

BELOW GROUND MEANS NEW PERSPECTIVES

EDGE COMPUTING UNDERGROUND!



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Our world is becoming increasingly digital, interlinked and intelligent. IoT, automation, 5G, robotics and artificial intelligence are opening up many new applications and business models.

The volume of data produced will continue to grow exponentially. These data volumes have to be processed close to their source (edge computing) – due to, among other factors, efficiency and latency times. A lot of mini and micro data centres are needed to do this.

In tomorrow's ever more densely populated "smart cities" this development will lead to spatial constraints. Here the Datwyler and Amberg concept of "Edge Computing - Underground!" provides a space-saving, cost-efficient, secure and resource-conserving alternative.

WHY “EDGE” DATA CENTRES?

“In 2017 about 10% of data were created and processed outside centralized data centre and cloud. By 2022 they predict this figure will reach 50%.” (GARTNER)

WHY EDGE COMPUTING UNDERGROUND?

- ✓ Land in urban areas is scarce and expensive
- ✓ 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

KEY ADVANTAGES

- + Stable climatic conditions mean low energy consumption
- + High security
- + Protection from natural forces
- + No land usage in urban areas
- + May be located in close proximity to data users
- + Virtually “invisible”
- + Construction is not weather-dependent

COMPETENCIES

- + Datwyler: specialist in data centres and edge computing
- + Amberg Engineering: specialist in underground infrastructure
- + Many years of experience in efficient planning and implementation
- + Compliance with international standards
- + Turnkey solutions

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EDGE COMPUTING UNDERGROUND!

We are the expert partners for all your
Underground Edge Computing ideas and projects.
Contact us if you are interested – or visit our Demo Data Centre
in the Hagerbach Test Gallery!



your specialist in
underground infrastructure



DATWYLER

your specialist in data centres
and edge computing

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