

GeoERF

Managing Urban Shallow geothermal Energy



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731166



Why focus on urban shallow geothermal energy?



> 75 % of Europe's population

- Increasing population density
- Energy transition
- Increasing stress on underground

Management of shallow geothermal energy required!

Challenges

- Lack of common definition of shallow geothermal energy
- Lack of awareness
- Complex legal framework
- Time consuming licensing procedures
- Lack of registers on shallow geothermal energy installations
- Lack of monitoring
- Limited access to knowledge, information and data influencing construction and operation of shallow geothermal energy systems



Report on current legal framework, procedures and policies

Guideline for managing the use of SGE in urban areas

EU Shallow geothermal Energy League 2018 (EGEC 2018 Market reports)

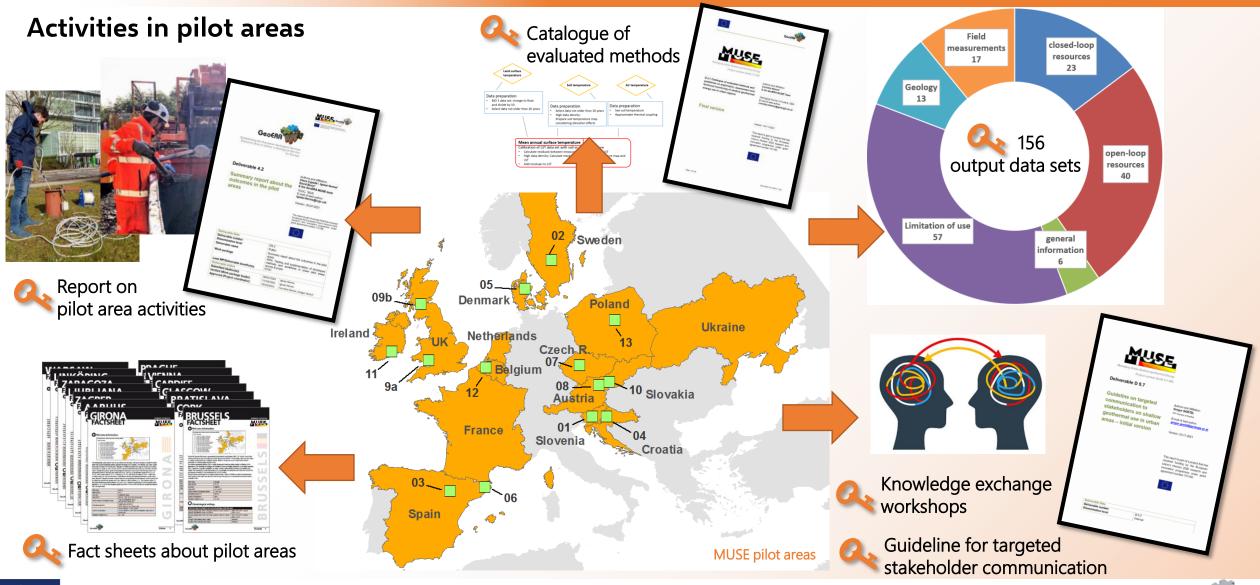
Rank	Installed units (per 1000 inhabitants)
#1	Sweden (55.0)
#2	Finland (21.5)
#3	Estonia (12.7)
#4	Austria (12.4)
#5	Denmark (11.3)
#6	Slovenia (5.7)
#7	Germany (4.7)
#8	The Netherlands (3.5)
#9	France (2.4)
#10	Lithuania (2.0)
#11	Poland (1.4)
#12	Luxembourg (1.3)
#13	Bulgaria (1.2)
#14	Belgium (1.2)
#15	The Czech Republic (1.1)
#16	Ireland (0.9)
#17	Slovakia (0.7)
#18	United Kingdom (0.5)
#19	Hungary (0.2)
#20	Italy (0.2)
#21	Portugal (0.1)
#22	Spain (<0.1)



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GeoERA

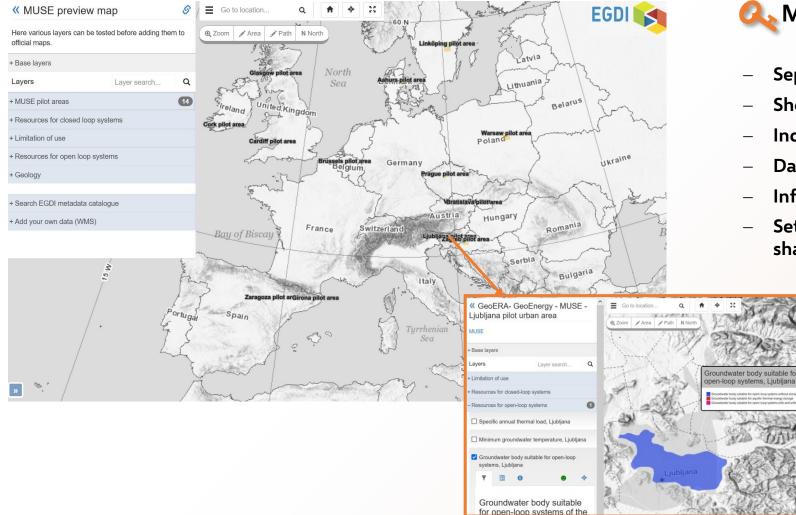




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MUSE webviewer(s) in EGDI



- MUSE web information system (https://geoera.eu/projects/muse3/)
- Separate viewers for pilot areas
- Shows spatial data sets

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- Includes metadata and vocabulary
- Data sets available for free download
- Information for stakeholders
- Sets an example for future platforms of shallow geothermal energy



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