O9 x AAPN Digital Brain & Sustainable Supply Chain

Updated 5.17.23 - L0 Process

og Solutions

Agenda

Intros
About o9 & The Digital Brain

Our POV
Sustainability as an integrated process of supply chain management

Sustainable Supply Chain
An overview of our solution approach

Q&A
Interactive discussion





About o9

Who we are



o9's continued diversified growth is a true testament to the power of the o9 Digital Brain platform, which has been built from its inception to fundamentally transform planning and decision making across the enterprise for a wide range of industries, company sizes, and planning use-cases.

Chakri Gottemukkala Co-founder and CEO of o9 World Economic Forum's 2021 New Champions Awards for **Excellence in Innovation.**

One of FT The Americas' Fastest Growing Companies 2022

Partnership with all public cloud providers -Microsoft, Google, AWS **Built on native SaaS model**

o9 revenue growth sustained in the past 4 years - more than doubled every year

Leading provider of SaaS SCM solutions with Digital Brain and Enterprise **Knowledge Graph**

Positioned as a Leader in Gartner 2022 Magic Quadrant for Supply Chain Planning Solutions

Worldwide Talent pool exceeds 2,400, all focused on end-to-end planning and decision making

Launches a Sustainability Solutions Suite, helping companies review environmental and social KPIs of their extended supply chain

2009

Founded by Sanjiv Sindhu founder of i2 Technologies (pioneer of Advance Planning & Supply chain Software) and Chakri Gottemukkala



Launched o9 Platform powering digital transformations at global companies, across industry verticals

2020



2022

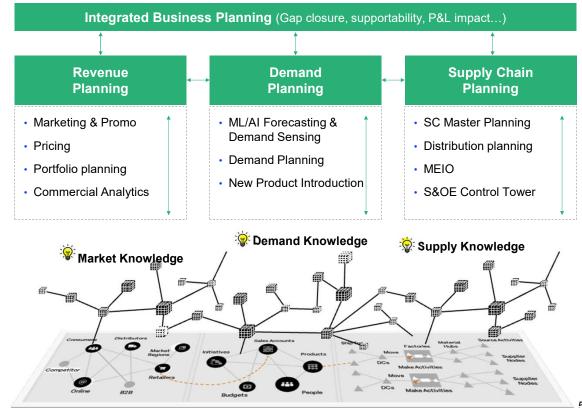
Tremendous growth with KKR minority investment of \$100M increasing company valuation to \$1B

General Atlantic, Its BeyondNetZero Venture, and Generation Investment Management Join as Investors in o9, Valuing the Company at \$2.7 Billion with \$295M investment.

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o9 Digital Brain: Next-generation planning & decision-making platform

- o9 is a next-generation planning and decision-making platform...
- ...supporting **all key planning processes** on one single data model...
- ...at any level of granularity, in a telescopic planning view...
- ...connecting to real-time market and enterprise knowledge...
- ...achieving **true integration** within and between functions



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Industry leaders



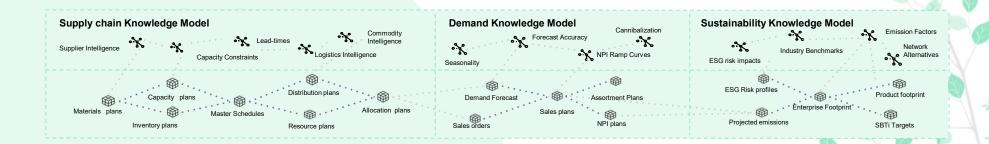
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o9's POV

o9's Vision of Sustainable Supply Chains

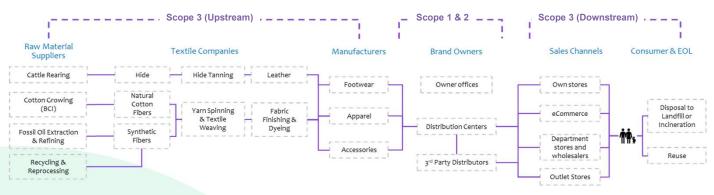
"Organisations with superior decision-making processes are better stewards of the Earth's precious resources and are more inspiring, happier, places for employees. Making it happen is our mission" – Sanjiv Sidhu Chairman and Co-Founder of 09 Solutions

- Supply chains primary driver of environmental & social impact*
 *Scope 3 accounts for 80 percent of overall climate impact (McKinsey, 2020)
- Supply chain + sustainability integral elements of a common process.
- ESG-enabled supply chain digital twin standards-based (ISO, GHG Protocol, GRI, SASB) sustainability attributes, measures, and KPIs
- Actionable intelligence by linking ESG data to forward planning and decision support, companies can effectively drive supply chain KPIs towards a sustainable operating model



o9's Digital Brain Sustainable Supply Chain Transformation Pathway

Fashion & Apparel sustainability context



Compliance / License to Operate

- Introduction of stringent regulatory frameworks such as:
 - Corporate Sustainability Reporting Directive (CSRD)
 - Circular Economy Action Plan (CEAP)
 - Digital Product Passports (DPP)
 - Ecodesign for Sustainable Products
 - Extended Producer Responsibility (EPR)
 - REACI
 - SEC sustainability directive
 - The Corporate Sustainability Due Diligence Directive

Data challenges

- There is a need for more accurate scope 3 data
 - By consumers, investors and regulators
 - Need of more depth and breadth of data from contract manufacturers and material suppliers
- Most scope 3 or environmental information is coming from 3rd party reference databases, decreasing the accuracy of the data
 - Industry's leading sustainability assessment tool (SAC Higg Index | Worldy) has been called out for providing misleading ESG data to fashion brands
- Low connectivity with suppliers and lack of communication, which makes the acquisition of high-fidelity data difficult
- Low visibility of the upstream tiers of the supply chain, which increases the low accuracy of the environmental data

Environmental & social impact

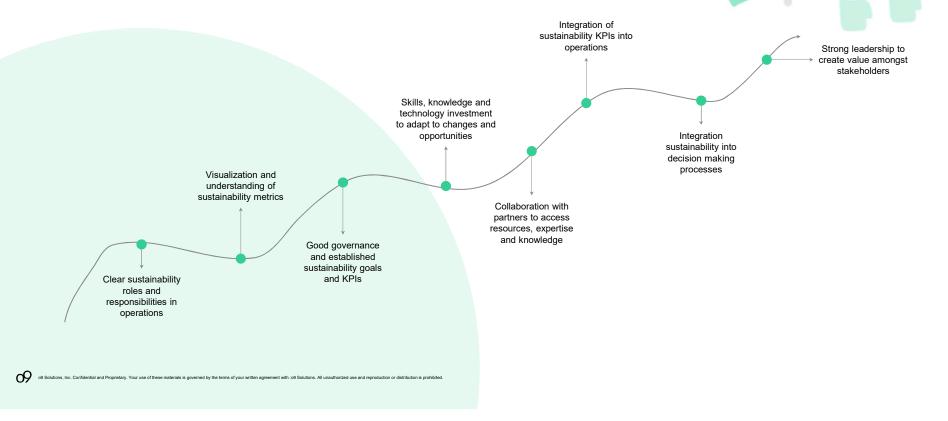
- GHG emissions associated with the fashion industry are estimated to be as much as 8% of annual global emissions
- Focus has been Scope 1&2 emissions reduction, now shifting to Scope 3 (95% of emissions) via supplier/fabric mill transition to renewables (highest impact)
- Long lead-times & shifting demand → persistent air expedite problem
- Supplier chain transparency & traceability industry collaboration and data sharing is needed, but hampered by anti-trust issues.

Circular models

- Overbuying drives waste 85% of textiles go to landfill or are incinerated (UNECE 2018).
- Approx 60% of F&A's raw materials are plastic which become microplastics (ENEP 2019)
- Resell & reuse → closed-loop circularity models
- Lack of understanding (and enablers) of how circular economy concepts are executed in day-to-day core planning

Critical success factors in the path to sustainable supply chain transformation.

For organizations to get started on the path to a more sustainable operating model, it is important to understand what "success" looks like.



Sustainable supply chain transformation journey

1. Visibility

2. Targets and strategies

3. Operationalization and optimization

Industry collaborative frame A collaborative approach working Current frameworks to share

- Industry collaborative framework and systems to share relevant sustainability data
- A collaborative approach where different tiers of the supply chain are involved in a standard approach to share data downstream
- Current frameworks to share carbon footprint data of products can be leveraged (WBCSD Partnership for Carbon Transparency (PACT))
- Identify risks in your multi-tier upstream supply chain
- Trace your raw materials to the source
- 2

Identify environmental impacts of the value chain through E2E visualization, set targets and mitigation strategies

- Visualize your e2e supply chain and understand what is its sustainability footprint (scope 1,2,3 emissions, ISO 14001 series environmental footprint)
- Set measurable targets and identify hotspots to address reductions
- Track your performance over your targets and understand if you need to restate your focus
- 3

Operationalize your sustainability actions, embed sustainability KPI into your planning processes to have a systematic view of the impact of your decisions

- Engage your stakeholders in the sustainability journey by embedding sustainability KPIs into your operational and tactical business planning processes
- Identify the sustainability effects of the decisions and actions you take within your supply chain
- Model circularity use cases within your planning capabilities:
 - Reverse logistics capabilities
 - Integrating circularity KPIs into your integrated business planning process

Selected sustainability use cases

Enterprise Footprint

- Scope 1, 2 and 3 emissions
- Data collection process management/tracking, cleansing, harmonization, computations, analytics
- Energy (use by type, renewable/non-renewable)
- Water (withdrawals, discharges, recycled)
- Waste (Hazardous, non-hazardous, recycled)
- Logistics carbon footprint
- Multi-tier visibility / hotspot identification, impact and mitigation analysis

Product Footprint

- Top-down / Bottom-up
- Product ranking by sku, group, category

Transparency / ESG Risk Management

- Risk detection by ESG category
- Risk impact analysis

Supplier collaboration

- Recollect environmental information to understand the supplier's contribution to the company's:
 - Product, corporate or site-level carbon footprint
 - o Product environmental impact content
- Identify higher offenders in sustainable KPIs
- Track acquisition of primary data vs secondary data
- · Feed information to other systems

Supply Chain Planning

- Network design for shorter lead times, consolidation, colocation
- Analyze impact of alternative utility providers, energy sourcing
- Analyze impact and trade-offs of alternative 3PL providers, logistics equipment, processes, materials and sourcing:
 - o Co2e cost service level
- Circular material and production workflow planning & scheduling

Demand Planning

- Forecast GHG/Co2e emissions for product mix scenarios
- Identify product high offenders
- Optimize product portfolio, keep vs leave analytics,
- Analyze trade-offs: price volume margin Co2e

Innovation/NPL

- Forecast Co2 for new products
- Optimize BOMs, sources, etc. prior to launch to meet targets
- Design network for optimal/target Co2e, price points

Integrated Business Planning (IBP)

- Co2e target performance, gaps, gap closure similar to S/D balancing
- Co2e reduction initiatives ROI, postgame, effectiveness
- Risk and compliance monitoring, corrective initiatives

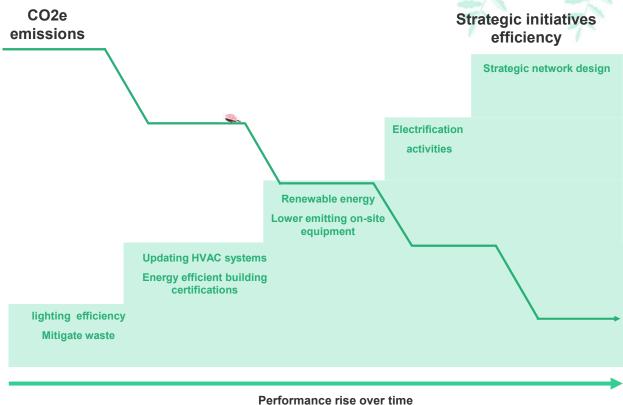






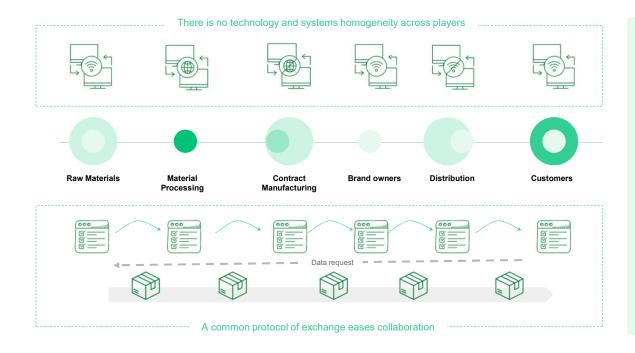
Strategic initiatives support operational success in reducing carbon emissions

- Strategic initiatives promote efficiency in reducing emissions over time
- Operational planning degrees of freedom increase along with strategic efficiency
- Growing the strategic initiative toolbox increases the capability of abatement of the operational plans



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Sustainable supply chain transformation is not possible by individual companies acting alone



Benefits

- Improve visibility allowing all the nodes of the supply chain to have a standard view of ESG data across the network
- Increase efficiency streamlining the process for data entry and harmonization
- Increase collaboration between stakeholders of the supply chain since fewer customizations of data requirements are needed
- Reduce risk of errors and inaccuracies

Potential framework

 The Partnership for Carbon Transparency (PACT), hosted by the WBCSD is an effort that aims to establish a global methodology and technical infrastructure for primary and verified product-level GHG emission data exchange as well as other sustainable and impact category KPIs

How o9 can facilitate this play

 o9's collaboration capabilities can connect into this network and not only help companies collaborate on supply chain issues but also in the sustainability landscape by streamlining acquisition of data Sustainability Solutions

Q&A

Thank you!