



Digital transformation
for the concrete
industry

Concrete
Quality

The future is here

INTO THE DIGITAL AGE

Construction has entered the digital age, and *this change is unstoppable.*

Many companies are making the strategic decision to engage in a complete digital transformation of their **ready-mix** and **precast** businesses.

This decision will ensure the company a healthy future for many years to come.



DIGITAL TRANSFORMATION

Technologies for the change

SPECIALIZED SOFTWARE

Using specialized software for specific tasks, overcoming the limitations of Excel-based templates and analysis, and obtaining full connectivity everywhere.



SENSORS & MONITORING

Incorporation of sensors and monitoring technologies to increase control and gain full visibility of different stages of the process, such as production, transport, on site, etc.



LINKING SYSTEMS

Linking different software packages together to obtain a comprehensive business intelligence system that provides full traceability and allows for informed decision making.



AUTOMATING TASKS

Automating tasks such as data entry, specifications compliance, etc. This reduces human errors and frees up time for senior staff to focus on decision making instead of collating data.



A grayscale background image showing a construction worker from the waist down, wearing jeans and rubber boots, pouring concrete from a large metal chute. The worker is standing on a surface of freshly poured concrete.

WHO WE ARE

For concrete producers, by concrete producers

A

CONCRETE IS IN OUR DNA!



Coming from different backgrounds, we've been boots on the ground in ready-mix plants, construction sites, precast factories, aggregates quarries, chemical admixtures, testing and R&D labs, etc.



We know this business inside out!

We are your



INTERNATIONAL NETWORK



Our digital transformation solutions are backed up by the technology and experience of our partners, providing worldwide reach.

We have partners in:

- ✓ USA
- ✓ Canada
- ✓ UK
- ✓ Russia
- ✓ China
- ✓ Australia
- ✓ Middle East
- ✓ Africa
- ✓ France
- ✓ Spain
- ✓ Poland
- ✓ Mexico
- ✓ Colombia



OUR VALUE PROPOSITION

Leveraging experience and technology



B

SYSTEM ELEMENTS



Batching enhancements



Moisture probes for **aggregate bins**.

Automated water dosage control system for **fixed mixers**.

Microwave technology proven in over **70 countries worldwide**.



Real-time monitoring



Mixer trucks: concrete moisture, temperature, drum rotation, GPS.

On-site: Monitoring setting, maturity, moisture, durability and service life.

All with **wireless transmission** and their own stand-alone app.



Automated QA/QC & BI



Quality Control with advanced statistical control and mix design optimization.

Quality Assurance for traceability, record keeping, and auditing.

Business Intelligence with automated reporting and analytics.

TOTAL INTEGRATION



We interact with any existing system to integrate their inputs into our QA/QC Business Intelligence system.

You will have access to a hub for information that provides both technical analysis and full traceability in a few clicks.

All these tasks happen automatically, reducing human errors and freeing up time for informed decision making.



PAIN POINTS & RELIEFS



Variability in results

overdesigning to compensate high SD

Total water control

for aggregates, in the mixer, and for trucks

Responsibility for on-site issues

they do it wrong but you pay for it

Full-cycle monitoring

100% visibility and immediate alerts

Routine paperwork

keeping up with all those reports

Automated Excel/PDF processing

coming from third-party or your own

Mix designs maintenance

always the same recipe = wasting money

Bulk updates to all your plants

flexible, automatic, and centralized

Auditing

just... auditing

One-click traceability

link every system, all relevant info at hand

It's a *driverless* system!

Achieve 100% visibility *over the whole process*

At the plant



- ✓ Automatic water adjustment in the mixer
- ✓ Aggregate moisture sensors

In transit



- ✓ Moisture, temperature, drum rotation & GPS tracking
- ✓ Water additions detection

On site



- ✓ Monitoring setting, maturity, moisture, and durability
- ✓ Wireless data transmission

With a fully automated *Quality Management & BI* software!

IMPLEMENTATION

What – Why – When – How

C

MODULAR & FLEXIBLE SYSTEM



The different components of our system can be acquired and implemented independently and in steps, adapting to every situation and needs.

We offer connection interfaces with any existing or new systems, no matter what technologies they're based on.

QA/QC

Our base system for technical and quality management and auditing.

Interfaces

Connection with 3rd party systems:

- *Batching*
- *GPS*
- *ERP*
- *etc.*

Automation of sample identification and testing.

Laboratory

*Sensors at the plant, on truck, and on site for short and long term monitoring.
Total process visibility.*

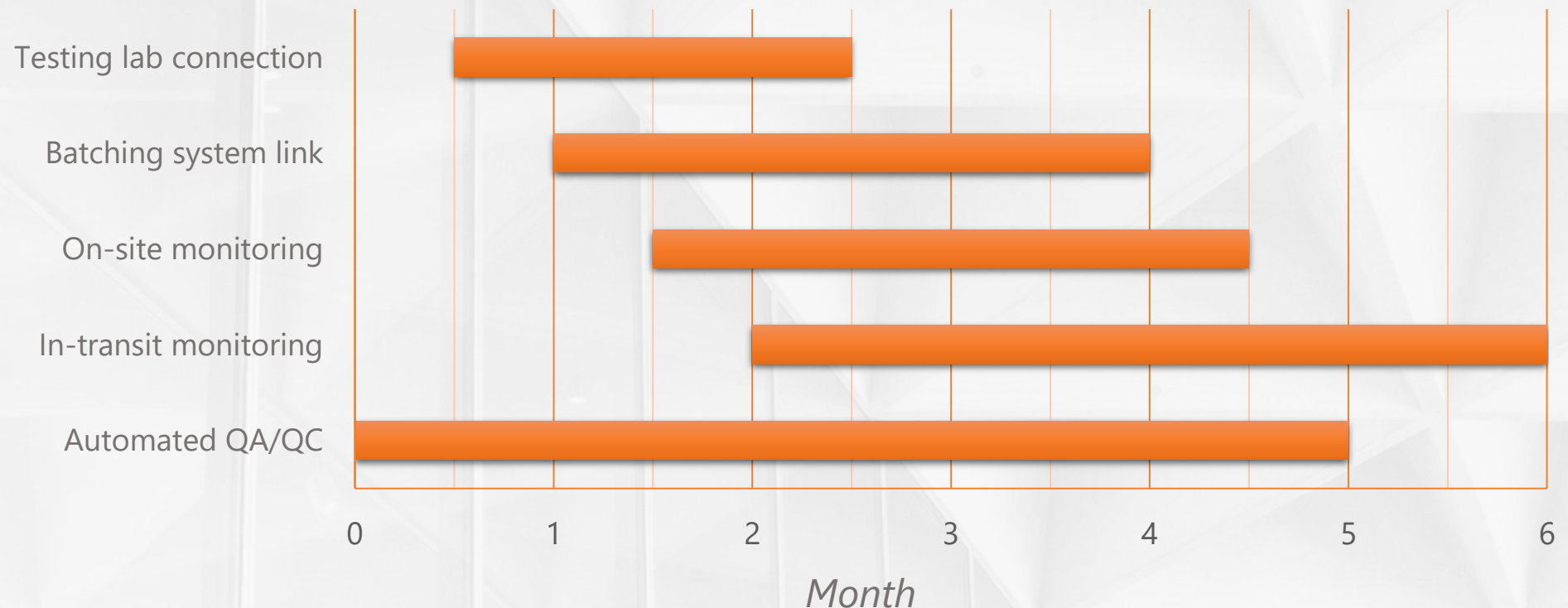
Monitoring

IMPLEMENTATION TIMELINE



Transforming a business takes time and effort.

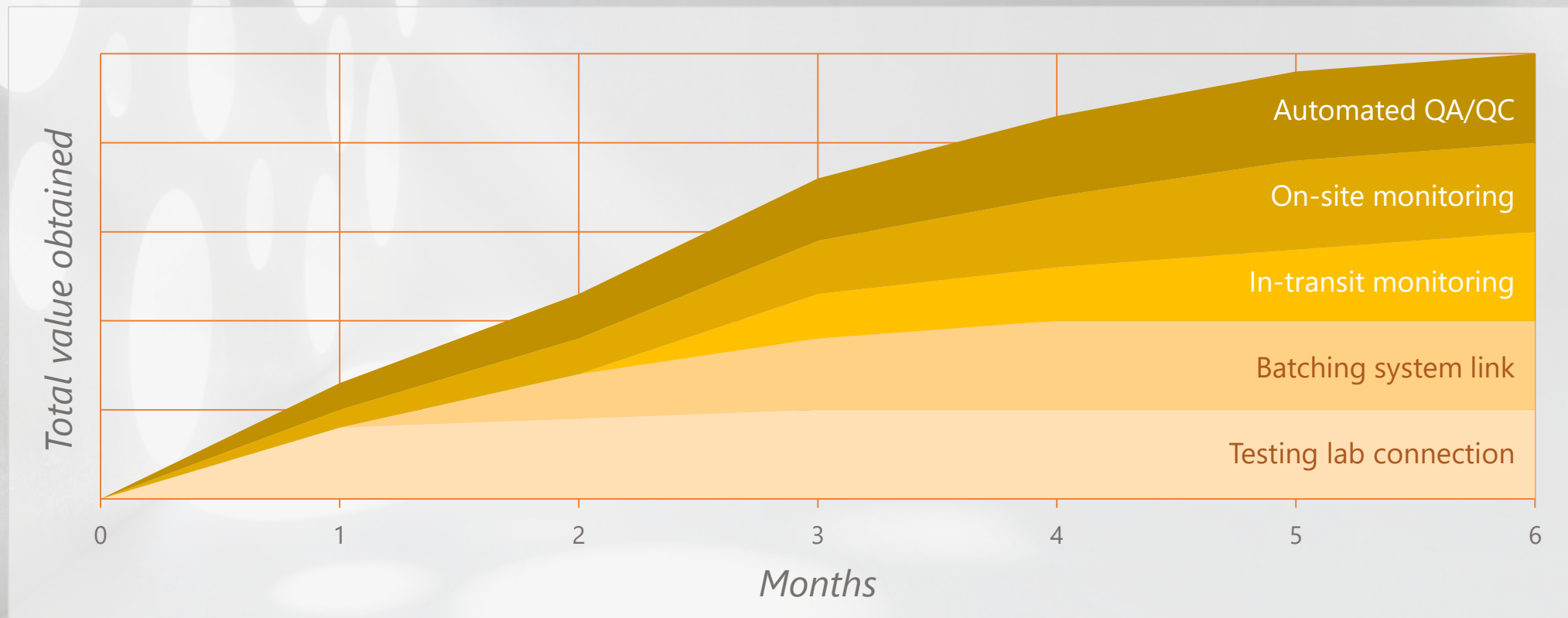
We accompany you all the way and customize our solutions to your specific needs, while your company learns and its culture adapts to the new paradigm.



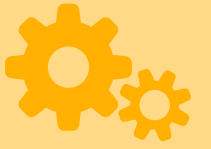
VALUE SINCE DAY ONE



When you add a system element you will start obtaining returns immediately, and this value will increase as you gain experience. In six months you can get the full value of the whole system.

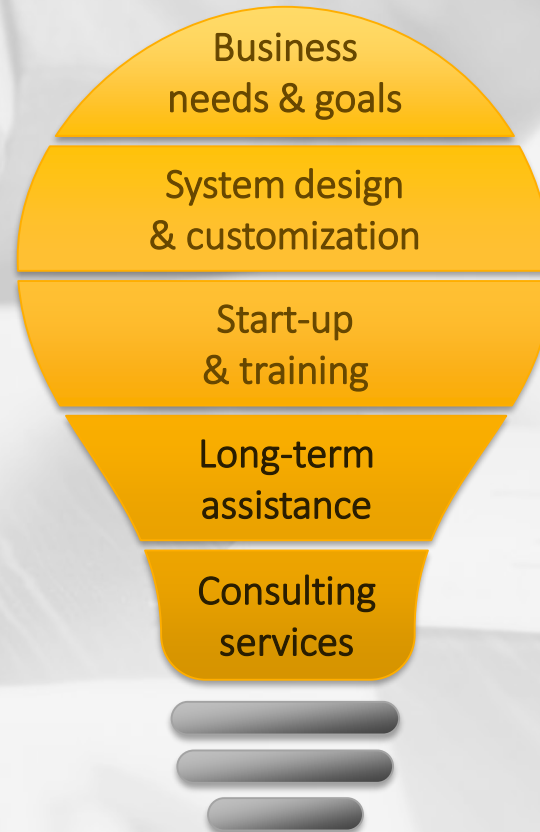


WORKING SIDE BY SIDE



We accompany you all the way, in every way.

We provide consultancy services to define business goals, assess critical action points, and to improve your processes and products.



FINAL THOUGHTS

Create your own future

D



*“As it happened with admixtures,
it will happen with sensors:*


*At first nobody used them, now it’s
unthinkable to work without them.”*

JM Pereira, MICT

IMAGINE THE IMPACT ON YOUR BOTTOM LINE IF...



- ✓ There were **no blind spots in the whole process** during production, in transit, and on site.
- ✓ You delivered the **exact same mix and W/C every single time.**
- ✓ **No unauthorized water additions** were possible.
- ✓ You knew setting, strength, curing, durability **in real time.**
- ✓ You received **immediate alerts** if anything is out of specs.
- ✓ It was controlled enough to **reduce on-site testing.**
- ✓ It took a minute to report **full submittal packages.**
- ✓ You had a **driverless quality management** system.

The image features two hands, one from the bottom left and one from the top right, reaching towards each other in a gesture of support or assistance. The hands are silhouetted against a dramatic sky filled with soft, white clouds. The lighting suggests a bright sun behind the clouds, creating a warm, hopeful atmosphere. The hands are positioned as if they are about to grasp each other, symbolizing the company's commitment to helping clients achieve their goals.

Whatever you've imagined,
there's much more.

We will help
you *get there!*

Concrete
Quality

