light-colored blossoms. The lower half of the image shows a large field of green crops, possibly corn, with a road running alongside them. The overall scene is a mix of residential and agricultural land use.

LANDSENSE

**A Citizen Observatory and Innovation Marketplace
for Land Use and Land Cover Monitoring**



Secure Dimensions

**The LandSense Federation –
A solution for GEOSS Data
Sharing?**

GEO XIV – Washington D.C.

24 October 2017

Andreas Matheus

Engagement in LandSense

- ① Participate as citizen scientist
- ② Engage as application developer
- ③ Use LandSense apps, services, APIs and data sets
- ④ Provide services, APIs or other tools

The LandSense Federation

- Expanding the modern marketplace concepts from Google et.al. with SAML2 compliant authentication
- Login options with LandSense partners, Google, Facebook and Academic Federations* via eduGain
*: Currently connected to DFN-AAI test system
- LandSense Authorization Server is the central place to register your applications for improving LULC -service providers do not register!
- LandSense Authorization Server is brokering federation identities to OAuth2 for access to protected resources (i.e. services and APIs)

A solution for GEOSS Data Sharing?

- Requires GEO to operate a coordination center and manage the Circle of Trust in the federation
- Login options with GEO partners, Google, Facebook and Academic Federations via eduGain
- GEO Authorization Server is the central place to register applications for boosting the use of GEOSS - service providers do not register!
- Service Providers can simply accept OAuth2 access tokens released by the GEO Authorization Server and make access decisions for protected resources



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