



Smart Pre-Analytic Workflow with Full Process Control

Connecting Transport, LIS Registration,
and Pre-Analytics into One Intelligent Workflow

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Sumetzberger Closed Loop Laboratory Workflow

The Right Process at Every Step

▶ **Enable Right Analysis Workflow**

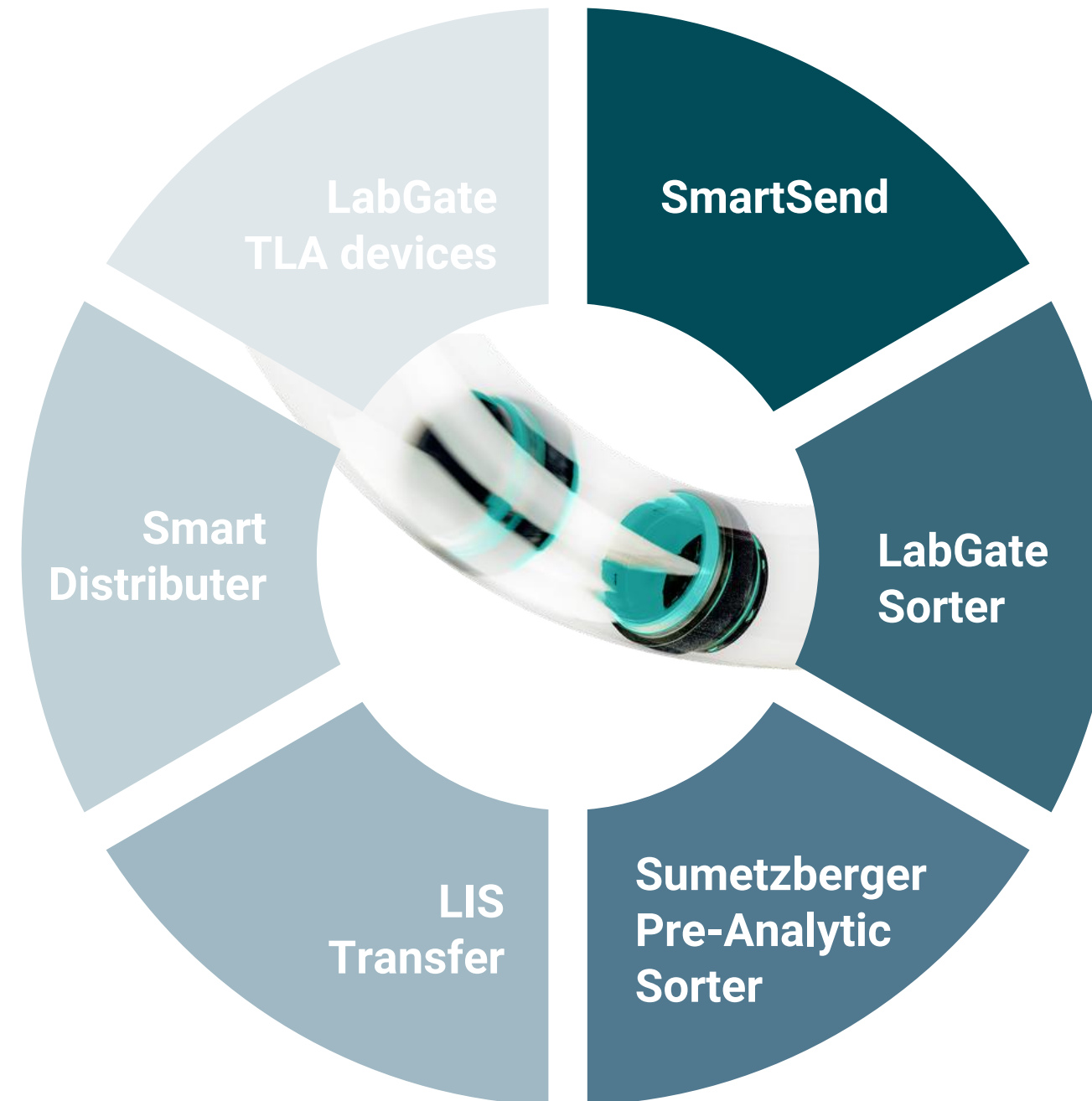
Provide the right samples to the right analyzer at the right time.

▶ **Distribut Right Samples Efficiently**

Send the right samples to the right destination automatically.

▶ **Connect Right Data with LIS**

Ensure the right data is transferred to the LIS at the right time.



▶ **Ensure Right Match at Dispatch**

Match the right sample with the right carrier at the right station.

▶ **Verify Right Arrival and Control**

Ensure the right carrier with the right sample arrives at the right place.

▶ **Sort Right Samples Automatically**

Identify and sort the right samples for the right analysis.

ALL-IN-ONE Laboratory Solution

From Sample Arrival to Analysis – Fully Automated, Fully Controlled

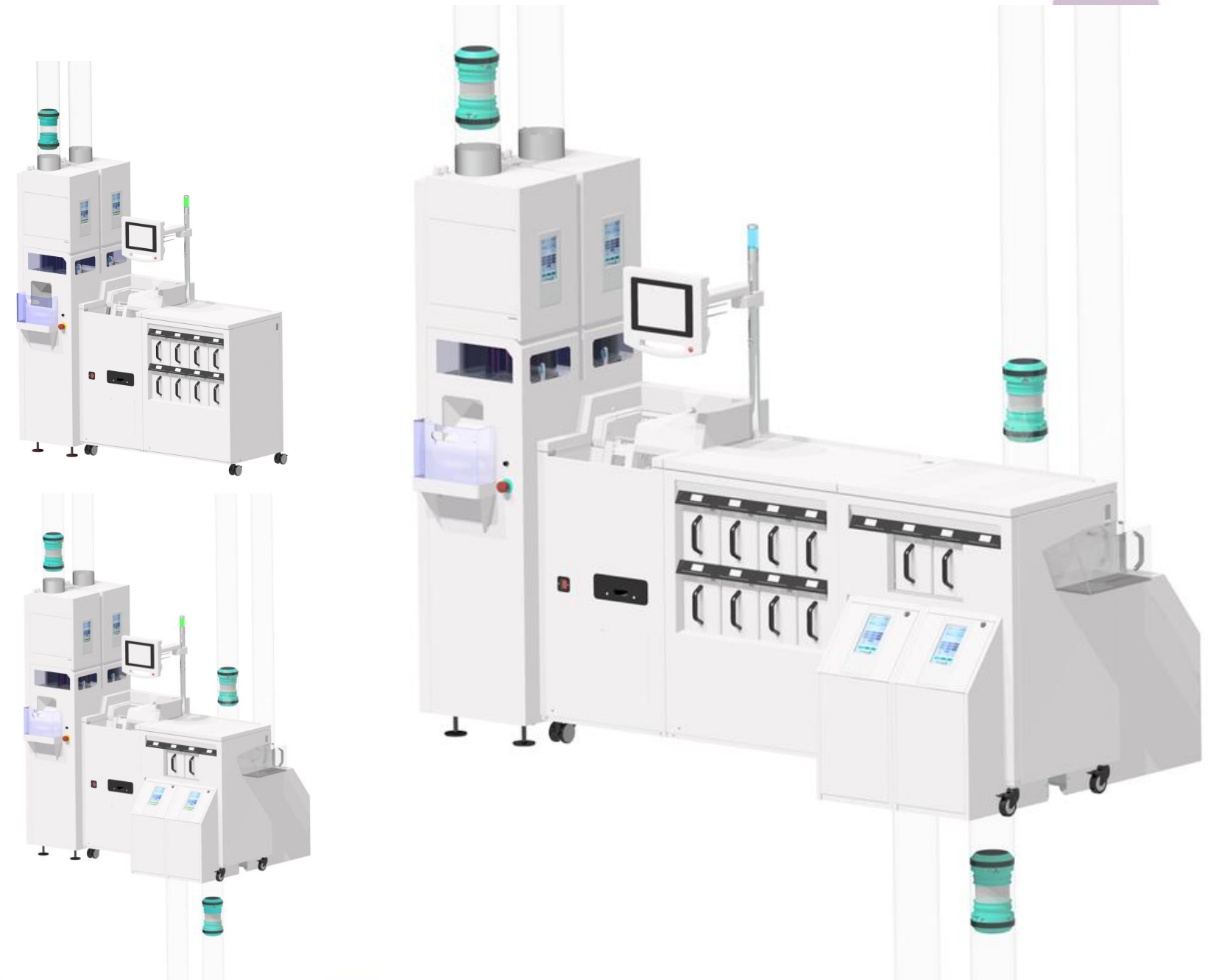
Eliminate manual handling with seamless pneumatic transport, automatic unloading, and intelligent handover

One Touch Pre-Analytic: samples are inserted once – all further steps are fully automated

Integrated workflow: transport, verification, LIS registration, sorting, and distribution in one continuous process

Reduce turnaround time while increasing process safety and traceability

Enable efficient collaboration between centralized and decentralized laboratories



SmartSend: Intelligent Sample Dispatch

Right Sample – Right Carrier – Right Destination

Unique matching of sample and carrier ensures correct routing from the start

RFID-based identification enables full traceability throughout the transport process

End-to-end verification guarantees arrival at the correct LabGate station

Automatic confirmation prepares samples for seamless handover to pre-analytics

Enhances process reliability and eliminates routing errors



LabGate – Intelligent Interface for Laboratory Automation

Right Sample – Right Carrier – Right Destination

Central interface between pneumatic tube system and Total Laboratory Automation (TLA)

Automated receiving, verification, buffering, and pre-sorting (STAT / routine)

Ensures contamination-safe handling and reliable 24/7 operation

Compact design with minimal footprint – ideal for high-tech laboratories

Enables smooth, continuous workflow into the Pre-Analytic Sorter



LIS Integration: Data-Driven Laboratory Control

From Arrival to Action – Fully Automated Pre-Analytics

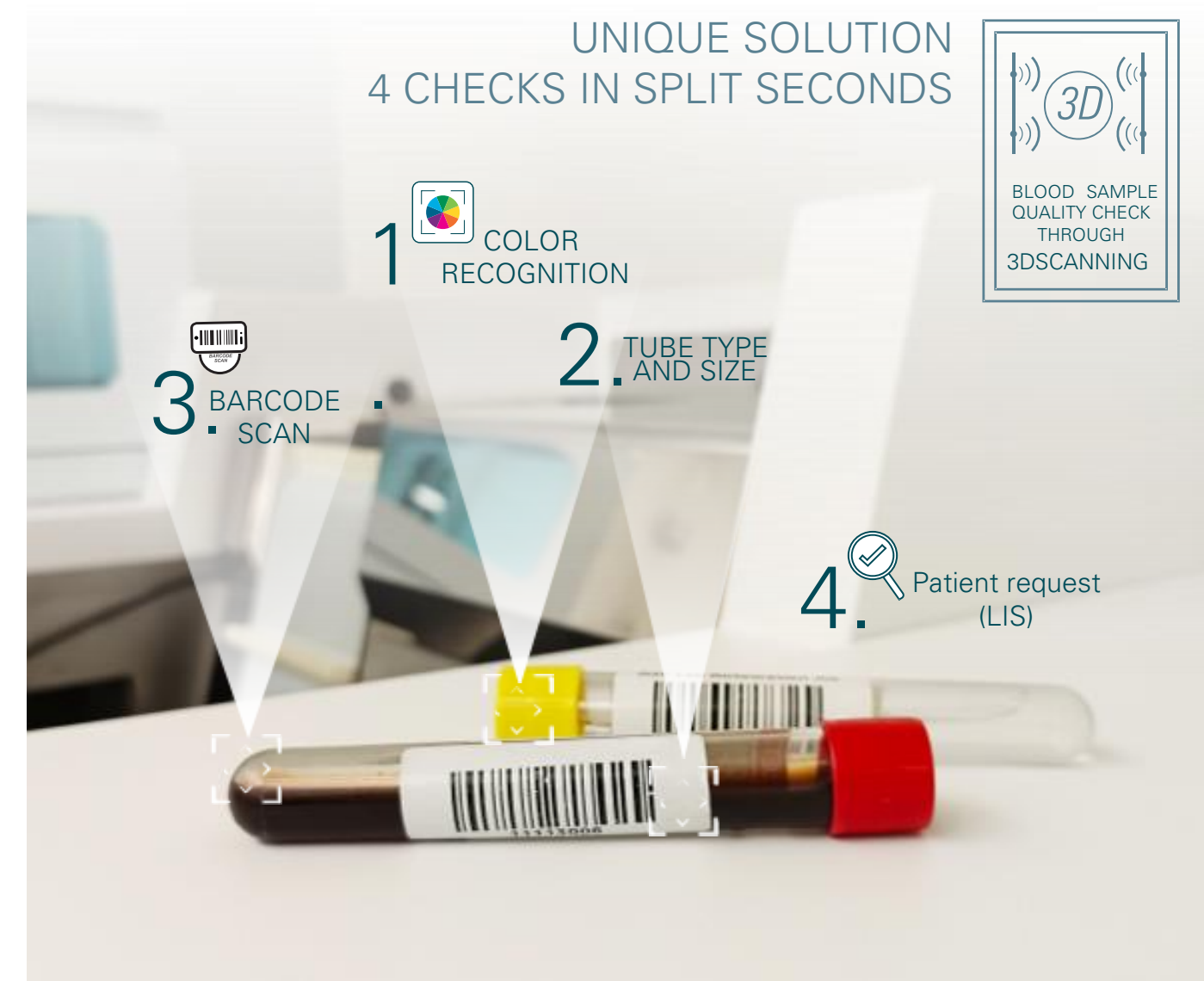
Automatic transfer of sample ID, test requests, tube type, and priority status

Real-time synchronization with Laboratory Information System (LIS)

Full traceability from sample entry to analysis result

Enables transparency, process control, and audit readiness

Supports data-driven decision-making and workflow optimization



Biosafety & Contamination Control

Built-In Safety for High-Tech Laboratories

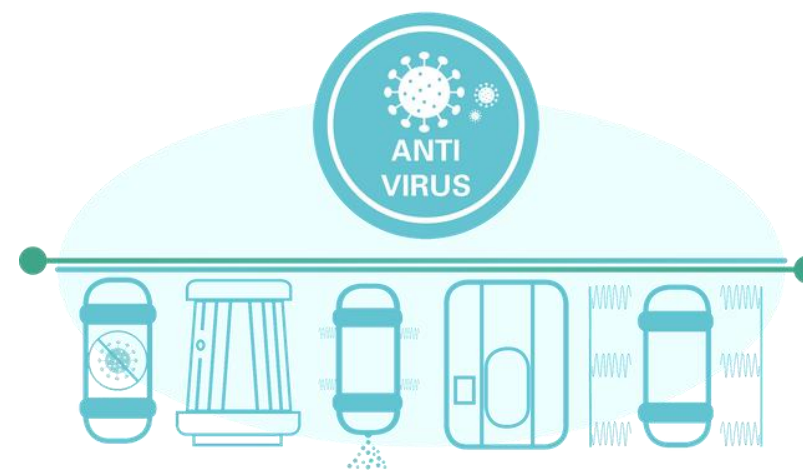
AntiVirusDisinfectionGate ensures carriers are disinfected before reuse

HEPA filtration removes airborne contaminants during transport

Antimicrobial carrier materials reduce surface contamination risks

Protects staff, samples, and sensitive TLA equipment

Essential for future-ready, compliant laboratory environment



**3rd PARTY TEST REPORT
ACCORDING TO**

ISO 22196 | ISO 21702
EN1822 | EN 17272

Add On: Pre-Analytic Sorter & SmartDistributer

From Arrival to Action – Fully Automated Pre-Analytics

Automated identification, sorting, and classification of samples

Direct LIS registration ensures immediate data availability

SmartDistributer routes samples to analyzers or decentralized labs

Continuous workflow without manual intervention

Reduces errors and accelerates laboratory throughput



Animated Process Flow

Safe Transport – Controlled Airflow – Zero Contamination

Escaping air is filtered in the technical room via HEPA filtration

Carrier arrives in the laboratory – controlled unloading process begins

Carrier exits the laboratory and system airflow is actively managed

Air is suctioned at the blower, preventing contamination spread

Carrier passes through Sumetzberger DisinfectionGate and is fully disinfected

Clean carrier returns safely – preventing cross-contamination



Animated Process Flow

Safe Transport – Controlled Airflow – Zero Contamination



LabGate & TLA Integration

Protecting High-Value Automation – Ensuring Process Integrity

Secure handover of samples to leading TLA systems (e.g., Roche, Siemens, Abbott, Beckman Coulter, Sysmex)

Prevents contamination and protects sensitive analyzers

Ensures consistent sample quality before analytical processing

Supports uninterrupted analyzer operation through intelligent buffering and prioritization

Enhances overall system reliability and extends equipment lifespan



Klinik Floridsdorf



UCK Gdansk Hospital



Cardiac Hospital



SIEMENS

AUH – Aarhus University Hospital

Scan for video





Summary & Value Proposition

Transforming Laboratory Logistics into Intelligent Automation

Fully automated end-to-end workflow from transport to analysis

Significant reduction in manual intervention and human error

Maximum traceability and process transparency

Faster turnaround times and optimized laboratory efficiency

Scalable solution for future-ready, high-performance laboratories

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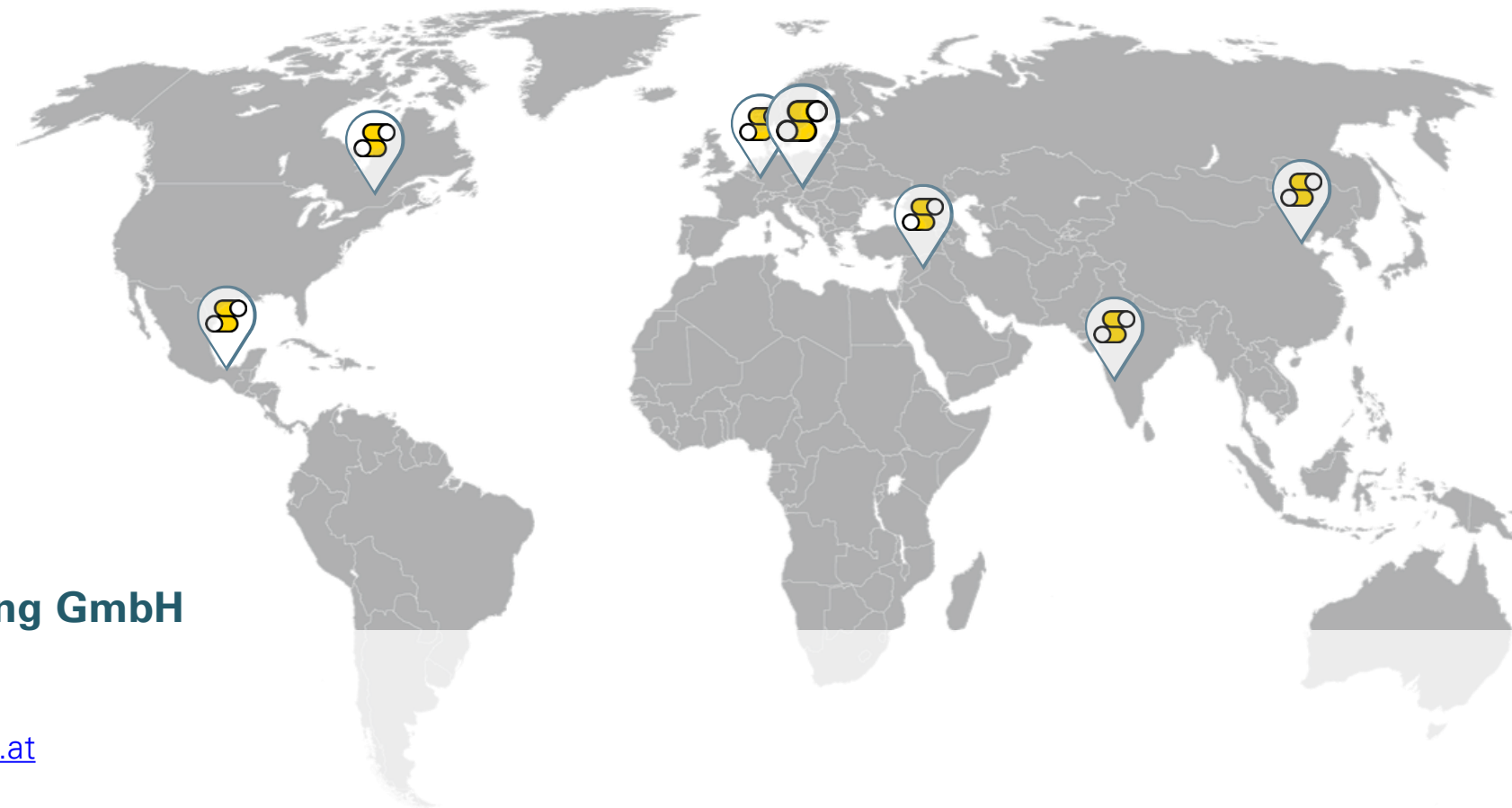
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WORLDWIDE
 INSTALLATIONS

15,000

EXCLUSIVE
 PARTNERS

89

WORLDWIDE IN
 MORE THAN
 COUNTRIES

100

Speaker Profile

Expertise Driving Innovation in Laboratory Automation

Peter Friedrich – Board Member, Sumetzberger International

Business Area Manager, Sumetzberger Pvt Ltd, Vienna

25+ years of experience in pneumatic tube systems and automation

Successfully implemented solutions in over 3,000 hospitals worldwide

International speaker and holder of multiple patents

