

# **The Guide: When are we there?**

**Spatial information and geographical data along a time axis**



When do we have  
our picnic?

Over there!

# **Agenda**

**Map Apps**

**Itineraries and Maps**

**Too much GIS information**

**The Guide / Demo**

**Filtering and presenting geographical information in a dynamic environment.**

# Map Apps

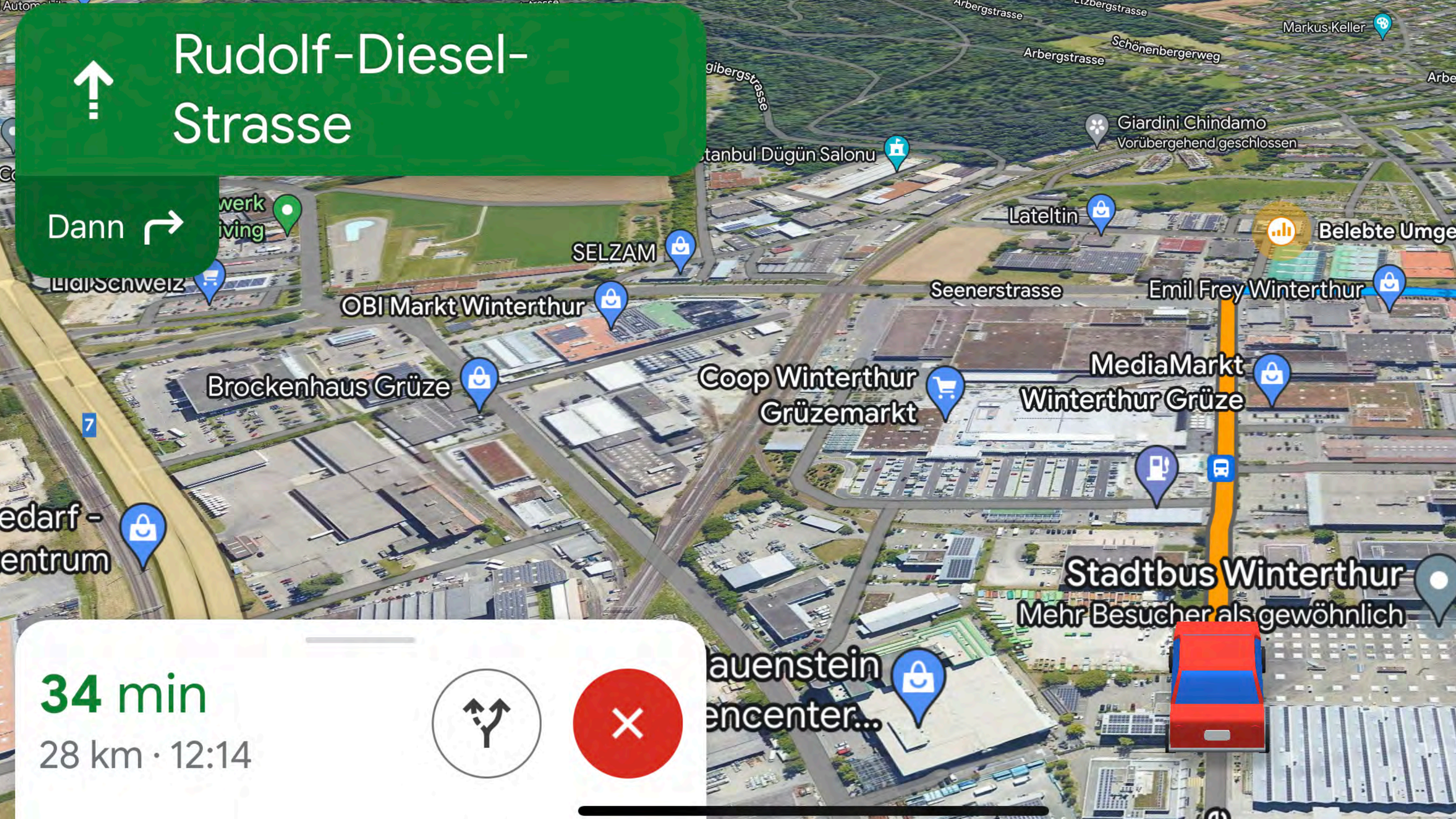


1km = 4.0cm

# Rudolf-Diesel-Strasse



Dann 



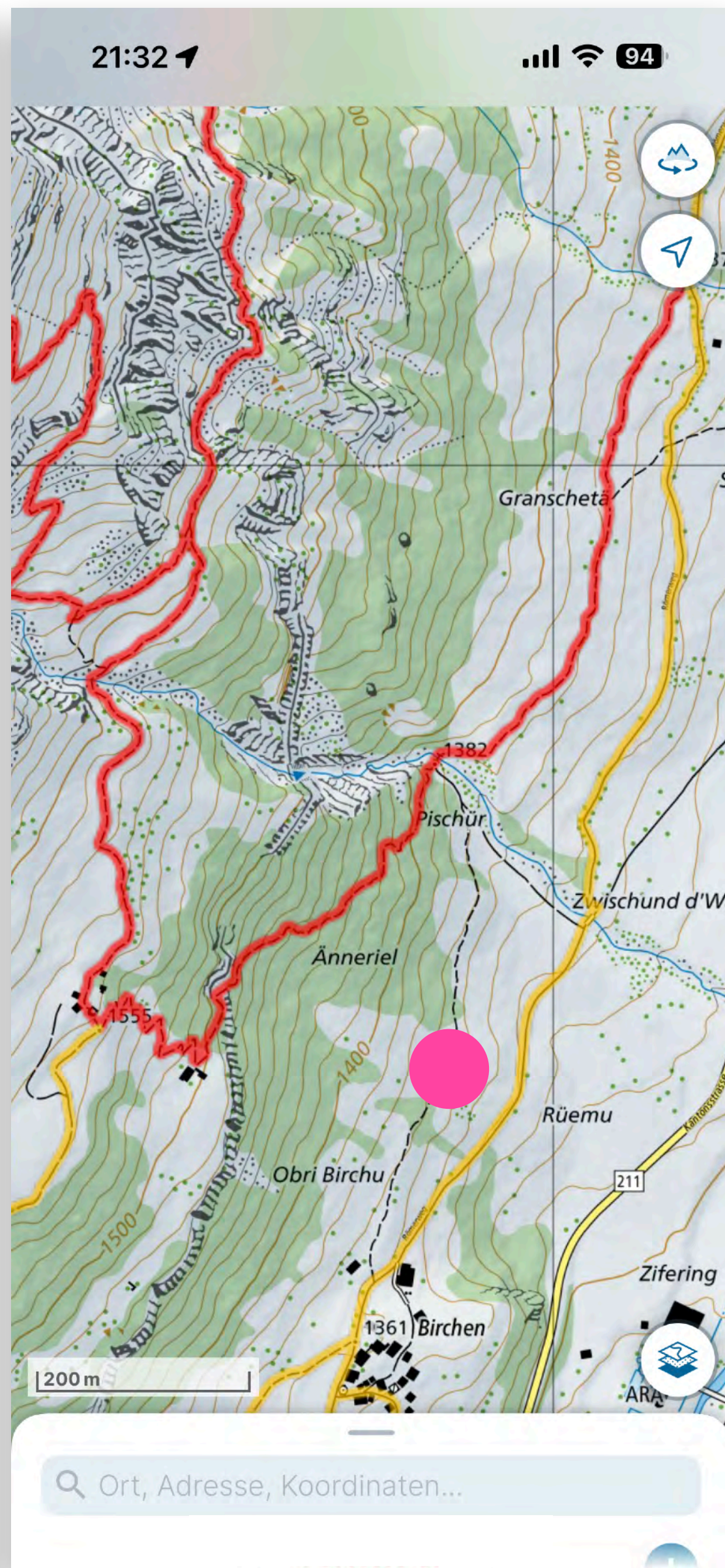
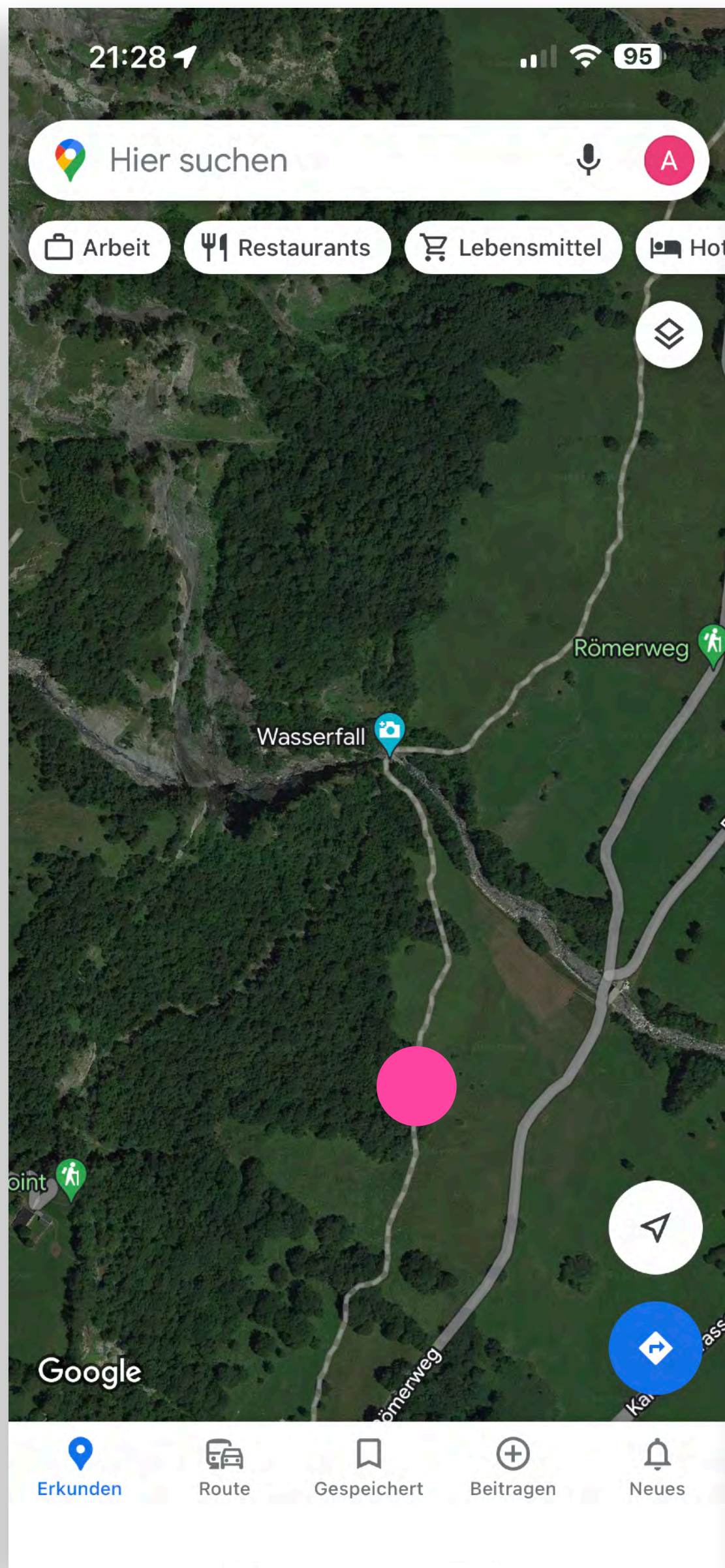
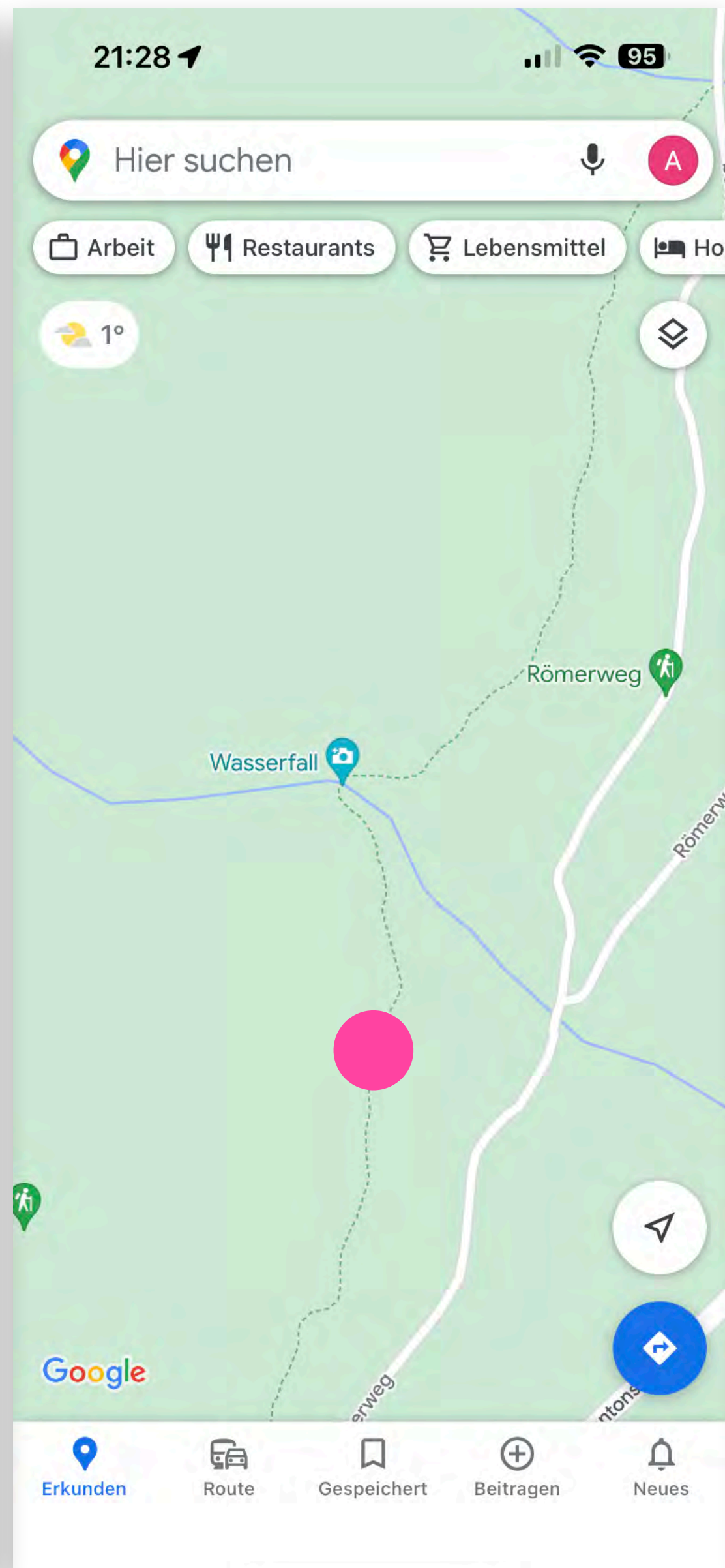
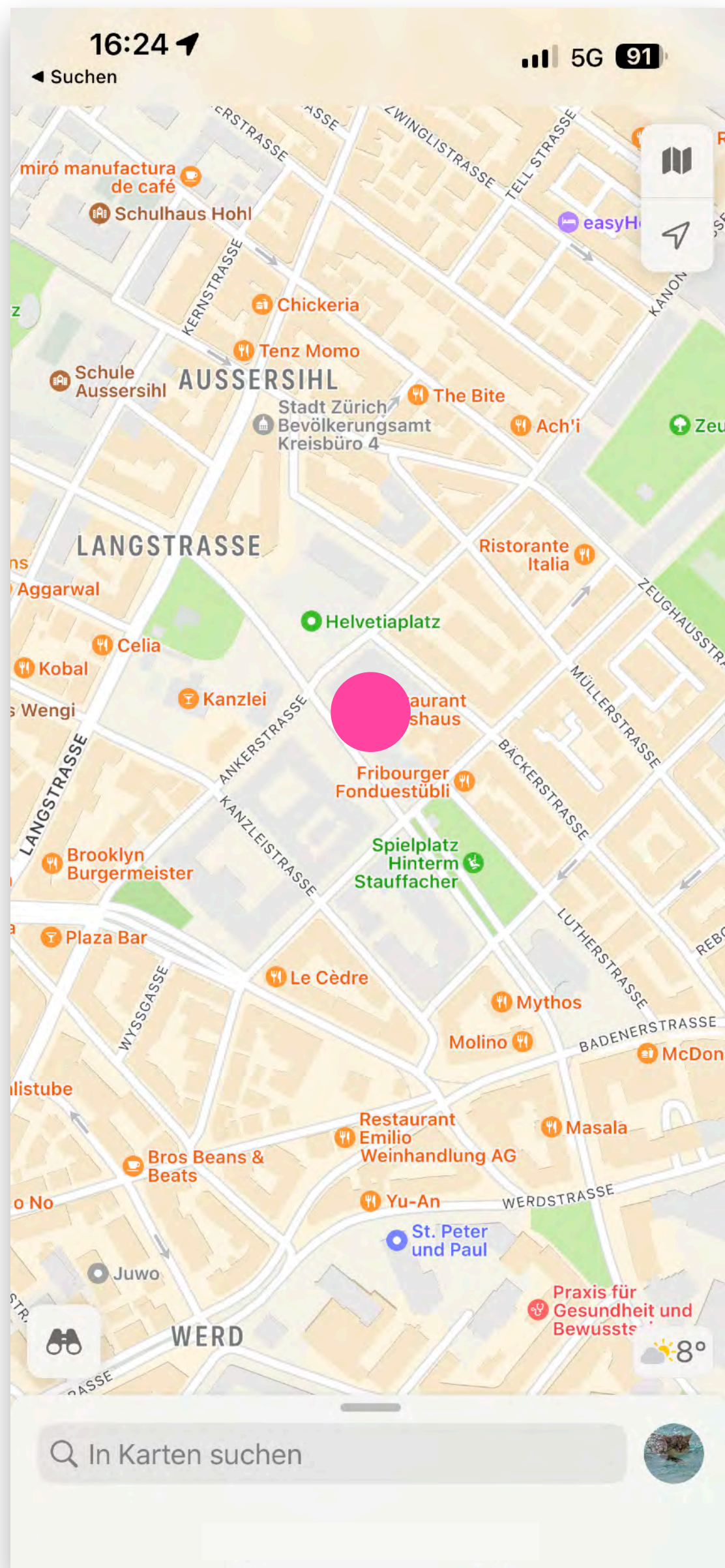
**34 min**

28 km · 12:14



auenstein  
encenter...





17:55

5G 88





12:01 📶 86%

< Trainings Sa. 21. Nov. 📶

Gesamtkilokalorien **588KCAL** Höhenmeter **230M**

Ø-Pace **10'20"/KM** Ø-Herzfrequenz **142BPM**

### Rundenzeiten Mehr anzeigen

	Zeit	Pace	Herzfrequenz
1	12:24	12'22"	142BPM
2	12:02	12'01"	138BPM
3	08:33	8'32"	155BPM
4	09:01	9'01"	150BPM
5	09:04	9'03"	141BPM

### Herzfrequenz Mehr anzeigen

14:37 14:59 15:20 175  
142 BPM Ø

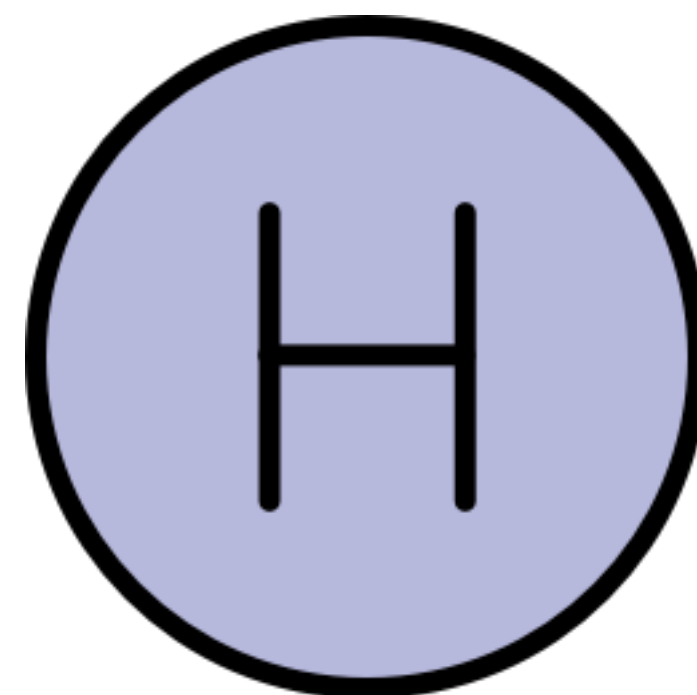
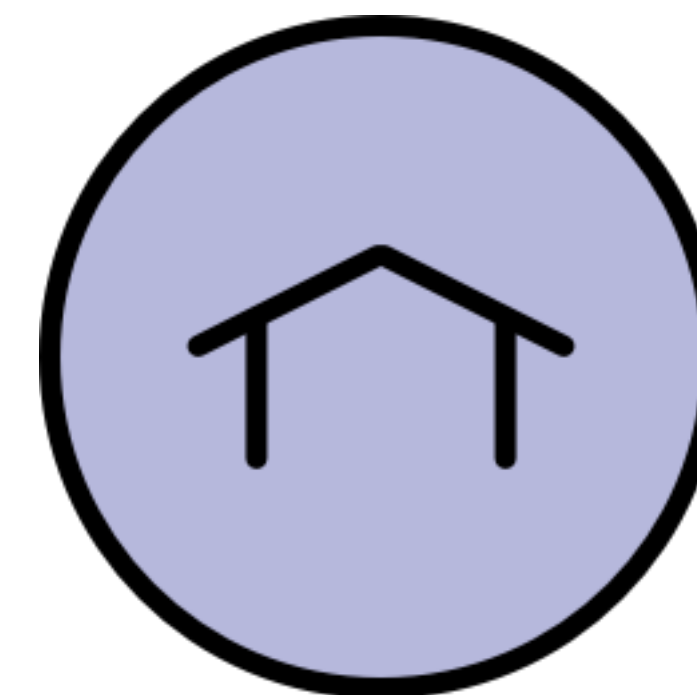
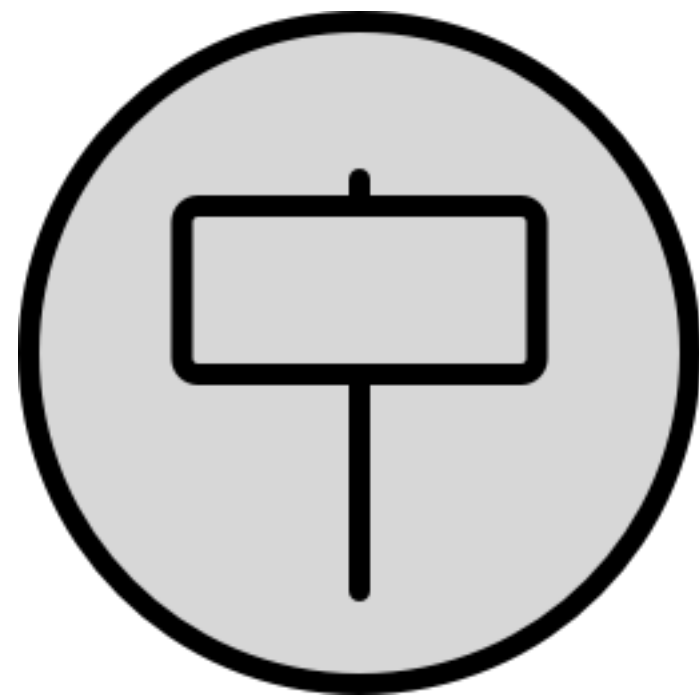
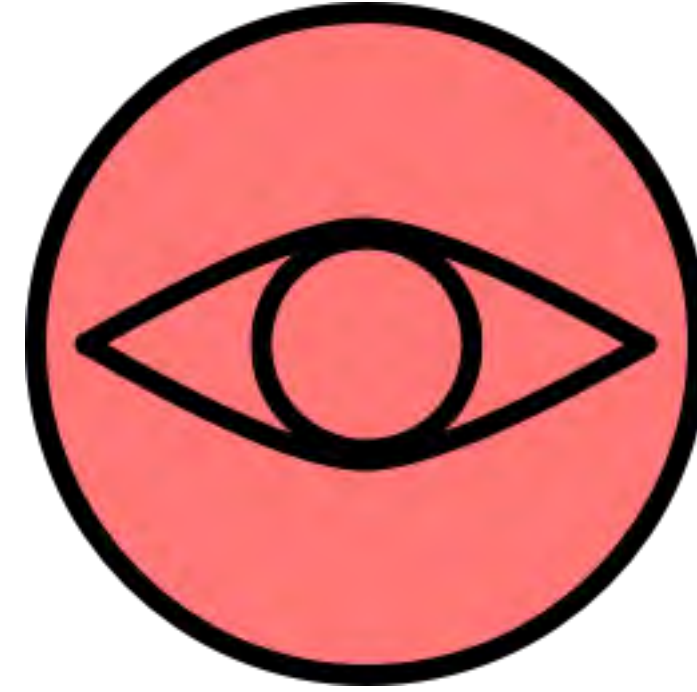
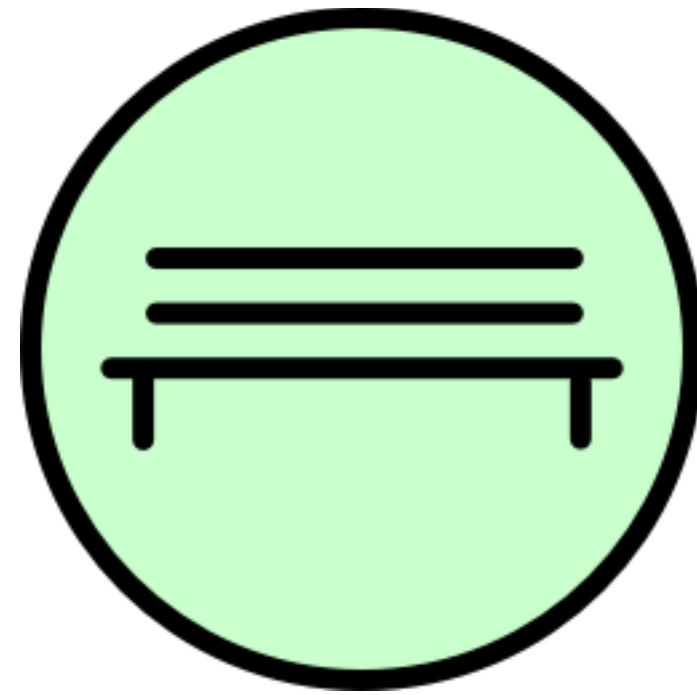
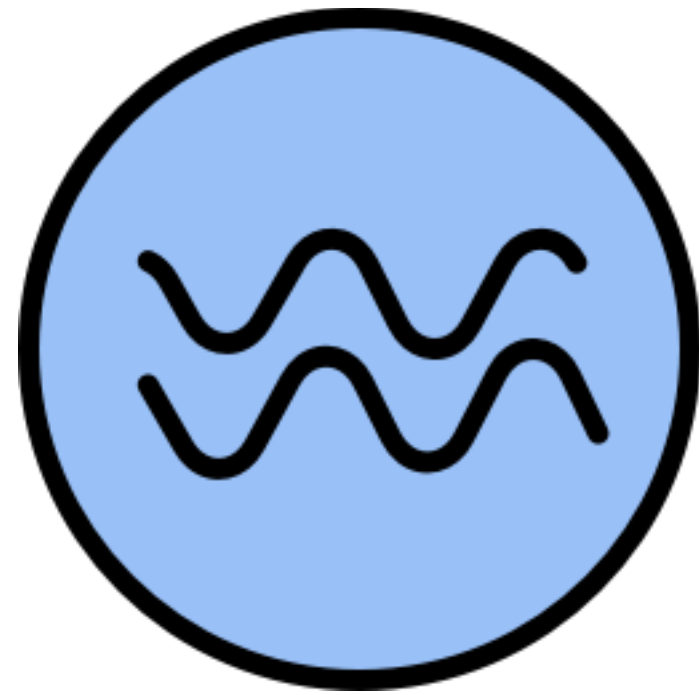
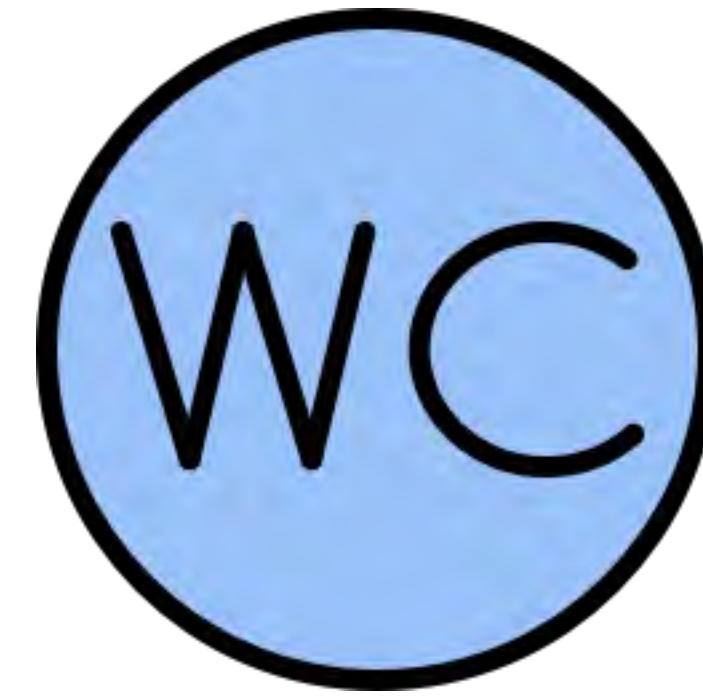
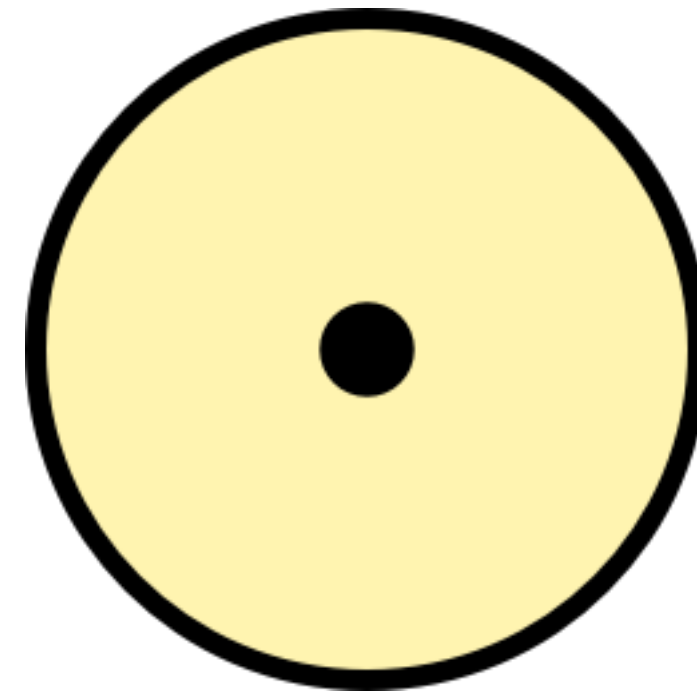
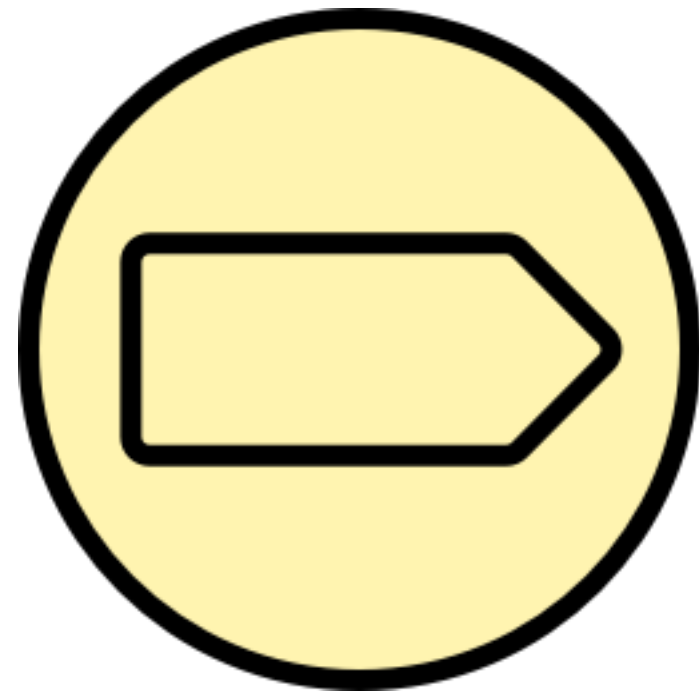
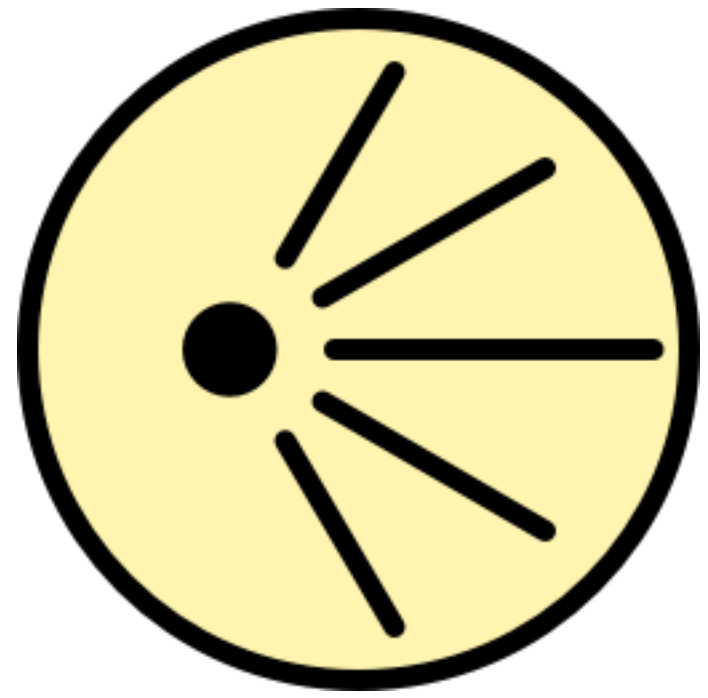
### Karte Mehr anzeigen

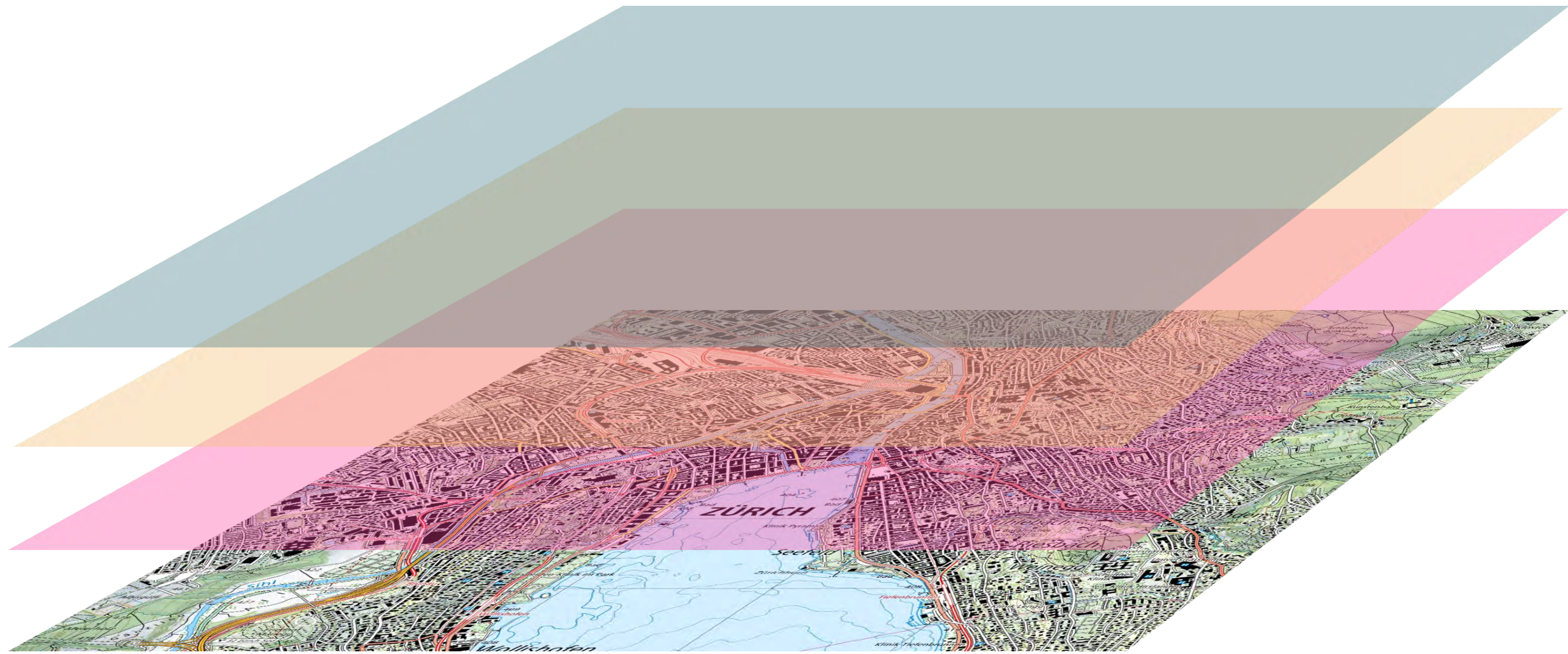
Übersicht Fitness+ Teilen

12:00 📶 86%

📶 5.93 KM Laufen outdoor ✕







**How to organize geographic information?**

Ice cream shop

Playground

Waterfall

Steeply down through a forest

Highest point with a view

Steeply upwards

Alpine farm

Steeply upwards

Bus stop

tired

someone has to pee

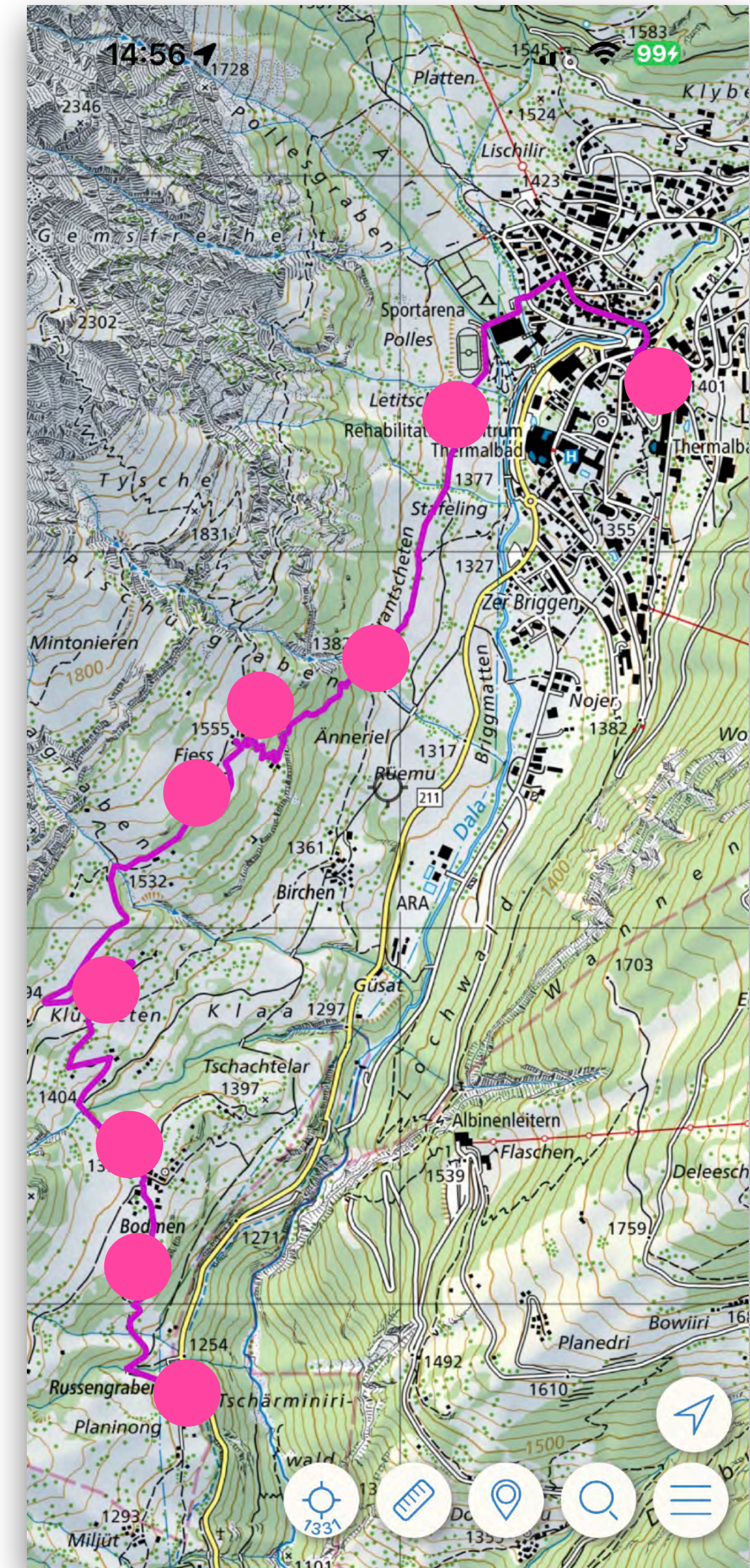
great

fun but dangerous

picknick

boring

busses are cool



**Guide: something to show  
you, what comes up next.**

# **Itinerary**

**Linear**

# **Map**

**2D**



17:43 📶 📶 100

Mein Standort ⋮

Zuhause ↕

🚗 33 min
🚆 54 min
🚶 5 h
🚰 1 h 36
✈️

Neu: Vorschläge für kraftstoffsparende Routen, die auf dem Motortyp deines Fahrzeugs basieren ✕  
[Motortyp auswählen](#) [Weitere Informationen](#)

**33 min (26 km)** 📍  
 Spart Benzin  
 Die aktuell schnellste Route aufgrund der Verkehrslage

☰ Schritte
▶ Starten
📌 Anpinnen

Verkehrslage

17:44 📶 📶 100

Verbindung ↔

**Winterthur Grüze → Zürich, [REDACTED]**  
 Mo. 27.02.2023, 54 min  
 18:03 ————— 18:48  
+ Reise speichern ⋮

**Aktueller Standort**

9' 🚶 Fussweg: 614 m >

**18:03 Winterthur Grüze Gl. 4**  
🚆 S 11 1. 🚶 2. 🚶  
 Richtung Aarau  
🚲

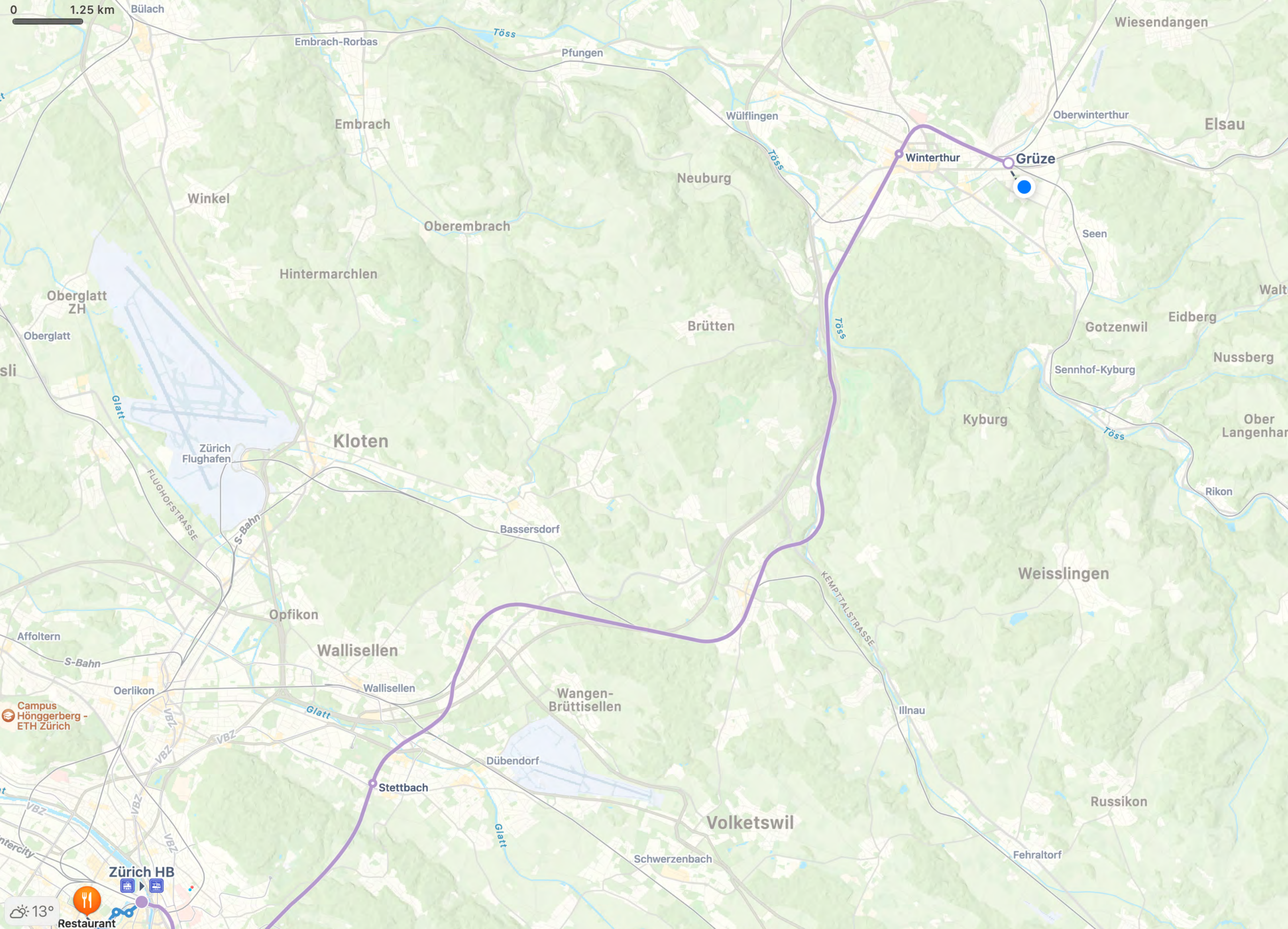
18:31 Zürich Hardbrücke Gl. 4

3' 🚶 Fussweg >

**18:34 Zürich Hardbrücke, Bahnhof**  
🚆 B 33  
 Richtung Zürich Tiefenbrunnen, Bahnhof

**Billette ab CHF 6.50**

🕒 Planen
🚆
🔍
📄
🚧



Mein Standort

Restaurant Volkshaus

Jetzt Planen

Optionen

**50 Min.**

Bahn, planmäßige Abfahrt: 17:03

9 Min. **S11** **3** **14** 5 Min.

**Start**  
Rudolf Diesel-Strasse 3, 8404 Winterthur, Schweiz

Zur Station „Grütze“ gehen  
600 m, ungefähr 9 Min.

**S11** In S-Bahn S11 einsteigen  
Richtung „Aarau“  
Bahnsteig 4  
Planmäßige Abfahrt um: 17:03  
[Mehr](#)

Bei „Zürich HB“ aus Bahn aussteigen

- Grütze 17:03
- Fahrt: 4 Stationen, 25 Min.
- Zürich HB 17:28  
Umsteigen in VBZ  
 bei Bahnhofplatz/HB.  
Schildern zur Tram **3** oder **14** folgen.

perfect view

restaurant

pond

get the bus

benches

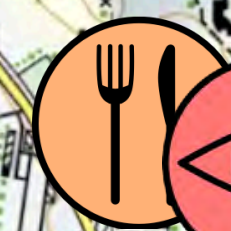
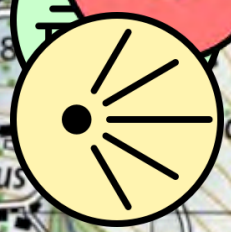
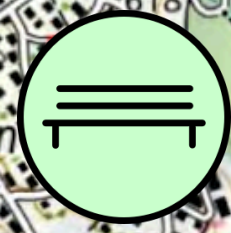
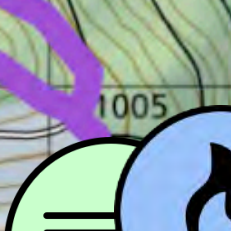
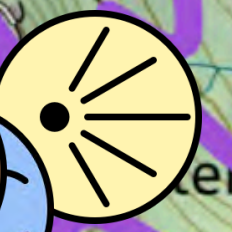
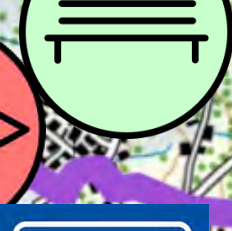
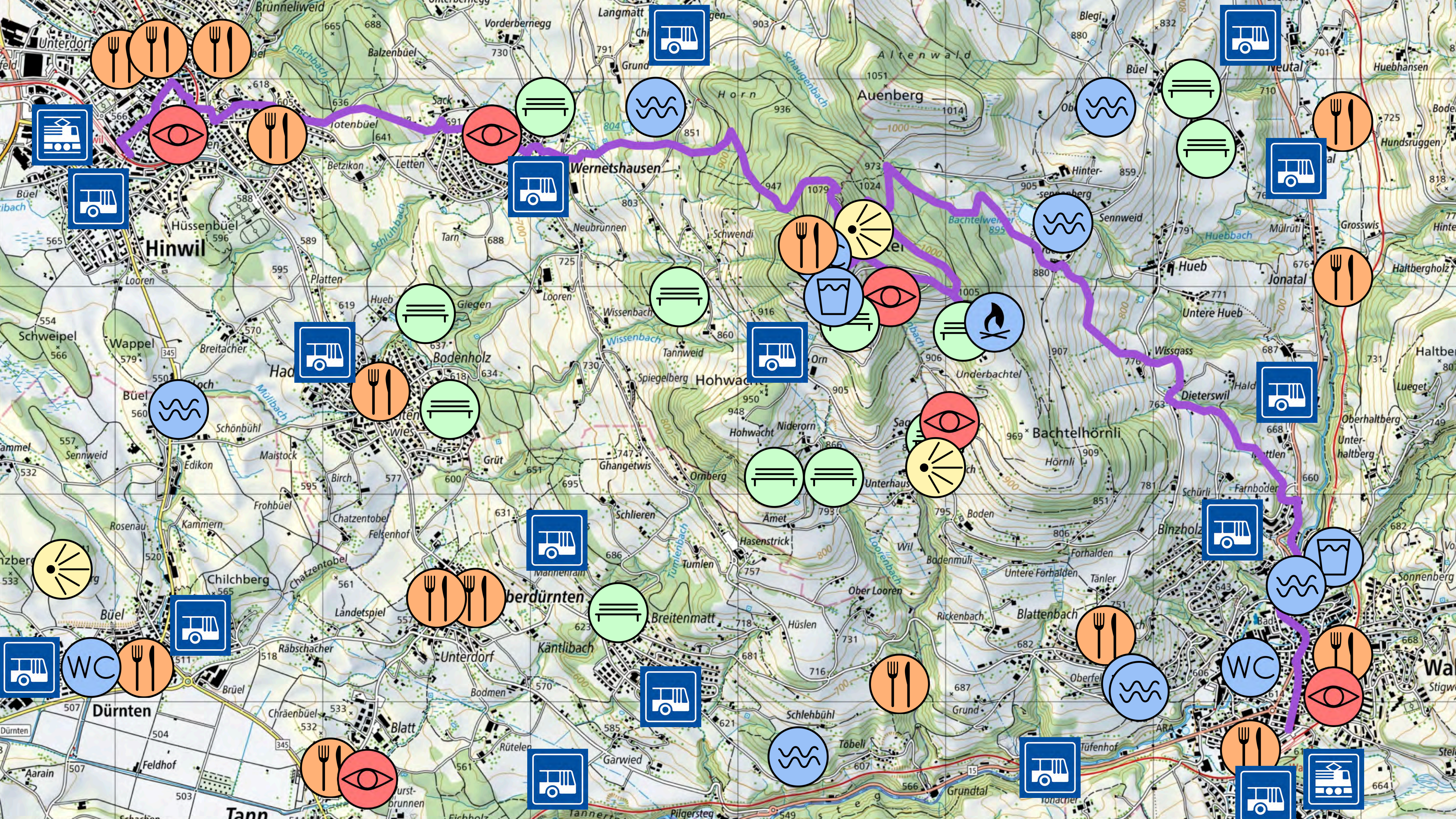
fire place

drinking water

toilets



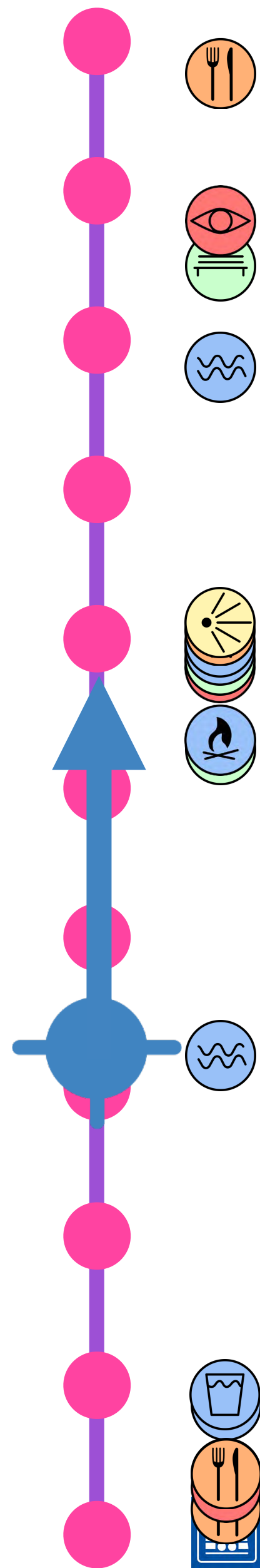
**How to provide and present  
geographic information for  
hikers?**





# Distance

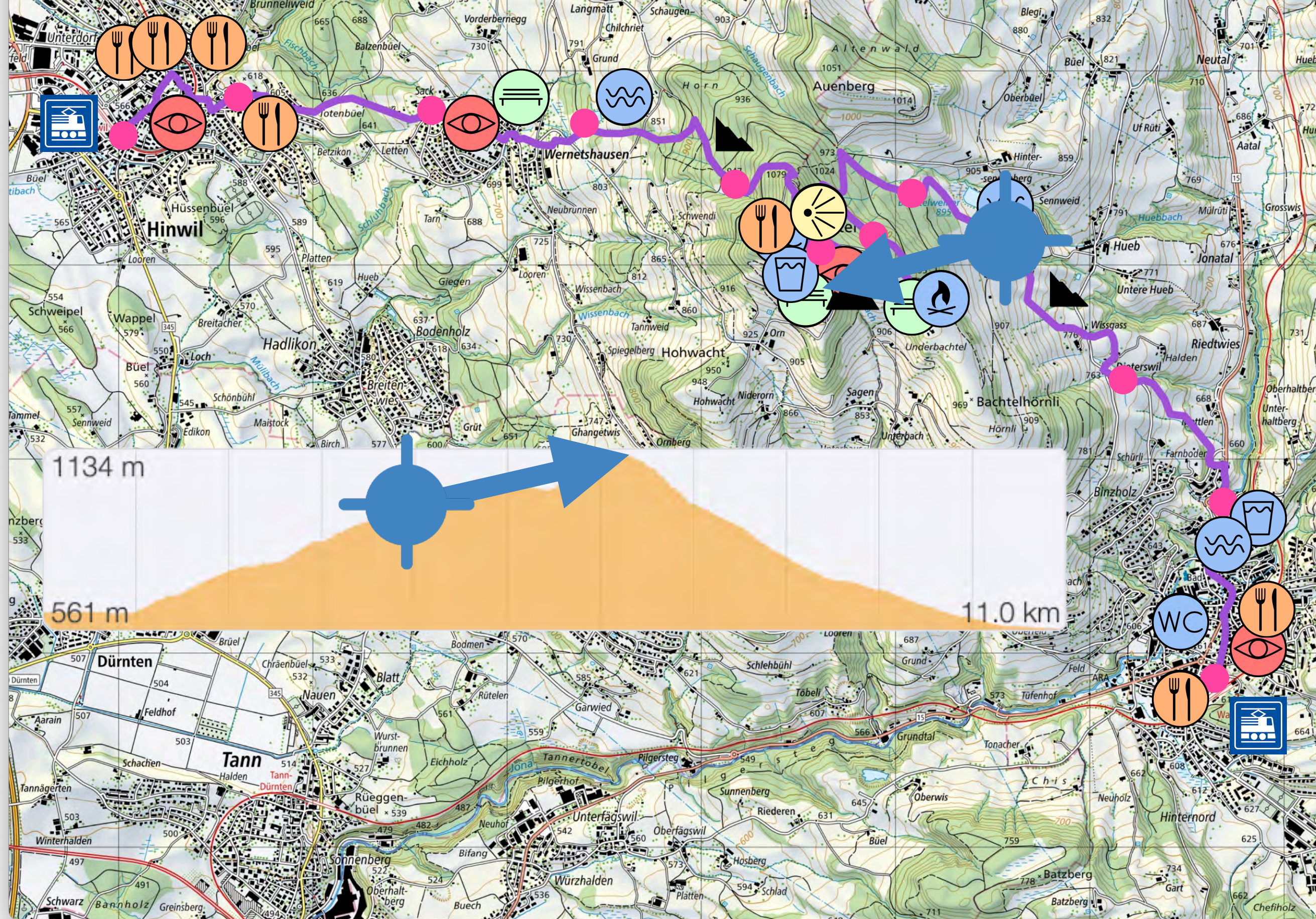
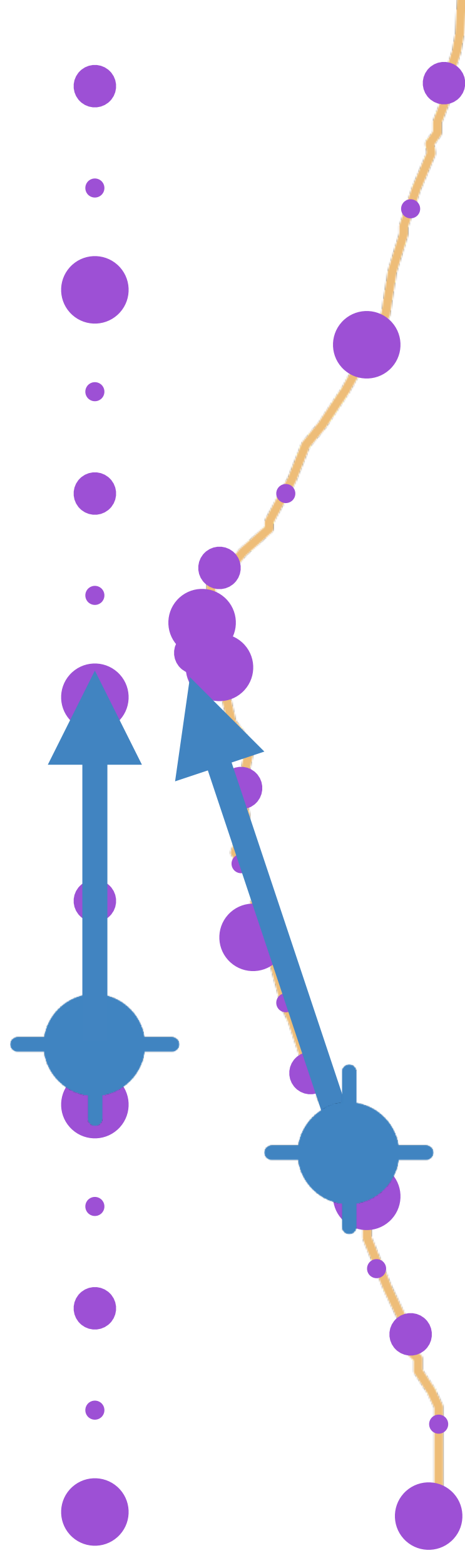
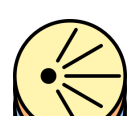
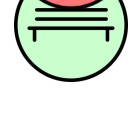
# Time



Wernetshausen

Bachtel

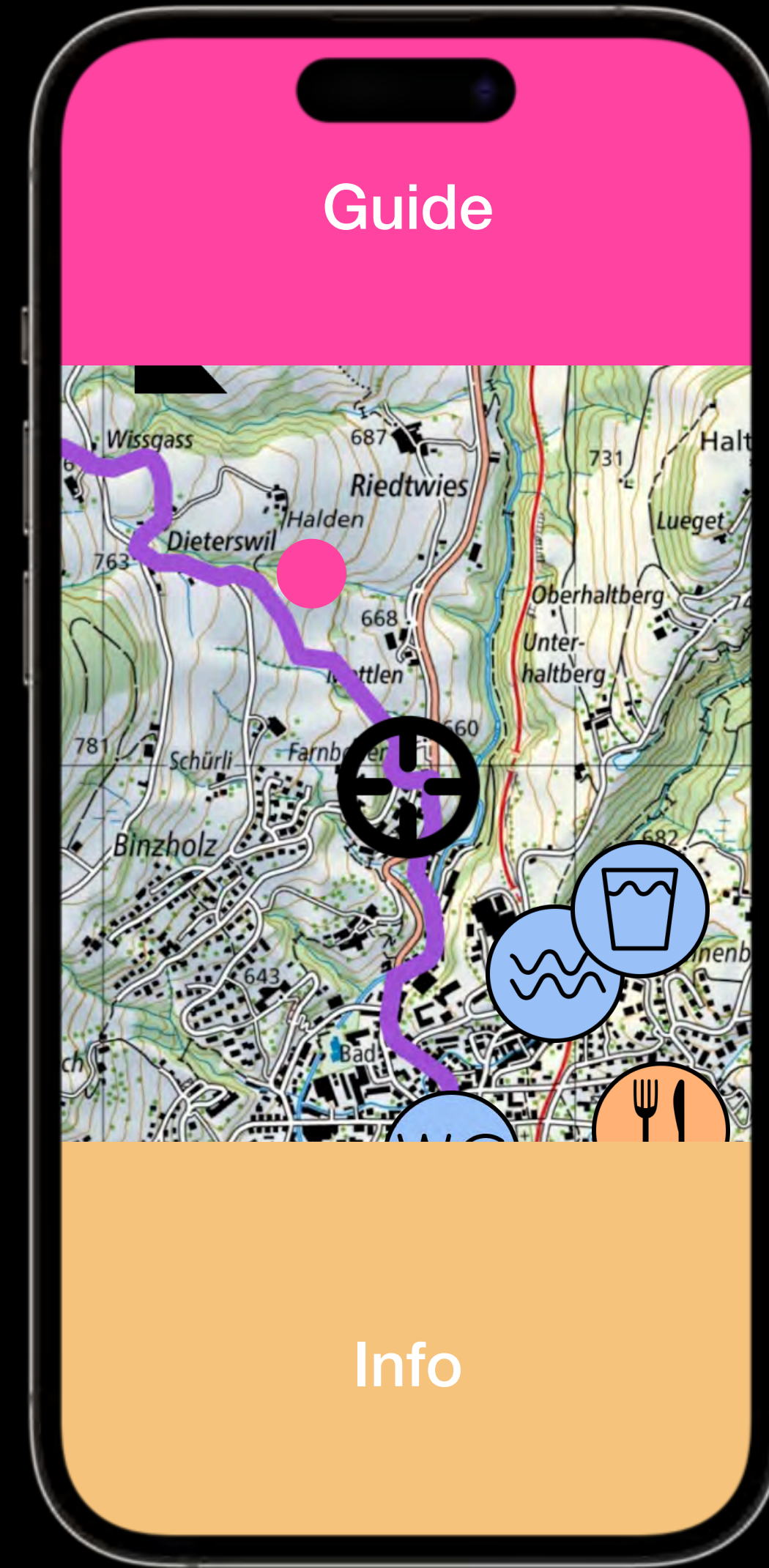
Wald ZH



1134 m

561 m

11.0 km





almost any

**user**

**hiking route**

**point of interest**

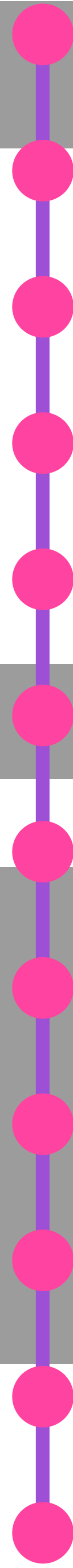
**Hinwil** 15'

**Wernetshausen**

**Bachtel** 5'

**Wald ZH** 1h 15'

**Wald ZH**



Artboard

Irgendein Berg	20
Langer Namen von Flu...	10
<b>Wusi Mätteli</b>	-10
Mare Crisium	-20
Froschbach	-30
Name	-30

15'

Irgendein Berg noch ein Berg	
<b>0:30</b>	Ein Flurname, den niemanden interessiert
<b>1:00</b>	Endlich ein Bergrestaurant
<b>1:30</b>	Schon wieder ein Bergrestaurant Hier noch ein Bergrestaurant
<b>2:00</b>	Talrestaurant Schon wieder Aufhören!

30	Frog Pond
20	
10	Das ist ein Flurname
-10	Bachtel-S...
-20	Alpenrose
-30	Seilbahnli



# Hinwil

in 3 h 10'

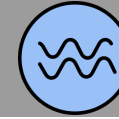


in 2 h 55'

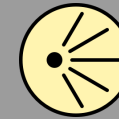


# Wernetshausen

in 2 h 10'



in 1 h 30'

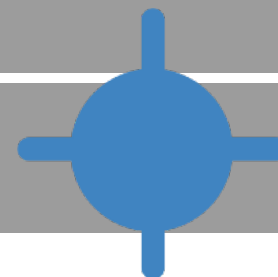


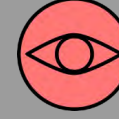
# Bachtel

in 60'



in 30'





# Hinwil

in 2 h 10'

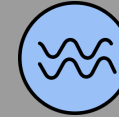


in 1 h 55'

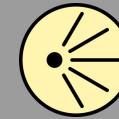
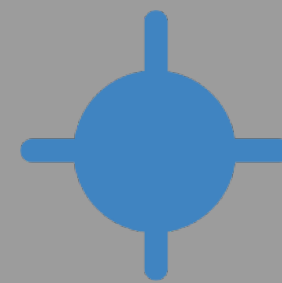


# Wernetshausen

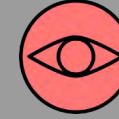
in 1 h 10'



in 30'



# Bachtel



60' ago



1 h 30' ago





# Conclusion

**Reality / Data Space**

**Exploring user needs / breaking rules and patterns**

**Civil Engineering / Architecture**



# When are we there?

Spatial information and geographical data along a time axis

