

From Guesswork to Measurable Reality: Vemaventuri Launches Solution Finder to Unlock Untapped Sensor Potential in Concrete Construction

Despite increasing complexity in concrete construction, the potential of sensor technology remains largely underutilized across the industry. Contractors, engineers, architects, and developers continue to rely on assumptions instead of leveraging measurable, real-time data.

Vemaventuri, a subsidiary of PERI and a specialist in digital concrete monitoring, addresses this gap with the launch of its new Solution Finder. The tool is designed to help construction professionals translate typical jobsite challenges into practical, sensor-based solutions.

On today's construction sites, critical decisions are still frequently based on experience and estimation rather than objective data. From determining the right time for formwork removal to verifying proper compaction or managing thermal behavior, uncertainty remains a constant risk.

At the same time, sensor technology capable of providing these insights already exists, but is rarely used systematically in everyday project execution.

The Vemaventuri Solution Finder bridges this gap. Instead of asking users to think in terms of products, it starts with real on-site problems and translates them into data-driven monitoring approaches.

Users can select from typical challenges such as:

- Concrete quality & defects
- Weather and site conditions
- Formwork safety
- Time loss & efficiency

Based on the inputs of the two steps, the tool recommends suitable monitoring solutions from Vemaventuri's portfolio in step three, including PHONO, TEMO, SONO, and PREMO.

The Solution Finder reflects the reality that different stakeholders experience the same lack of transparency in very different ways:

For contractors

The use of sensor technology is often perceived as an added complexity rather than a business driver. In reality, it enables faster, more predictable processes and reduces costly uncertainty in concrete operations. Instead of relying on assumptions, contractors gain a measurable basis for decisions, turning risk into controlled performance and improving both speed and profitability.

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For civil & structural engineers

A major challenge lies in the gap between design assumptions and actual execution on site. Without reliable data, the construction process remains a “black box.” Sensor-based monitoring provides objective verification that design parameters are met in reality, strengthening both technical confidence and documentation in case of disputes.

For architects

Architects are ultimately judged on the visible outcome and project delivery. Yet they often lack direct visibility into execution quality on site. Sensor data helps reduce this loss of control by enabling earlier detection of execution issues, particularly in demanding applications such as architectural concrete, protecting design intent, timelines, and client trust.

For developers and investors

Project success is defined by predictable timelines, controlled risks, and reliable quality. However, construction processes often remain opaque until issues surface. By turning construction data into transparent, verifiable insights, sensor-based monitoring reduces uncertainty and supports better-informed decision-making throughout the project lifecycle.

“With the Solution Finder, we are making the value of sensor technology accessible from a problem-first perspective,” says Michel Seeger, CEO from Vemaventuri.
“Our goal is to help the industry move from assumption-driven processes to measurable, verifiable construction.”

The Solution Finder is now available online and can be used free of charge:
<https://vemaventuri.io/concrete-monitoring-solution-finder>

About Vemaventuri:

Vemaventuri, a subsidiary of PERI, is at the forefront of concrete sensor innovation. By combining advanced technology with practical construction insights, the company delivers solutions that enhance efficiency, safety, and sustainability. For more information, visit www.vemaventuri.io.

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