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INTEGRATED HR SOLUTION

BACK-X

The data space for the European electronics industry

We connect electronics manufacturing data to create shared value, while always maintaining each organization's sovereignty, security and control.

gaia-x compliance



Your data stays in your company

You define the exchange rules

Data generates value for everyone

Security, traceability and trust

THE CHALLENGE: A FRAGMENTED SECTOR

Machines that do not understand each other

Dispensing, curing, inspection and electrical test; different manufacturers, each with its own language and formats.

Valuable isolated data

Each company learns only from its own experience: no references, no shared knowledge.

Europe competes in a fragmented way

While integrated Asian supply chains scale, backend production in Europe remains scattered and disconnected.

Disconnected systems

Production, quality and business run in silos, without a single real-time view.

The backend, the least connected piece

Europe invests billions in chips (EU Chips Act), but backend, where products are actually made, remains the least connected stage.

The electronics industry needs connected data to be more competitive.
BACK-X makes it possible to share without giving up control.

HOW BACK-X WORKS

Three simple principles. No technical knowledge required.

1

Your data stays at home

Nothing is copied into a central database. Your information remains in your systems, under your control.

2

You define the rules

Digital contracts determine who can access what, for what purpose and for how long. You can revoke access whenever you need.

3

Data generates value

Information travels directly between verified partners to share, compare and analyze with full confidence.

BACK-X is like a digital notary: it verifies who is who and enforces the agreements.
The data travels directly between partners.

Verified identities · Digital contracts · Revocable permissions · Complete logging and audit trail

WHAT YOU CAN DO WITH BACK-X

Six key capabilities, already implemented with our founding participants.

Connect any machine

Dispensing, curing, optical inspection, electrical test... any manufacturer, any protocol.

Share data between companies

Exchange production data securely with customers, suppliers and partners, under your conditions.

Predict failures and defects

AI on top of your process data: early alerts, fewer rejects, better machine performance.

Synchronize plant and business

Production, quality and management (MES/ERP) aligned with consistent real-time data.

Full traceability

Every lot, every process, every access is recorded and audited from start to finish.

Sovereignty and control

You decide what data to share, with whom and for how long.

BACK-X IS ALREADY A REALITY

Operational platform · Open registration portal · 5 completed use cases · Industrial demonstrator in operation · 6 founding participants · Verified end-to-end exchange

Plan de Recuperación, Transformación y Resiliencia
Financiado por la Unión Europea NextGenerationEU

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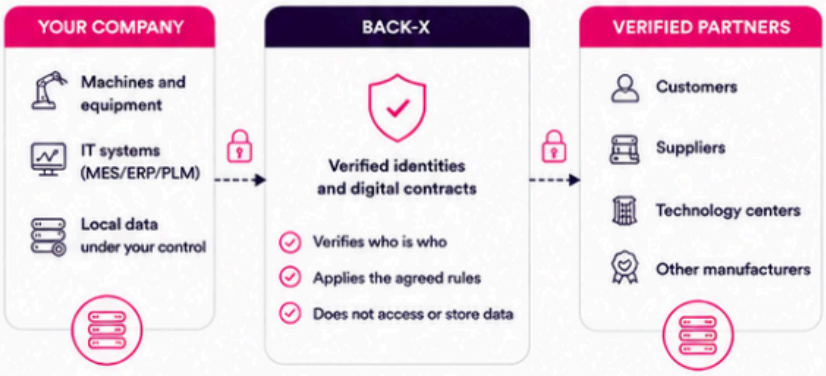
INTEGRATED HR SOLUTION

BACK-X

Trust, sovereignty and interoperability in every data exchange

BACK-X is designed so that data travels securely and directly between verified partners, without being copied or centralized, always complying with your rules.

THIS IS HOW DATA EXCHANGE WORKS



Data travels directly between partners under the rules that you define.

SECURITY AND SOVEREIGNTY BY DESIGN

Data sovereignty
You decide what you share, with whom, for what and for how long. You can revoke access whenever you need.

Built-in security
Encrypted exchanges and verified digital identities. No anonymous actors.

Full traceability
Every access and every exchange is logged and auditable. You always know where your information goes.

No central repository
Data is never copied to a central location. It flows directly between partners under contract.



TOTAL INTEGRATION INTO YOUR ENVIRONMENT

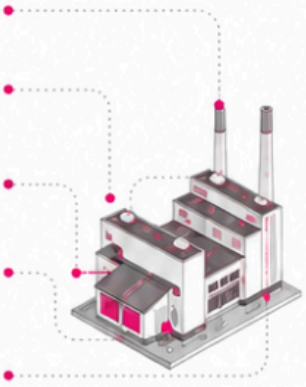
Machines and equipment
Independent of the manufacturer or protocol.

Plant systems (MES)
Real-time production data and aligned operations.

ERP and business management
Consistent information for strategic decisions.

Quality and traceability
Complete records of lots, processes and results.

Artificial Intelligence
Models and analytics on your data, without leaving your environment.



BENEFITS FOR THE ENTIRE ECOSYSTEM

Better decisions, better results
Share and access valuable information to reduce defects, optimize processes and improve performance.

Stronger and longer-lasting relationships
New data-based services and transparent collaboration generate trust.

A more competitive European ecosystem
Connected data, shared knowledge and a more integrated and resilient value chain.

> BACK-X is not just technology: it is the trust infrastructure that the European electronics industry needs to lead.

STANDARDS AND COMPLIANCE

UNE 0087:2025
First data space specification in Spain developed together with the Data Spaces Reference Center (CRED).

Gaia-X compatible
Based on the European data space protocol, shared by initiatives across the continent.

Aligned with the European data strategy and GDPR
Regulatory compliance guaranteed for each participant.

WHO IS LEADING BACK-X

Six founding participants who are already building the future of industrial data.

MISTECH Europe — Manufacturer of machinery and inspection systems	SMT — Distributor of equipment and supplies	accent systems — Electronics and IoT manufacturer
MONTAJES Y SERVICIOS S.L. — Manufacturer of electronic circuits	uc3m — Universidad Carlos III · research partner	onizea — Technology operator and data space operator

HOW TO JOIN BACK-X

1. **Connect** — Register on the portal and verify your identity.
2. **Define** — You decide who to share with and under which rules.
3. **Exchange** — Data flows securely and verifiably between partners.
4. **Create value** — Share, analyze and improve your processes with real information.

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