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DECARBONISE HEAT SUPPLY **QUICKLY** AND **AFFORDABLY**

Alisa Freyre, Founder & CEO PAN DATA GmbH

19.11.2025 – Swiss Energy Startup Day

How to **decarbonise effectively** on individual **building** and **territorial level**?

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District heating

Heat pumps

Risks related to **lack of coordination**

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District heating

lose customers
to independent heat pumps

Heat pumps

overload local **electricity grids**

Feasibility of heating solutions for **each building**

Within an **entire region**

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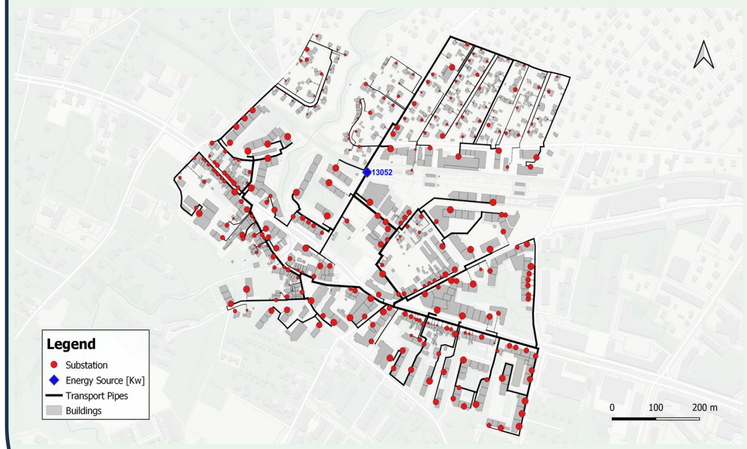
District heating

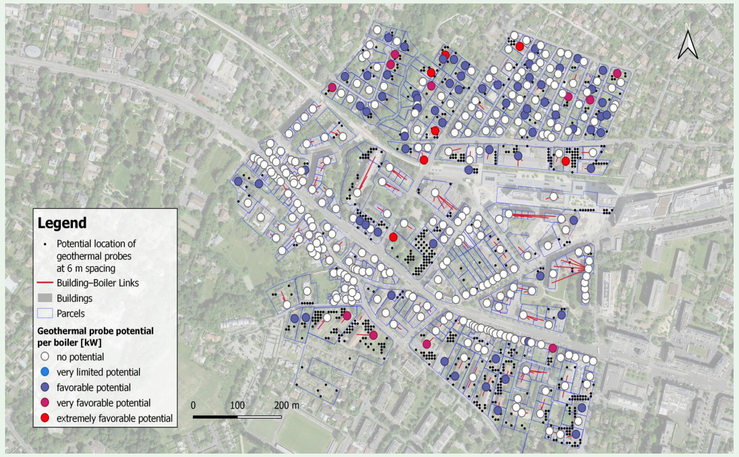
Heat demand analysis

Master plan -> Feasibility study



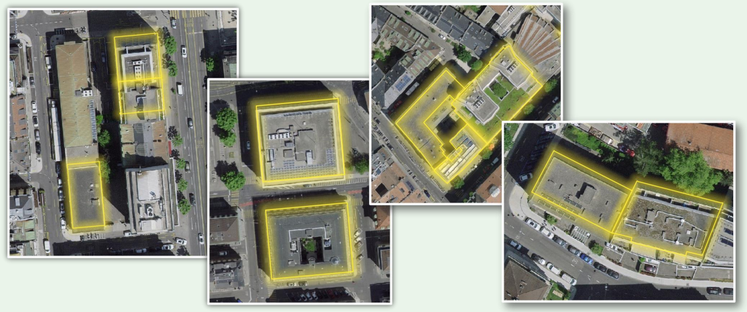
Geothermal heat pumps

Parcel and building-level assessment



Air-to-water heat pumps

Roof suitability in dense urban environments



Best-available data for territorial assessment

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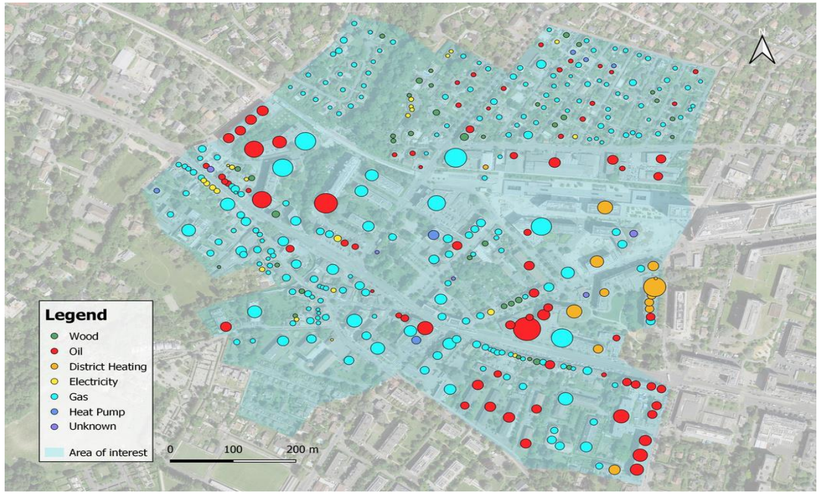

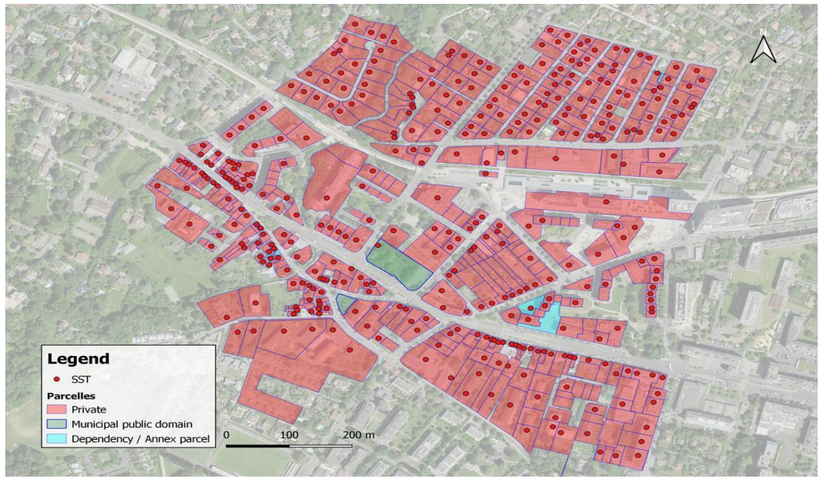

Techno-economic evaluation of feasibility of district heating projects

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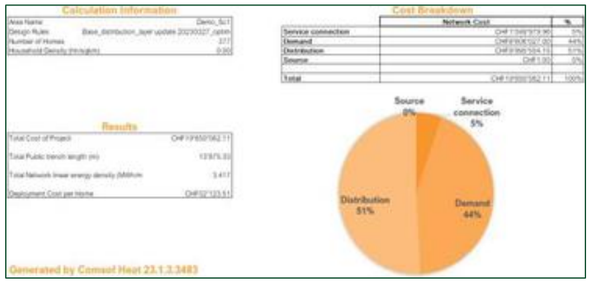

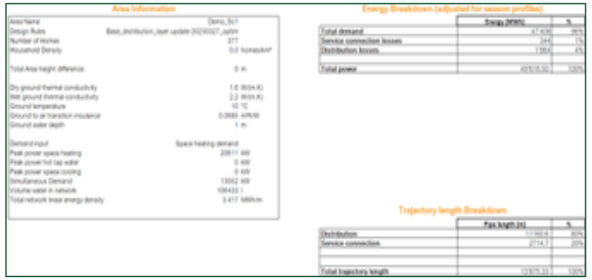

Sufficiency of space available for geothermal probes per heating system

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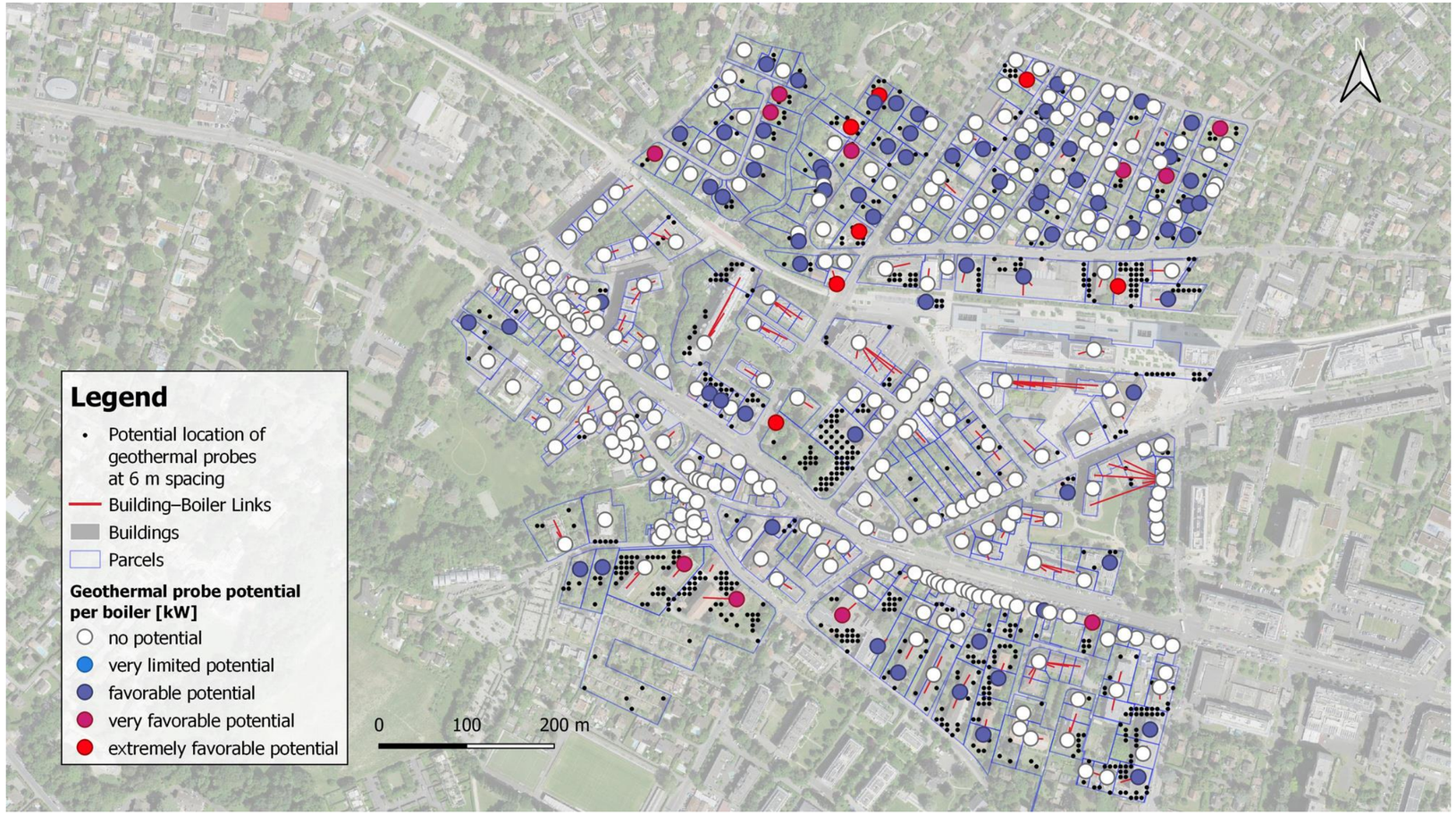

Roofs suitable for air-to-water heat pumps in dense urban environments

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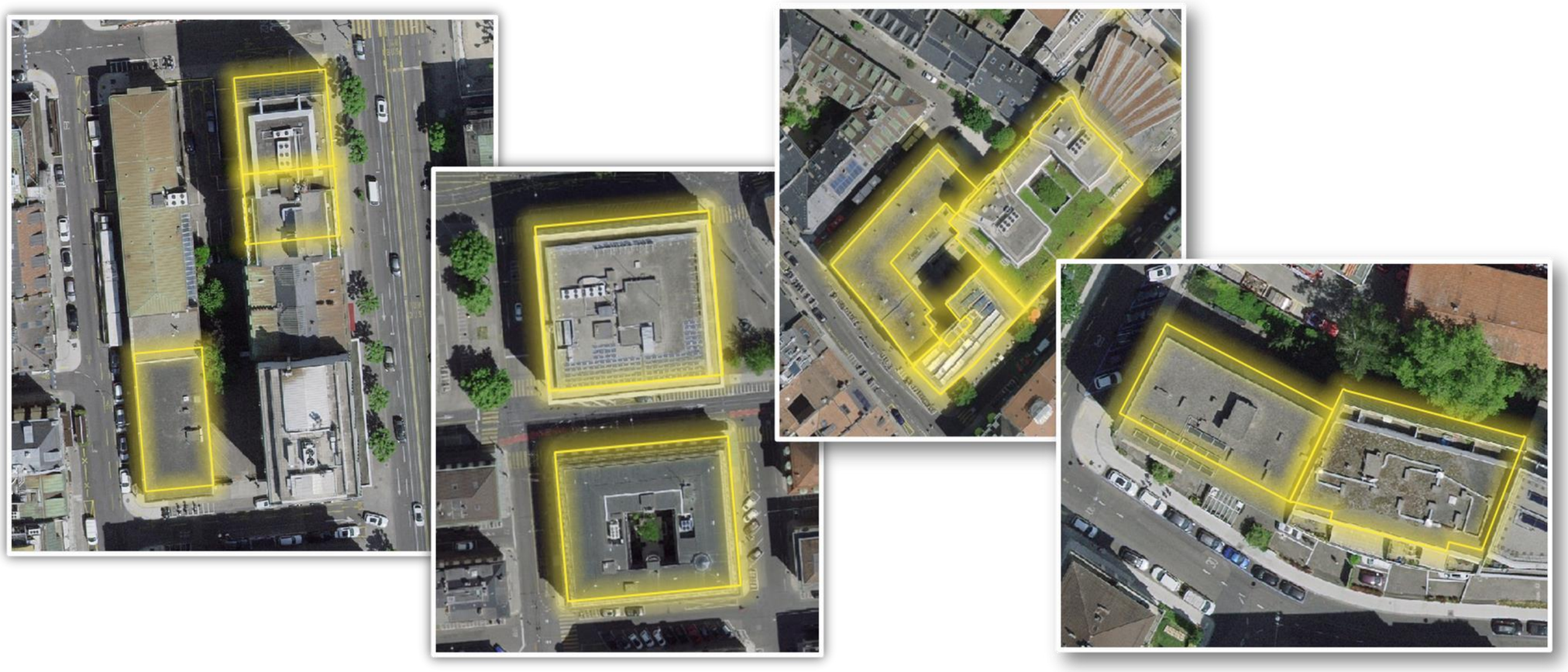

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We deliver **investment-grade studies** in a **fraction** of the **usual time and cost**

Our experience

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44+ **District heating** projects
- **Master plans** and **feasibility studies**
- From **small village network**s to **regional-scale** projects (> 500 million CHF investment)

3+ **Energy planning projects for municipalities**
- **Air-to-water heat pump** potentials
- **Ground-source heat pump** potentials
- **District heating** potentials
- **Solar** production
- **E-mobility** development
- **Optimisation** for **heating costs** and impact on the **grid**

1 **Canton**
- Assessment of **roof suitability** for **air-to-water heat pumps** in **dense urban environments**

Nos collaborations

SIG

VSE AES

Energy Savers

Swiss Territorial Data Lab

IBM Research

IrDEA Irish District Energy Association

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Value for utilities

Maximum decarbonization at the **lowest cost**

Greater **system flexibility**

Reduced network **investment risk**

New service **opportunities**

Alignment with **municipal energy planning**

Are you ready to take the next step?

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