



# TranspoNet — pneumatic tube systems

The TranspoNet pneumatic tube system connects patient wards with the hospital pharmacy and laboratory. In doing so, it provides reliable and efficient support for two of the most important processes in the hospital: diagnosis and therapy.

- More efficient processes
- Continuous, monitored transport chain for utmost security
- Cost-effective solution

# Challenges in healthcare

Medicine and care need innovative new approaches to ensure the quality of patient therapy. But these advances face challenges:

- Ensuring security and reliability
- Continuous improvement of treatment quality
- Compliance with regulations
- High cost pressure
- Increasing lack of qualified staff

Hospitals are also confronted by demographic changes and rising treatment costs, as well as the need to boost efficiency and reduce the length of hospital stays without jeopardizing quality.

**Improving internal logistics** is key to maintaining the success of healthcare facilities in future.



## Internal hospital logistics critical to success

**Goods transports** play a decisive role in hospital logistics. But this depends on the quality of transport. Incorrect deliveries or improperly handled goods can have severe consequences for logistics chains, efficiency and ultimately patient therapy.

## Greater efficiency through leaner processes

Automating goods transport can also improve its quality. This optimizes processes and increases the overall efficiency of the hospital.

Nursing staff can concentrate on their patients rather than time-consuming and cost-intensive manual transport. Shifting the focus to patient-related activities improves the quality of care in general.

### Benefits

- **Quality of care:**  
Nursing staff can concentrate on patient care rather than logistical tasks.
- **Efficiency:**  
Important goods and data are available quickly.
- **Cost effective:**  
Improved processes save money. The system pays off quickly.

# Advanced and efficient healthcare provision with TranspoNet

TranspoNet pneumatic tube systems transport **lab samples, blood products, drugs, documents, medical devices and other material** safely and reliably through hospitals in carriers. This offers several benefits for hospitals:

## Efficient processes

Transports in a healthcare facility are often impossible to plan in advance. Automating these spontaneous transports creates **smooth, interlinked processes**. Reducing interruptions in the processes significantly boosts hospital efficiency.

## More time for patients

Time is a precious commodity in healthcare. Pneumatic tube systems speed up the transport of documents, drugs, samples and blood. Freed from the need to transport these manually, **nursing staff can concentrate on patient treatment**.

## Improved diagnosis and therapy

Transported goods arrive at their destination **safely and reliably** in just a few minutes. This makes drugs and lab results available quickly. Faster diagnoses and therapies lead to better patient outcomes.

## Fast amortization

Depending on the project, TranspoNet pneumatic tube systems can pay for themselves **within a few years**. The combination of greater efficiency, improved process quality and better patient care makes your healthcare facility much more competitive.

## Security

RFID tags ensure that carriers can be consistently tracked at all times. Optional **access restrictions** and **user authentication** further increase the security of the transported goods.

## Flexible and scalable

TranspoNet can be customized to fit your needs and is ready for **future requirements**. Over time, you can integrate additional clever solutions that continuously improve your facility.



## System overview

### Transported goods

TranspoNet reliably transports lab samples, blood products, rapid sections, drugs, infusion bags, documents, medical devices and other goods to where they are needed.

### Carriers

Goods are transported in pneumatic tube carriers. There are various models to fit different needs. LeakResistant offers increased leak protection when transporting fluids, for example, while SmartOpen enables automatic unloading in the lab.

### Tubes

The tube network can stretch over multiple levels, and is mostly routed underground or in suspended ceilings. The tubes can also pass through fire safety zones or across outdoor areas. TranspoNet can also be retrofitted into existing buildings that do not already have a tube network.

### Stations

The carriers are sent and received at a series of stations. Swisslog Healthcare offers various station types to suit your requirements.

### Medical staff

The system transport goods quickly and reliably, meaning one less task for your staff. TranspoNet is simple to use and makes manual transport a thing of the past. The workstations are placed at an ergonomic height to make it even easier to use.

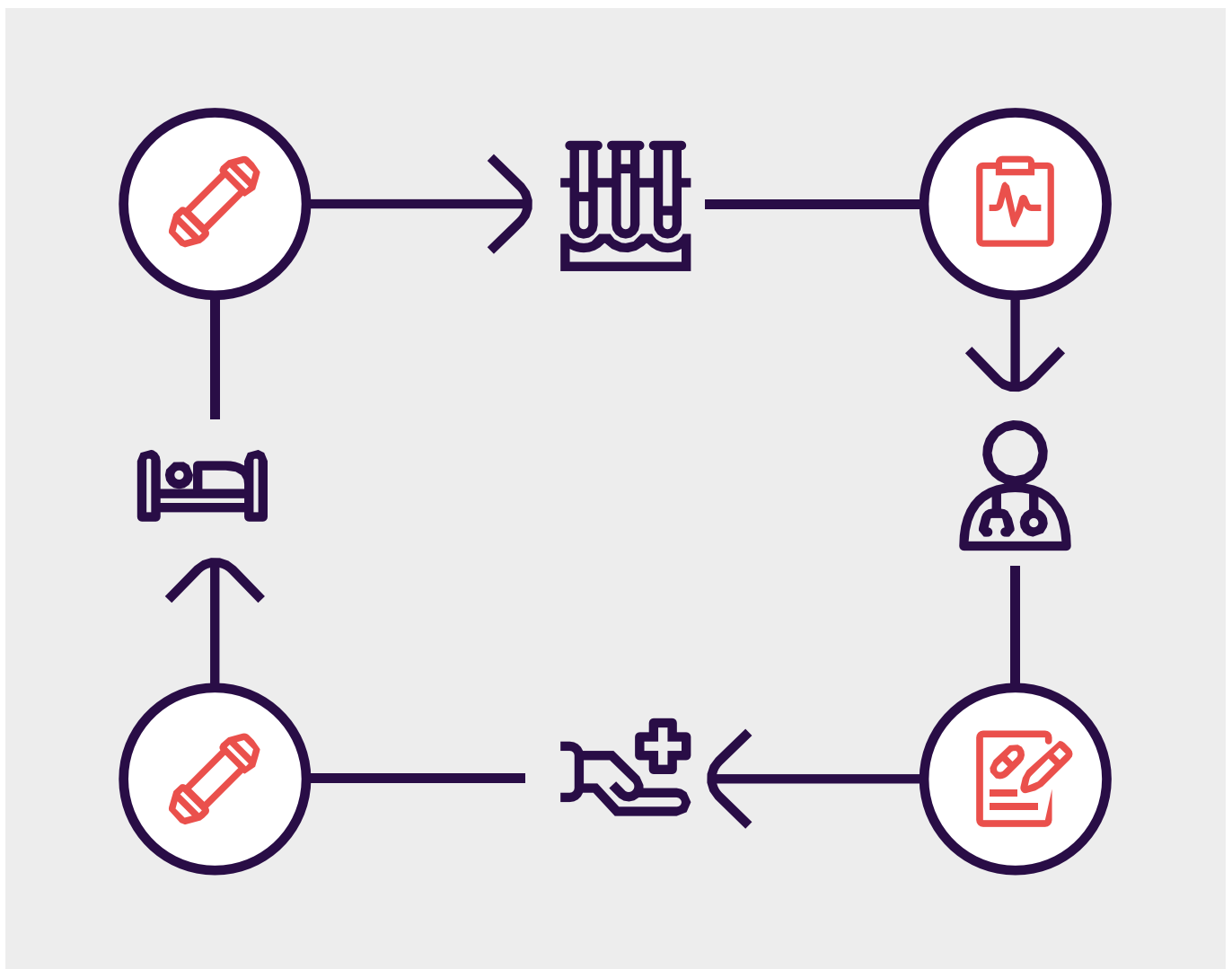
### Software

The pneumatic post system's intuitive, web-based user interface allows users to analyze faults and generate reports from any location. This makes monitoring internal hospital transports with the on-premise solution easy.

# Patient—Laboratory—Pharmacy

Effective therapy needs correct diagnoses.

These two vital processes for hospital patients depend on **speed** and **reliability**. Automated transport therefore plays a decisive role by ensuring that samples arrive quickly and safely in the laboratory. Following diagnosis, the system then makes sure that the right drugs from the pharmacy reach the patient quickly.



# TranspoNet ensures quick diagnosis and therapy.

## Patient to laboratory

A correct diagnosis is essential to providing the right therapy. To ensure this, patient samples must be sent to the laboratory quickly and safely. This **pre-analytical section** is therefore the **most critical part of the transport process**. Despite this, it is vulnerable to errors. In fact, **75%** of all errors occur here. These are usually the result of shocks during transport. TranspoNet transports goods **safely** and **efficiently**.

- Stations specially developed for the laboratory **protect samples as they arrive**.
- The OpenLog+ station can further improve **lab efficiency** by automatically removing the sample.
- The high-performance **PowerLine** can greatly increase the frequency of transports to the laboratory.

## Patient to laboratory

Drugs and other critical goods like blood products, cancer medications and narcotics are subject to strict regulations. **Transparent and continuous tracking**, along with **comprehensive documentation**, are therefore just as important as a quick start to therapy. TranspoNet ensures that these goods reach the right patient within minutes.

All transport activities are **fully monitored** throughout the entire transport chain. This process also precisely determines the costs and allocates them to the right department.

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