

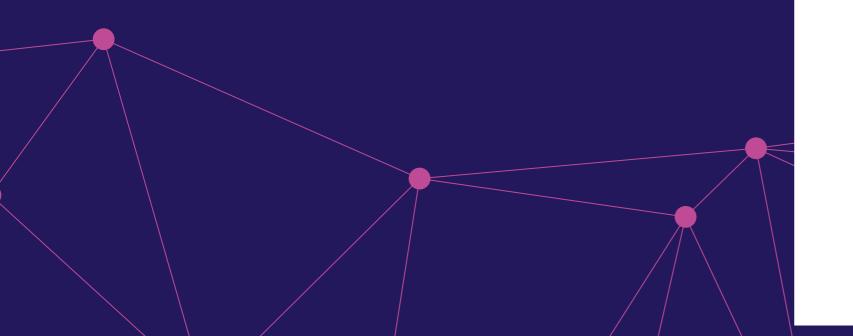
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Our future is more uncertain than ever before. Climate change is devastating our planet and endangering lives. From severe flooding across **Central Europe cascading down to food shortages** and the refugee crisis, the catastrophic impacts of global warming are undeniable. Supply chains are responsible for over 60% of the world's carbon emissions. If we're going to reach Net Zero, we must start by transforming our supply chains.

Opportunity

We all have a part to play to ensure a more sustainable world of tomorrow, and the stakes have never been higher. The time to act is now. By leveraging data and technology, there is an opportunity for us to make our supply chain networks not only more sustainable, but more resilient and cost-efficient too.

Network science, AI, scenario exploration and genetic search form a winning combination that can accelerate this transformation.

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It's Time We Face the Facts

60%+ 3.6bn

of the world's carbon emissions come from supply chains (WEF)

people already live in areas highly susceptible to climate change (WHO)

37%

of heat-related deaths attributed to human-induced climate change according to recent research (WHO)

98m

more people experienced food insecurity in 2020 compared to the 1981–2010 average (Climate.gov)

the rate of warming since 1982: 0.36° F (0.20° C) per decade (Climate.gov)

250k

additional deaths per year expected to be caused by climate change between 2030 and 2050 (WHO)

Supply Chains are the Place to Start

We can no longer turn a blind eye to the damage supply chains are doing to our climate and, consequently, our planet and people. Many people view corporations as the problem, when they could, in fact, be the solution. It's time we take responsibility for our supply chains.

We must all do our bit to reduce the carbon footprints of our businesses. Transforming our supply chains is the first, and perhaps most crucial, step in ensuring the survival of our planet.

The problem is that supply chains haven't been built for sustainability. Many networks are forged from decades of legacy assumptions, and are consequently inefficient, fragile and unsustainable. Yet many leaders lack the tools they need to simulate the trade-offs and risks of structural changes to their networks. This leads them to mistakenly believe that network design projects are too complex, risky and expensive to be realised.

Only 14.8% of companies are considering restructuring their supply chains to reduce their carbon footprints (Economist Impact). For the innovators who recognise network science as the key to reducing costs, emissions and inefficiencies across their supply chains, there is much competitive advantage to be won while also saving our planet.

As consumers and regulation continue to demand increased supply chain sustainability, the risks of inaction pose more of a threat to reputation and operational stability than ever before.

14.8%

of companies are considering restructuring their supply chains to reduce their carbon footprints (Economist Impact) Hack&Craft

The Journey to Net Zero: Challenges for Supply Chain Leaders

Complex Networks, Complex Problems

Optimising supply chains is no simple task - data can be heavily fragmented, structures are complex and regulations are ever evolving.



Balancing Priorities

Navigating cost pressures, KPIs and emissions reduction are just some of the most critical priorities for supply chain leaders in today's volatile market landscape.



The Transformation Gap

Without appropriate tools to simulate the trade-offs and risks of structural transformation, networks remain unchanged and inefficiencies persist, losing more and more value over time.



A Smarter Path to Supply Chain Transformation

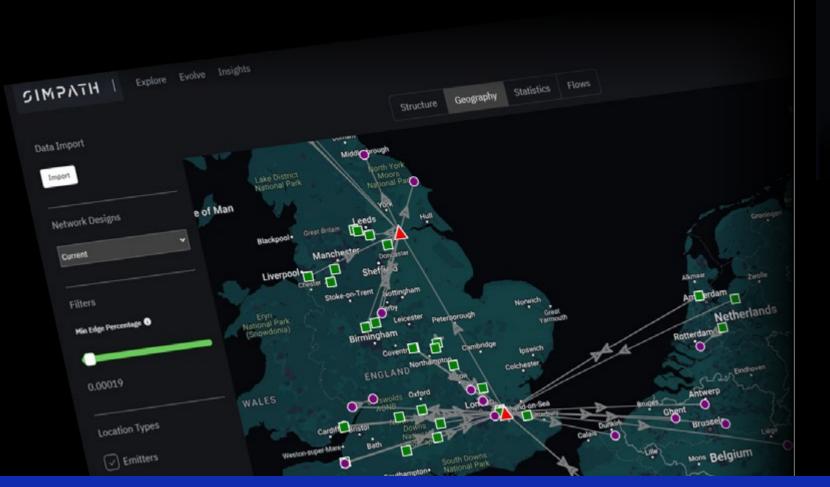
Supply chain leaders now have a choice to make: risk falling behind, or harness innovative technology to drive impactful change.

Network science, coupled with AI-driven scenario exploration, enables supply chain leaders to explore the art of the possible for their supply chains within a virtual environment.

This empowers decision makers to de-risk strategic transformation initiatives and build business cases for innovation.



The future of network design is here, and its name is SimPath.



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SimPath is a groundbreaking network science technology, driven by AI, that gives supply chain leaders the power to experiment with proposed structural changes in a virtual replica of their supply chain.

SimPath delivers intuitive insights and visualisations to guide decision making,

unlock hidden optimisation opportunities and reveal trade-offs between sustainability, resilience and efficiency.

Analysing historical supply chain movement data, SimPath generates dynamic digital supply chain simulations and rapidly delivers synthetic models for network exploration, evolution and innovation.



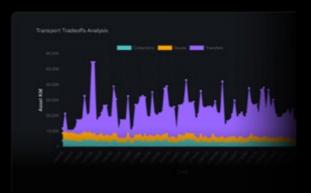
Explore

Visualise your network in more detail than ever before - interact with individual nodes and hubs to identify areas of weakness or opportunity.



Evolve

Discover alternate structures across a range of scenarios, leveraging genetic search to identify the most optimal, high-performing network structure for your supply chain while managing trade-offs between resilience, sustainability and cost for your unique network.



Insights

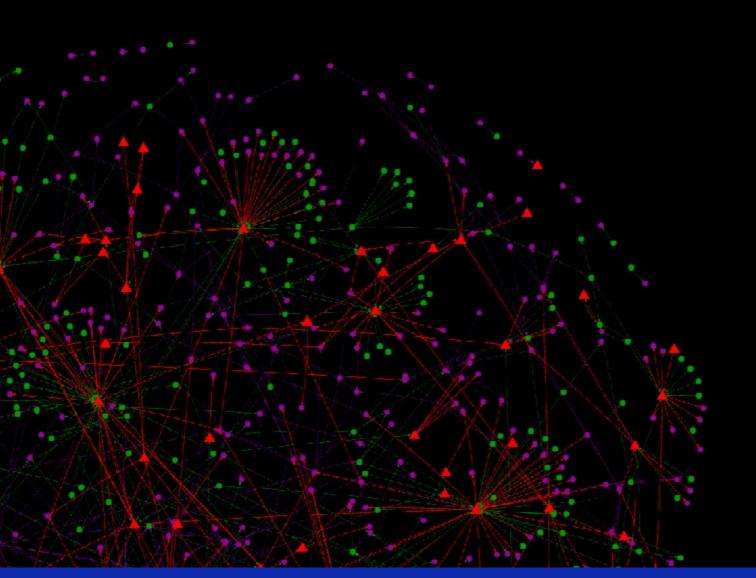
Harness the powers of AI to understand what high performing structures have in common. Removing the black box, SimPath empowers its users to make better, faster decisions by uncovering rules of thumb associated with optimal network structures.

The Secret to Smarter Network Design with SimPath

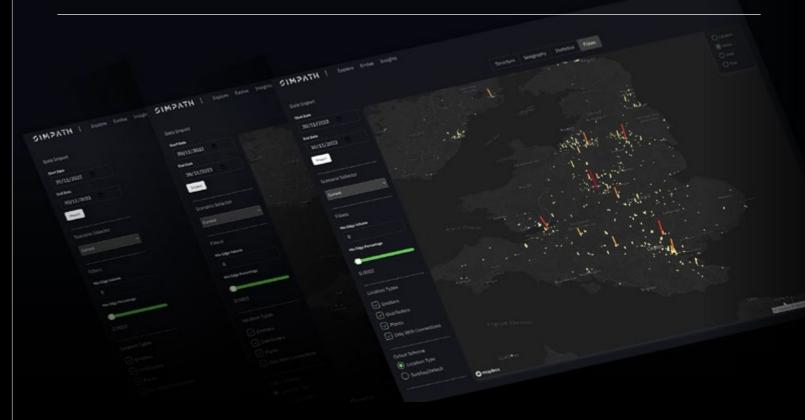
Challenging legacy assumptions:

Supply chains are built from assumption based decision making. Consequently, traditional network design tools are linearly constrained and rely heavily upon inputs and steers. This means that leaders have to assume what they're trying to find out, leaving little room for innovation. SimPath uses genetic algorithms to challenge legacy assumptions and groupthink.

Leveraging genetic search, we simulate thousands of scenarios in parallel to reveal the optimal, often hidden characteristics of your most performant network structure.



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Custom models, expertly integrated:

Seamless, quick and risk-free: Hack and Craft is SimPath's exclusive integration partner.

Having guided the network design of the most complex supply chains in the world, H&C's expert engineers and unique consultative approach will help you get the most out of your data throughout the integration phase, enabling you to quickly start exploring endless possibilities to achieve your ideal future state network.

Intuitive, actionable insights:

Tired of not getting enough from your insights? SimPath delivers strategic insights, analytics and visualisations to empower decision-making and reveal hidden optimisation opportunities.

Innovation for less:

We prioritise long term partnerships and consequently are priced more affordably than other tools on the market. SimPath is independently owned and, unlike expensive retro-fitted technology, has been built from the ground up for today's challenges.

With SimPath's custom packages, we help our clients to see quick, transformative value from minimal investment.

Take the Smarter Path to Supply Chain Transformation

Explore how SimPath can guide your journey to a more resilient, efficient and Net Zero supply chain.

We are offering **3 free trial periods** to organisations committed to reducing their carbon emissions.

Book your demo today with one of our experts.

Trusted by:



AkzoNobel









Brambles







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