



spectrally

REAL-TIME QUALITY CONTROL OF **CHEMICAL PRODUCTION**

We eliminate production delays, reduce costs and increase productivity



WE ARE TRUSTED BY

CHEMICAL INDUSTRY LEADERS

FROM THE SECTORS:



Production of polymers, resins and adhesives

real-time control of the polymerization process



Production of household chemicals and cosmetics

quick composition analysis without a lab



Wastewater monitoring and water quality control

waste reduction, ESG compliance



Production of fertilizers and industrial chemicals

better control of raw materials



Spectrally is a real-time chemical process monitoring system that combines our proprietary patented technology, including advanced photonic sensors, algorithms and years of know-how. Key features:



Continuous and precise process monitoring



Lower production costs and less waste



Faster and smarter process decisions

MAIN PROBLEMS OF CHEMICAL COMPANIES



High production costs

expensive energy and raw materials



Ineffective quality control

human errors, downtime, complaints



Regulation and ESG

waste reduction requirements, penalties



Personnel shortages

lack of specialists, low automation



HOW WILL IMPLEMENTING

SPECTRALLY CHANGE YOUR PRODUCTION?



High production costs

expensive energy and raw materials



Ineffective quality control

human errors, downtime, complaints



Regulation and ESG

waste reduction requirements, penalties



Personnel shortages

lack of specialists, low automation



spectrally



Reduction of raw material & energy costs

thanks to verification of raw materials, reduction of production time and more



Efficient quality control

thanks to automatic measurements, every few seconds, without downtime or human error



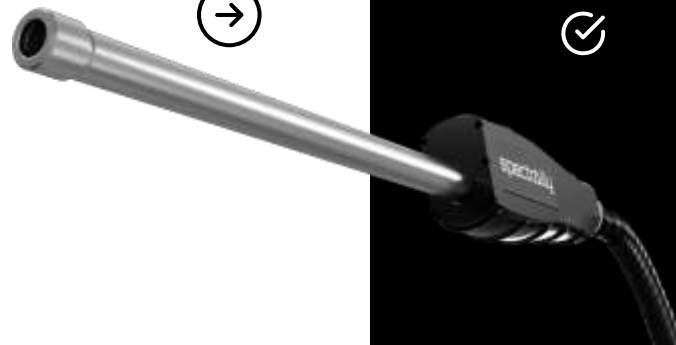
Waste reduction

thanks to optimization of raw material consumption and production process



Relieving Staff

by automating and reducing manual tests



SPECTRALLY:

Quality Control Made Simple

INEFFECTIVE LABORATORY MEASUREMENTS

- ⊗ Infrequent measurements, every few hours
- ⊗ Manual sampling
- ⊗ Specialized personnel required
- ⊗ "After-the-fact" inspection



SPECTRALLY – REAL-TIME MONITORING



- ✓ Continuous measurements every few seconds
- ✓ Analysis directly on the production line
- ✓ Automatic, maintenance-free monitoring
- ✓ Monitoring of the entire production process

INDUSTRY 4.0

SOLUTIONS TAILORED TO YOUR NEEDS



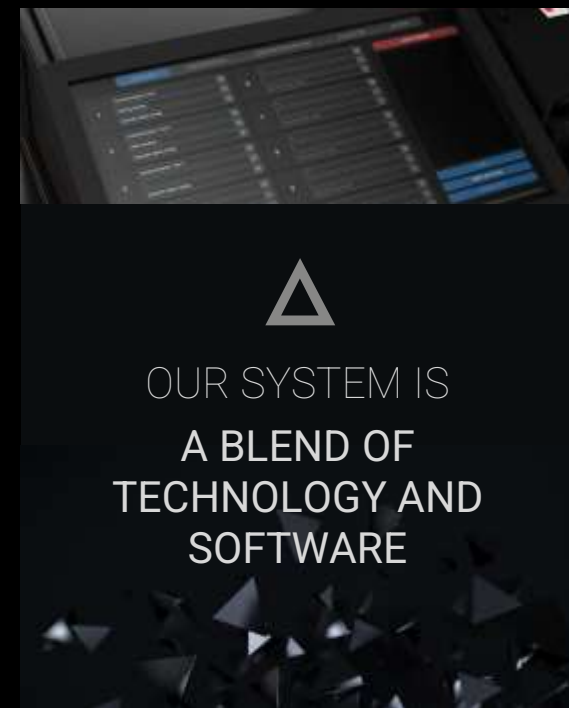
Spectrally X1 INLINE

Constant monitoring of the process,
Directly on the production line



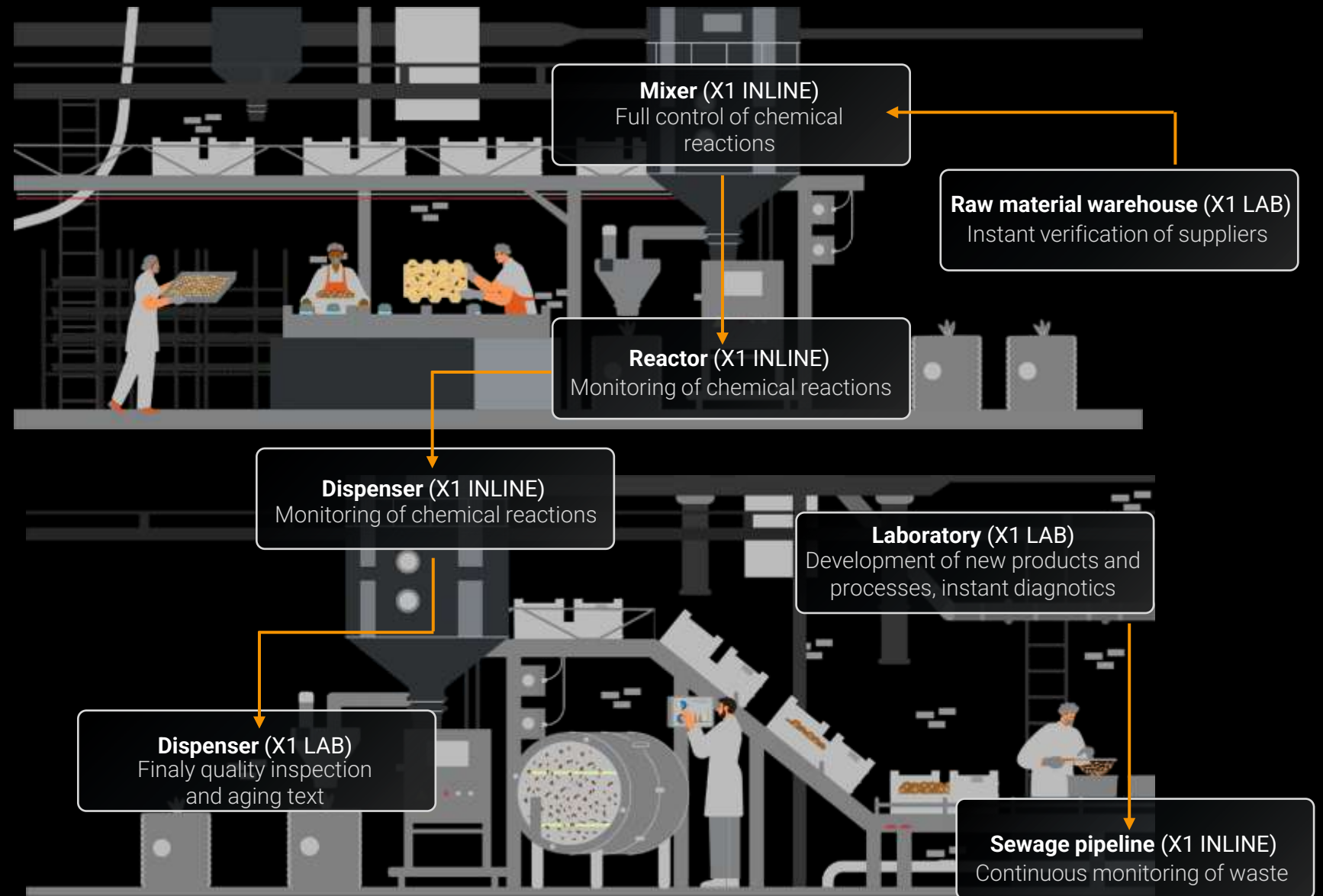
Spectrally X1 LAB

Immediate analysis of samples,
mobile laboratory



OUR SYSTEM IS
A BLEND OF
TECHNOLOGY AND
SOFTWARE

WHERE DOES SPECTRALLY WORK BEST?



OUR EXPERTS CREATE TECHNOLOGIES FOR

THE INDUSTRY OF THE FUTURE

Our team includes **21 experts** in the fields of:



Optical
diagnostics and
spectroscopy



Advanced
data analysis



Optimization of
metrology
processes



Development of
dedicated test
software



Automation and
digitization in
industry



Chemical
engineering



Industry 4.0

BENEFITS FOR YOUR COMPANY

REDUCED COSTS, QUICK RESULTS

Reduction of raw material and energy losses

savings of up to 10%

Faster production

processes shorter by up to 30%

Reducing the number of complaints

ESG and regulatory compliance

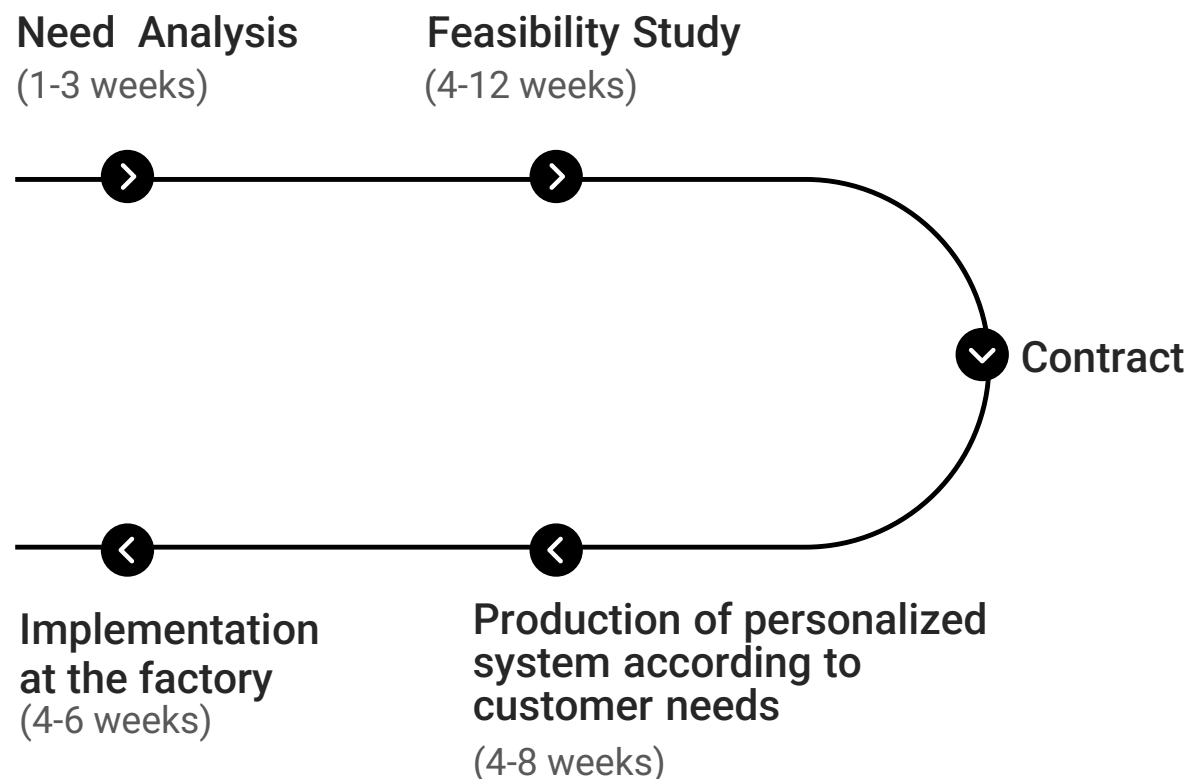
better monitoring means less
risk of penalties

Quick return on investment (ROI)

even in 6 months



IMPLEMENTATION PROCESS



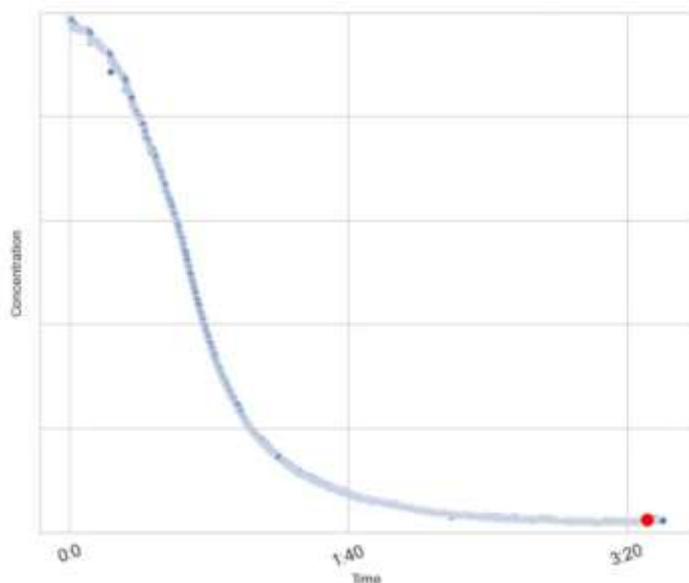
Later cooperation includes:

- System calibrations (every 6 months)
- Continuous performance monitoring and training
- Support and troubleshooting
- System expansion

CASE STUDY

RESIN MANUFACTURER - SPECTRALLY X1 INLINE SYSTEM

Polycondensation reaction in the customer's reactor:



● **BEFORE**
One measurement
at the end of the
process

● **AFTER**
Continuous
monitoring of the
entire process

KEY BENEFITS



ROI
In 3 months



30%
shorter production process



10%
Less waste



50%
fewer complaints and returns



Full process control
through real-time monitoring

ADDITIONAL BENEFITS

Better understanding and
control of the process



Reduction of
staff workload

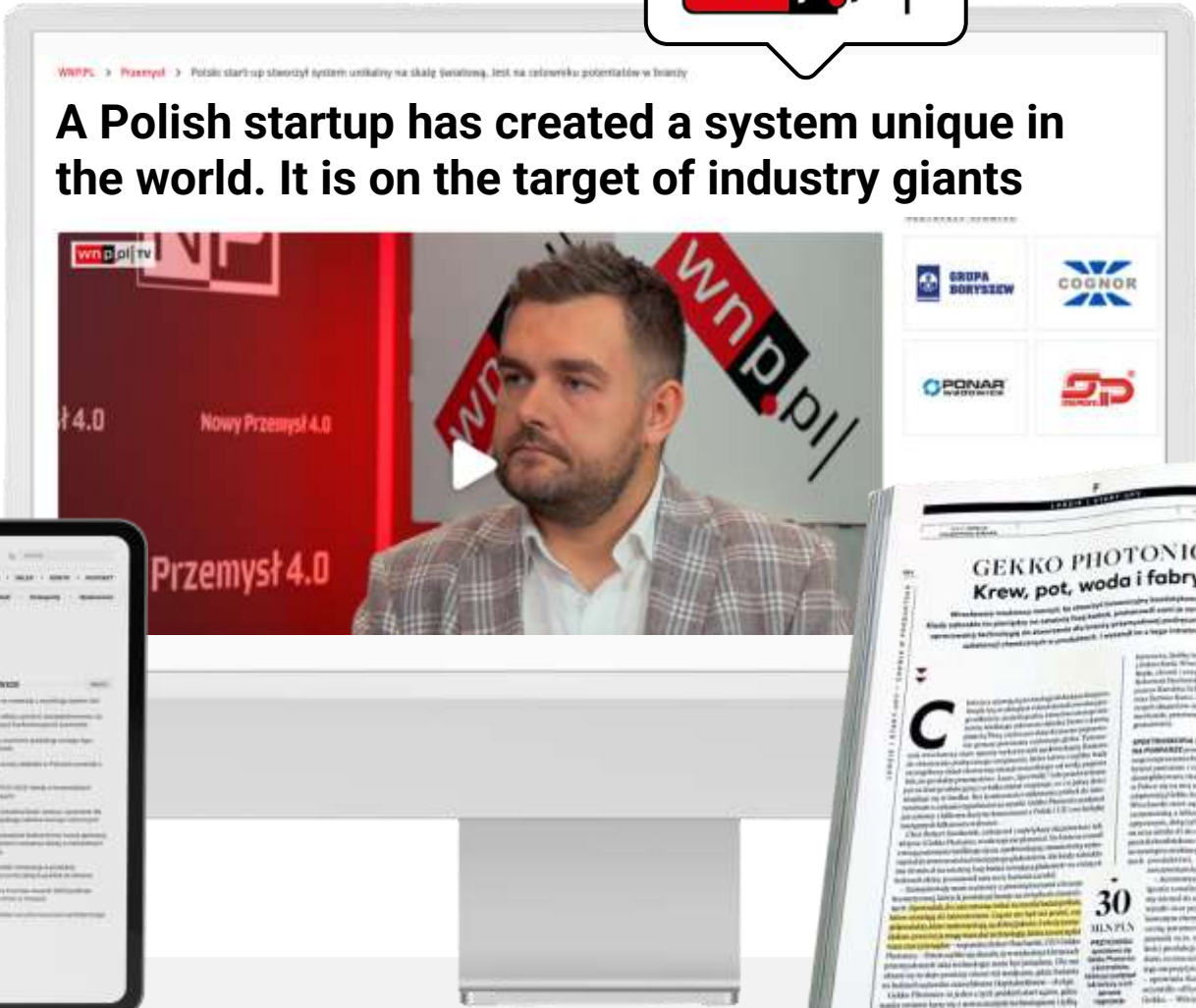


Trend analysis
and alerts

MEDIA
ABOUT US



A Polish startup has created a system unique in the world. It is on the target of industry giants



spectrΔlly

READY FOR A REVOLUTION IN CONTROL?

GET IN TOUCH WITH OUR EXPERT



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