

DeCarb42 –CO2 transparency and optimization in supply chains

–autonomous, semantic, and enterprise-wide–

How do you manage costs, emissions, and regulation when the actual CO₂ drivers in your transport chains are not transparent?

DeCarb42 is an autonomous, semantic platform for identifying, analyzing, and managing CO₂ and cost structures across real-world processes and supply chains, across systems, without manual modeling and without isolated data silos. DeCarb42 provides a robust decision-making foundation for management, finance, and ESG, simultaneously reduces emissions and costs, and supports regulatory requirements, enterprise-wide, scalable, and cloud-ready.

Benefits & added value

- Transparency over real CO₂ drivers across transport processes and supply chains
- Linking emissions, costs, and operational decisions
- Reduction of emissions and costs within a single control model
- Measurable efficiency and cost-saving potential
- Accelerated ESG and decarbonization initiatives
- Reduction of regulatory and financial risks
- Scalable

Unique differentiation

- No manual modeling or manual CO₂ allocation, autonomous analysis
- Semantic attribution of emissions to real processes and decisions
- Across systems and data sources (ERP, logistics, energy, suppliers)
- Platform approach instead of isolated ESG tools
- **Direct action recommendations for CO₂ reduction and cost reduction instead of pure ESG reporting**

Typical use cases

- Transparency over CO₂ hotspots across the value chain
- Identification of emission and cost drivers
- Management of decarbonization measures
- Preparation and assurance of regulatory reports (e.g., CSRD)
- Comparison and prioritization of reduction measures
- Management and ESG reporting based on reliable data
- Reduction of external analysis and consulting costs

Which challenges do you want to address regarding costs, emissions, and regulation?

CEO / CFO

Manage. Prioritize. Safeguard.

- Transparency over emission and cost drivers as a basis for decision-making
- Prioritization of measures based on impact and economic viability
- Safeguarding investments and transformation programs
- Reduction of financial and regulatory risks
- Robust management of ESG and decarbonization targets

COO / CDO / Sustainability

Understand. Reduce. Execute.

- System- and vendor-independent process intelligence
- Decoupling of processes and applications
- Reduction of IT and integration complexity
- Zero tagging, no manual modeling or preparatory work
- Scalable, cloud-ready platform
- Data sovereignty

CIO / CTO

Integrate. Decouple. Scale.

- System- and data-source-independent CO₂ intelligence
- No manual data modeling or tool dependency
- Integration of existing ERP, energy, and logistics systems
- Scalable, cloud-ready platform
- Data sovereignty and auditability

Discover CO₂ and cost intelligence with
DeCarb42®



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