



SAPIENS

knowledge transfer for external target groups



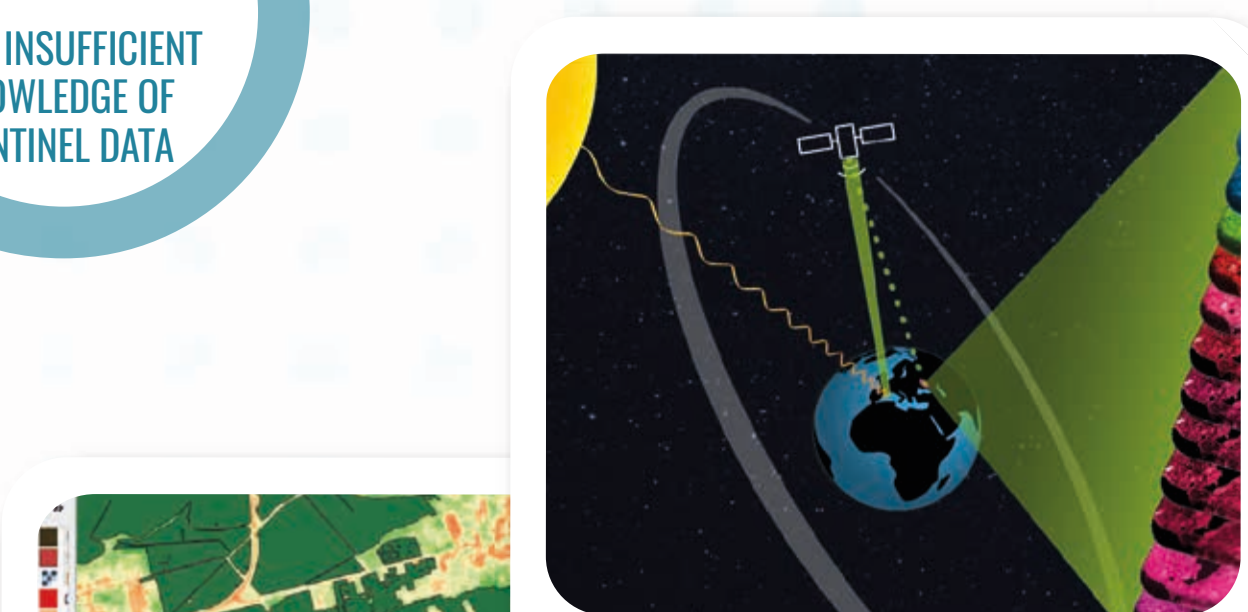
EVERYONE CAN UNDERSTAND SATELLITE REMOTE SENSING

Introduction

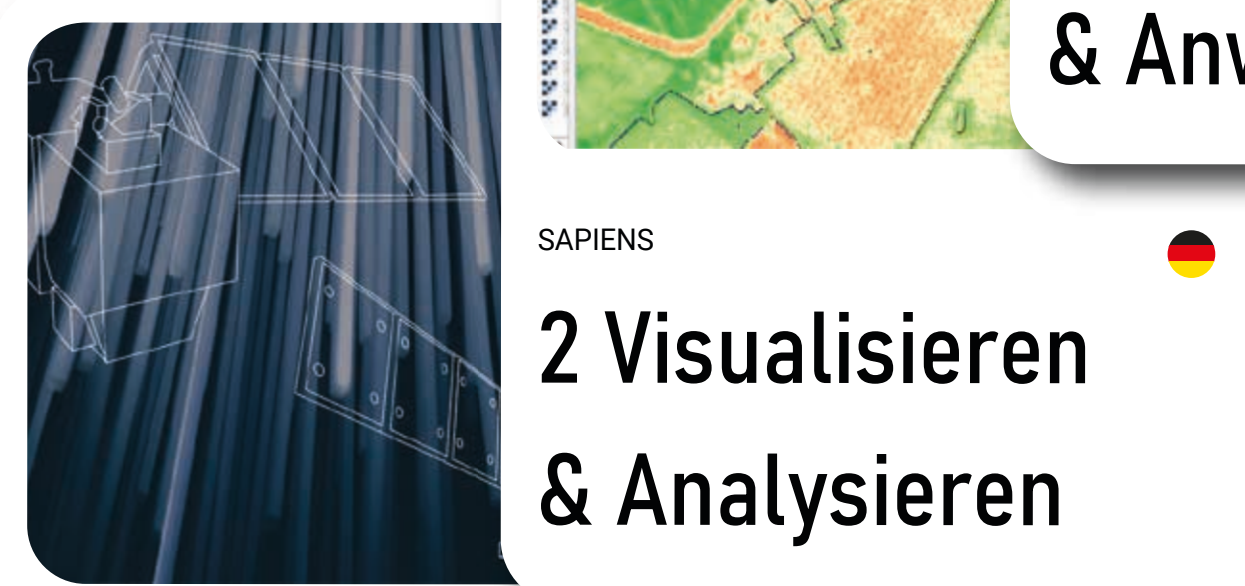
In order to bring satellite remote sensing data, such as the ESA Copernicus data and services, permanently and widely into practical use, it is necessary to provide inexperienced users with basic knowledge. This enables them to understand the potential of the data and thus to develop acceptance for new technologies and methods. Within the framework of the knowledge transfer project SAPIENS (Satellite Data for Planning, Industry, Energy and Nature Conservation), funded by the Helmholtz Association, target group-oriented training courses are being developed.

Needs & Demand

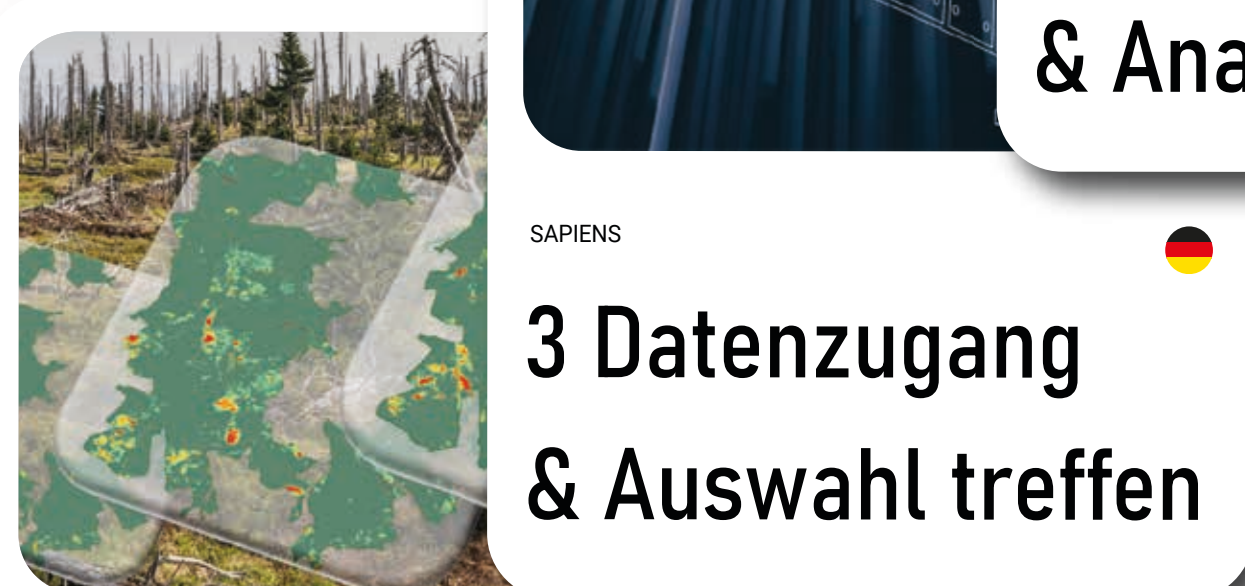
An online survey in winter 2021/2022 with 135 participants from (primarily) public authorities showed the high demand for training:



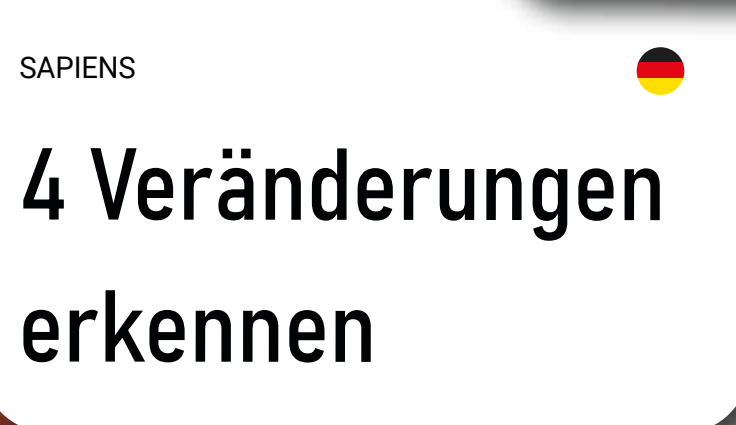
1 Grundlagen & Anwendungen



2 Visualisieren & Analysieren



3 Datenzugang & Auswahl treffen



4 Veränderungen erkennen

Change Analysis:

Module 4 shows which data are suitable for change analysis and which tools can be used to make changes visible over different time spans.

Data Access:

Modul 3 introduces data portals and explains how to search, download and open Sentinel-2 data.

Visualization and Analysis: Module 2 is about the elementary use of a GIS for the visualization and analysis of multispectral satellite data (Sentinel-2).

User Centred Concept

In close exchange with users, training needs are identified, and basic knowledge is made available in the form of interactive, live digital training formats in German language. Through an engaging teaching style, practical exercises and direct feedback and support during training sessions, SAPIENS aims to enable inexperienced users to work with the data in the long term and to develop fields of application independently.

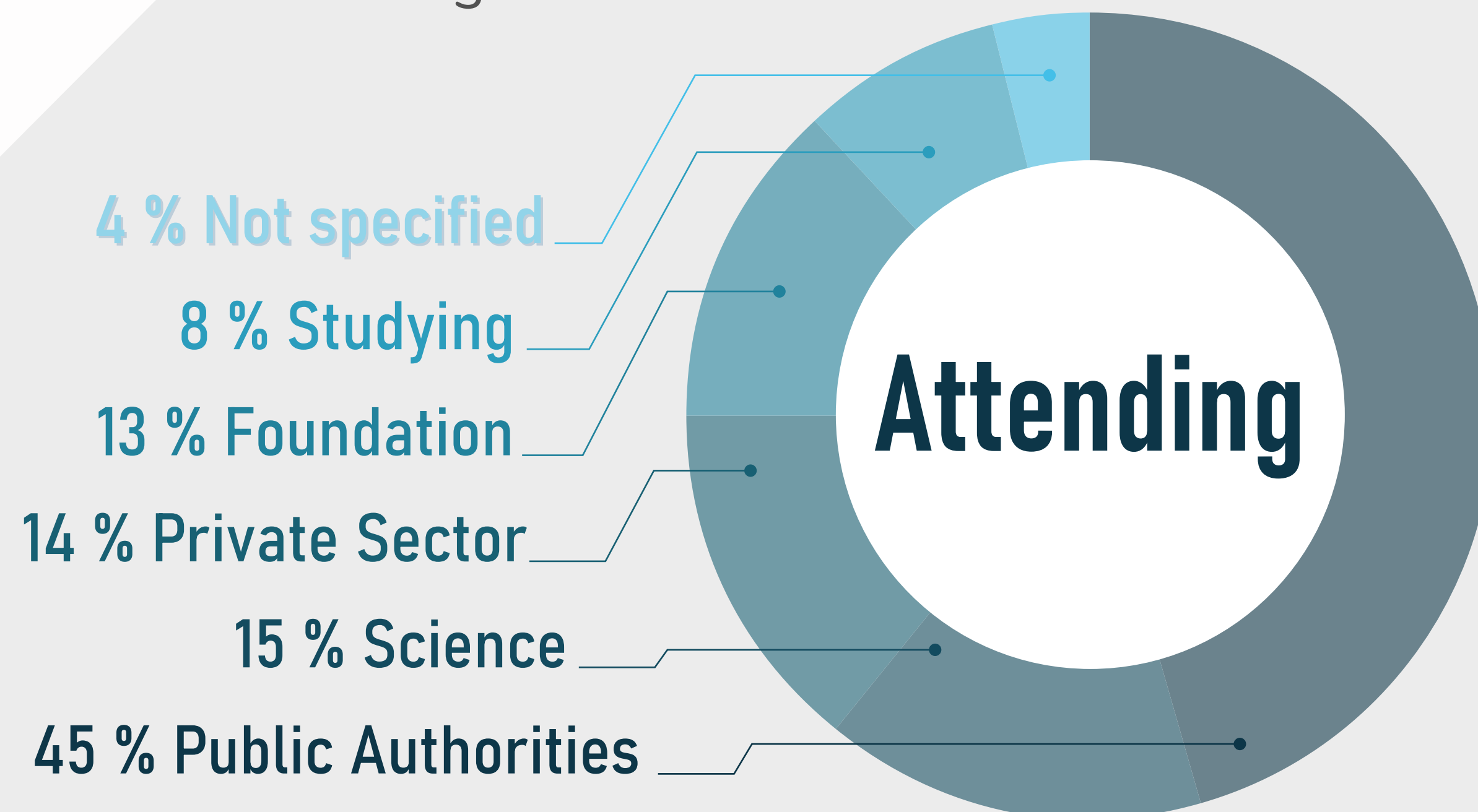
Training Modules

Remote Sensing Basics & Use Cases:

Module 1 explains the basics of multispectral remote sensing and the potential of satellite data is illustrated by real application examples.

User Groups

Within the framework of SAPIENS, 18 training courses were offered. All trainings were fully booked with a total of 322 registrations. The trainings were open to all interested people and participants came from the following fields of work:



In addition to SAPIENS, there are other remote sensing knowledge transfer projects at the GFZ with a focus on digital training formats for external target groups. More information about our projects and education initiatives can be found on the FERN.Lern web platform (<https://fernlern.gfz-potsdam.de/>).