

The case of Geneva canton, Switzerland

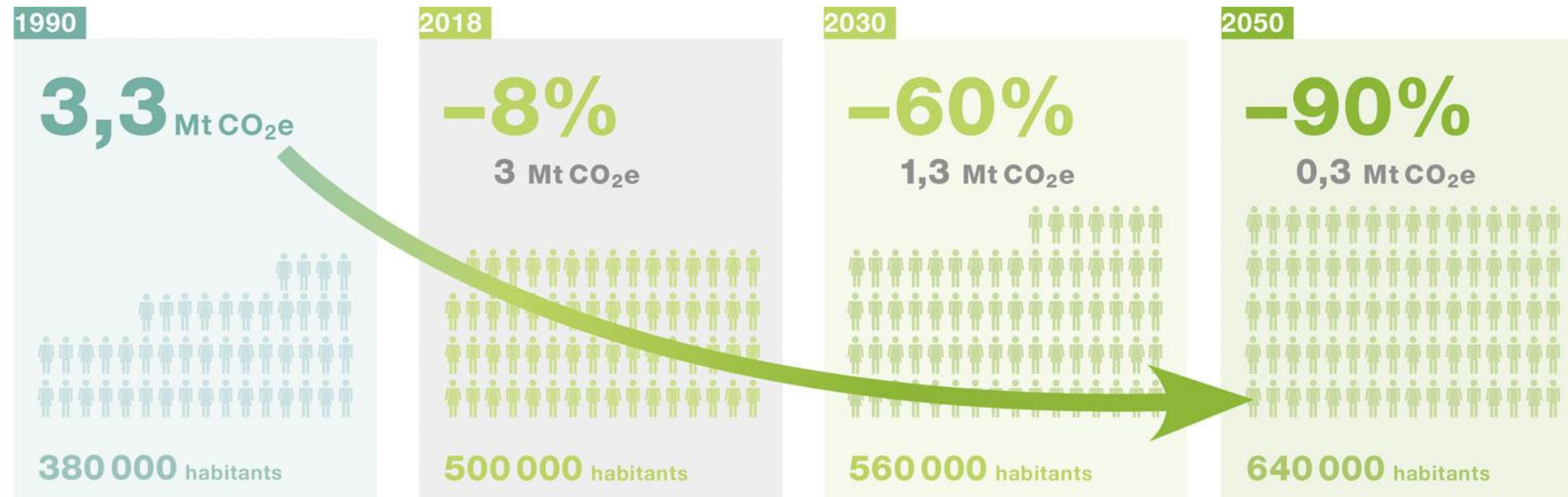
Marie Lecompte, Geneva Canton

Experience Geothermal – The Hague – March 9th 2022



Cantonal action plan for energy goals

RESPONDING TO THE CLIMATE EMERGENCY



Reducing the canton's greenhouse gas emissions to achieve climate neutrality by 2050, despite the population increase

Integration of geothermal energy

District Heating Network

25% from medium depth geothermal

In complement to waste incineration; waste water plant; waste wood and biomass.

Low Temperature District Network

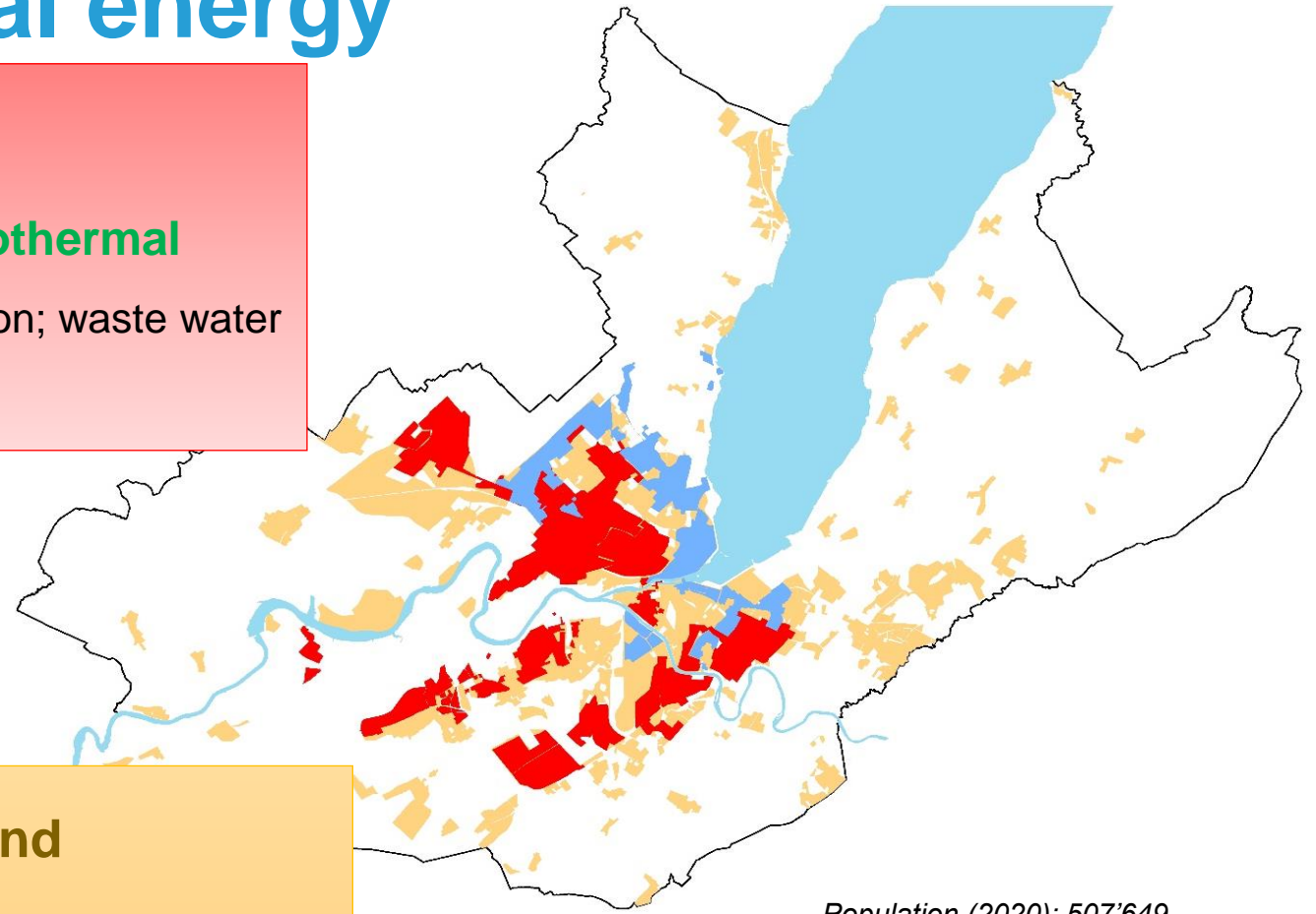
Water from the lake

Connection to shallow depth aquifers for temperature regulation and seasonal storage

High density of heat demand

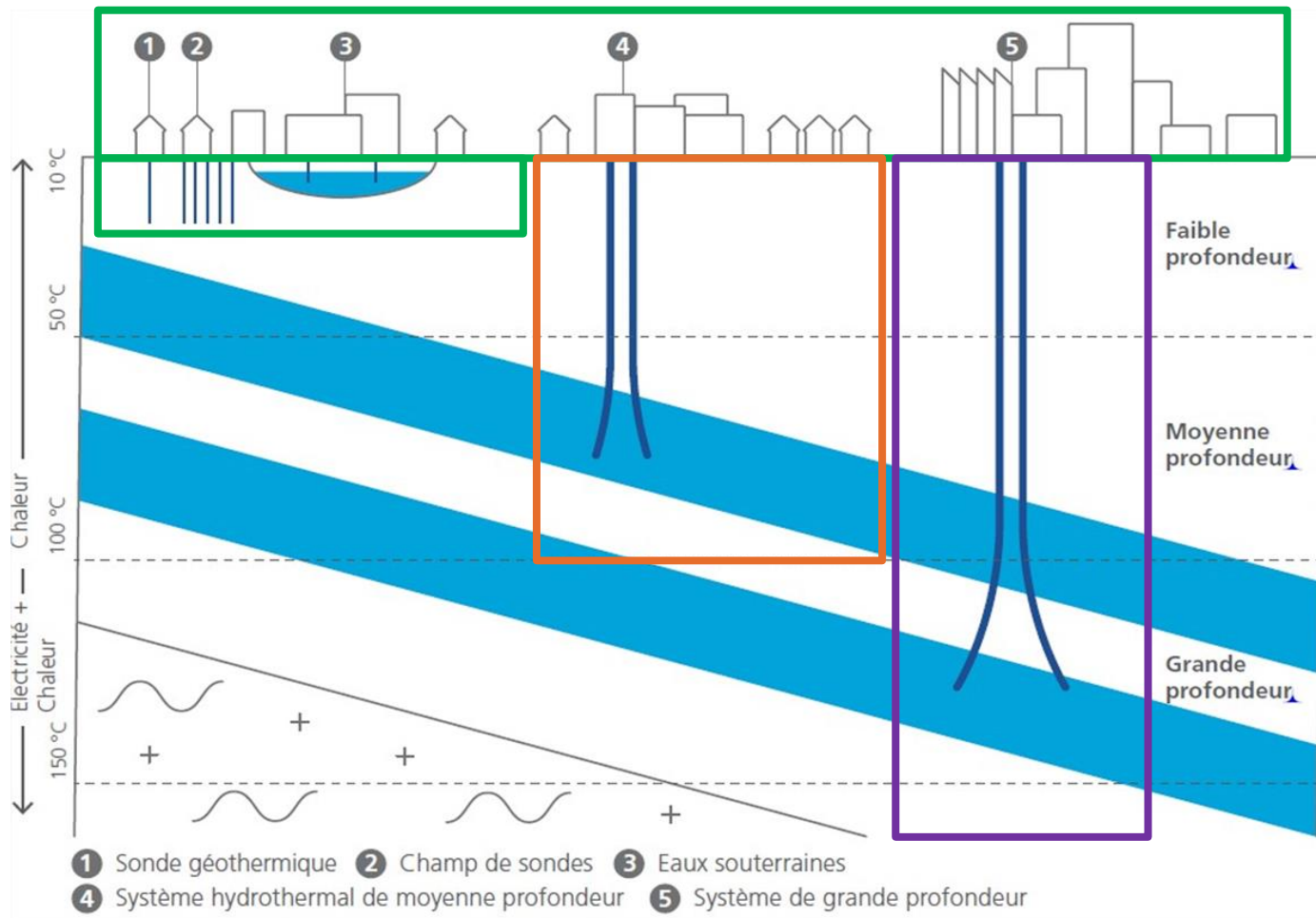
Geothermal heat probes

Local networks on shallow depth aquifers



Population (2020): 507'649
Area: 282 km²
Heat density > 200MWh/ha/yr
District networks > 500MWh/ha/yr

Subsidies schemes applicable to geothermal



Canton Geneva subsidies (funding: federal CO2 tax + canton)

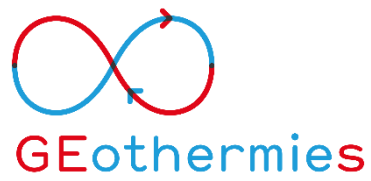
- Building energy use, construction standards
- District heating network developments

Federal funds (CO2 law LCO2):

- Targets geothermal for **direct heat use**
- Prospective and exploration activities; development projects' underground infrastructures

Federal funds (Energy law LEne):

- Targets geothermal for **electricity generation**
- Risk insurance; prospective and exploration activities
- Electricity buy-back



Geneva canton: geothermal development program

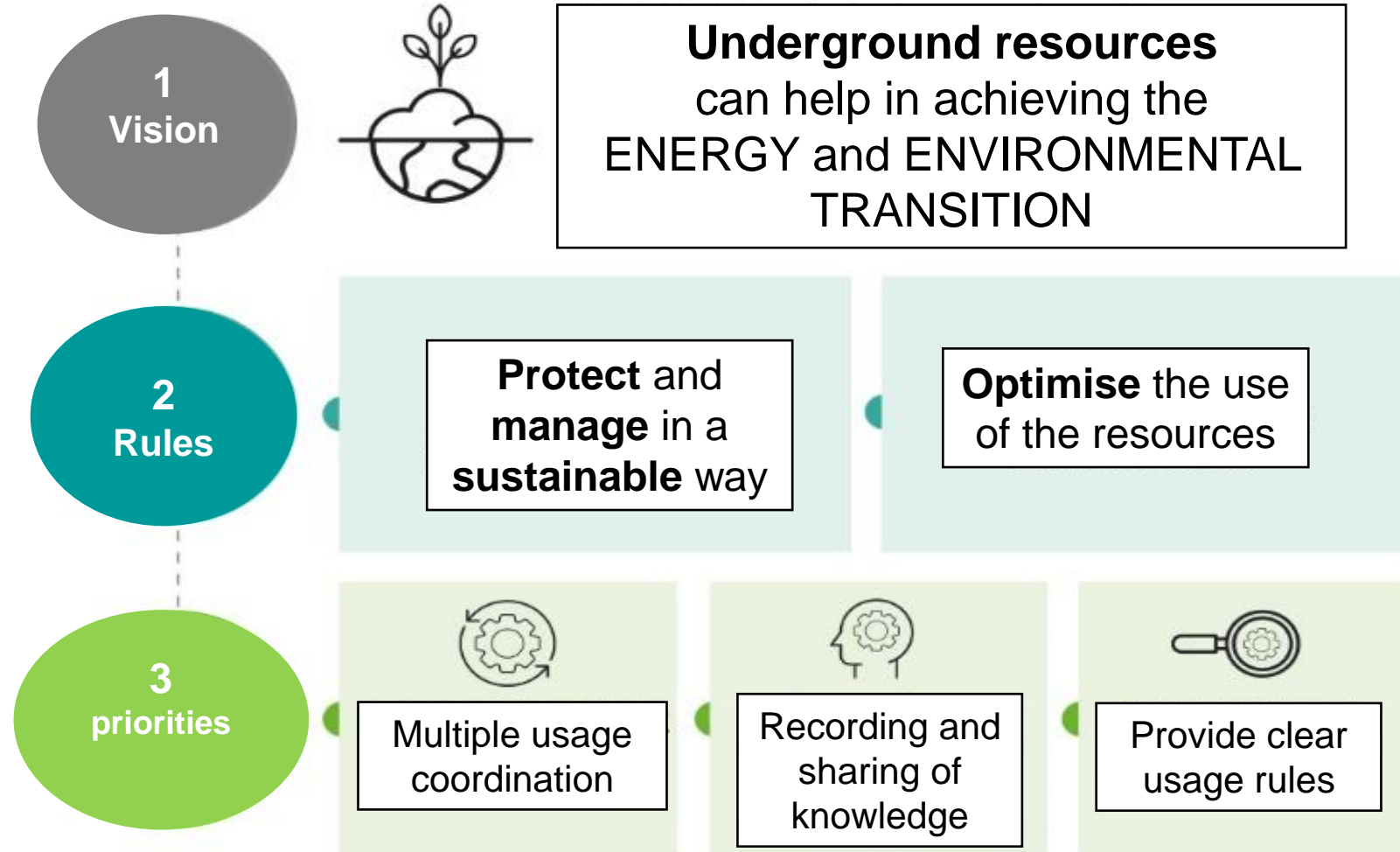
1 goal

9 strategic pillars

An embracing approach with
numerous objectives



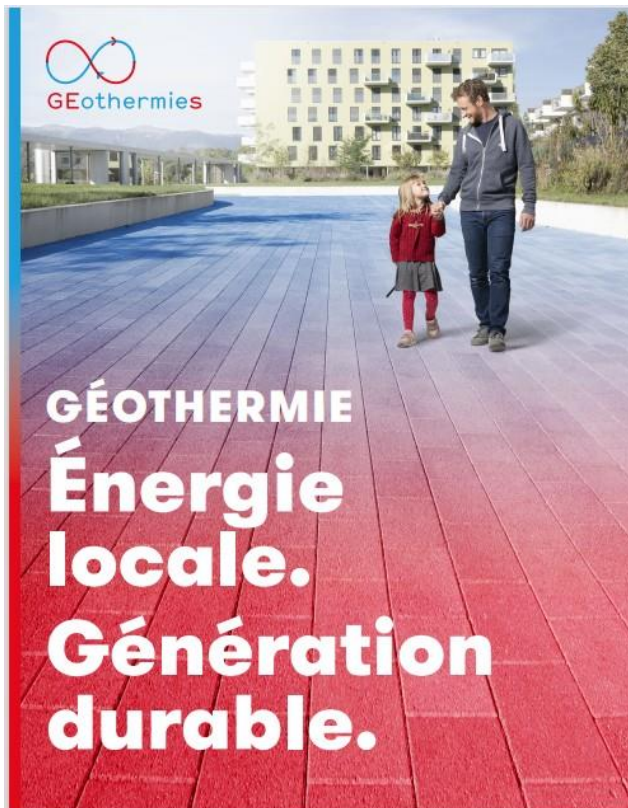
Underground resources planning policies




Thank you for your attention



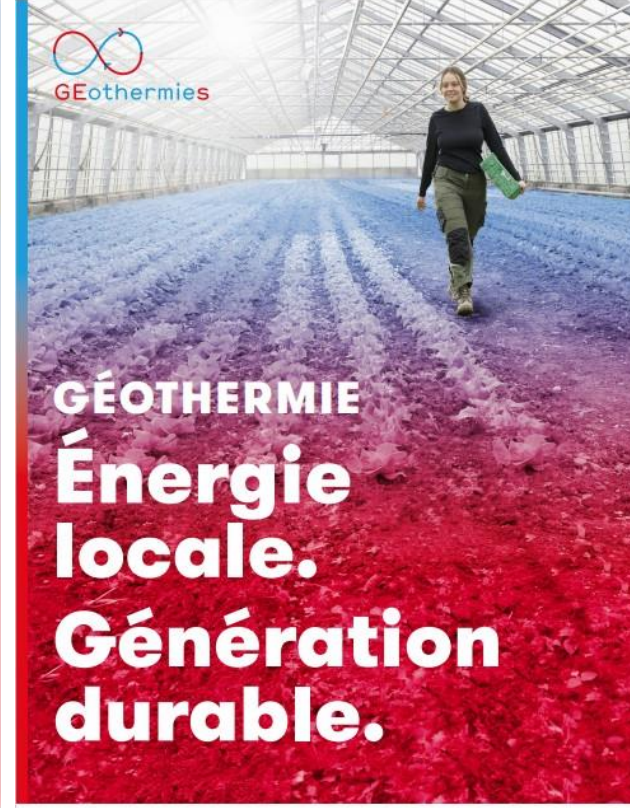

GÉOTHERMIE
**Sous nos
pieds notre
énergie.**





GÉOTHERMIE
**Énergie
locale.
Génération
durable.**




GÉOTHERMIE
**Sous nos
pieds notre
énergie.**




GÉOTHERMIE
**Énergie
locale.
Génération
durable.**



www.geothermies.ch



www.geothermies.ch



www.geothermies.ch



www.geothermies.ch

