

DINOGX

NORTH-TEC Maschinenbau GmbH

DINGX – Made by



Ding.X is an in-house development. It was created from a simple idea: If we want to operate our own plants more efficiently and transparently, we need a tool that digitizes and connects all processes.



DINGX – Made by



**NORTH
TEC**



Concept



**Plant
Engineering**



**Control
Technology**



Digitalization



Support



Service

What Is DINGX

Ding.X is a software platform for the digitization of technical processes and operational management. It can be used via web browser and mobile app.

1

Reduction of paper chaos and Excel spreadsheets

2

Digitization of processes and documentation

3

Automated task and maintenance planning

4

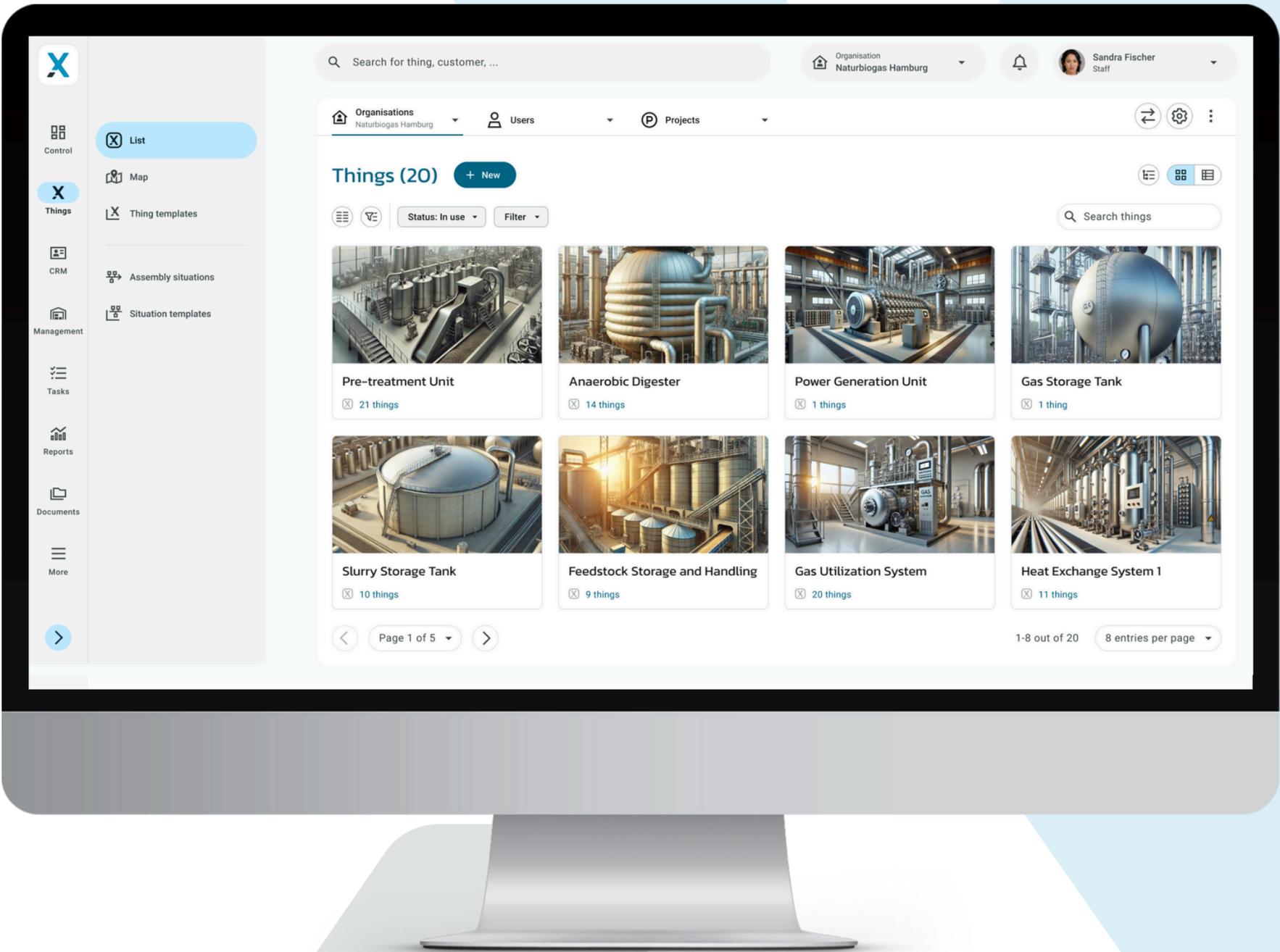
Real-time transparency of plants and conditions

5

Audit-ready traceability

Asset Management

Ding.X intelligently links machines, tools and maintenance cycles in a smart and mobile way – **for better visibility, safety and efficiency.**



Automated Maintenance Planning

Result: Higher predictability, fewer unplanned downtimes and ensured compliance.

1

Maintenance and inspection cycles can be predefined (e.g. daily, weekly or sensor-controlled tasks).

2

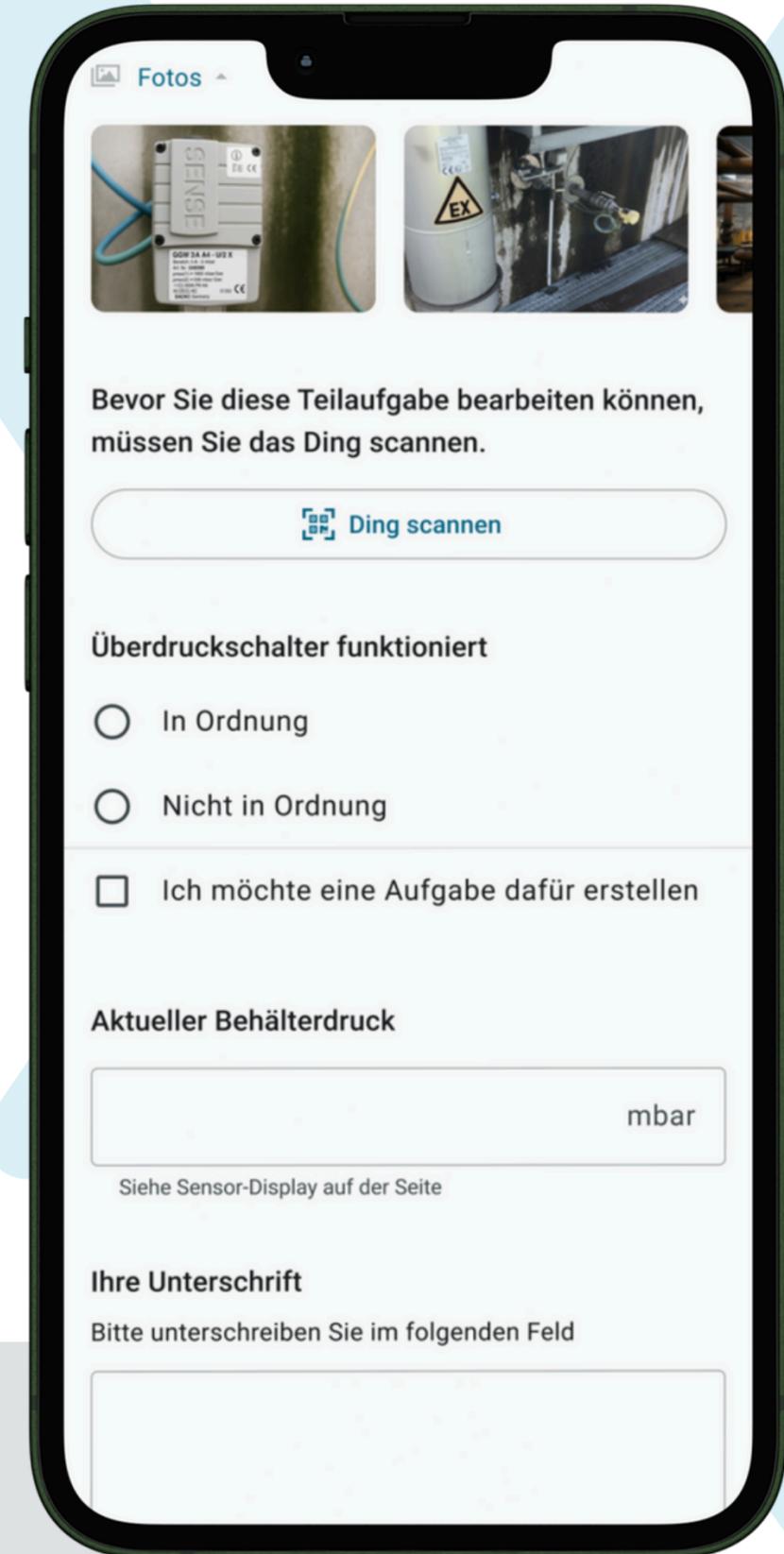
The software automatically sends reminders to responsible persons and documents each step.

3

Maintenance can be triggered by time-based, sensor-based or event-based conditions.

Smart Plant Inspections & Maintenance Plans

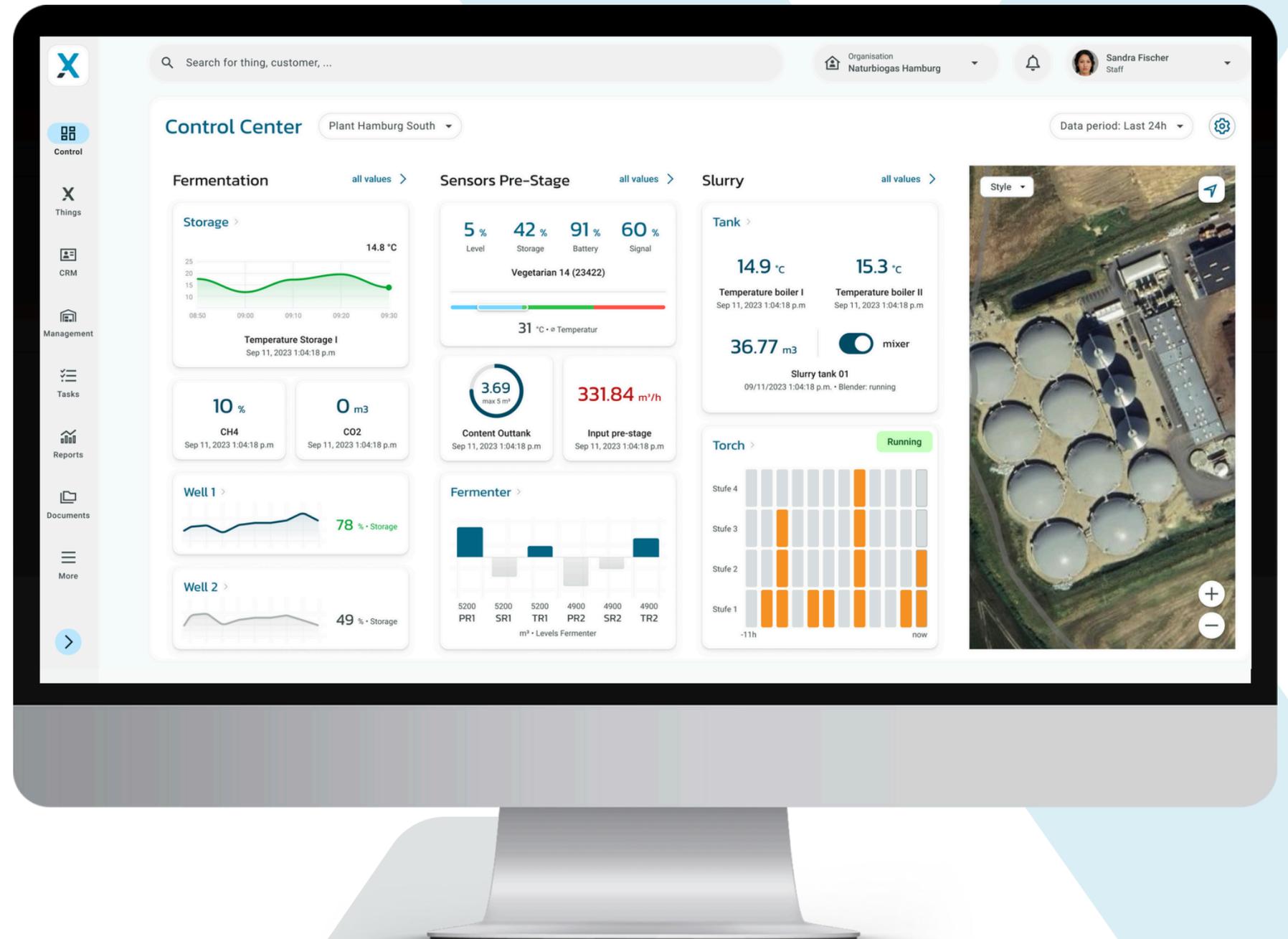
Ding.X lets you plan and document facility inspections digitally via the app, using **QR or NFC tags**. Inspections are completed on mobile devices, fully documented, and with time and location stamps.



The image shows a smartphone screen displaying the Ding.X app interface. At the top, there is a 'Fotos' header with two thumbnail images: one of a 'SENSE' sensor and another of a tank with an 'EX' hazard symbol. Below the photos, a message reads: 'Bevor Sie diese Teilaufgabe bearbeiten können, müssen Sie das Ding scannen.' A button labeled 'Ding scannen' with a QR code icon is positioned below the message. The main task is titled 'Überdruckschalter funktioniert' and has two radio button options: 'In Ordnung' and 'Nicht in Ordnung'. A checkbox option 'Ich möchte eine Aufgabe dafür erstellen' is also present. Below this, there is a text input field for 'Aktueller Behälterdruck' with a unit 'mbar' on the right. A note below the field says 'Siehe Sensor-Display auf der Seite'. At the bottom, there is a section for 'Ihre Unterschrift' with the instruction 'Bitte unterschreiben Sie im folgenden Feld' and a large empty text area for the signature.

Energy Management (Live Data & Dashboards)

Ding.X provides live data, such as **sensor status and energy consumption**, clearly displayed in dashboards.



Revision- and Audit-Ready Documentation

1

With timestamp

2

With GPS/location

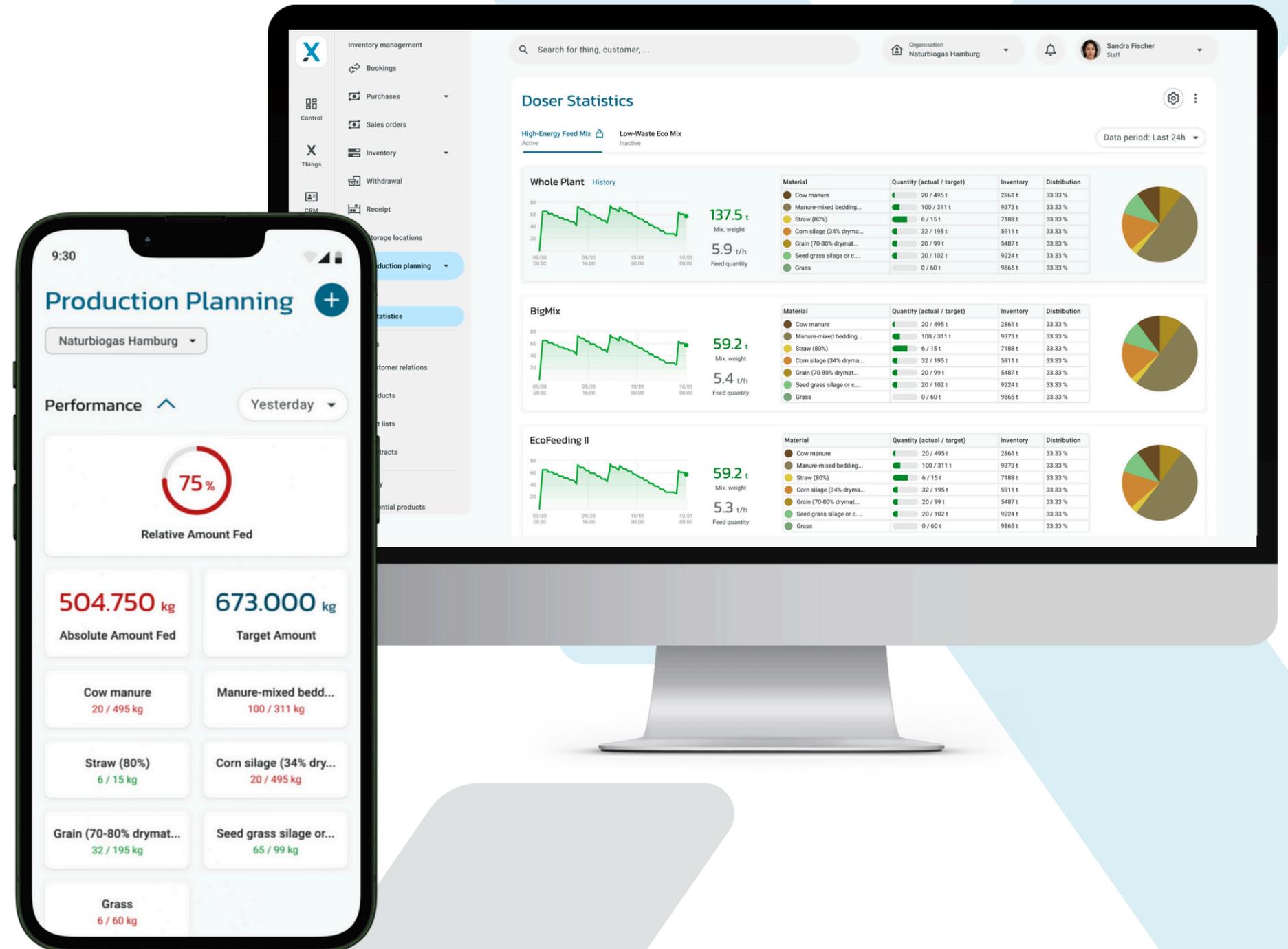
3

With image or note documentation

All actions are automatically recorded.

Traceability – Traceability of Processes

A central aspect for biogas plants is traceability.



Traceability – Traceability of processes

In many plants, traceability is becoming increasingly important – especially due to **RED II and III**.

1

All activities and data flows are recorded digitally and in a tamper-proof way.

2

This is particularly important for complying with regulations like the RED II Directive (Renewable Energy Directive).

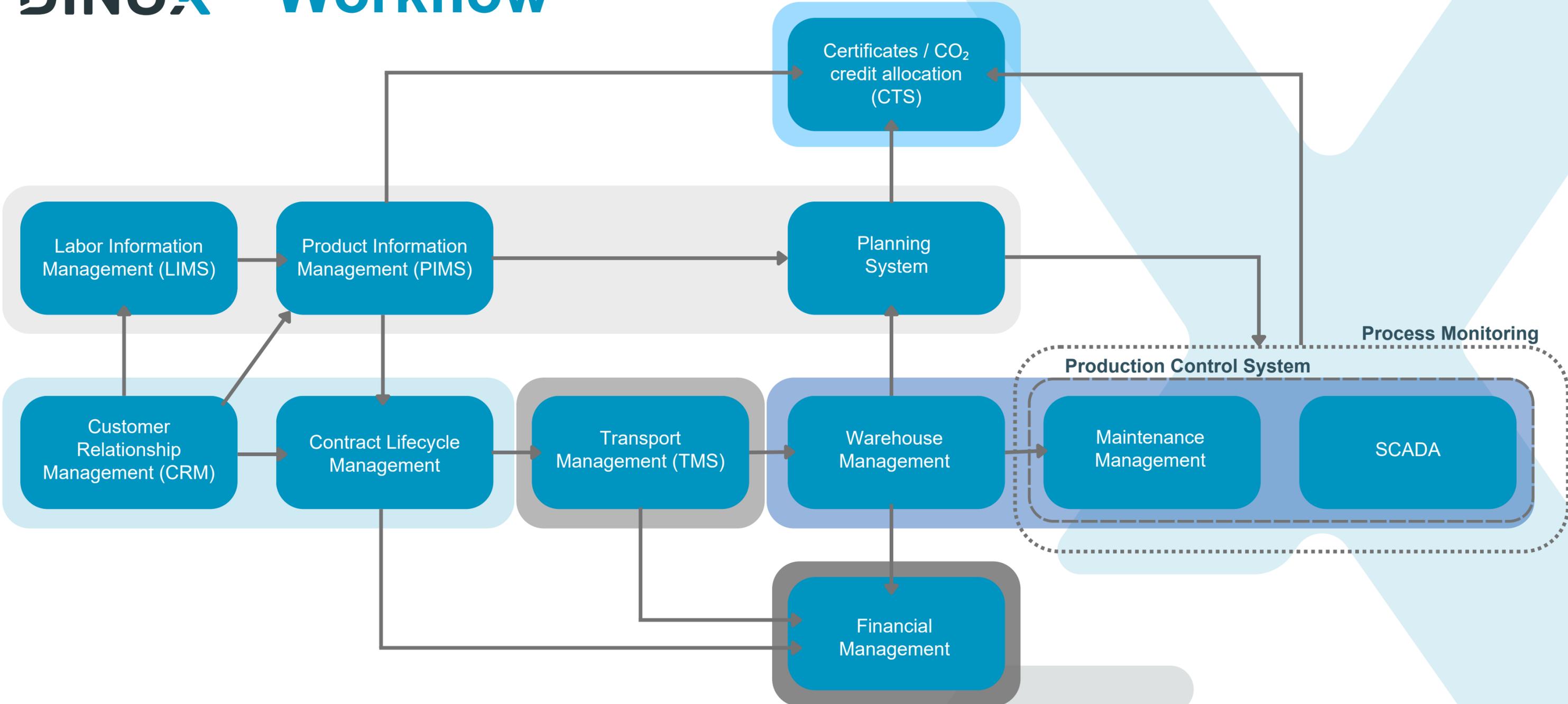
3

Each process chain can be reconstructed – from raw material input to the final product.



Ding.X was awarded the Agromek Star 2025 for its traceability features.

DINGX – Workflow



- Procurement
- Logistics
- Biology
- Production
- Trading
- Corporate Functions

Concrete Benefits for Plant Operation

A fully digitized, efficient and secure operational management – with one platform that **connects processes, simplifies work, and ensures transparency.**

1

Processes become simpler

Less paperwork, less searching, less explaining.

2

Processes become faster

Everything is immediately available – mobile, digital, synchronized.

3

Processes become safer

Nothing is forgotten, everything is documented.

4

Processes become more efficient

Better data = better decisions.

5

Processes become audit-ready

You are prepared at all times – regardless of personnel.

Conclusion

Ding.X is a digital platform that intelligently connects and automates technical operational processes. It creates transparency, reduces errors and manual work, and provides smart support for maintenance, control, documentation, and traceability – exactly what modern biogas plants and technical teams need.

The screenshot shows the 'Products' management interface. The left sidebar contains navigation options: Control, Things, CRM, Management, Tasks, Reports, Documents, and More. The main content area displays a table of products with columns for Product no., Name, Supplier, Contract, State, Material type, Material sub type, Category, and Labels. The table lists various products such as 'Grass clippings', 'Svine gylle', 'Plant waste', 'Leftover food', 'Landscaping grass', 'Corn silage', 'Plant waste', 'Sewage sludge', 'Pig manure', 'Organic waste', 'Organic waste', 'Poultry manure', 'Grass clippings', 'Poultry manure', 'Cattle manure', 'Poultry manure', 'Landscaping grass', 'Organic waste', and 'Pig manure'. The interface also includes a search bar, filters for material type and sub type, and a notification for 5 unspecified products.

The screenshot shows the mobile app interface during a weighing process. The top status bar indicates 'Started weighing process'. The main screen displays a large green box with the weight '12501 kg'. Below this, a message states 'Weighing completed successfully. Please clear the scale!'. There are buttons for 'Weight confirmed' and 'Weigh again'. A step indicator shows '3 Drive to loading point Drive here to load material:'. Below this, a button labeled 'Hall A' is visible. At the bottom, there is a 'Show gate controls' button and an 'Arrived at loading point' button. The bottom status bar shows '4 Load material'.

The screenshot shows the 'Inventory' management interface. The left sidebar is identical to the 'Products' view. The main content area displays a bar chart showing inventory levels across different storage locations: 'All storage locations', 'Bredstedt main storage', 'Warehouse forecourt', 'Silo area 1', 'Silo area 2', and 'Pre-tank'. The bar chart is divided into segments representing different items, with their respective weights listed below. For example, 'Bredstedt main storage' shows 8 items with a total weight of 51.200 / 90.500 kg. The items and their weights are: Item name X (10.240 kg), Item name X (5.140 kg), Item name X (310 kg), Item name X (14.745 kg), Item name X (102 kg), Item name X (15.170 kg), Item name X (4.310 kg), and Item name X (8.240 kg). The 'Warehouse forecourt' also shows 8 items with a total weight of 51.200 / 90.500 kg. The 'Bredstedt main storage' shows 8 items with a total weight of 51.200 / 90.500 kg. The interface also includes a search bar and a notification for 5 unspecified products.