Increase in space requirements 2020 to 2025 based on data traffic growth

- Zurich: x18
- Silicon Valley: x50
- Frankfurt: x80
- Singapore: x85

Growth factor based on estimated increase in data traffic.
WHY UNDERGROUND?

- Land in urban areas is scarce and expensive
- Going underground offers space and flexibility
- The underground provides natural protection
- Sensible use is made of derelict tunnels, basements and underground spaces
- Such structures are feasible in a huge variety of soil conditions thanks to cutting-edge technology
- Reduced energy demand
- Sustainable and resilient solution
- Cool and secure environment
EDGE COMPUTING UNDERGROUND!
Below ground means new perspectives

Geo-energy solutions dissipate and store heat

Data centre containment and in row coolers solutions maximise energy efficiency

Data centre excess heat energy to nearby consumers

Underground water sources support free cooling

Natural cold water sources provide active cooling
UDC Prototype @ Hagerbach Test Gallery
Underground Green Farming

With Underground Green Farming, SCAUT together with industry partners offers a solution that provides an alternative for the lack of arable land through degradation of soil and contributes to providing food security.
UGF Prototype @ Hagerbach Test Gallery
Thank you very much for your attention!

[Links]
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