



Rover Grupo Streamlines Concrete Monitoring for Tunnel Construction

Real-time concrete **monitoring** for underground **success**

At Rover Grupo Sweden, the decision to implement a sensor-based solution for concrete monitoring has enabled significant improvements in their tunnel construction projects. By choosing an automated system like Maturix over traditional data loggers, Rover has been able to streamline documentation processes and gain better control over the concrete curing phases.

“My previous experience with Maturix made the decision process simple, since I know that the system works great with handling a high volume of monitoring castings at the same time.”

– Fredrik, Project Engineer, Rover Grupo Sweden

Tunnel construction presents unique challenges, with limited access, thick sections, and strict requirements for both timing and safety. Through remote, real-time data access, Rover’s project team can now monitor temperature and strength development directly from their offices, even when castings are taking place far underground. This immediate insight helps the team make faster, data-driven decisions about critical tasks, such as formwork removal, without relying on manual checks.

The system has been particularly valuable during the cold winter months in Stockholm. Continuous monitoring ensured that concrete was properly protected, allowing the team to react early with post-heating or cooling interventions as needed. During the casting of thick tunnel vaults, real-time data from Maturix was used to regulate cooling water and maintain proper curing conditions.

Today, Maturix is fully integrated into Rover’s workflow, supporting projects like the Barkarbystaden Station, part of the ongoing expansion of Stockholm’s metro system. The system’s easy setup and remote access capabilities have helped Rover maintain full control, even across large and complex construction sites.

“For me, I have always been using these kinds of systems, so the decision has always been relying on data. But Maturix has just been doing it easier with the comfort of being able to monitor it from the office. One fun fact is that I have connected the alarms in Maturix to my smartwatch, so when it is time to strike the formwork or when the concrete gets too warm or cold, my wrist starts to vibrate.”

– Fredrik, Project Engineer, Rover Grupo Sweden

Key benefits for Rover Grupo Sweden:

- Improved planning with live insight into temperature and strength development
- Safer and more efficient formwork removal based on real-time strength tracking
- Continuous monitoring of surface temperature during cold-weather casting
- Simplified documentation with fast PDF exports and email delivery
- Lightweight and easy-to-use system setup in demanding underground conditions