

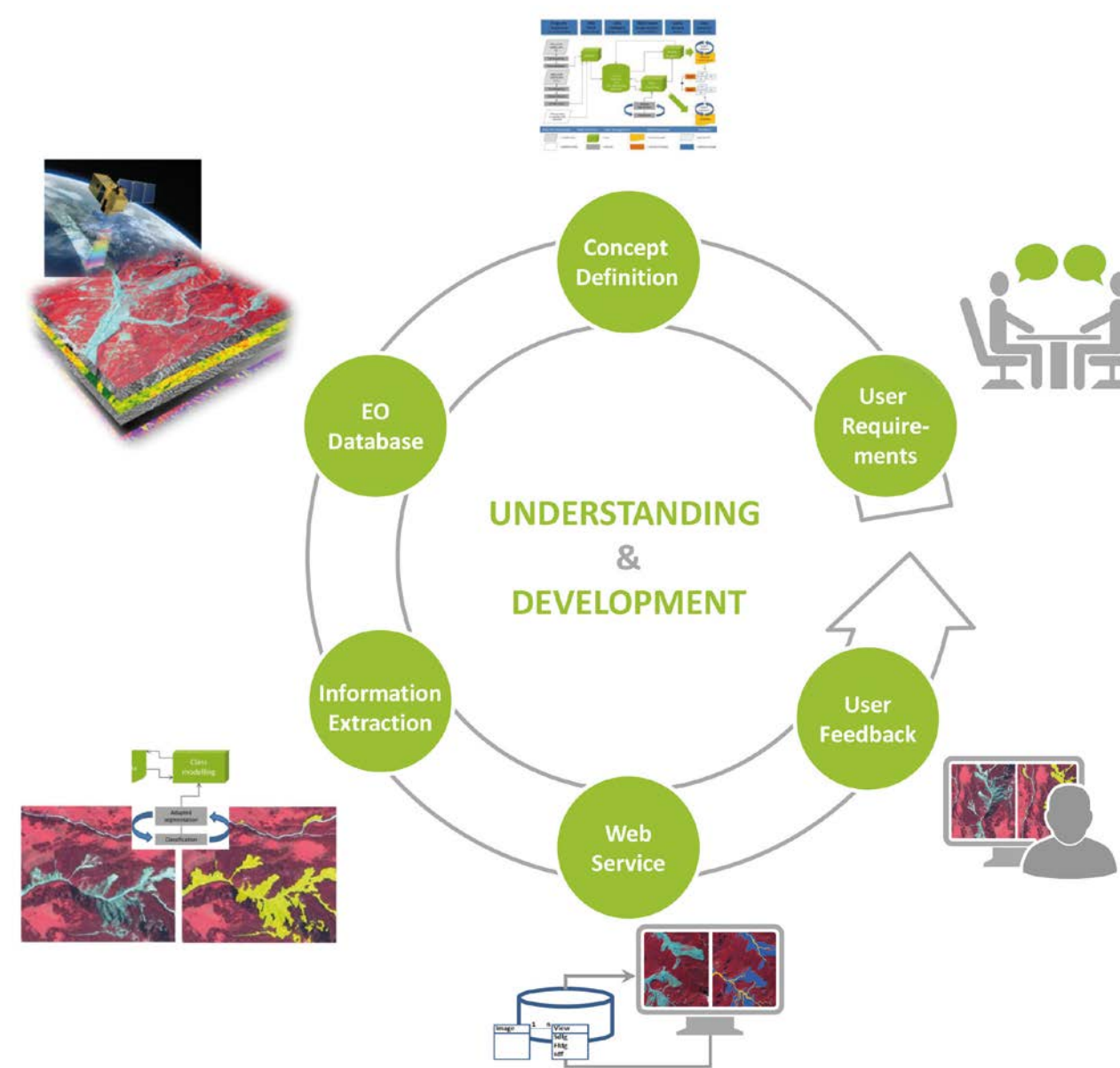
VALIDATING THE USABILITY OF AN INTERACTIVE EARTH OBSERVATION BASED WEB SERVICE FOR LANDSLIDE INVESTIGATION

Florian ALBRECHT^{1*}, Elisabeth WEINKE¹, Clemens EISANK², Filippo VECCHIOTTI³, Daniel HÖLBLING¹, Barbara FRIEDL¹ & Arben KOCIU³

¹ Department of Geoinformatics – Z_GIS, University of Salzburg, Austria; ² GRID-IT - Gesellschaft für angewandte Geoinformatik mbH, Austria; ³ Geologische Bundesanstalt (GBA), Austria
(*Corresponding author: florian.albrecht@sbg.ac.at)

Introduction

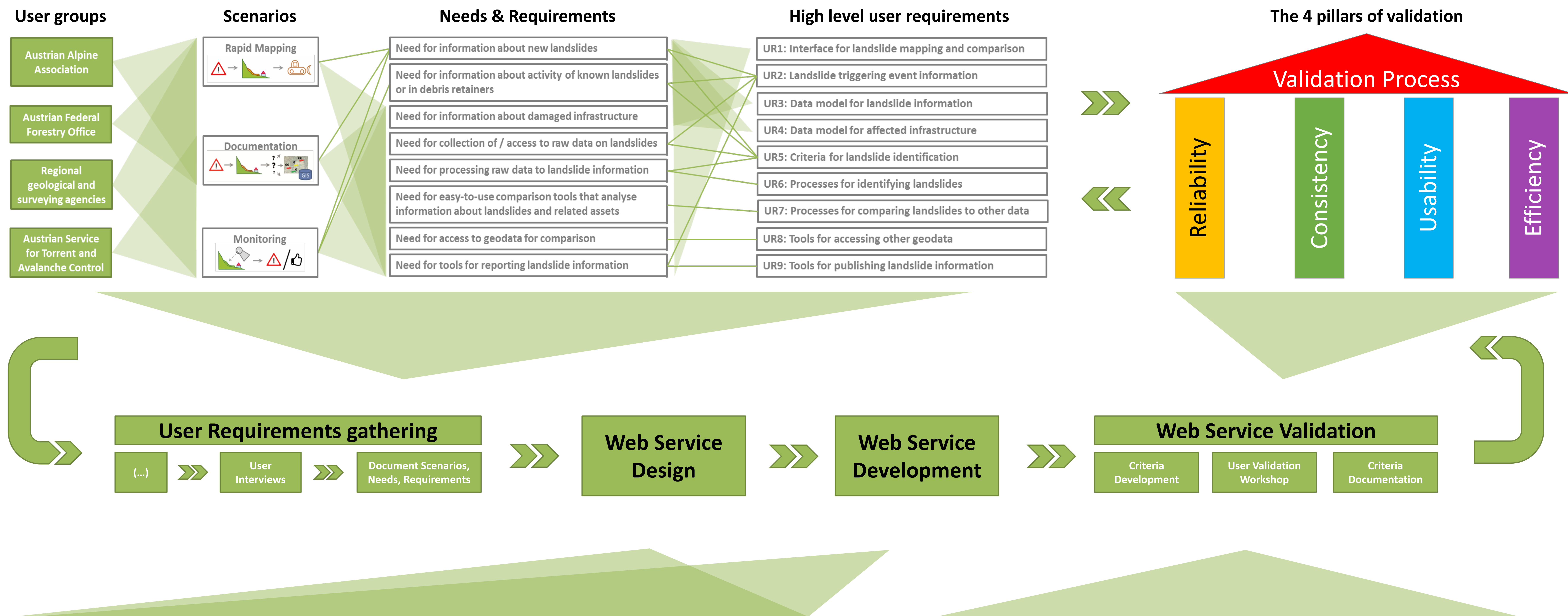
Regional authorities and infrastructure maintainers in almost all mountainous regions of the Earth need detailed and up-to-date landslide inventories for hazard and risk management. Landslide inventories usually are compiled through ground surveys and manual image interpretation following landslide triggering events. **For improving the collection of landslide information, we developed a web service that uses Earth Observation (EO) data and supports the required mapping and monitoring tasks.**



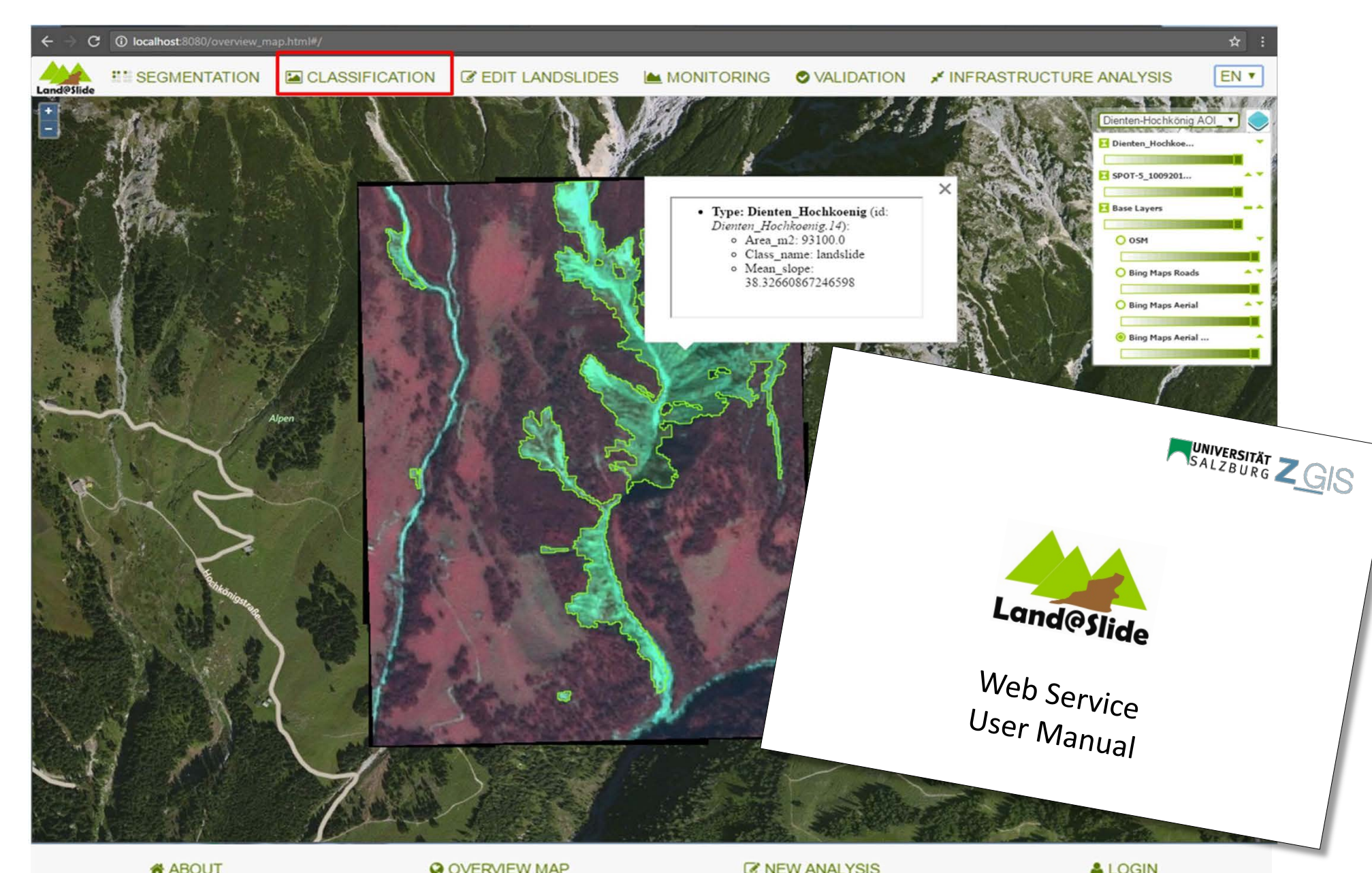
Next, a comprehensive **validation of the EO-based web service** is necessary in order to **judge the quality of our test development**. Apart from evaluating the achievable landslide information quality, the planned validation specifically **focuses on the usability** and user friendliness of the user interface of the web service.

Objectives & Approach

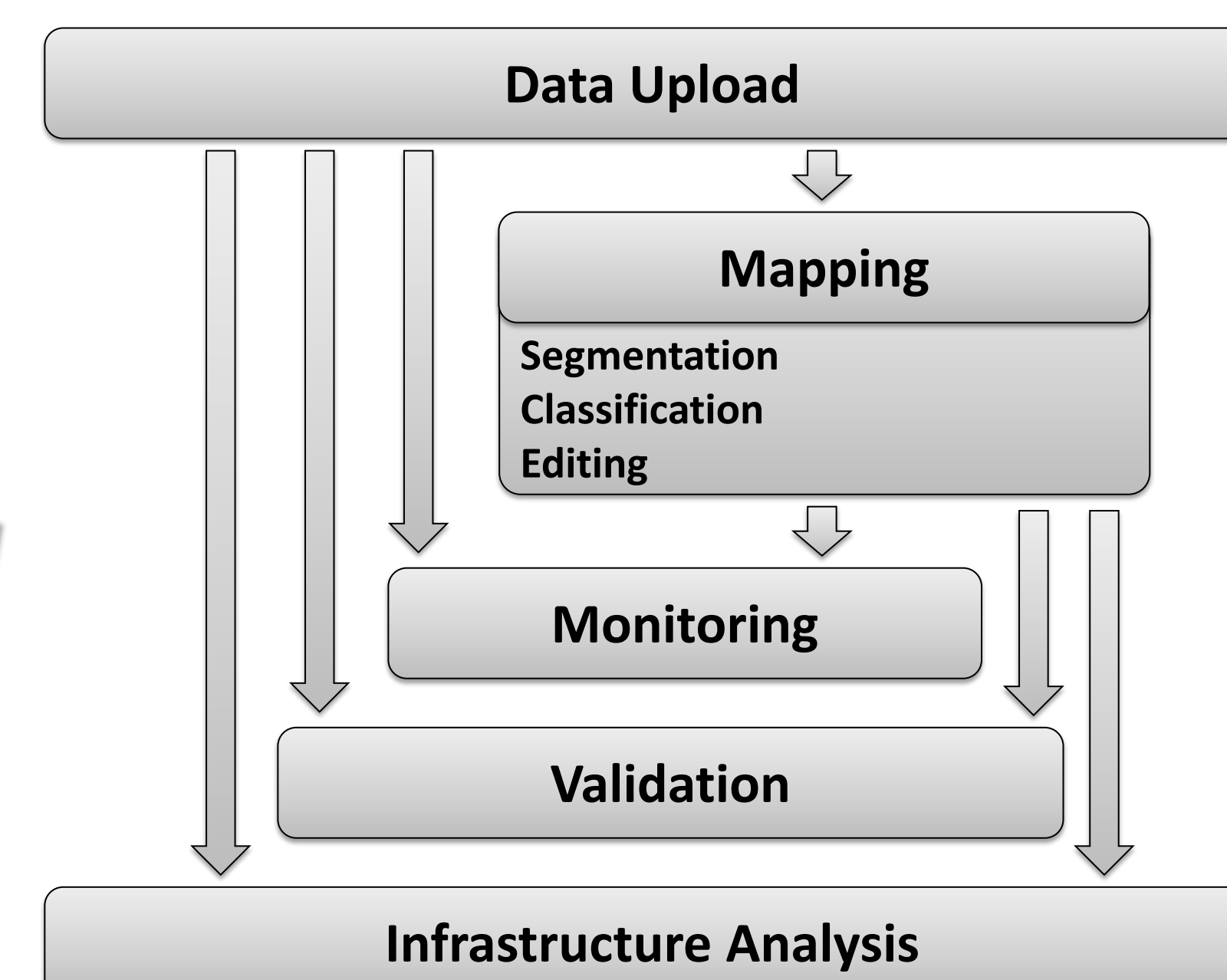
The validation of the EO-based web service for landslide mapping and monitoring intends to **gather feedback from users** as a basis for improving the web service and its associated documentation. The feedback is acquired with a user workshop and an online questionnaire that addressed validation criteria of usability and allow an improvement of the user requirements and further development of the web service.



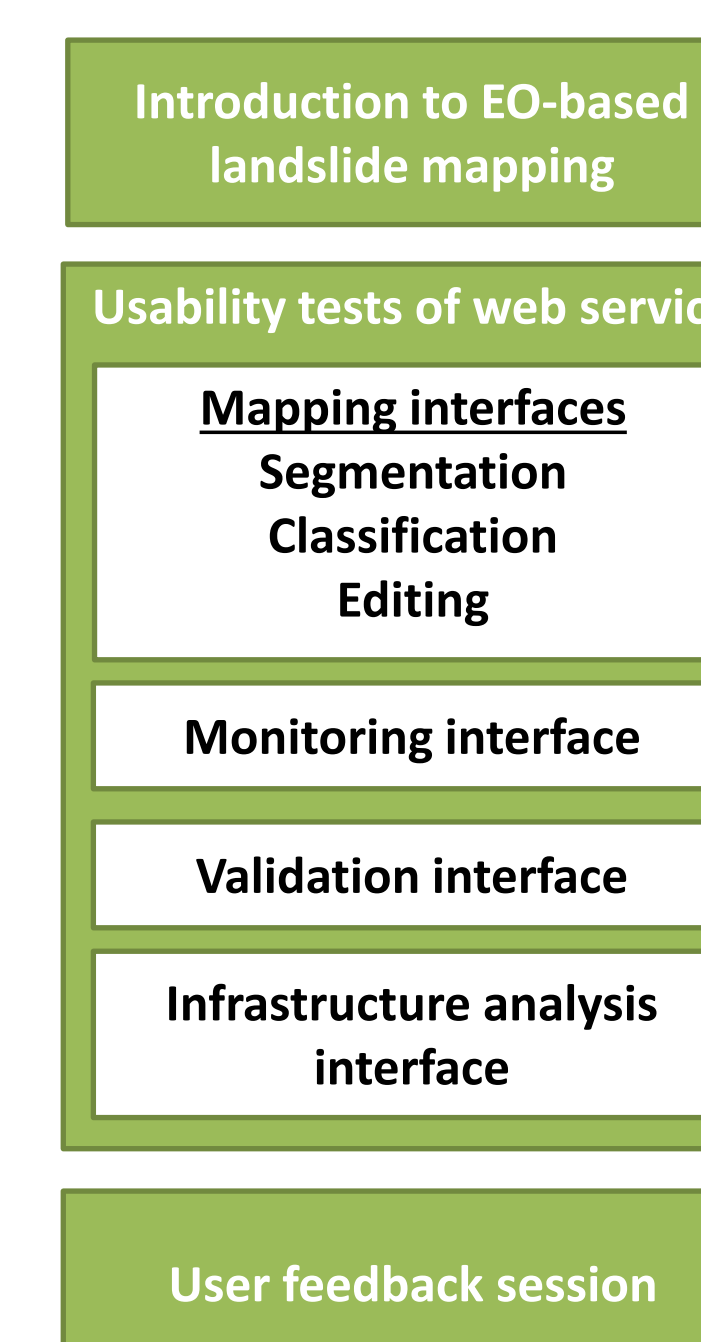
Web service user interface



Landslide web mapping and monitoring service modules



Workshop Agenda



Validation criteria documentation

Usability Criteria
Spatial coverage of the area of interest
Overview map
Readability
Legend symbols are clearly defined
Multilingual support
Metadata consistency
Tool usage is intuitive
Constraints related to access, use and sharing of information
Other criteria

Acknowledgements

This research has been supported by the Austrian Research Promotion Agency FFG in the Austrian Space Applications Program (ASAP 11) through the project "Land@Slide" (contract n° 847970).



<http://landslide.sbg.ac.at>

