



MonXolo

PROJECT OVERVIEW

Compliance Infrastructure for Digital Product Passports and Lifecycle Evidence

1. Executive Summary

MonXolo is a European research-driven infrastructure initiative building next-generation compliance systems for sustainable products, packaging, and materials.

Its mission is to transform regulatory requirements into verifiable digital proof, enabling companies, institutions, and ecosystems to demonstrate sustainability performance, traceability, and compliance readiness across borders.

MonXolo operates as an invisible infrastructure layer rather than a user platform, supporting industry actors in meeting current and future regulatory frameworks.

2. Core Technology Domain

MonXolo develops Digital Product Passport infrastructure (DPP), a regulatory-grade digital identity system for products and materials that enables lifecycle transparency, compliance validation, and trusted evidence exchange.

The infrastructure is designed to function as a neutral compliance backbone usable by manufacturers, brands, recyclers, regulators, auditors, and research institutions.

3. DPP Delivery Scope

MonXolo provides modular Digital Product Passport systems across multiple domains:

- DPP for Products
- DPP for Packaging
- DPP for Product + Packaging combined systems
- DPP for Packaging in Food and Agriculture ecosystems

These modules can operate independently or as a unified compliance layer depending on sector and regulatory needs.



4. **Regulatory Alignment**

MonXolo is designed for full regulatory interoperability and is aligned with major European compliance frameworks:

- ESPR – Ecodesign for Sustainable Products Regulation
- PPWR – Packaging and Packaging Waste Regulation
- GS1 standards for global product identification
- GDPR – General Data Protection Regulation
- CIRPASS 2 – Digital Product Passport ecosystem architecture

The system is also structured to be fully auditable under UNTP-aligned verification logic, enabling evidence-based validation and institutional trust.

5. **Value Proposition**

MonXolo enables organizations to:

- demonstrate compliance with verifiable data rather than declarations
- ensure traceability across complex supply chains
- prepare for upcoming regulatory obligations before enforcement deadlines
- provide trusted lifecycle evidence to partners, investors, and authorities
- scale sustainability reporting without operational burden

6. **Positioning**

MonXolo is positioned as compliance infrastructure, not software tooling.

It functions as a foundational digital layer that supports ecosystems, not as a front-end application.



7. **Collaboration Interest**

MonXolo is actively seeking collaboration with:

- research institutions
- technology providers
- industrial manufacturers
- public authorities
- circular economy initiatives
- sustainability innovation projects

Partnership formats include research consortia, pilot programs, validation environments, and cross-sector innovation collaborations.

8. **Strategic Vision**

MonXolo's long-term objective is to become a European compliance operating infrastructure enabling trusted, interoperable, and verifiable sustainability systems across industries.