



KURZEMES
PLĀNOŠANAS
REĢIONS

GEOSITES

Database - a tool for local municipalities

LL-00244

Interreg



Co-funded by
the European Union

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Latvia – Lithuania

Goals

- » **Compile information** on all geological objects (caves, rock outcrops, waterfalls, hillforts, etc.) in Kurzeme and Žemaitija;
- » **Support municipalities** – the database can be used for management and administration of geological sites, and planning;
- » **Raise public awareness** about protection and responsible management of geological objects.

Progress so far



Data collected

» **2051 geological objects** in Kurzeme (1785) and Žemaitija (266):

17 Caves

117 Coastal cliffs

295 Hillforts

672 Rock outcrops

729 Springs

41 Other relief forms

39 Waterfalls

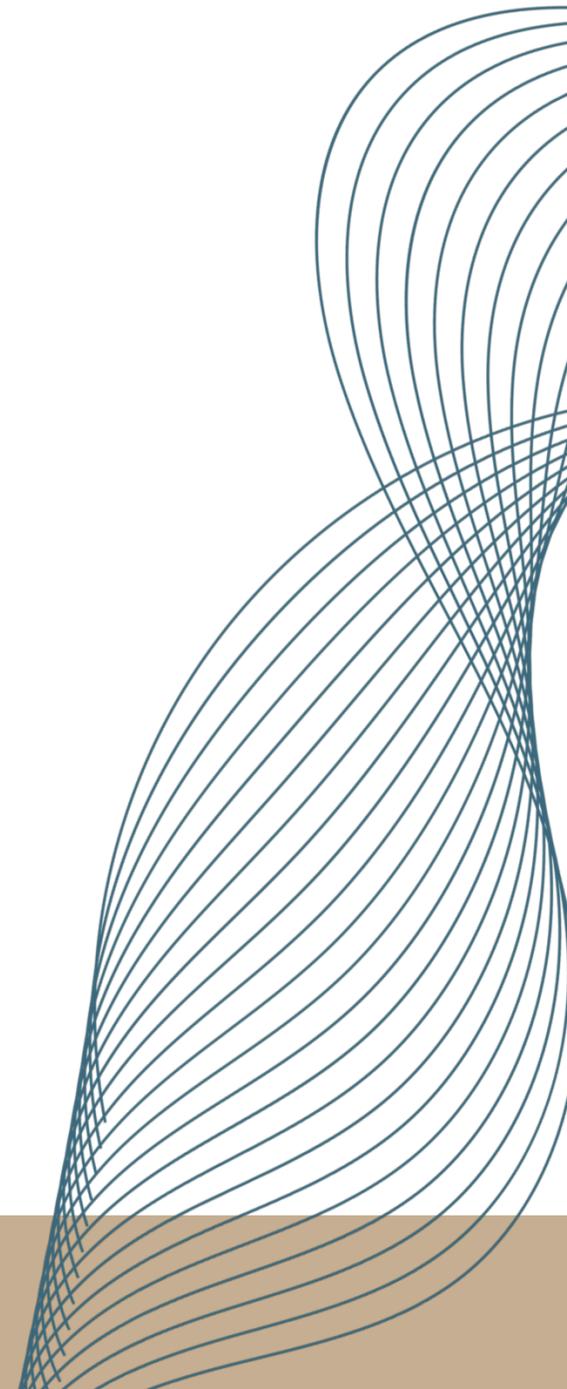
113 Stones

28 Other geological objects

» The database is continually updated with new information from archives and field visits

Data sources

- » **Nature conservation agencies** (protected sites, nature monuments, EU protected habitats);
- » **National Cultural Heritage Board** (archaeological monuments – hillforts, culturally and historically significant stones, springs, etc.);
- » **Municipalities** (TAPIS system, archives);
- » **Databases** on geological objects in Latvia by geology expert Andris Grīnbergs.



Site inspections

- » A site inspection survey has been developed using the *ArcGIS Survey123* tool;
- » The questions in the survey correspond to the attributes in the database;
- » So far, 6 sites in Kurzeme have been visited to fill in missing information in the database (e.g. exact location, pictures, measurements).

13:14

Jānis

Geosites site inspection survey

Observation date*

18.09.2025

Location of the object*

Atrast adresi vai vietu

Vadakste

Maxar | Hnit-Baltic, Lantmāteriet, Reģistrū ce. Powered by Esri

Geogr. plat.: 56,9376° Geogr. gar.: 24,0910°

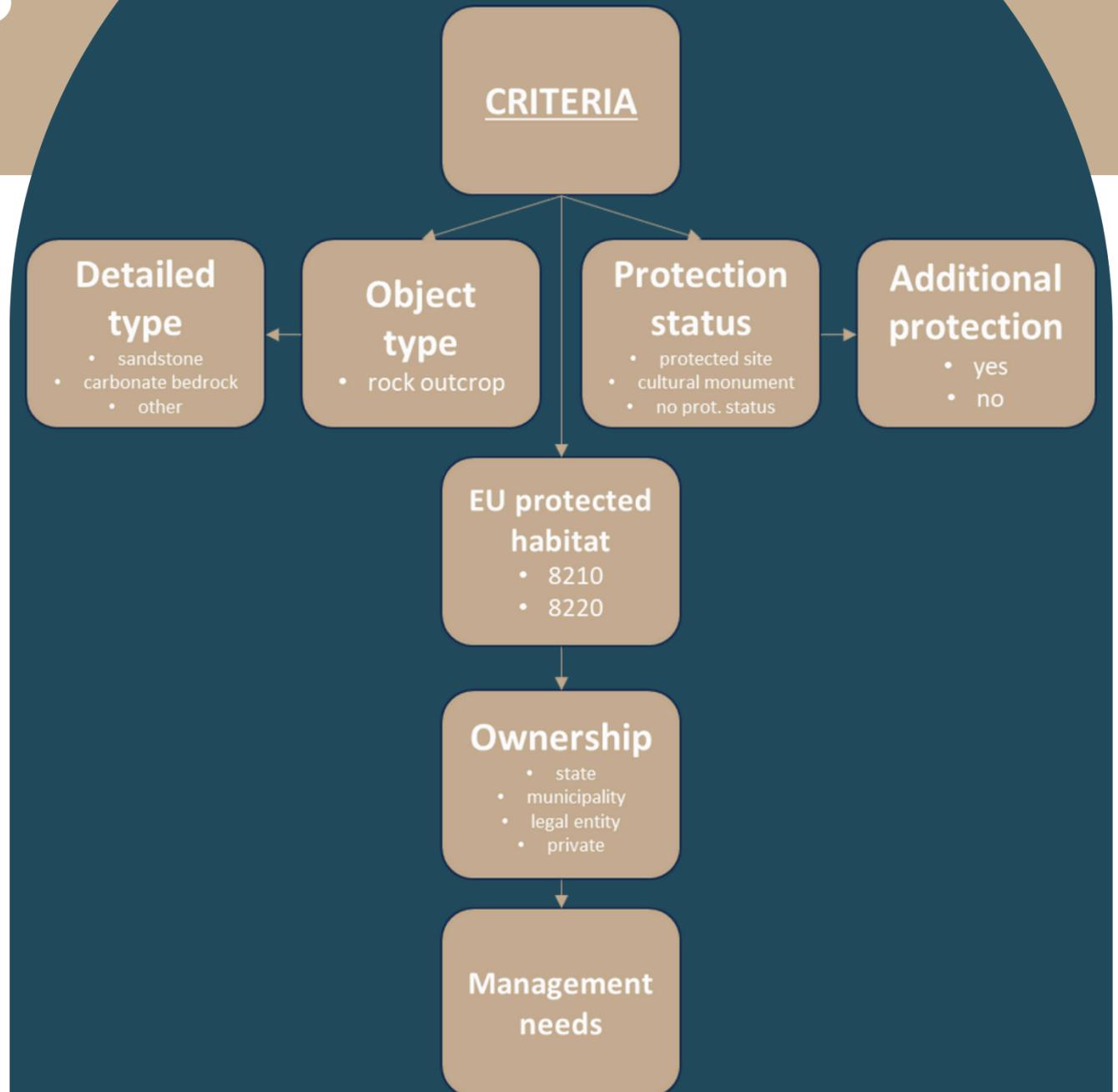
Object name

Object type



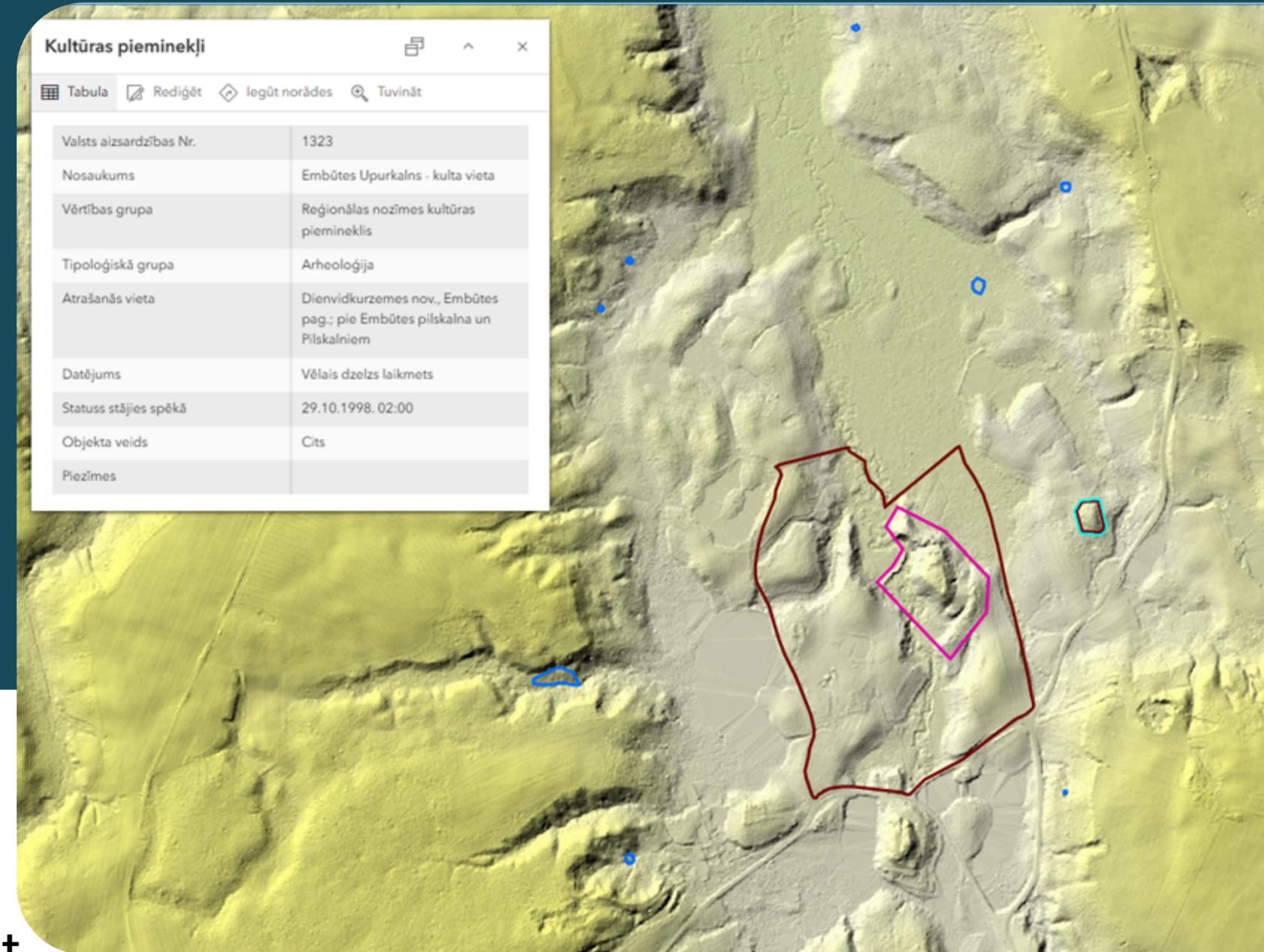
Criteria for categorisation of geological structures

- » A joint set categorisation criteria has been developed;
- » Criteria are aligned with the structure and attributes of the GIS database;
- » Enables comprehensive and comparable documentation of geosites;
- » Provides the basis for prioritising sites, managing them effectively, raising public awareness, and supporting strategic planning.



Next goal: GEOSITES Interactive map

- » Developed using *ArcGIS Online* tools;
- » Open to public – possible to download data (*.shp, *.gdb, *.xlsx, "object passports");
- » Languages: LV, LT, ENG;
- » Supports municipalities and planning regions with detailed data for spatial planning;
- » Enables integration into local development plans to ensure protection and sustainable management.



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