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## Expertise above and underground – Today and tomorrow.

### Comprehensive infrastructure services

Infrastructure, both above and underground, requires significant investment for maintenance, often exceeding existing budgets. Amberg's infrastructure management solutions can extend the life cycle of your asset portfolio, optimising its net present value, usability and safety within budget.

### Connecting cities and communities – Empowering tomorrow

From initial planning to long-term maintenance, we provide comprehensive support for infrastructure such as metro or rail. Our harmonised design methodology, professional risk management and seamless multidisciplinary coordination ensure efficiency, cost transparency and reliable approvals. We also stand for cost-optimised maintenance and excellent facility management during operation.



AMBERG GROUP

## Smart use of space

## Where experience and expertise open up new horizons

The Amberg Group is a unique knowledge, engineering and technology provider of logistics, constructions and infrastructures for smart cities, hubs and networks through innovative combinations of above and underground space usage.

Together with a network of strong, competent and dedicated partners, the Amberg Group delivers top quality services and products using cutting-edge technology. These products and services cover the entire life cycle of the infrastructures and all engineering and technology aspects in a digitalized manner.

The great synergy potential of know-how and innovation makes the Amberg Group the leader in this network. In-house developments, start-ups and JVs are the preferred methods for implementing new business models.



## Your analysis and testing requirements

- Real scale test and prototype environment
- Analysis of construction material
- Training facility
- Unique location for your event

## Our facilities and services

- Various test sites, test procedures and management
- Concrete and rock laboratory
- Training environment and syllabus
- Seminar rooms, event cavern and restaurant

More about  
the underground  
future lab

hagerbach.ch

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Scan to see  
more about  
our services





### Your Underground Experts

- Rail tunnels including high-speed rail
- Metro lines
- Tunnel and shaft infrastructures
- Caverns with large cross sections
- Energy storage and utilities

### Engineering at its best

- Amberg Engineering offers numerous services for your entire project cycle from feasibility, planning, and construction to renewal of your infrastructure.
- Trained specialists and experts in planning and design, geotechnics, and project management

### Infrastructure Experts

- Rail, Metro, Tunnel
- Underground space
- Mining and shafts

### Systems and Solutions

- Slabtrack, tamping, mapping, survey and inspections
- Tunnel machine guidance
- Tunnel profile measurements and stakeout
- Undulation
- Layer thickness control
- Surface Inspection
- Geological prediction during tunnel excavation
- Surveying and data analysing & Maintenance

### Smart Cities and Construction Logistics Experts

- Manage stakeholders across the value chain
- Improve construction mobility in dense cities
- Unlock up to 50% true potential of assets
- Integrate circular economy into construction
- Use smart data throughout the supply chain

### Solutions for Construction Sites

- End-to-end Digital Logistics Processes
- Rapid Prototyping and Smart Sensors (IoT)
- Logistics Concept and Manual (3D/ 4D)
- Integration of Logistics Data
- Logistics Insights Management (LIM)
- Construction Logistics Management (CLM)
- Management of External Hubs and Consolidation

### Digital Infrastructure Experts

- Data acquisition and processing
- Monitoring
- Measurement of geotechnical tasks
- Maintenance and operation
- Process optimization and digital continuity

### Solutions and Services

- Geo-Monitoring
- Mobile Mapping
- Geomatics
- Inspection Services
- Digital Construction

### Design and Construction Experts

- Design and BIM integration
- Coordination between different disciplines
- Information workflow setup
- Facility Management and BIM integration
- Visualization

### Services

- BIM Implementation and models creation
- Clash detection, Coordination, and Clash resolution
- Construction documentation and Shop drawings
- 4D simulation and 5D estimation
- Underground Utilities
- Laser scan to As-Built models
- IT Solutions – BIM integration with FM application

### The AI Agent as a Service for Construction Industry

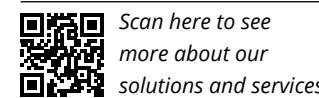
- AI agent dedicated to the AEC industry
- Easy access to complex project information
- Helps to make confident, informed decisions
- Opens data silos, unlocks all content and uncovers context
- Effortless interaction with your most valuable asset – your collective knowledge

### Solution and Services

- AI Agent as a Service
- Strategic Consulting and Training
- Development of tailored solutions



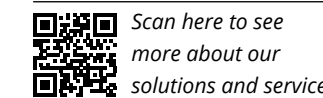
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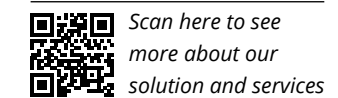
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