proLogistik

SYSTEM PROVIDER FOR YOUR INTRALOGISTICS

THE RIGHT SOLUTION FOR EVERY INDUSTRY

SOFTWARE HARDWARE SERVICE

FROM SUSTAINABLE PLANNING TO EFFICIENT ORGANISATION

proLogistik

INNOVATION COUPLED WITH TRADITION

As a dynamic medium-sized business with about 200 innovative heads, we offer integrated solutions for logistics issues. We have proven our performance on the market for more than three decades. We take care of our Europe-wide customer base from our headquarters in Dortmund and our branch in Pinneberg (near Hamburg). We not only want to satisfy our customers – we want to inspire them. Many years of experience in implementation of logistics requirements into practice-oriented solutions are what makes us a high-performance partner of renowned companies.

WAREHOUSE MANAGEMENT SOFTWARE

Our core competence is in planning and implementation of our efficient warehouse management software pL-Store®. Depending on industry, our range spans various product sections in order to digitise your warehouse management and to optimise your processes.

HARDWARE

We develop and produce industrial hardware "Made in Germany", from fork lift truck terminals to industrial PCs, to Pick by Voice systems. Additionally, we are a competent partner in the area of warehouse marking and mobile data recording.

LIFECYCLE SERVICE

We will support you throughout the process chain to help you optimally use our products. We offer service from A-Z. Our software support will continue to be there for you after commissioning. It will ensure that all systems work smoothly. Our in-house repair center's employees are also available to you if you are faced with any hardware defects. We have specialists in house to answer any questions about the subject of server management as well. Do you want to fundamentally optimise your processes? Our consulting team offers comprehensive logistics consulting from strategy to implementation.

Warehouse Management Software

EFFICIENT SOLUTIONS FOR YOUR WAREHOUSE MANAGEMENT

For more than 30 years, we offer a wide product range in the area of intralogistics. We deliver software and hardware from a single source. We focus on our customers' needs. After all, every industry has its own specific requirements. We use logistics know-how, seamless service, and our enthusiasm for the subject to optimise your processes and increase your efficiency.

We are a competent partner for many industries, including wholesale, beverages, food, logistics service providers and the producing industry.

Our employees help you optimise your warehouse processes and make them more transparent.

OPTIMISING YOUR WAREHOUSE MANAGEMENT BY PRECISELY FITTING FUNCTIONS

Beverages
| Multiple transports
| Dynamic block position handling (capacity-controlled)
| Picking of gastronomy and trade tours
| Empties processing and tour provisions
| Batch/expiration date/year and inventory administration

Service providers / 3PL
| Autonomous warehouse management without superordinate ERP
| Manual order recording and order handling
| Client management
| Warehouse fee determination and customisation
| Optional simple connection to ERP and control systems

Deep-Frozen
| Software and hardware suitable for deep-freeze operation down to -30 °C
| Time and route optimisation
| Wireless data transmission techniques
| Efficient tour management and personnel optimisation
| Fork lift truck control and transport optimisation

Industry
| Serial number management
| Finished goods processing
| Retroactive booking mechanisms
| Batch and serial number tracking
| Time- and demand-oriented material flow control to production

Fashion
| Online inventory management
| Pick-by-Voice
| Shipping processing
| Returns management
| Chaotic storage location management

Wholesale and retail trade
| Batch tracking and expiration date processing
| Temperature recording according to HACCP
| Weight control and SSCC collection
| Dispatch area management
| Resource planning

E-Commerce
| Multi-order picking
| Pick & Pack – online shop integration
| Online inventory management
| Order and item-related volume calculation
| Returns management

Warehouse Management Software
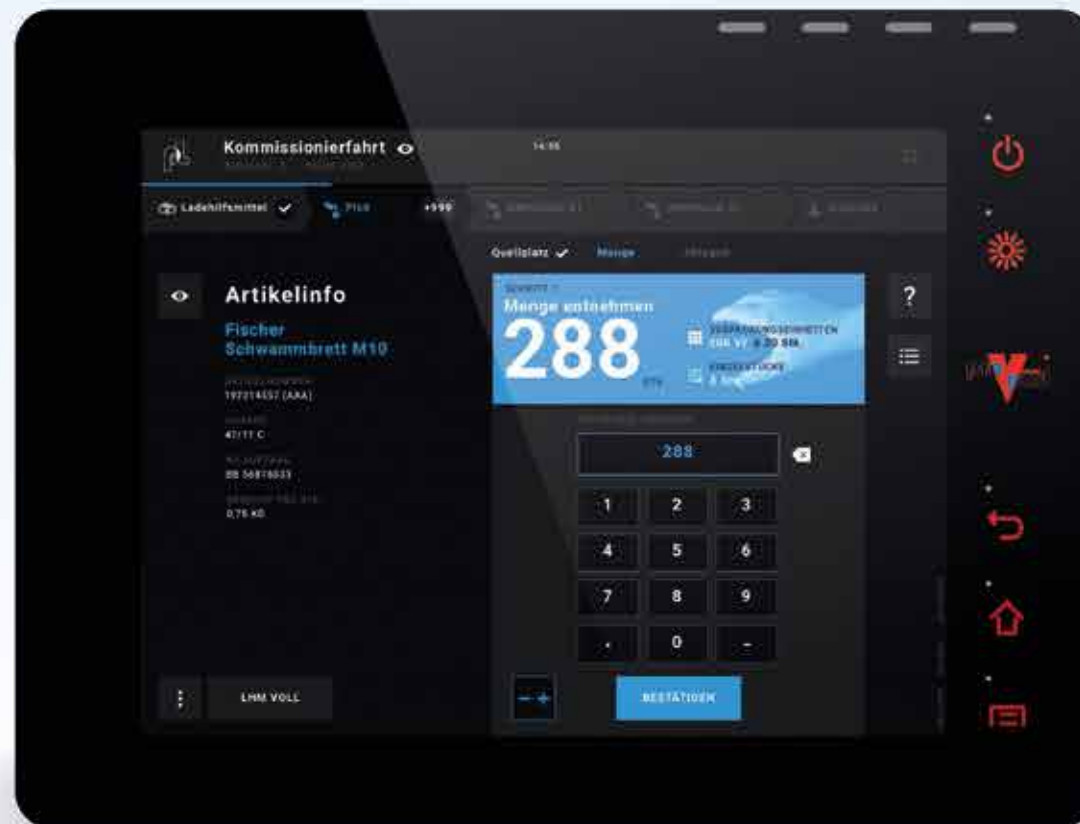
PL-STORE®
THE CORE

Our pL-Store® warehouse management system offers a comprehensive software solution for warehouse control that can be used in any industry. The warehouse management system optimises complex processes in intralogistics. The user interface also presents itself with a well-structured intuitive user management.

Our comprehensive software solution for warehouse control is the core of our logistics solutions. It optimises the individual warehouse processes and offers the following standard components:

| Online inventory management and tour management
| Chaotic storage location management
| Paperless picking – single-order, multi-order, and parallel
| Pick-by-Voice
| Pick-to-Light
| Fork lift truck control and transport optimisation
| Dispatch processing
| Connection of superordinate ERP systems
| Connection of subordinate control and fully automatic storage systems
| Perpetual inventory or key-date inventory
| Barcode control
| RFID connection

ADVANTAGES

| **Reduction of distances and time**
  by reduction of empty runs and double-cycle strategies
| **Error reductions**
  minimise administrative effort
| **Increased inventory security**
  due to better disposition possibilities and reduced shortages or excess stocks of individual articles
| **Better consolidation options**
  for time savings and personnel optimisation
| **Optimised process synchronisation**
  reduces waiting times
| **Perpetual Inventory**
  in manually operated storage systems is enabled
| **Possibility of quality assurance**
  as well as meeting documentation obligations
| **Support of wage incentive systems**

Warehouse Management Software

PL-STORE® FOODLINE
THE FRESHNESS KICK
FOR YOUR WAREHOUSE

WAREHOUSE MANAGEMENT FOR
FOOD & BEVERAGES

pL-Store® Foodline was developed from decades of experience and cooperation with renowned companies from the food industry. With this industry solution, we offer you warehouse management software with special functions for the food and beverages area.

The food industry is facing increasing demands for freshness and health. Consumers place increased value on a high food quality, as well as good production conditions and high transparency by seals and quality marks. To meet all of these conditions and to ensure the freshness of products, the logistics processes in the background must work particularly well.

Create transparency and efficiency by high-performance warehouse management. pL Store® Foodline offers a comprehensive warehouse management system for warehouse and material flow control with special functions for the individual food areas, such as dry range, freshness and deep-frozen food, fruit and vegetables, meat, and shipping.

SPECIFICALLY FOR THE FOOD LOGISTICS

FRESH & FROZEN
| Weight handling
| Fast mover method
| Temperature recording
| Consideration of additional items
   (e.g. dry ice)

MEAT
| Meat batches
| Weight handling
| Provisions

FRUIT AND VEGETABLES
| Replacement article
| IFCO tote handling
| Flexible picking position management
| Provisions

DRY RANGE
| Order and tour-specific picking
| Expiration date processing
| Batch tracing

SHIPPING
| Cross-dock procedure
| Area management
| Customer-specific marking
| Loading control
| Quality assurance

BEVERAGES
| Yard management
| Dynamic block storage

| In-house beverage handling
| Production supply & disposal
| Single bottle picking

Warehouse Management Software

PL-STORE® TECHLINE
FOR THE TECHNICAL AREA

IN PARTICULAR FOR BUILDING MATERIAL, SANITARY/ HEATING/AIR CONDITIONING & TECHNICAL WHOLESALERS

No matter if it's the sanitary, building materials or technical wholesale area, all customers face similar challenges in these industries: They have a vast item range, and warehouse management for numerous items requires special process flows. Additionally, the warehouses in the areas have a lot more layers, from small-parts storage to shelf racks for bulky goods. These are only a few examples of the diversity and special competences that we offer through our pL-Store® Techline warehouse management software.

We developed the special pL-Store® Techline solution from our many years of experience and cooperation with our customers from the industry. The warehouse management software offers you our typical standard modules, supplemented by integrated industry functions for the areas of building materials, sanitary and technical wholesale products.

SOLUTIONS FOR BUILDING MATERIALS, TECHNICAL WHOLESALE, AND THE SANITARY, HEATING AND AIR CONDITIONING INDUSTRY

GOODS RECEIPT
| DESADV goods receipt support
| Detailed goods in crossdock
| Mobile detailed goods in
| Mobile detailed goods
  in SSCC goods receipt

SMALL PARTS AND TILES
| Picking ready for shipping
| Path and storage location optimisation
  in the small parts areas
| Brand, nuance, and batch management
| Voucher-less picking

CUSTOMER COUNTER
| The employee at the counter decides
  about the picking process Priority control
| Freestyle picking

EXTERNAL WAREHOUSE
| Full integration of the external
  warehouse into the overall process
| Management of long-term reserves
| Loading sequence

BRANCH WAREHOUSE / ROUND TOUR
| Night jump
| Simplification of the IG process/
  fine IG cross dock
| Integration of route provisioning
| Direct mobile booking of goods

OTHER FUNCTIONS
| Pallet management
| Volume calculation
| Client management
| Rental drum function

Warehouse Management Software

OVERVIEW OF
FURTHER SOLUTIONS

INCREASING WAREHOUSE EFFICIENCY
BY STANDARDISED MODULES

„Based on customer feedback, we continually develop new software modules in order to improve the efficiency of warehouse management.“
(Jörg Sänger, Managing Director)

Our warehouse management offers plenty of comprehensive functions around picking, forkl lift truck control and material flow control. We have further modules for you in our WMS construction kit. New means and ways to make warehouse management more efficient keep coming up.

pL-Kom
Paperless picking
Planning picking orders according
to demand

pL-SIM
Warehouse simulation
Supports decision-
making processes

pL-Trans
Self-learning Fork lift truck control
Optimised deployment control and
dispatching of vehicles

pL-Pick & Pack
Webshop integration
Flexible processes
by volume calculation

pL-Mat
Material flow control
Efficient connection
of automated warehouses

pL-add-on modules
Personnel control center, premium wage,
photo documentation, reporting tool and
much more...

Professional-Hardware
QUALITY THAT PAYS OFF

For more than three decades, we have shown the market the value of our overall solutions for logistics and industry. We have been manufacturing industrial hardware "Made-in-Germany" at our Dortmund site since 1983, from truck terminals to dialogue systems. proLogistik stands out with its long experience, competent consulting, and customer-oriented service.

DEVELOPMENT
PRODUCTION
AND SERVICE
AT THE
DORTMUND SITE

TECHNOLOGY – MADE IN GERMANY

The hardware is developed, produced, and subjected to long-term tests in our company. Our development department works according to the state of the art and guarantees smooth communication with different systems. High processing quality and transparent cost control are a matter of course for us. Due to our production site in Germany, you can profit from short waiting times and our comprehensive repair service. We put value on having accessories and spare parts for all our installations available in the long term. In order to meet our demand for innovation and performance, we have never ceased to develop our systems and technology since the first days of our company – and neither will we stop in future. We continually set new, innovative targets that we consistently pursue with our customers. After all, your success is our greatest source of motivation!

EVERYTHING FROM A SINGLE SOURCE

In addition to our internally developed and produced industrial PC series "pro-V-pad" and our dialogue system "pro-Voice", we also offer a comprehensive hardware offer of leading manufacturers, as well as everything around the subject of warehouse marking, consumables and labels.

OUR HARDWARE
RISES TO
ANY CHALLENGE.

DUST-PROTECTED

DEEP-FREEZE-CAPABLE

BREAK-PROOF

WEATHER-RESILIENT

Professional-Hardware
PRO-V-PAD TERMINALS
ROBUST. HIGH-QUALITY. LONG-LIVED.

STATE-OF-THE-ART TECHNOLOGY, BRIGHT DISPLAYS AND FLEXIBLE USAGE OPTIONS

Developed for rough everyday industrial use and equipped with easy touch technology for permanent use, we offer ideal terminals for mobile and stationary deployment in industry, trade, and logistics. Our pro-V-pad terminal series offers a wide product range for various areas of use.

WITHSTANDS ANY INDUSTRIAL CHALLENGE

The diverse applications of our high-performance hardware solutions have already convinced our customers. No matter how diverse needs are - no matter if the hardware has to resist low temperatures in the frosty deep-freeze warehouse or fine dust in production - we offer the solution to match your application.

ADVANTAGES

| High industry standard with ergonomic operability

| Robust construction for durable use

| Flexible applications for warehousing and logistics, healthcare, production, food, and hygiene

| Available with the common operating systems (Windows, Linux, Android, Igel)

| Peripheral connection (scanners, printers, scales, ...) via standardised interfaces

| With the common interfaces, such as USB and RS232, as well as HDMI, Bluetooth, LAN, WLAN and Audio (optionally also UMTS).

| Various protection categories from IP65 to IP69k

Professional-Hardware
PRO-VOICE DIALOGUE SYSTEM
MOBILE. FLEXIBLE. ERGONOMIC.

SPEAKER-INDEPENDENT IN AUDIO-HIGH-END QUALITY

Pick-by-Voice means speech-supported dialogue systems that are used to optimise work processes. With our in-house voice system, we provide a device that set standards with its technical features, speaker-independent speech recognition and with its software alike.

The voice client combines the functions of the technical market leader for voice systems with a design-oriented housing. Speaker-independent speech recognition allows direct commencement of work processes without teaching. The client can communicate online with the application server and offers all the advantages of a radio-based voice system.

Mobility, flexibility and wearing comfort have always been at the focus in development of our voice-client. With the many years of experience in wireless Bluetooth communication, conventional plug-in contacts can be entirely dispensed with when connecting the peripherals. Of course the advantages of the dialogue system can also be used with the wired accessories.

ADVANTAGES

| Ergonomic, easy operation with extremely flat design

| Long operational readiness due to high battery performance

| Wireless use of all peripheral devices possible thanks to safe Bluetooth technology

| Speaker-independent and cost-efficient operation without voice profiles

| Flexible and timesaving use in different areas

| Online booking at pick level

| Extensive accessories optionally available

Professional-Hardware

PROSCAN
EXPANDED HARDWARE RANGE

EVERYTHING FROM A SINGLE SOURCE

We started introducing our expanded hardware offer with our proScan specialist area around the subjects of mobile data recording and warehouse marking in 1998. Experienced specialists ensure competent consulting and help customers make a suitable product selection. The range covers anything from hand-held readers and scanners, to printing systems, to labels and ink ribbons. We cooperate only with renowned manufactures, such as ZEBRA, Honeywell, or Toshiba, in order to offer you a widespread and high-quality range of hardware.

LABELS, RIBBONS AND E-PAPER

In our proScan specialist area, we produce and sell labels for many different uses. We supply a comprehensive range of labels for your purpose. Profit from our professional service and let us advise you!
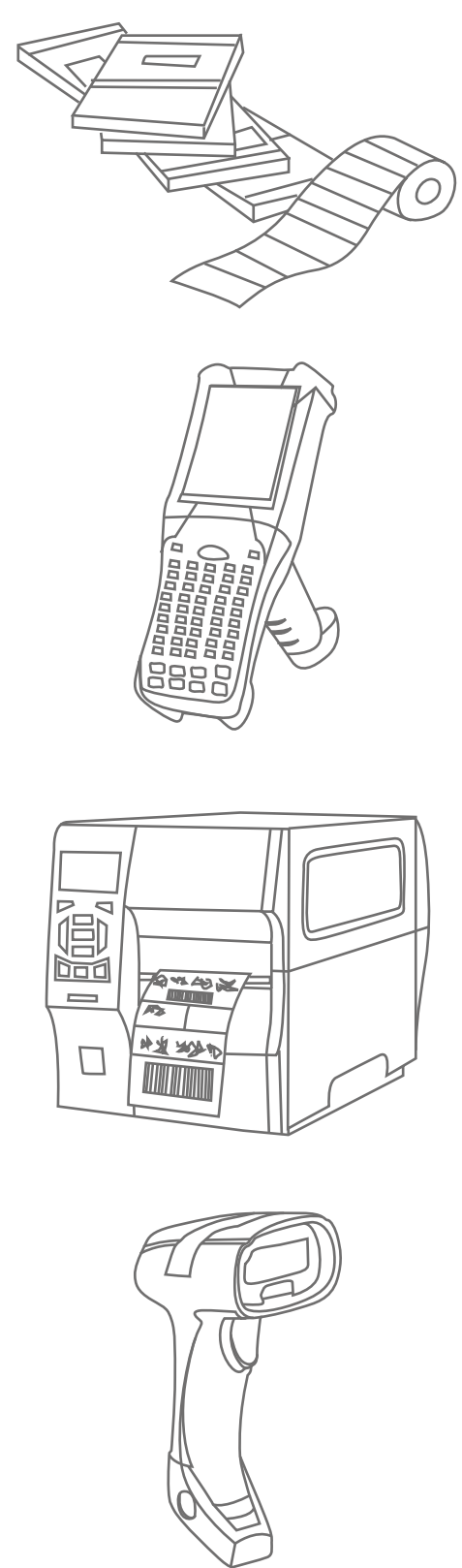
HAND-HELD TERMINALS

Mobile data recording simplifies goods handling in the warehouse and in production. The data can be reviewed, confirmed, and reported back to an ERP or WMS system via a browser directly online on the server or in a stationary system.

LABEL PRINTERS

Thermal direct printers and thermal transfer printers with different performance features permit quick and brilliant printing of the required labels for barcode processing. We offer both label printers and a large range of accessories and consumables for them.

BARCODE SCANNERS

Barcode scanners stand out in daily use with their intuitive and smooth scanning processes. Wired, using narrow-band radio communications or Bluetooth – your customer's scanning requirements can be met without any restrictions.

WE OFFER SERVICE FROM A-Z FOR YOU

Service
PL-CONSULTING
STRATEGIC. EFFICIENT. SUSTAINABLE.

GET THE BEST OUT OF YOUR PROCESSES

With pL-Consulting, we support you in all logistics challenges with thorough process consulting. Our top-most goal is offering comprehensive advice across the entire path from the initial idea to the implemented solution and optimising your logistics.

We consider ourselves neutral consultants who will support your project from strategy to implementation independently of our own products and services.

Are you currently planning a new construction project or are you aiming to introduce automated processes in your warehouse? Are you not quite certain yet how to tackle your new project and what your first steps should be? We will gladly help you find answers!

OUR OFFER FOR YOU

| Recording and analysis of the planning basis
| Rough concepts and feasibility studies
| Process and material flow planning
| Planning of automation systems location and layout planning
| Vendor selection and tender support
| Project management
| Implementation support

OUR PROCEDURAL MODEL

BASIC EVALUATION

| Logistics functions
| Processes & sequences
| Capacity and service demand
| Future forecasts
| Restrictions

SYSTEM DIMENSIONING

| Picking and storage systems
| Transport systems
| Functional and additional areas
| Personnel requirements

LAYOUT

| Site development
| Area requirements to size & layout
| Flow principles
| Placement options for block layout

ECONOMIC EFFICIENCY

| Investments
| Depreciations
| Rent / leasing
| One-off costs
| Analysis of the value in use

Service
SERVICE AND SUPPORT

SOFTWARE-SUPPORT

Cooperation does not end with acceptance for us. Our service team will work for you around the clock.

Our web-based service ticket system will make sure that no customer request is ever lost. No matter if you contact us by email, phone or through our online service portal. Your request is only completed for us when we have found a shared solution. Our support only employs qualified specialists from the areas of software and application development. This way, we can ensure high consultant quality that exceeds the usual support service by far. We also offer real-time support - our employee can connect to your system with a client and provide targeted support.

The software support by proLogistik comprises the three components of software maintenance, database maintenance and service maintenance. All maintenance contracts can be designed according to your individual wishes to offer customised support. When concluding a software maintenance contract, we will take over support for the system software delivered by us and the associated user software.

HARDWARE SUPPORT

The employees of our dedicated Repair-Centres in Dortmund are available to restore smooth operation in your warehouse after hardware defects. Competence from more than 30 years in hardware development and repair take care of your damage.

| Comprehensive repair service
| Long-term availability of devices and spare parts
| Genuine spare parts for pL products
| In-house repair / bring-in service

Service
WIFI COVERAGE

INTERFERENCE-FREE & FAST

Radio data transmission from mobile devices such as terminals or voice solutions usually takes place in the Wi-Fi network.

The interaction of the factors relevant for Wi-Fi, such as signal field strength, signal-noise-ratio, and interferences, decides on whether radio-, intralogistics work can be performed. A site survey analysis is the first step to achieve optimal and seamless supply across the entire area in your company.

To begin with, your requirements will need to be specified: Which areas of your operating premises are relevant and require optimal supply? What is your company's usage behaviour and which processes do you need radio transmission for?

We will gladly advise you on the selection of, and decisions concerning, a suitable Wi-Fi standard.

OPTIMAL POSITIONING OF ACCESS POINTS IS ESSENTIAL

The basis for performing a site survey is a current warehouse layout or a layout of the operating premises. The target is to determine optimal positioning of the transmission and reception station (Access Point), under consideration of the lowest possible material effort. The measurement – the site survey analysis – is performed with special software.

The result of this analysis is a detailed documentation that contains all relevant information for installation and analysis of the Wi-Fi.

Contact us for a site survey analysis. Our experience, over many years in the industry, in handling the associated hardware enables us to advise you in procurement and configuration of your stationary radio hardware as well.

Project Management

PROPER PROCESSES ARE VITAL FOR SUCCESS

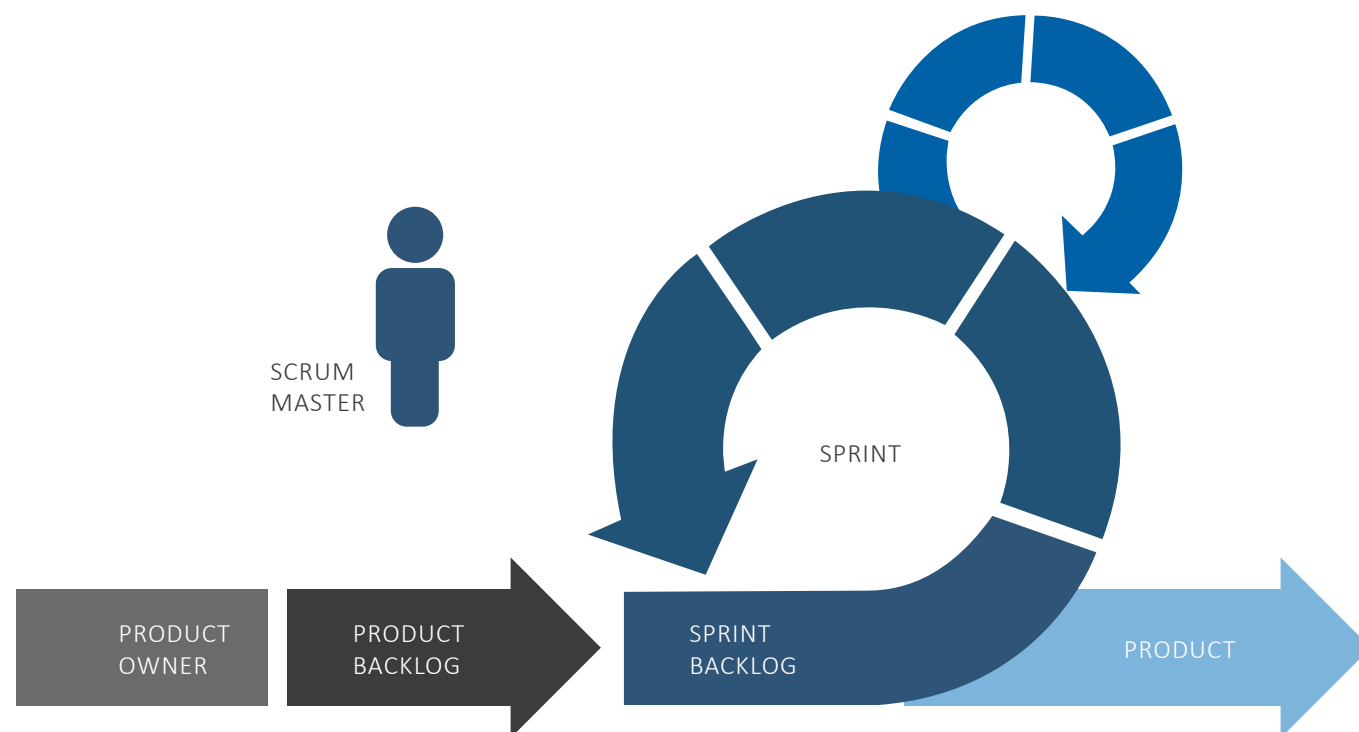## FROM SUSTAINABLE PLANNING TO EFFICIENT ORGANISATION

If you choose to cooperate with proLogistik, we will develop a project schedule with you. Depending on the specific situation, it may be based on classical project management, or can be processed with agile methods. Our teams are ready for either method of project management. We will gladly advise you on which one is the most sensible for your specific project.

WE WILL NOT LOSE SIGHT OF YOU! EVEN AFTER THE PROJECT IS COMPLETE

Our support does not end with successful introduction of the project. To us, service means ongoing process optimisation. We will maintain a mutual exchange afterwards as well, in order to help you optimise future processes.

Of course, we want to hear what cooperation with proLogistik has been like for you. Therefore, your feedback after every project is particularly important to us. This information enables us to further optimise individual project teams or processes.

AGILE PROJECT MANAGEMENT ACCORDING TO SCRUM

SCRUM MASTER

SPRINT

PRODUCT OWNER

PRODUCT BACKLOG

SPRINT BACKLOG

PRODUCT

CLASSICAL PROJECT MANAGEMENT

SPECIFICATION
| Potential analysis
| System definition/software specification
| Review for feasibility

▶ TECHNICAL SPECIFICATIONS

REALISATION
| Detail specification
| Selection of the software modules
| Internal test phases

▶ FACTORY ACCEPTANCE (AT PROLOGISTIK)

TEST PHASE
| Integration test
| Complete test of functions under production conditions
| Documentation

▶ HANDOVER OF THE SOFTWARE READY TO RUN

COMMISSIONING
| Integration
| Training
| Follow/up/optimisation

▶ INTRODUCTION INTO ACTIVE OPERATION