OpenGeoEdu

E-Learning with Open Remote Sensing and Geodata

Henning Aberle, Michael Hovenbitzer
henning.aberle@bkg.bund.de  michael.hovenbitzer@bkg.bund.de

Background
More and more geodata are open. This also includes geodata and remotely sensed information as offered by the EU-Earth observation programme Copernicus. The joint e-Learning project “OpenGeoEdu” aims to exploit the potential of this information potential by an open online course. It covers a variety of current socio-spatial topics including monitoring of forests and assessment of urban areas, as also addressed by the UN-Sustainable Development Goals. The online project aspires to offer free and open quality education with a geo-spatial background.

Topics & Case studies
Implemented by the project partners
- Open Data
- Geographic Information Systems & Tutorials
- Electro Mobility
- Sound Pollution
- Biomass Potentials
- Land Use & Infrastructure
- Remote Sensing & Copernicus

Example applications
- Forest windthrow detection
- City trees & green space identification
- Urban land cover change

Goals
- Integration of e-Learning into study courses with geospatial background
- Utilization of open (geo-)data and platforms for everybody
- Interdisciplinary transfer of knowledge

Example applications
- Sentinel-2
- Elevation
- Imperviousness
- Forests
- Land Cover
- Open Maps

Summary & Outlook
- OpenGeoEdu is online and open for everyone (hosted at University of Rostock)
- Interdisciplinary and comprehensive expertise (potentially large circle of users)
- Courses currently in German language (English parts could reach a wider audience)
- Implementation of further case studies (also extendable by teachers and users)

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Further information
Federal Agency for Cartography and Geodesy
Department Geoinformation
Development and Remote Sensing
Richard-Strauss-Allee 11, 60598 Frankfurt am Main, Germany

www.opengeoedu.de
info@opengeoedu.de
https://twitter.com/opengeoedu

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