

# Day 1

## Welcome

Animation: [Tom Landry](#) (CRIM)

After a few words from CRIM general manager and/or scientific director, we will introduce the general context of the workshop and propose the 4-day agenda to the participants. Suggestions or improvements will be noted. We will take a few minutes for introductions of the participants, as we expect most of them to be present on Monday morning. External observers are also welcome to introduce themselves.

**References:** N/A

## Germany and Canada activities

Animation: [Tom Landry](#) (CRIM), [David Huard](#) (Ouranos)

This session is meant to further explore the network of institutions, activities, programs and projects linking together the Canadian and German participants. It is meant to present our respective institutions, to find unexpected links in individual, corporate and scientific networks. The outcome will take the form of a cartography that will help understand the larger Earth Sciences context we're participating in.

**References:**

- [Ouranos](#) (PCIC, ECCC, LRZ, CCCS, etc.)
- [CRIM](#) (CSA, NRCAN, OGC, etc.)
- [DKRZ](#) (Copernicus, DLR, FU Berlin, etc.)
- [GIZ](#) (COMIFAC, UN-REDD, etc.)
- [ESGF](#)
- Others (GERICS, PIK)

## Demonstrations

**Animation:** [David Byrns](#) (CRIM), [Félix Gagnon-Grenier](#) (CRIM), Carsten Ehberecht (DKRZ)

In this session, we will demonstrate the PAVICS platform in its current state, including Magpie and Twitcher components. We will demonstrate the Testbed-13 Earth Observation Clouds prototype delivered last December. We will demonstrate point cloud processing in WPS processes delivered for NRCAN. Finally, we will demonstrate the latest features from Birdhouse. The desired outcome is a better sense of the progress made in the last year and to stimulate ideas for upcoming days.

**References:**

- [Outarde demo server](#)
- [Magpie-Phoenix-Twitcher demo](#)
- [OGC TB-13 demo assets](#)

## Architecture: Middleware

**Animation:** [David Byrns](#) (CRIM), Carsten Ehberecht (DKRZ), [Tom Landry](#) (CRIM)

In this session, we want to tackle the important issue of security middleware. CRIM advanced the Birdhouse component named Twitcher that manages authentication and acts as a proxy. The Phoenix component provides UI and tools for several services of Birdhouse and works in tandem with Twitcher. CRIM also proposed a new component called Magpie responsible for authorization to resources. The desired outcome is a better understanding of components limitations and interactions, as well as considering needs and approaches of federated infrastructures, including the use case presented by OGC in its Testbed-14. The session will be followed by a planning session to identify coding priorities and to log and start the required work.

**References:** TODO