GiGa infosystems

Update on GST[AR]

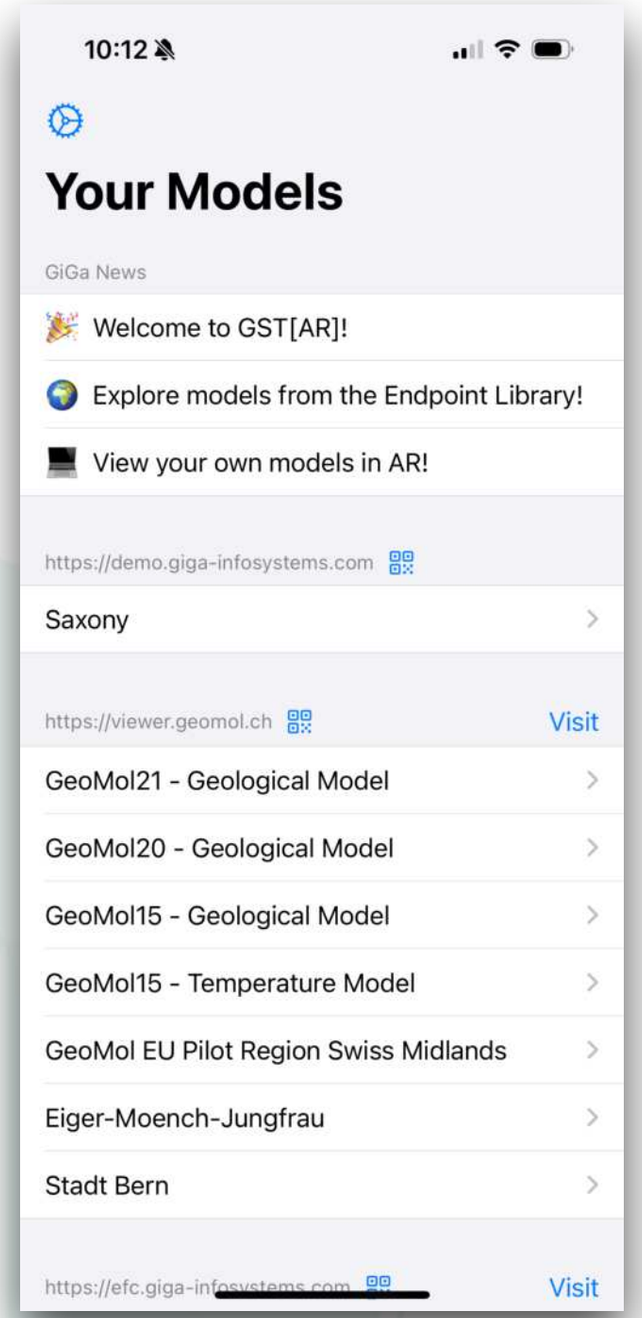
Björn Wieczoreck, 14.03.2024

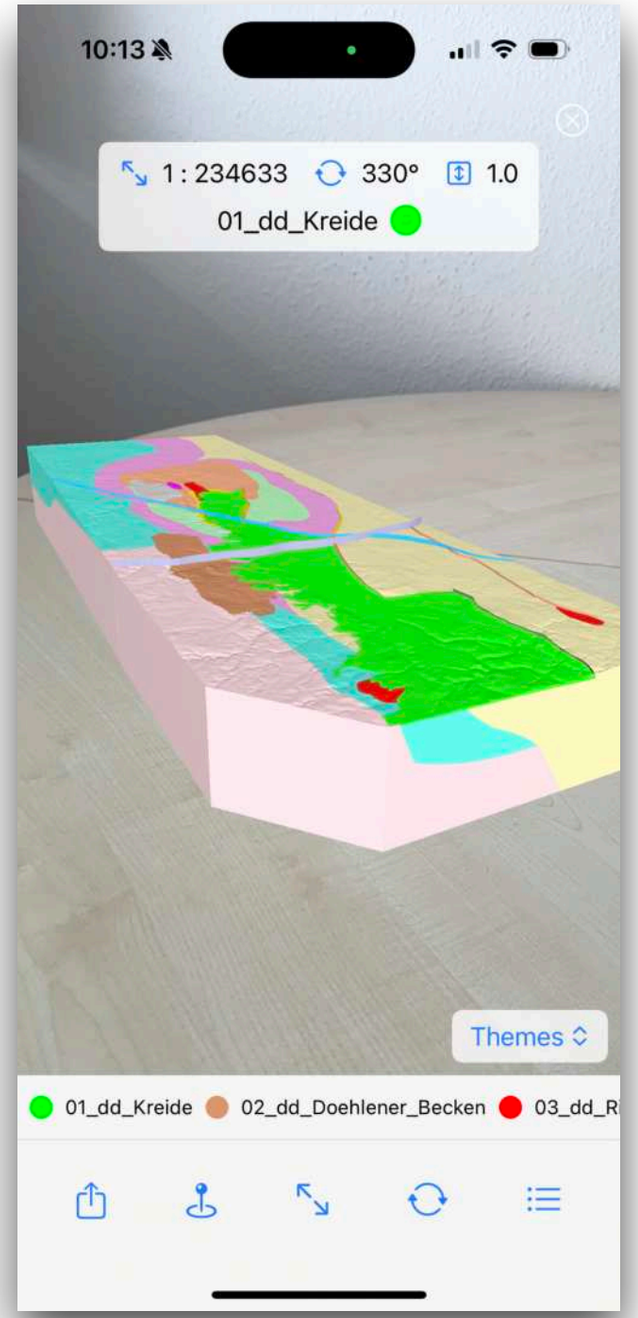
What is GST[AR] again?

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

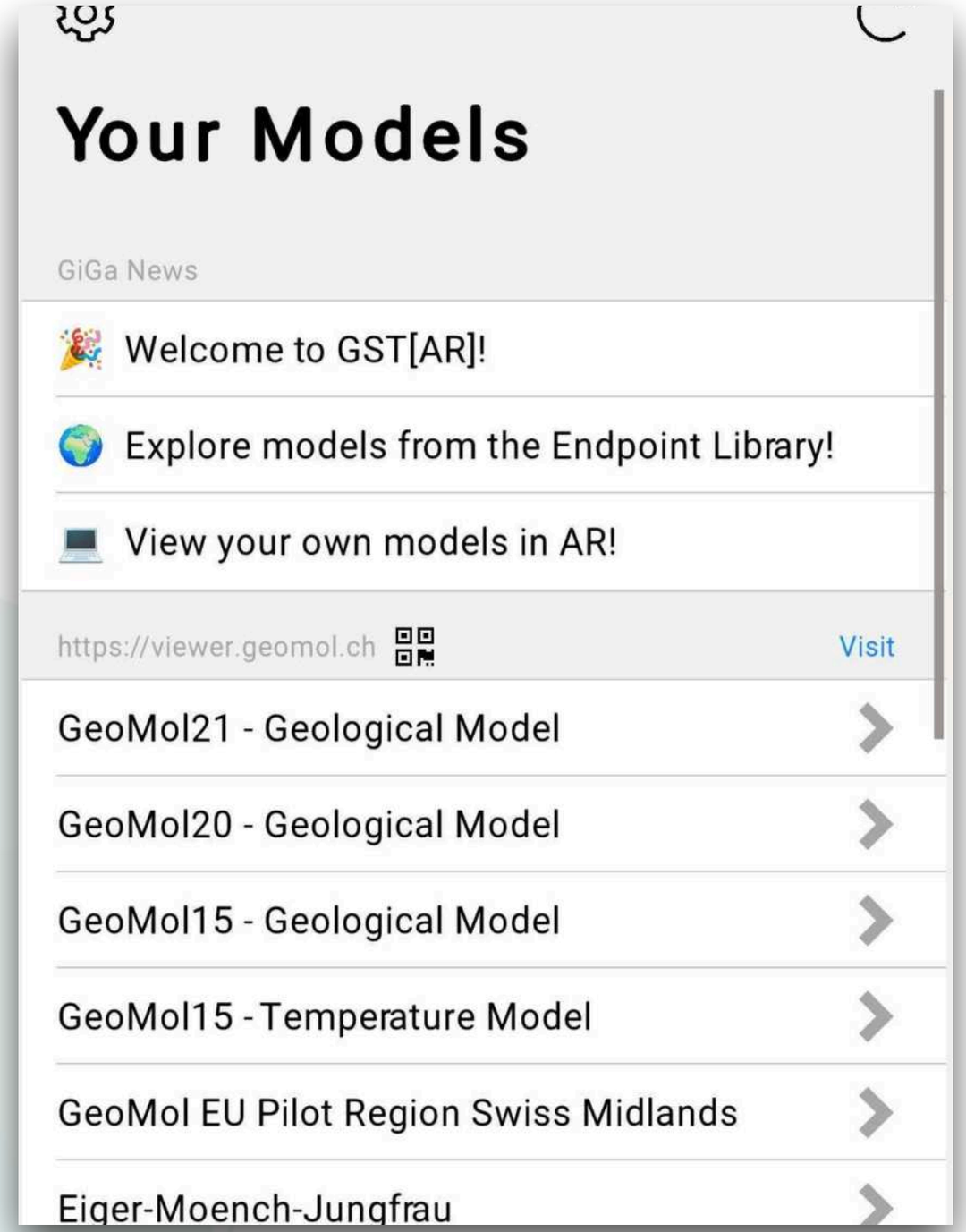
Todays agenda

- 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

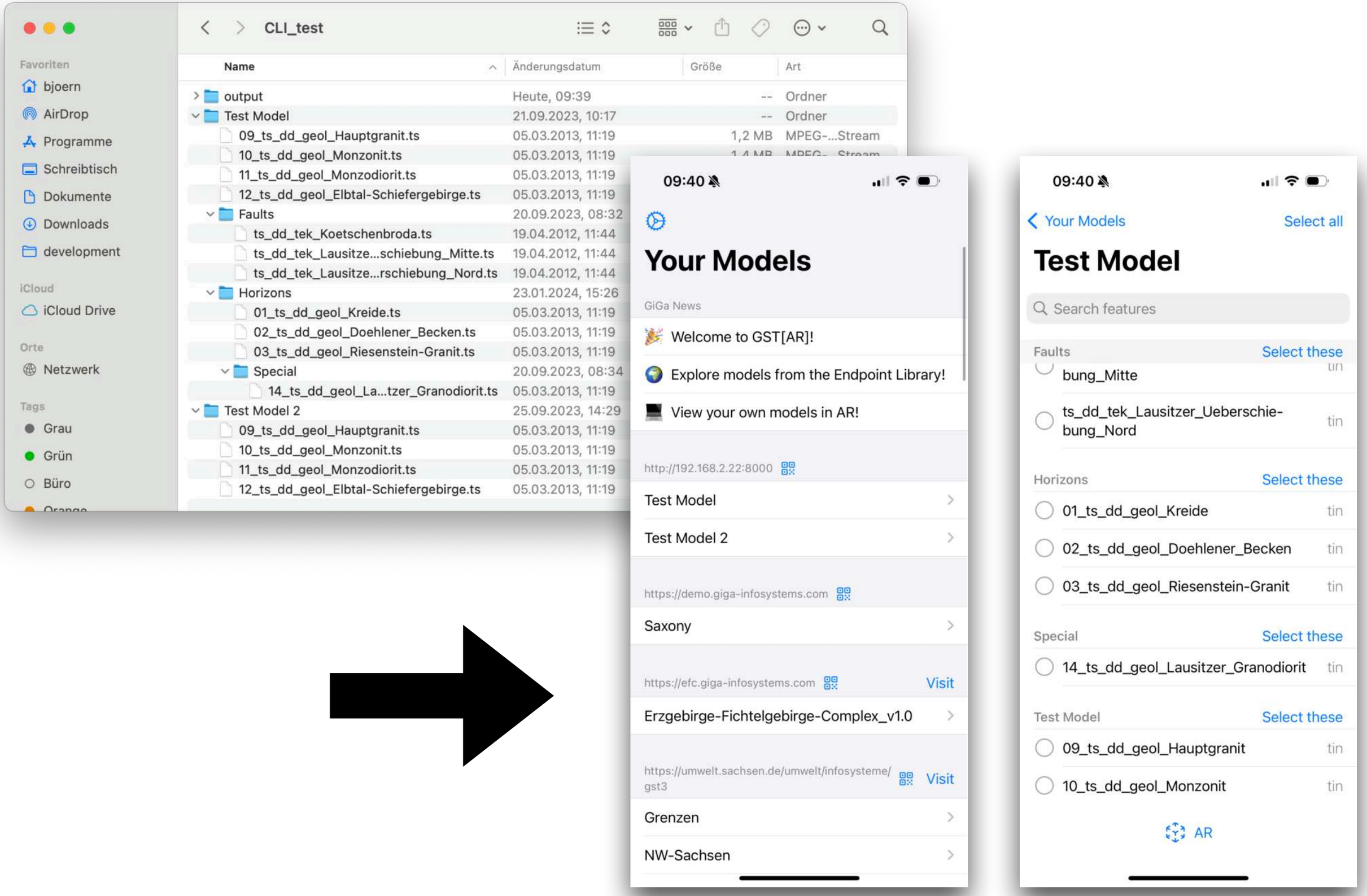


AR Endpoint Creator

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
Favoriten
bjoern
AirDrop
Programme
Schreibtisch
Dokumente
Downloads
development
iCloud
iCloud Drive
Orte
Netzwerk
Tags
Grau
Grün
Büro
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
11_ts_dd_geol_Monzodiorit.ts
12_ts_dd_geol_Elbtal-Schiefergebirge.ts
Faults
20.09.2023, 08:32
ts_dd_tek_Koetschenbroda.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
03_ts_dd_geol_Riesenstein-Granit.ts
Special
20.09.2023, 08:34
14_ts_dd_geol_La...tzer_Granodiorit.ts
Test Model 2
25.09.2023, 14:29
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
ts_dd_tek_Lausitzer_Ueberschie-bung_Nord
tin
Horizons
Select these
01_ts_dd_geol_Kreide
02_ts_dd_geol_Doehlener_Becken
03_ts_dd_geol_Riesenstein-Granit
Special
Select these
14_ts_dd_geol_Lausitzer_Granodiorit
Test Model
Select these
09_ts_dd_geol_Hauptgranit
10_ts_dd_geol_Monzonit
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

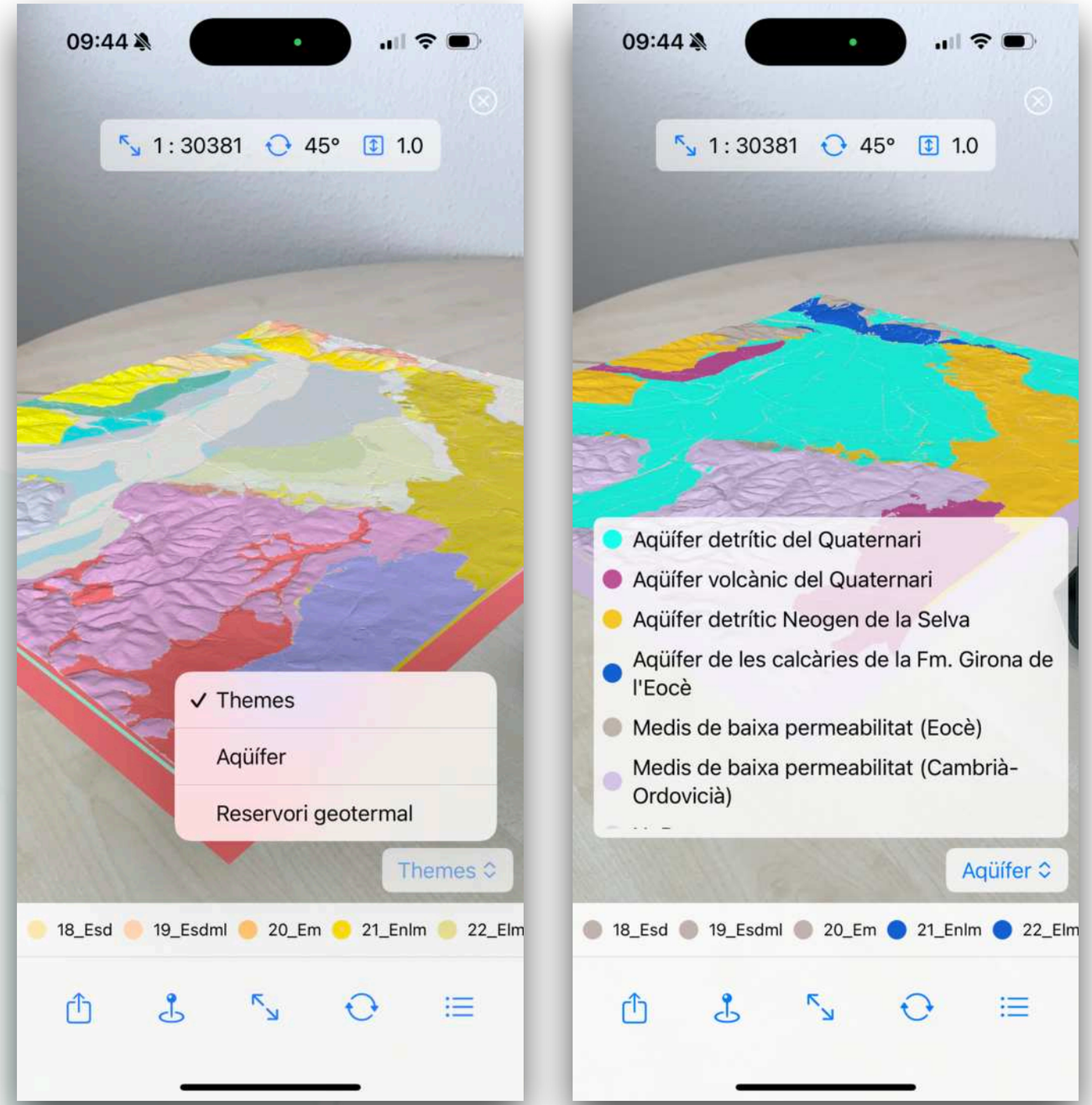




Update 1.1 on iOS

Themes

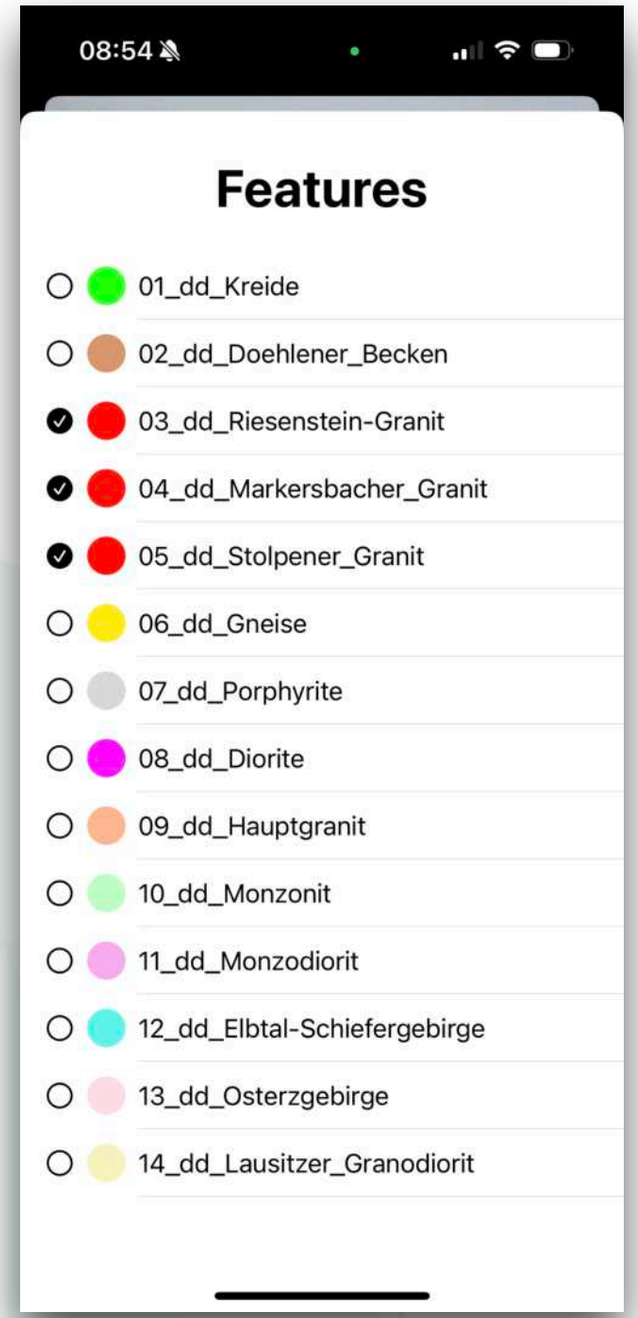
- Works with GST Web
- Switch between themes in AR view -> colors of features change
- Little legend is shown
- No support for sorting of features (yet)



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

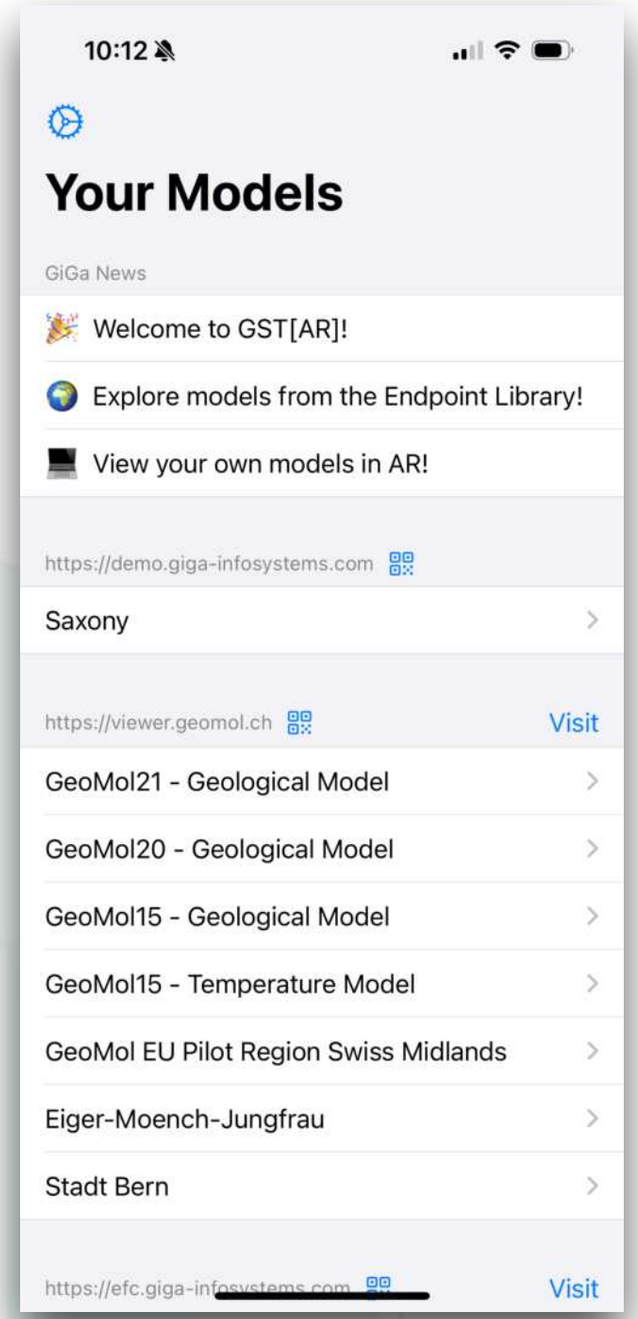




Update 1.1 on iOS

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)

Thank you!

www.giga-infosystems.com