ESA-LPS19

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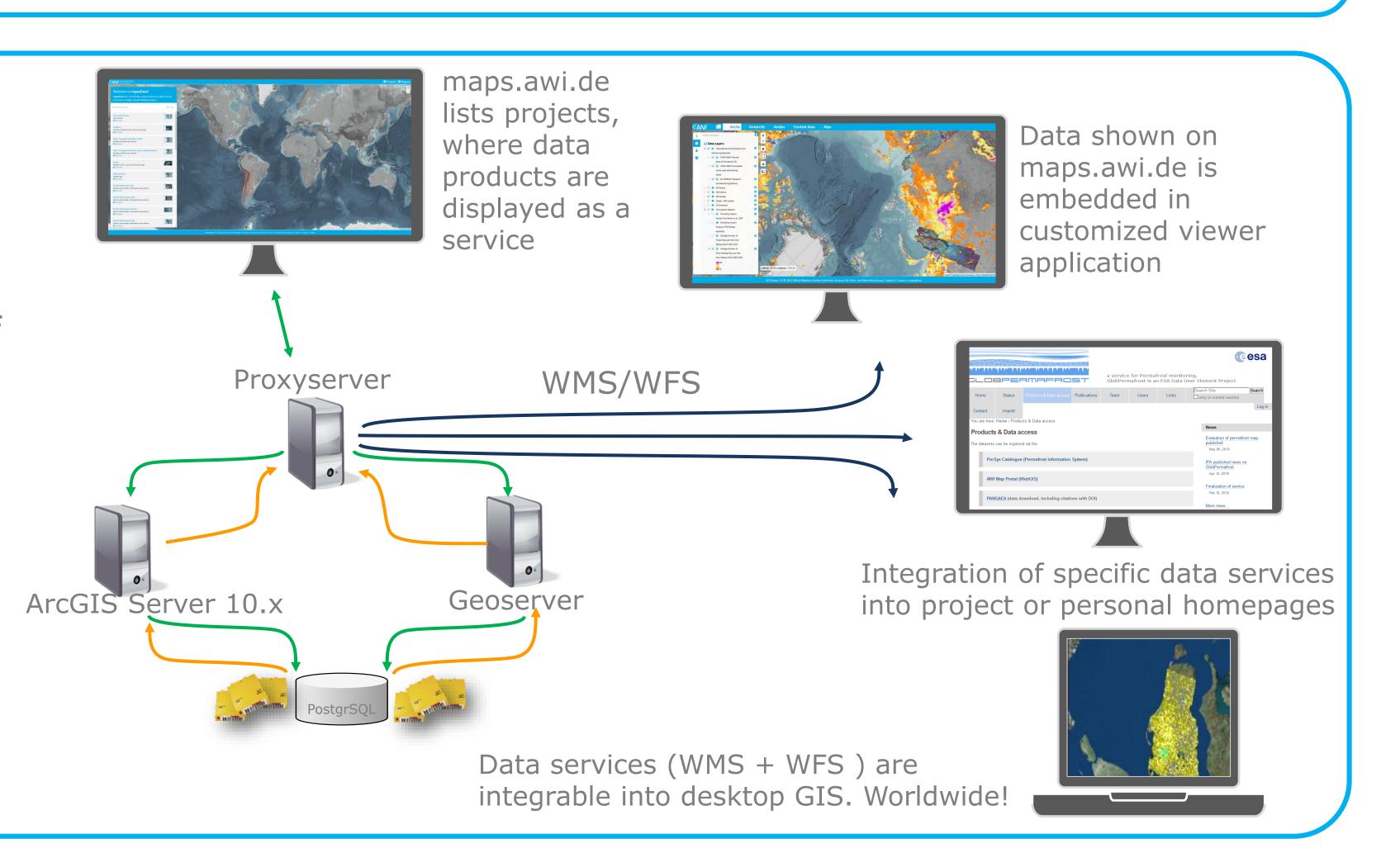
ESA GlobPermafrost -WebGIS based Visualisation of Remote Sensing Data

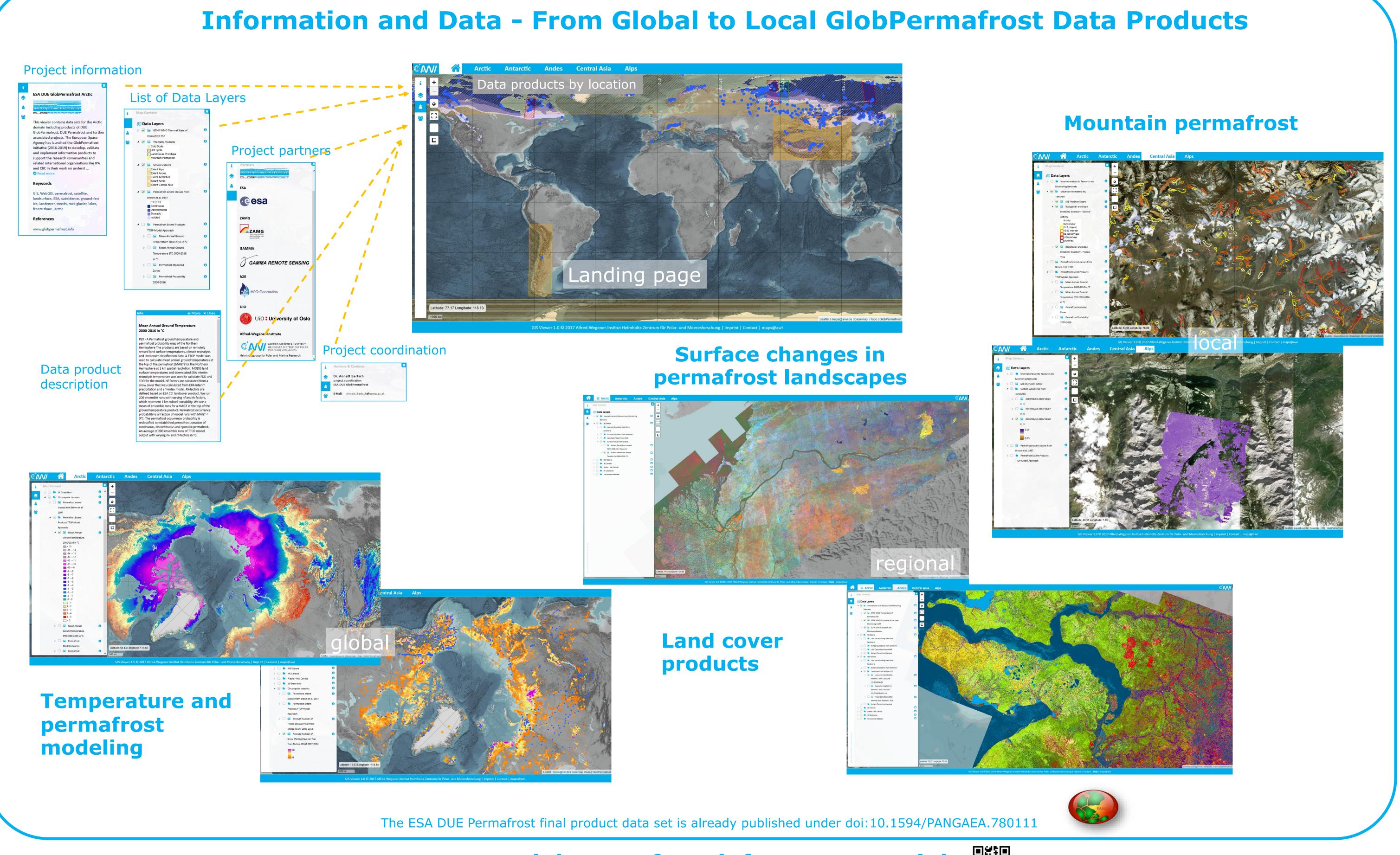
Motivation - The ESA (European Space Agency) project GlobPermafrost (www.globpermafrost.info) provides a remote sensing service for permafrost research and applications. The service comprises of data product generation for various sites and regions as well as specific infrastructure allowing visualisation and access to datasets.

The GlobPermafrost Permafrost Information System PerSyS is designed as an open access geospatial data dissemination and visualisation portal. PerSyS allows visualisation of a wide range of GlobPermafrost raster and vector products: land cover classifications, Landsat-derived trend datasets, lake and wetland extents, InSAR-based land surface deformation maps, rock glacier velocity fields, spatially distributed permafrost model outputs, and land surface temperature datasets.

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PerSys is hosted at AWI and technically realised upon GIS (Geographical Information Systems)-based Geodata Infrastructure (GIS-GDI@AWI). GIS server technology enables the digital publication and therefore visualization of multidisciplinary project data in the World Wide Web. GlobPermafrost datasets have been published as WebGIS services relying on OGC-standardized Web Mapping Services (WMS) and Web Feature Services (WFS). Due to this, all services are interoperable and can be integrated ArcGIS Server 10.x into various desktop GIS applications. All GlobPermafrost WMS are embedded in a JavaScript GIS viewer application based on a leaflet library.





www.globpermafrost.info or maps.awi.de















