



GIGA
infosystems

Update on GST[AR]

Björn Wieczoreck, 14.03.2024

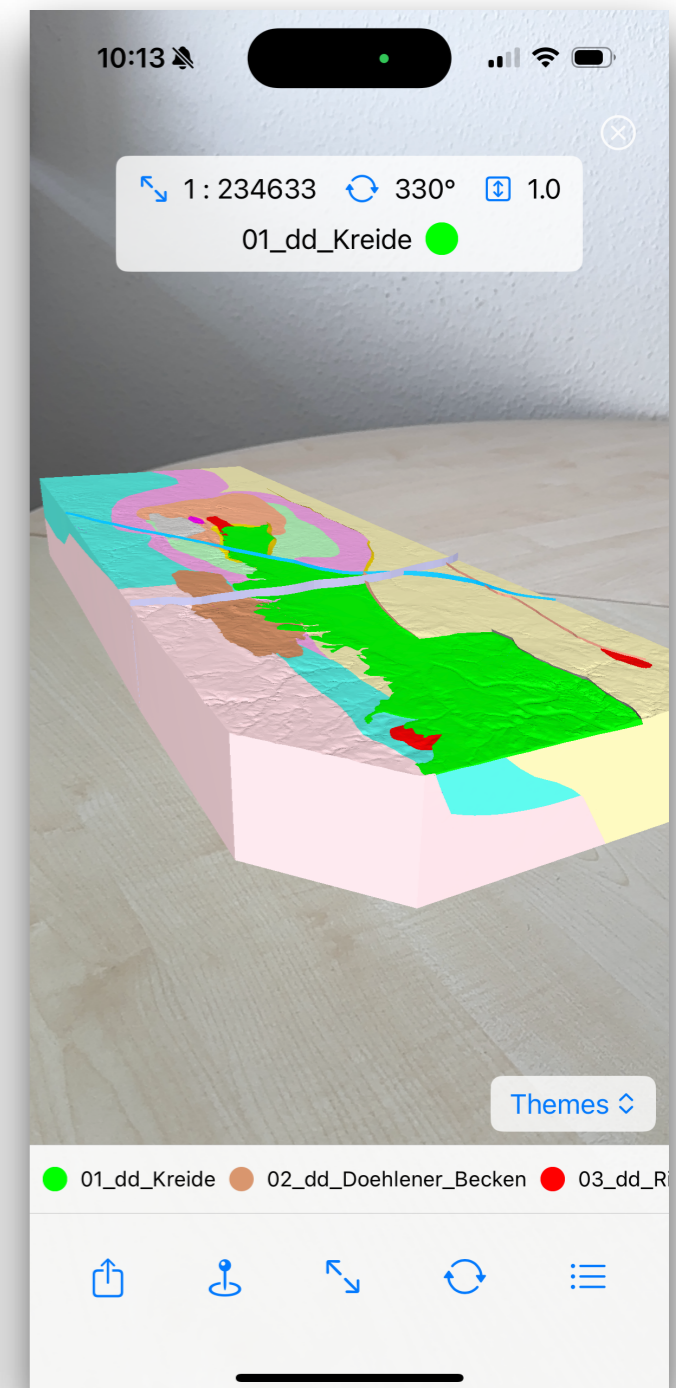
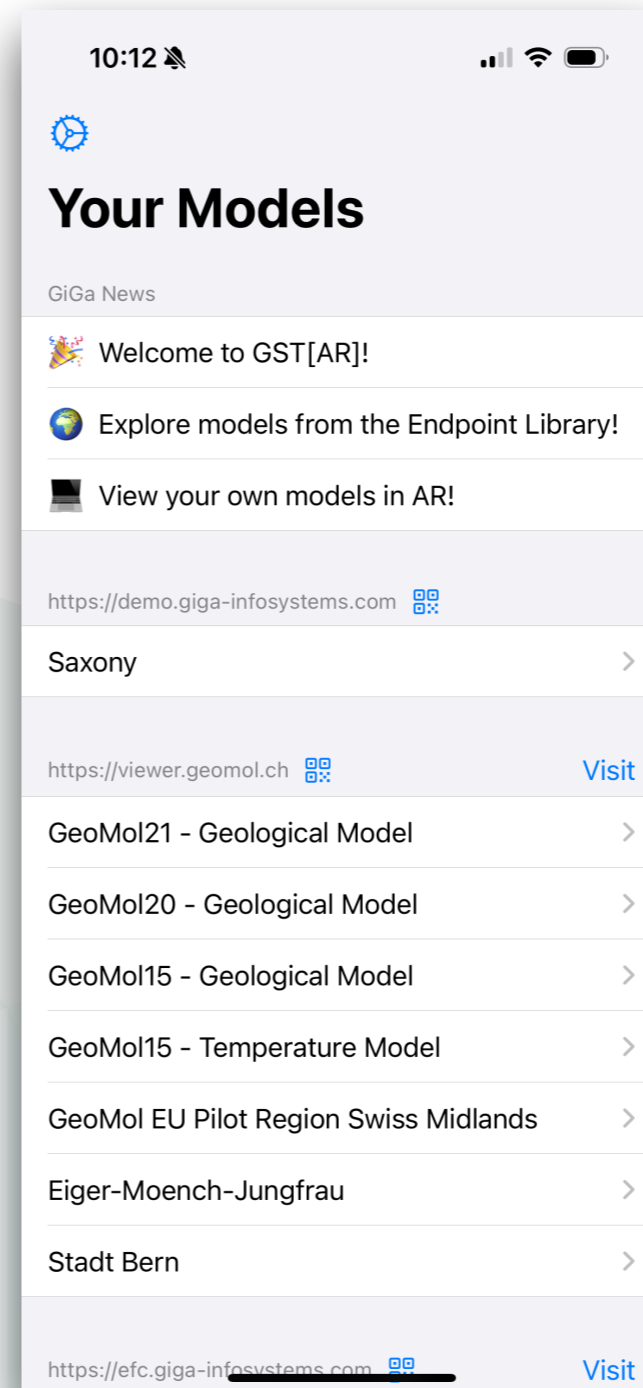
What is GST[AR] again?

A mobile app to visualize geo data in AR



- * App available on iOS/Android
- * Visualize 3D geo models in Augmented Reality [AR]
- * Loads data from GST Web or your local system/network*
- * Share experience with peers in collaborative sessions

*tool assisted





More about the app on our Blog!

<https://giga-infosystems.com/release-blog>

Update on what's new

Today's agenda

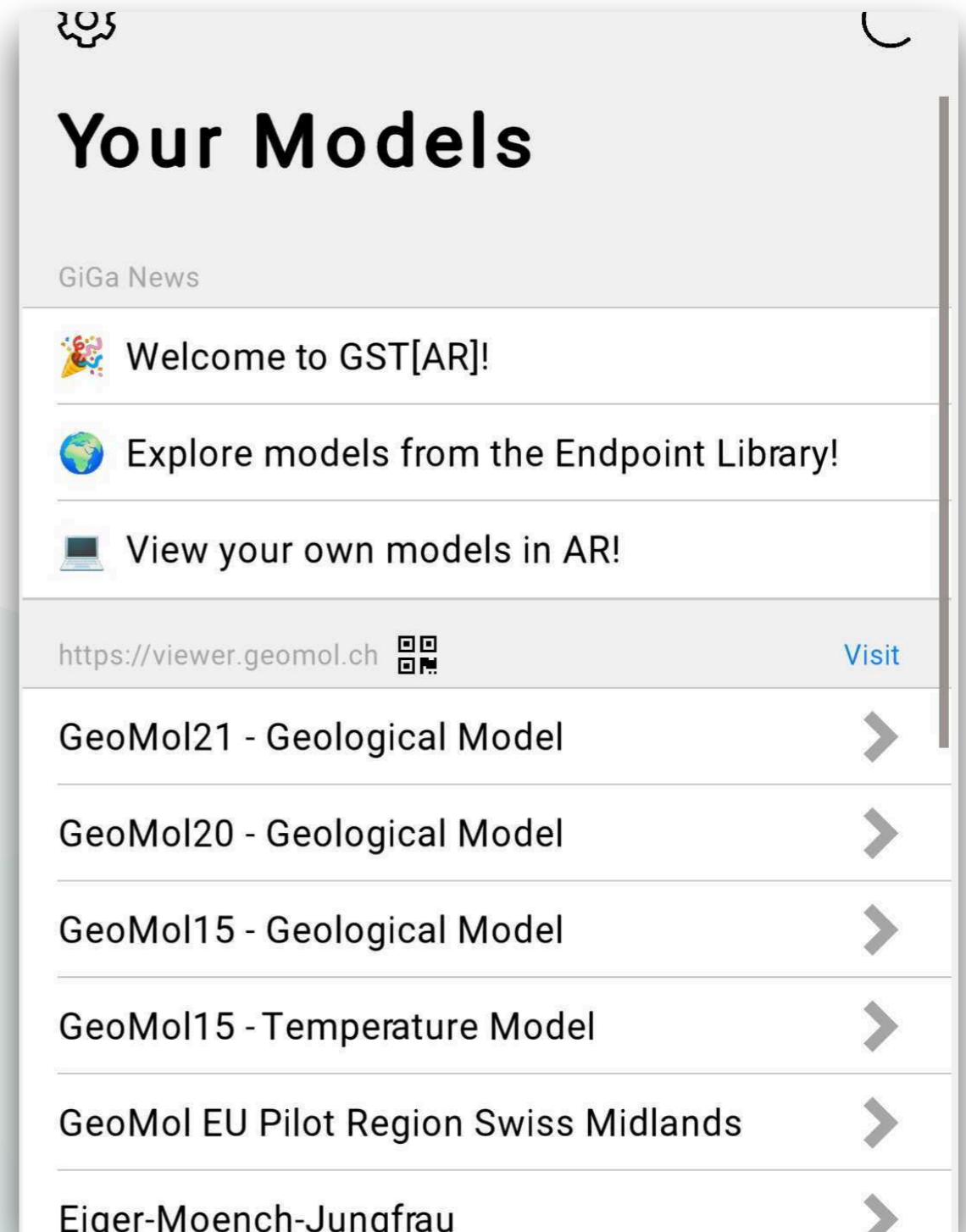


- * Smaller Android Updates
- * AR Endpoint Creator - Host your own models!
- * Update 1.1 on iOS
 - * Themes
 - * Feature toggling
 - * QR-Code support
- * Little demo
- * What's up next?

Updates on Android

Small but mighty

- * New „News“ system
- * Improvements to scaling
- * Models load much [much!] faster now
- * Model orientation is consistent now



AR Endpoint Creator

Host your own models!



- * Command line tool
- * Free! (Download on our website)
- * Converts your input models (GoCad and .obj for now)
- * Compatible with iOS and Android
- * Host result with built-in python server or host on your own!
- * Blog post with in-depth explanation available

CLI_test

Name	Änderungsdatum	Größe	Art
output	Heute, 09:39	--	Ordner
Test Model	21.09.2023, 10:17	--	Ordner
09_ts_dd_geol_Hauptgranit.ts	05.03.2013, 11:19	1,2 MB	MPEG-...Stream
10_ts_dd_geol_Monzonit.ts	05.03.2013, 11:19	1,4 MB	MPEG-...Stream
11_ts_dd_geol_Monzodiorit.ts	05.03.2013, 11:19		
12_ts_dd_geol_Elbtal-Schiefergebirge.ts	05.03.2013, 11:19		
Faults	20.09.2023, 08:32		
ts_dd_tek_Koetschenbroda.ts	19.04.2012, 11:44		
ts_dd_tek_Lausitze...schiebung_Mitte.ts	19.04.2012, 11:44		
ts_dd_tek_Lausitze...rschiebung_Nord.ts	19.04.2012, 11:44		
Horizons	23.01.2024, 15:26		
01_ts_dd_geol_Kreide.ts	05.03.2013, 11:19		
02_ts_dd_geol_Doehlener_Becken.ts	05.03.2013, 11:19		
03_ts_dd_geol_Riesenstein-Granit.ts	05.03.2013, 11:19		
Special	20.09.2023, 08:34		
14_ts_dd_geol_La...tzer_Granodiorit.ts	05.03.2013, 11:19		
Test Model 2	25.09.2023, 14:29		
09_ts_dd_geol_Hauptgranit.ts	05.03.2013, 11:19		
10_ts_dd_geol_Monzonit.ts	05.03.2013, 11:19		
11_ts_dd_geol_Monzodiorit.ts	05.03.2013, 11:19		
12_ts_dd_geol_Elbtal-Schiefergebirge.ts	05.03.2013, 11:19		

09:40

Your Models

GiGa News

Welcome to GST[AR]!

Explore models from the Endpoint Library!

View your own models in AR!

<http://192.168.2.22:8000>

Test Model >

Test Model 2 >

<https://demo.giga-infosystems.com>

Saxony >

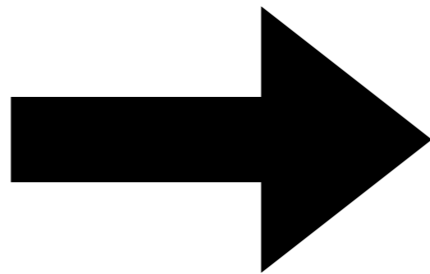
<https://efc.giga-infosystems.com> Visit

Erzgebirge-Fichtelgebirge-Complex_v1.0 >

<https://umwelt.sachsen.de/umwelt/infosysteme/gst3> Visit

Grenzen >

NW-Sachsen >



09:40

< Your Models Select all

Test Model

Search features

Faults Select these

bung_Mitte tin

ts_dd_tek_Lausitzer_Ueberschiebung_Nord tin

Horizons Select these

01_ts_dd_geol_Kreide tin

02_ts_dd_geol_Doehlener_Becken tin

03_ts_dd_geol_Riesenstein-Granit tin

Special Select these

14_ts_dd_geol_Lausitzer_Granodiorit tin

Test Model Select these

09_ts_dd_geol_Hauptgranit tin

10_ts_dd_geol_Monzonit tin

AR

```
Running `target/debug/endpoint_creator --input-path /Users/bjoern/Desktop/CLI_test2 --output-path /Users/bjoern/Desktop/CLI_test2/output --start-server`  
Starting conversion process ...  
Can't identify file without extension: /Users/bjoern/Desktop/CLI_test2/model2/.DS_Store  
Successfully converted 7 geometries and wrote JSON file.
```

```
Starting up server and hosting /Users/bjoern/Desktop/CLI_test2/output ...
```



Scan the QR code above or manually add "http://192.168.2.22:8000" to your endpoints in GST[AR] to access your models now.



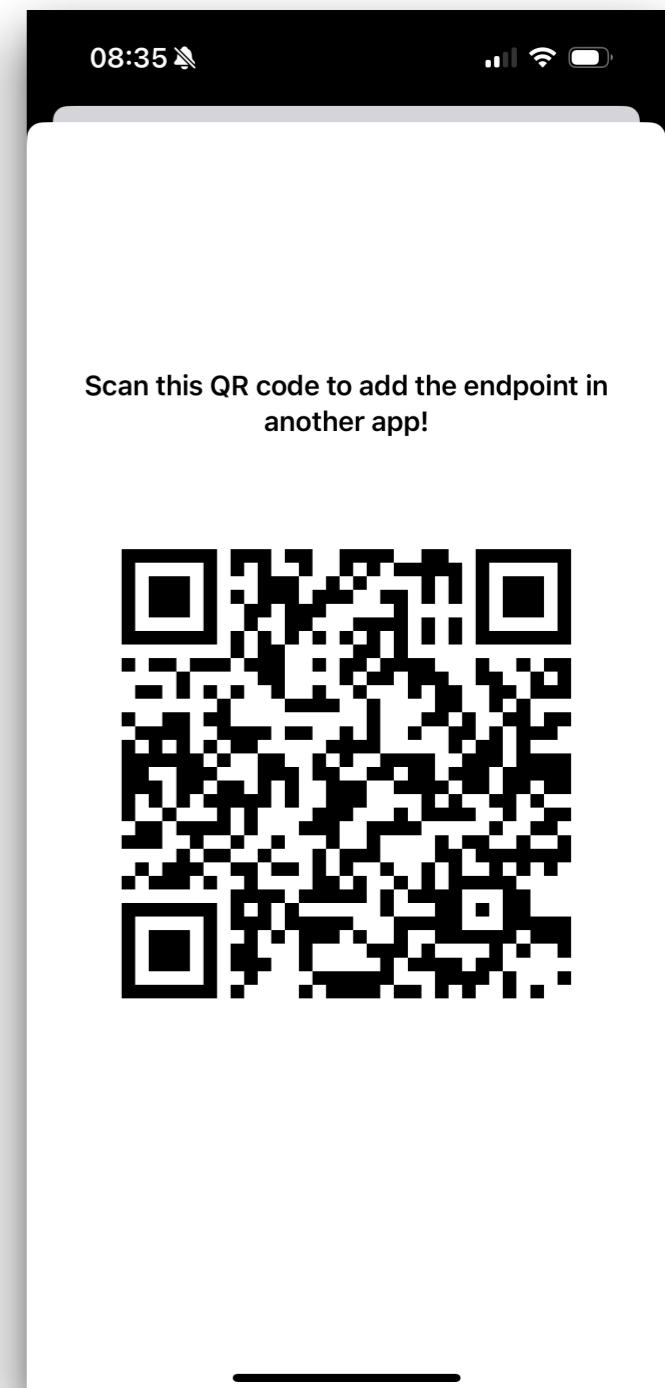
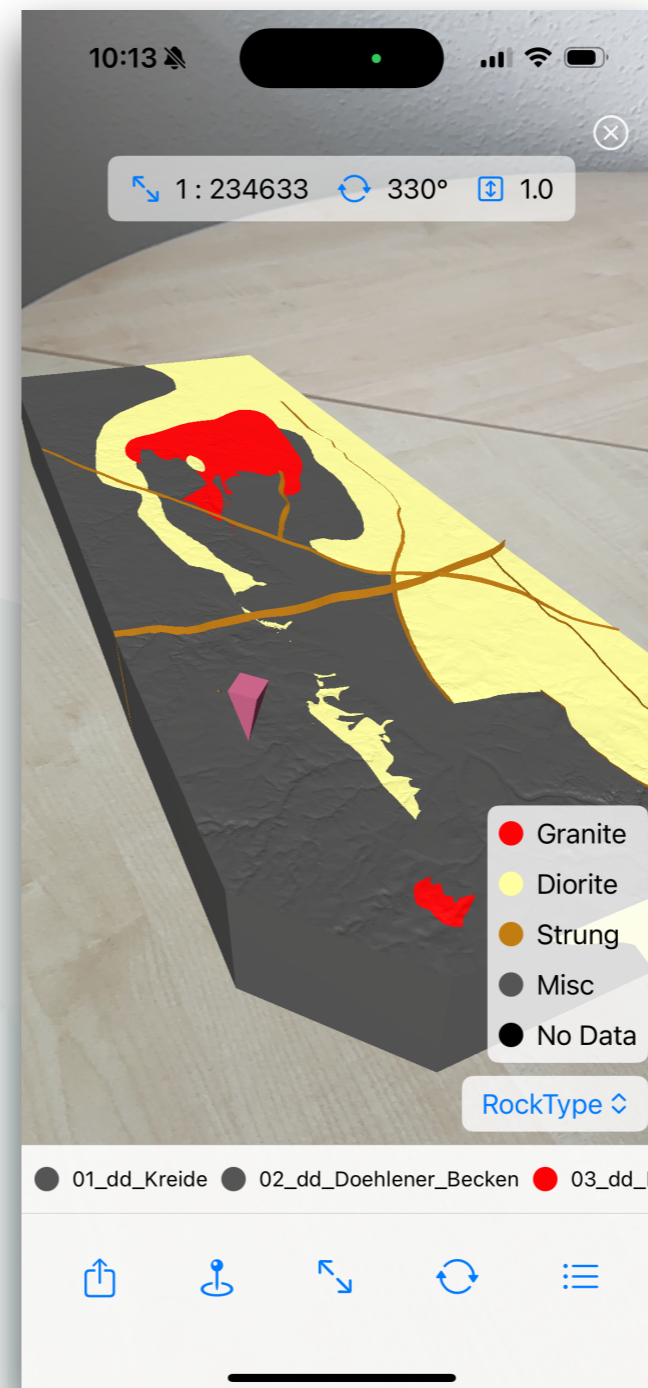
Scan the QR code above to open the model directly.

Update 1.1 on iOS

Coming soon to Android!



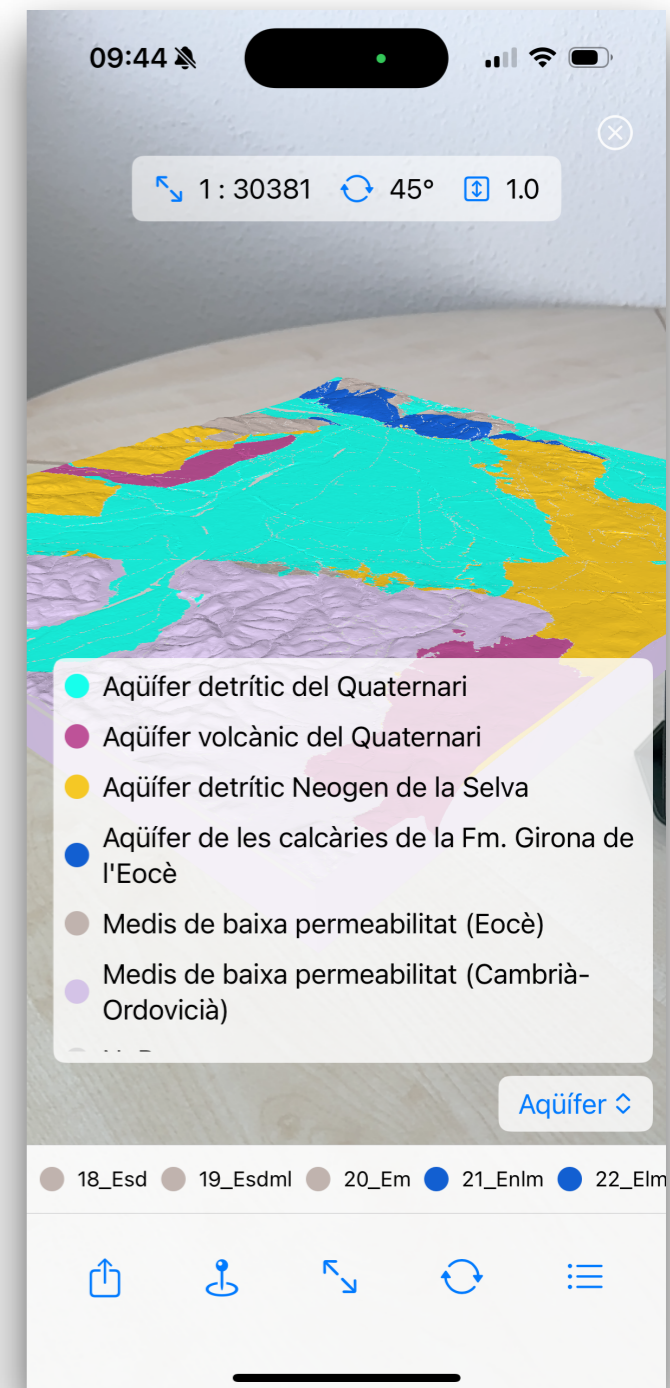
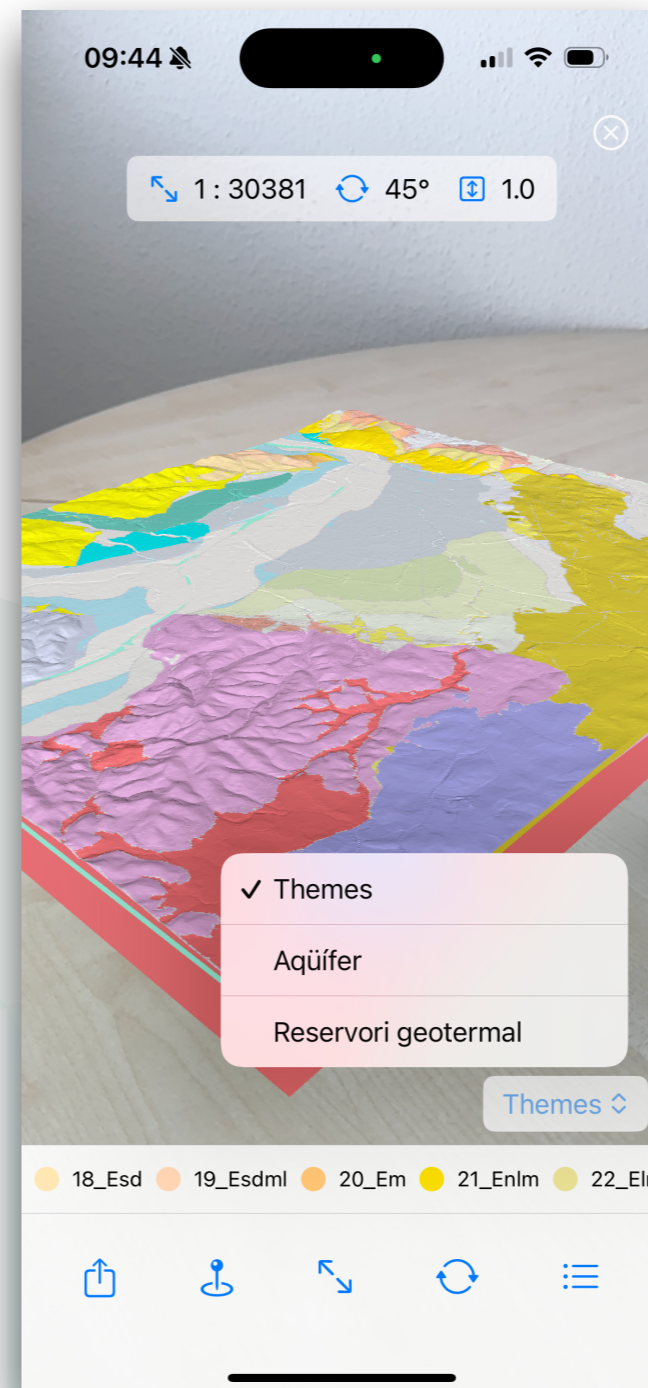
- * Themes
- * Feature toggling
- * QR-Code support
- * Smaller improvements



Update 1.1 on iOS

Themes

- * Works with GST Web
- * Switch between themes in AR view -> colors of features change
- * Little legend is shown
- * No support for sorting of features (yet)

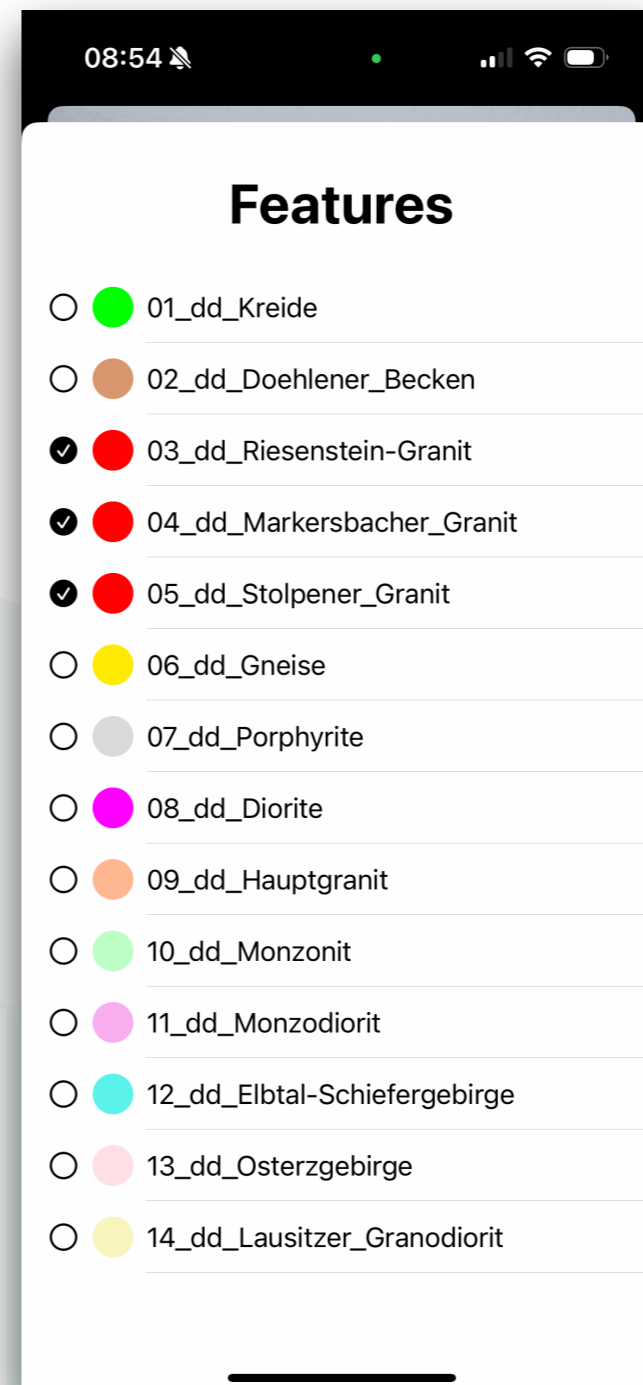


Update 1.1 on iOS

Feature Toggling



- * After original download of features possible
- * Show/hide individual features without leaving the AR view
- * Scene scaling automatically adjusts to selection
- * Additional QOL features available

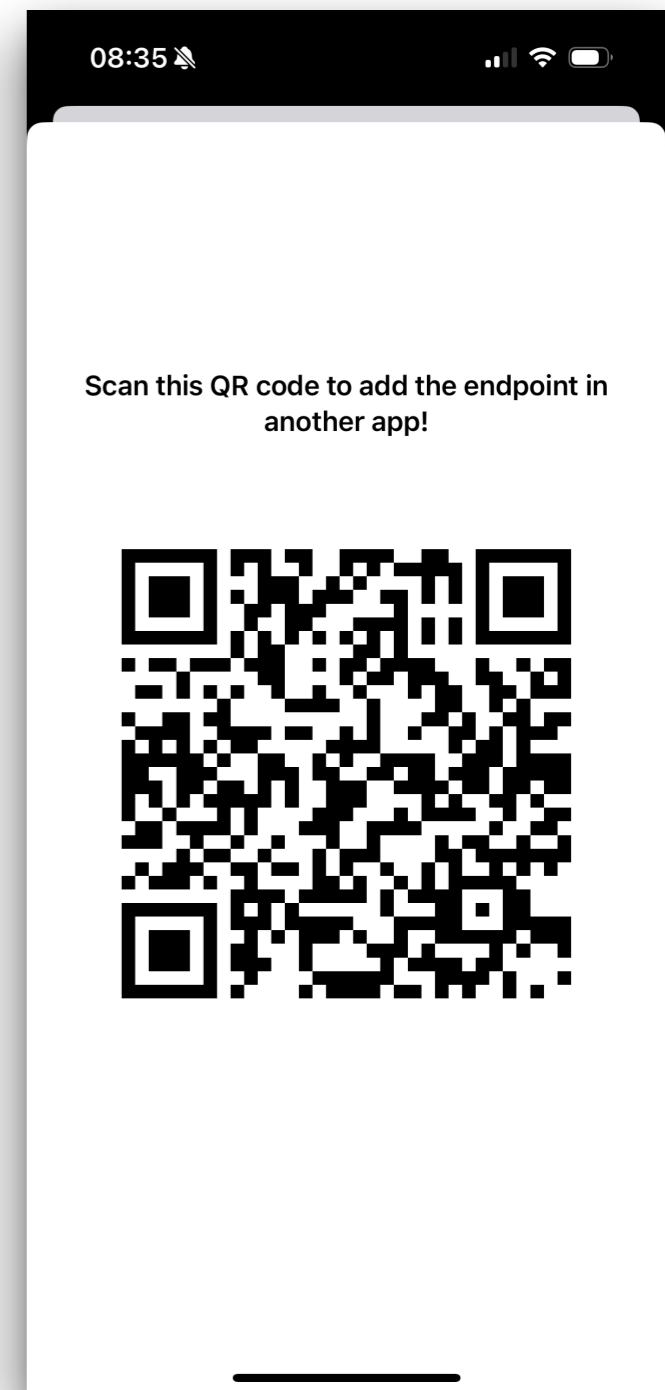
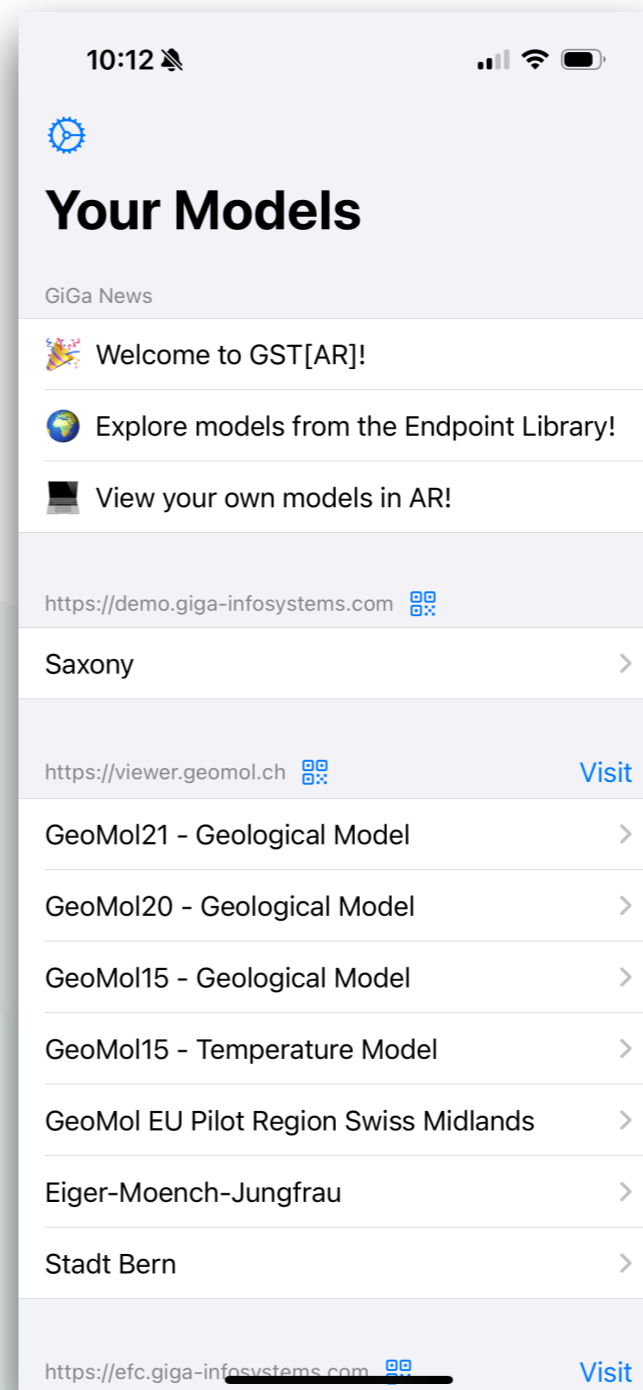


Update 1.1 on iOS

QR-Code support



- * New feature to add endpoint/
open model directly
- * Use normal camera app to
scan QR-Code
- * Share added endpoint via QR-
Code from „Your Models“
- * More details to come in blog
post





Demo

What's up next?

Your feedback is needed!



- * Release missing features on Android (soon!)
- * Improve collaboration on Android
- * Extend QR-Code support (e.g. via viewlinks)
- * Integrate GST[AR] better with GST services

- * [Your idea here]
- * LBEG did that really well!
- * Get in touch! Maybe we can start a little project.
[I need an Apple Vision Pro]

A decorative graphic in the top right corner consisting of several overlapping teal-colored triangles and polygons, creating a modern, abstract shape.

Thank you!

www.giga-infosystems.com