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Digital Solutions for Resilient and Regenerative Supply Chains

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27 March 2025

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Acknowledgment

This paper was funded by the European Commission within

HORIZON-CL4-2023-RESILIENCE-01

the project **“Resilient Supply Chains for Europe” (ResC4EU)**

grant agreement number **101137643**.

STARTING POINT

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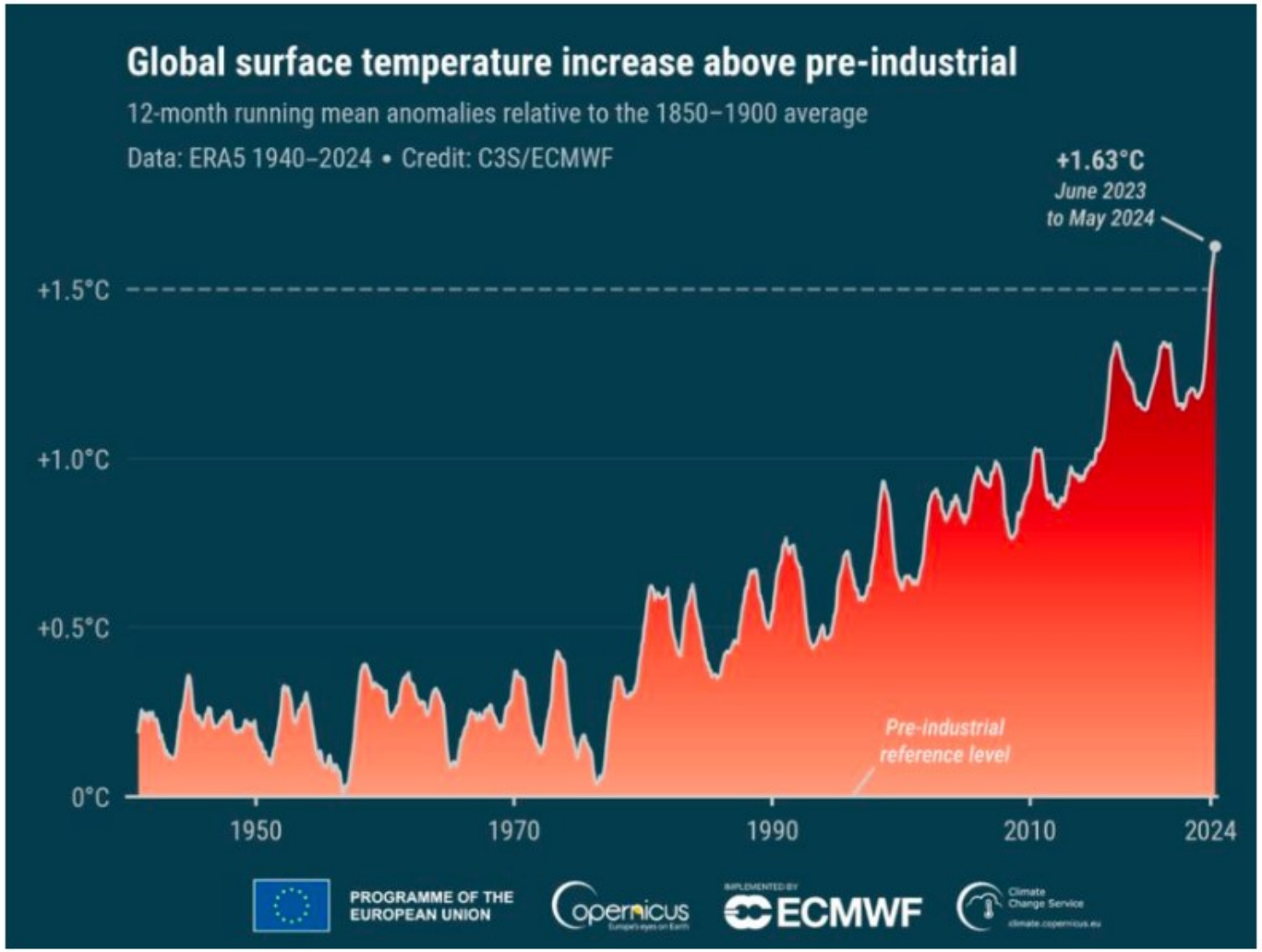

Figure 1: ECMWF/C3S Data on the Global Surface Temperature Increase in 2024

APPROACH

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- Design and implementation of digital tools and services to boost SC resilience, sustainability and circularity

- Understanding the focus, processes, suppliers, & methods for innovative SC tools

	SC Resilience	SC Sustainability	SC Regeneration	**Traditional SCs**
Focus	Adaptability to changing conditions	Resource efficiency	Restoring natural habitats & resources	**Cost efficiency**
Processes	Adopting backup processes/ sources	Optimized use of materials & energy	CE practices	**Enhanced revenue & profit**
Suppliers	Alternative suppliers & processes	Sustainable sourcing	Regional sourcing, fair labour practices	**SC optimization**
Methods	Transparency & collaboration; Coordinated responses to risks, vulnerabilities and disruptions	Transparency & sustainability reporting for stakeholders	Innovating for social & ecological regeneration	**Optimized inventory management; Reduced operational costs**

PRACTICAL REQUIREMENTS IN SHORT

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- Resilient SCs:
  - Enable SMEs to identify alternative suppliers, processes and resources, ensuring their adaptability to disruptions
- Regenerative SCs:
  - Prioritize regional sourcing, CE principles and models, fair labour practices
- Sustainable SCs:
  - Encourage responsible sourcing and emissions reduction, ensuring compliance with evolving environmental and corporate sustainable regulations.

KEY CHALLENGES

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- Advanced collaboration:
  - Enable AI-driven matchmaking system to facilitate connections and partnerships with relevant technology providers, suppliers, and innovators
- Mitigating SC disruptions:
  - Integrate real-time risk assessment and predictive analytics using Copernicus EO data providing SMEs with early warning systems and adaptive strategies
- Reducing product variety and quality trade-offs:
  - Boost alternative material sourcing and shared production capabilities
- Regulatory compliance:
  - Structure guidance for reporting, e.g. CSRD which will impact SMEs starting January 2027

EMPOWERING B2B COLLABORATION: THE CLOUD PLATFORM ADVANTAGE

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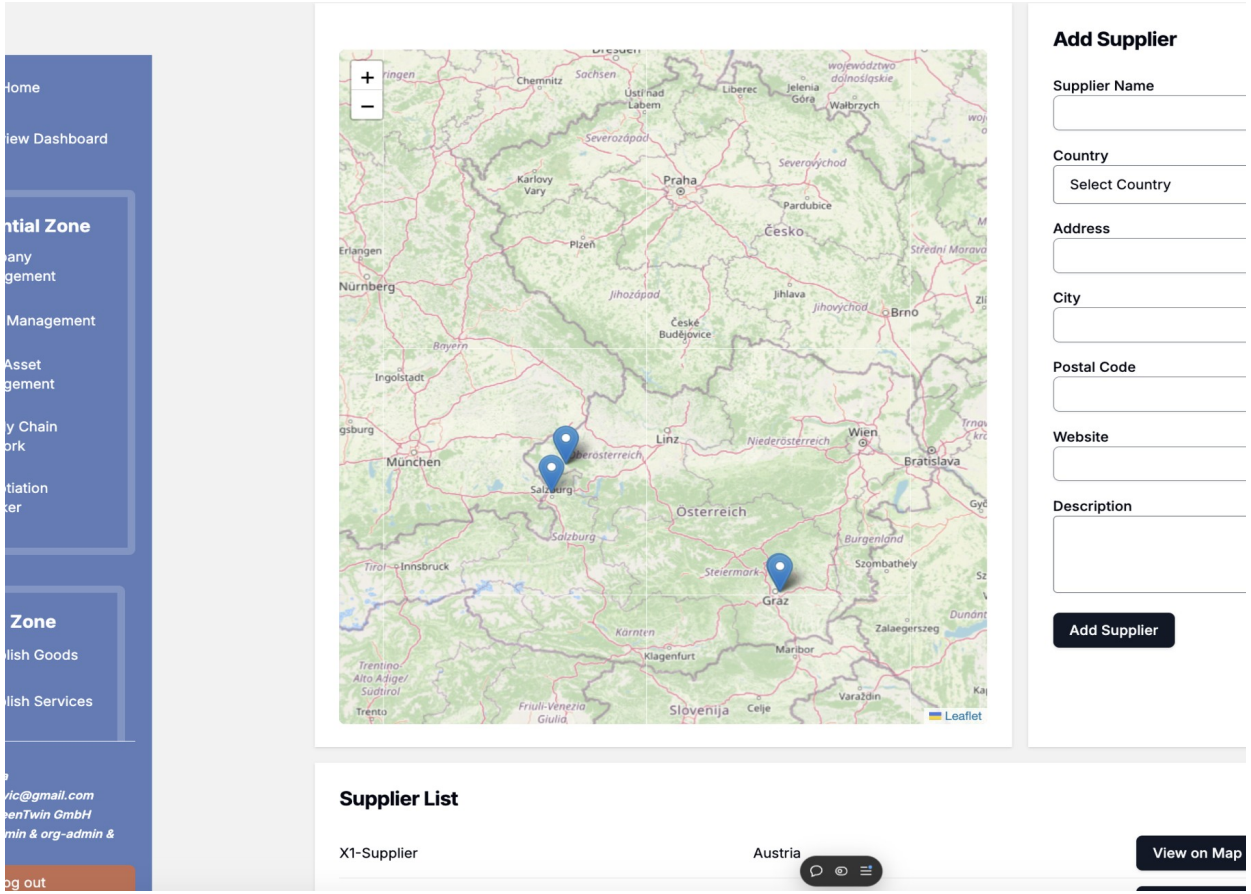
- We are currently a technical partner in the Horizon Europe project ResC4EU (Resilient Supply Chains for Europe), [HORIZON-CL4-2023-RESILIENCE-01-42]

- Current platform is free for SMEs and accessible at [resc4eu.greentwin.app]
- Achieved TRL5, validating the platform's functionality in operational environment
- Partnerships with key stakeholders and growing user interest



CALL TO ACTION ...

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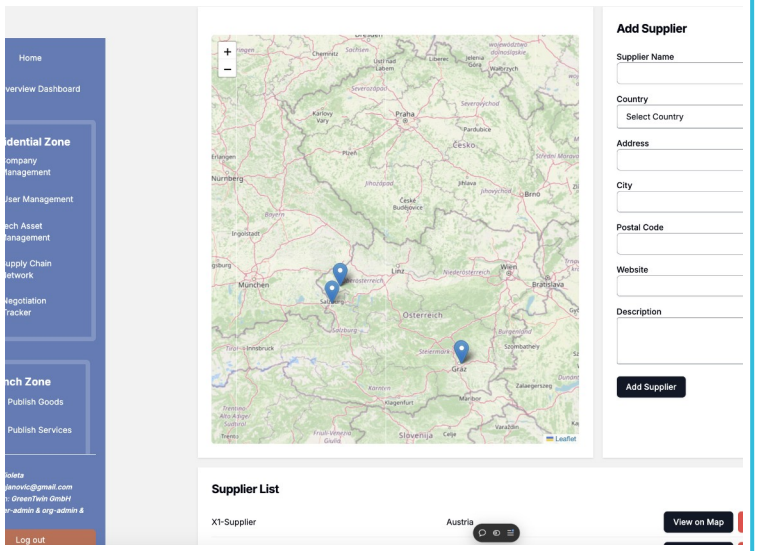
- **Try the Platform Now**
  Experience our B2B **platform** designed to build resilient and sustainable supply chains. Access the platform for free at resc4eu.greentwin.app and see how we're empowering SMEs to navigate supply chain risks and boost sustainability.
- **Join Us in Shaping the Future of Supply Chain Resilience**
  Connect with us to explore **partnership opportunities**, **invest in our mission**, or learn how our solutions can enhance your supply chain.
- **Get Involved with Our Next Development Phase**
  Be part of our journey. Help us scale up by **partnering** or **investing** in the future of digital supply chain solutions.
- **Schedule a Demo or Consultation**
  See our platform in action. Book a free demo to understand how our tools can transform your supply chain today.

THANK YOU



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