

Advancements in cloud based visualisation of geological models

Holger Kessler

British Geological Survey

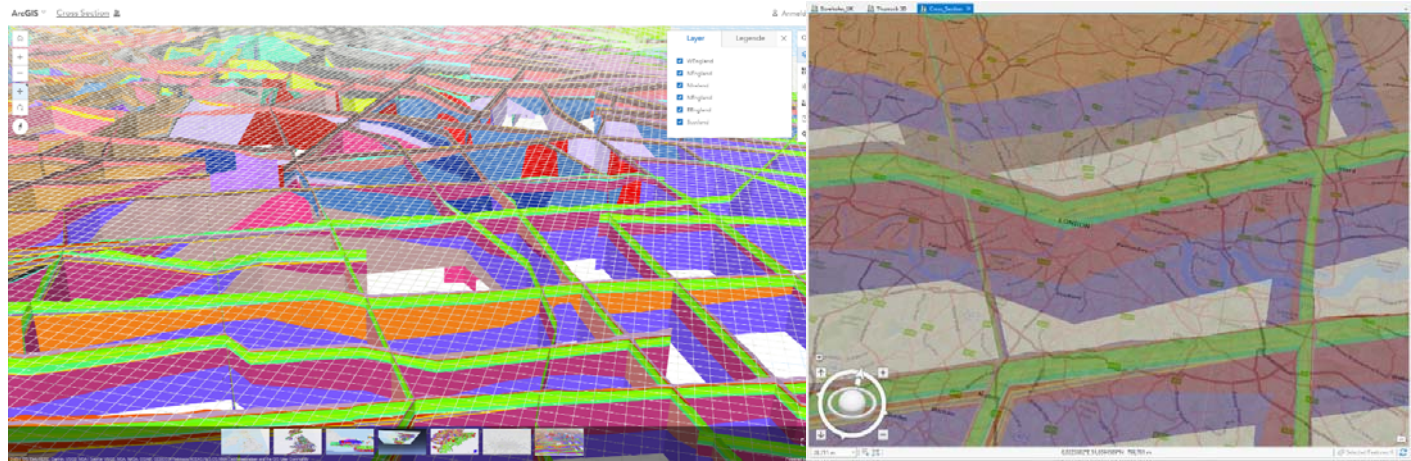
Holger Lipke

Esri Deutschland GmbH

Orléans, 22.02.2018

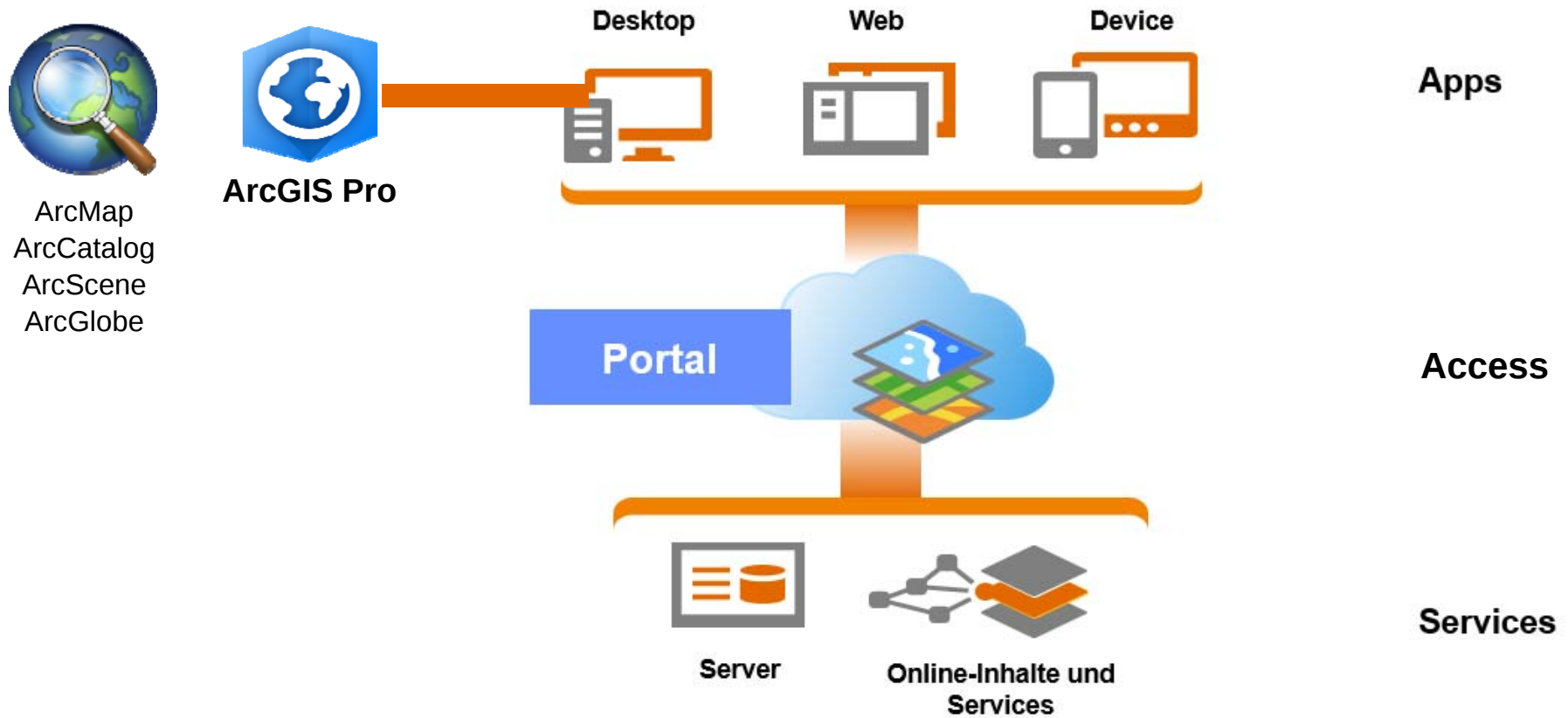


Background



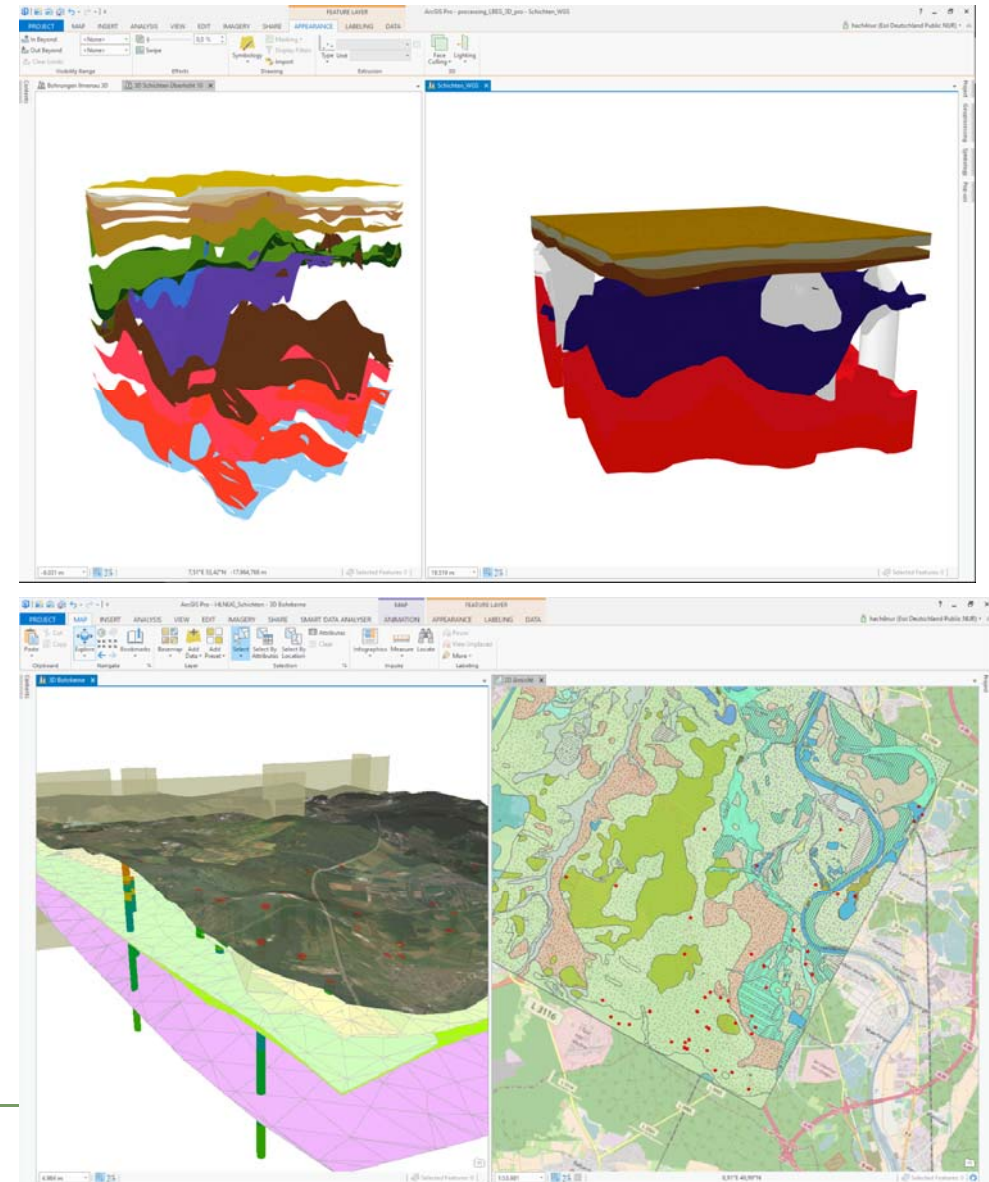
- + Esri has developed ArcGIS Pro
- + It combines the 2D and 3D worlds
- + A presentation of geodata below the terrain surface is possible
- + ArcGIS Pro is available to all ArcGIS Desktop users at no additional costs
- + With ArcGIS Pro, 3D scenes can be published in an ArcGIS Portal as Web GIS.

ArcGIS Desktop



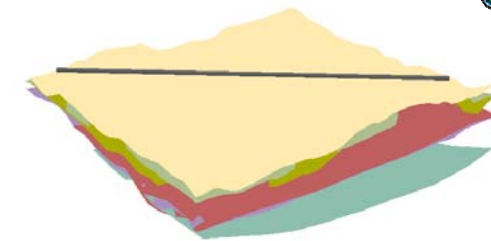
ArcGIS Pro

- + 64 Bit, multi-threaded
- + Simplified user interface
- + **Integrated with ArcGIS Online**
- + **Combined 2D/3D experience**
- + Multiple maps and layouts
- + All the analysis tools
- + Simple search and query



Geology Toolbox

- + Bachelor thesis by Johannes Ruban
- + Geology Toolbox for ArcGIS Pro provides:
 - > Import of GOCAD geometries and colours
 - > Cross sections
 - > Virtual drillings
 - > Import and release of RAG data
- + Cooperation should be continued,
more participants welcome!



Geologic Toolbox

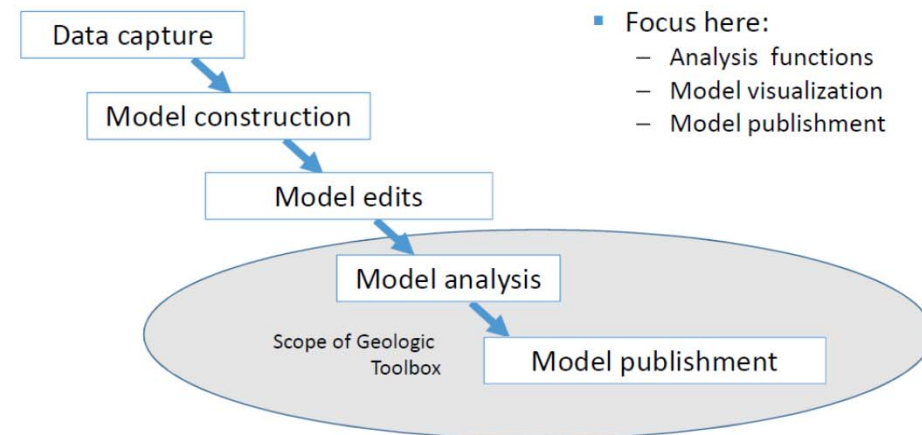
+ Toolbox for ArcGIS Pro:

<https://github.com/bogeo/GeologicToolbox> (GitHub)

+ Next steps:

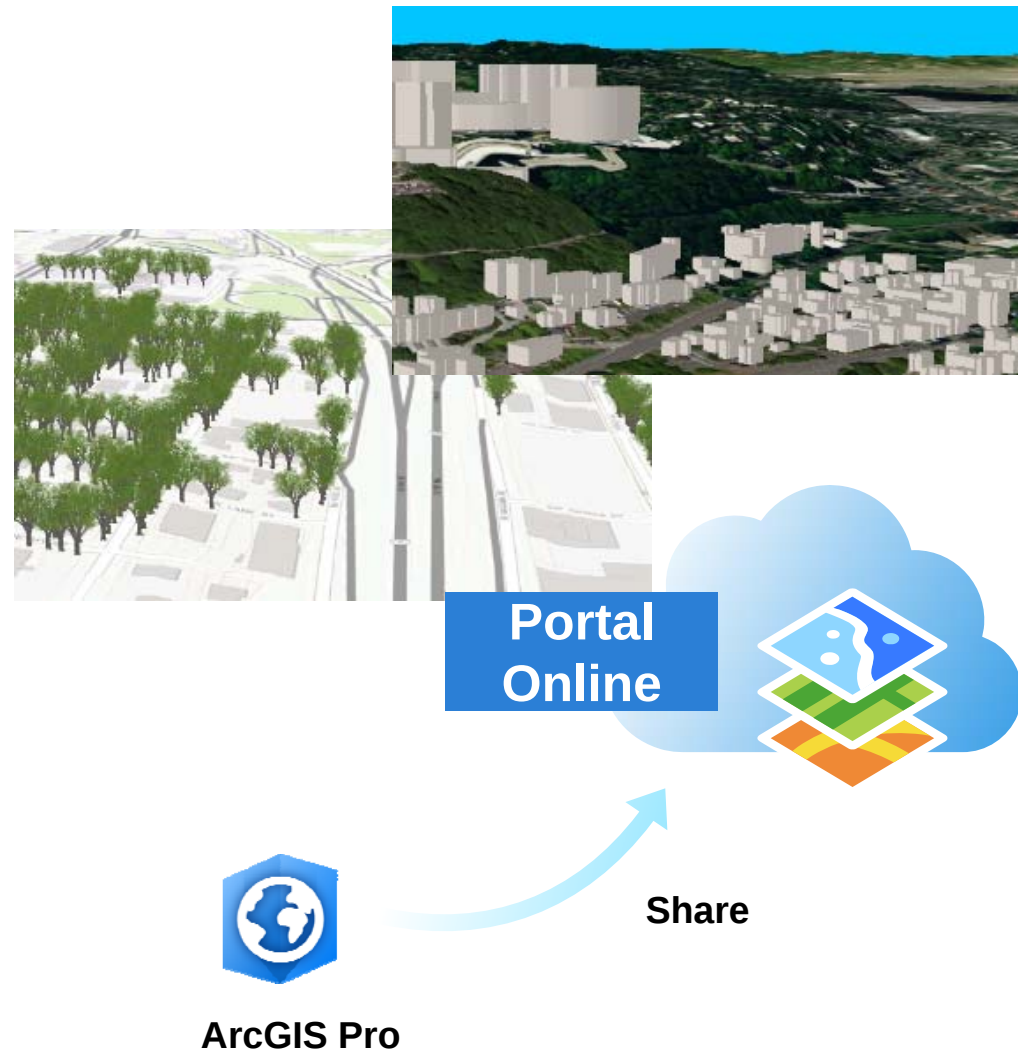
- > Expansion and improvement
- > Dialog with Esri USA to get required features, like transparent basemaps, cross sections, Vertical exaggeration
- > Publication of code
- > Foundation of an Open Community

Project Scope



Sharing

- + Web maps and 3D web scenes
- + Map and layer packages
- + Project packages
- + Map & Layout files
- + Task files
- + Symbology (stylx)



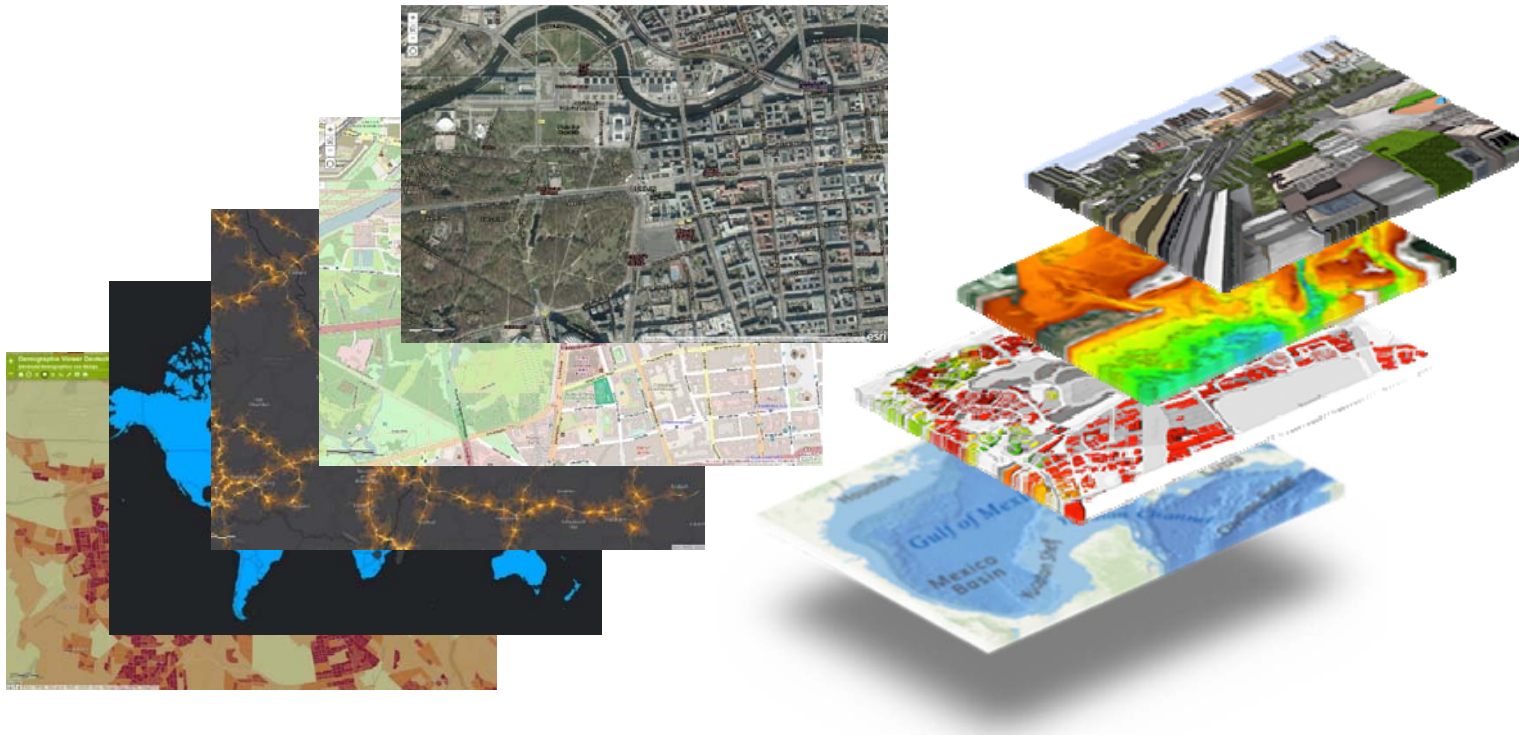
ArcGIS Deployment



Living Atlas

Maps and data available immediatly

Basemaps – Imagery – Demographics - Landscape



Demo Webscenes

British Geological Survey:

[Cross Section](#)

[Thurrock](#)

[Boreholes](#)

Voxel Model of Dutch TNO:

<http://arcg.is/2nK4Syn>

3D-Modell vom LBEG mit Volumenkörperdarstellung (Source: Geotektonischer Atlas 3D (GTA3D), LBEG)

<https://arcg.is/j9a9i>

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