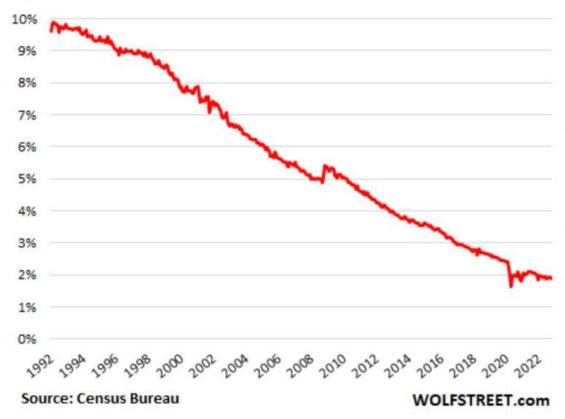




THE EXTINCTION EVENT HAVE BEGUN

Department Stores on Track to Irrelevancy Sales as % of Total Retail Sales



The downfall of Department Store sales as a % of Total Retail Sales.

THE BUSINESS . 13d

meaningful losses as a result? Experts ...

Nike is experiencing historic struggles. Experts don't think it's a major issue.

Experts agree that Nike is at a decisive moment in its history. But will it face any

"We also must get deeper traction on our key speed initiatives. Today, we know we must be faster, increasing the pace of innovation, increasing the pace of market to consumer, and increasing our agility and responsiveness. To drive this, we'll embrace a significant savings plan to create investment capacity to fuel profitable growth at speed and scale"

• 21h

H&M CEO quits as fashion group fails to keep up with rivals

H&M unexpectedly announced a change of leadership on Wednesday, with CEO Helena Helmersson stepping down as the fashion retailer's performance continues to lag rivals.

CNBC · 19d

Macy's to cut more than 2,300 jobs, about 3.5% of its workforce, and close five stores

Macy's will cut about 2,350 positions, or 3.5% of its workforce. The legacy department store is trying to reduce costs and boost slowing sales. The move comes as Bloomingdale's CEO Tony Spring ...

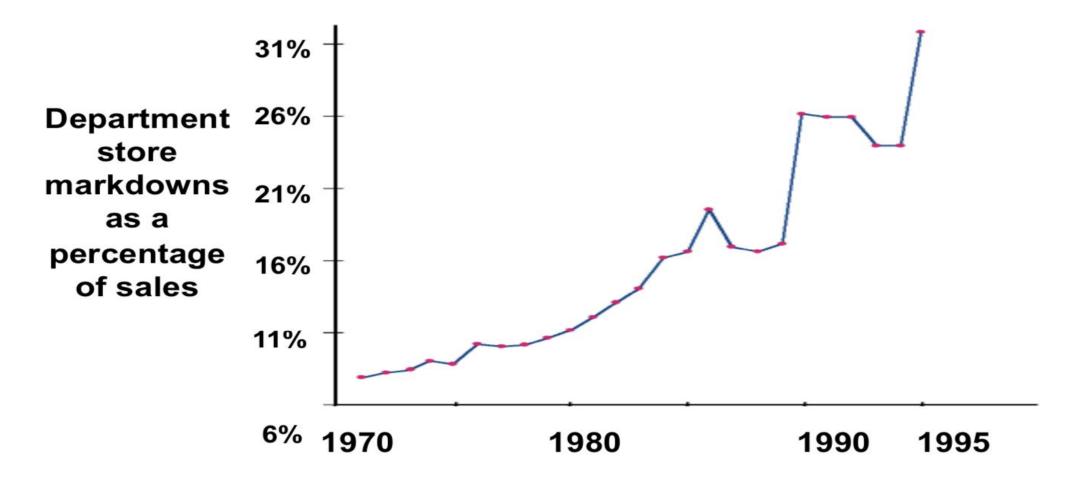
sky news · 3d · on MSN

Superdry weighs restructuring as sales slump continues

The fashion retailer founded by Julian Dunkerton is working with PwC on options that could lead to store closures and rent \ldots



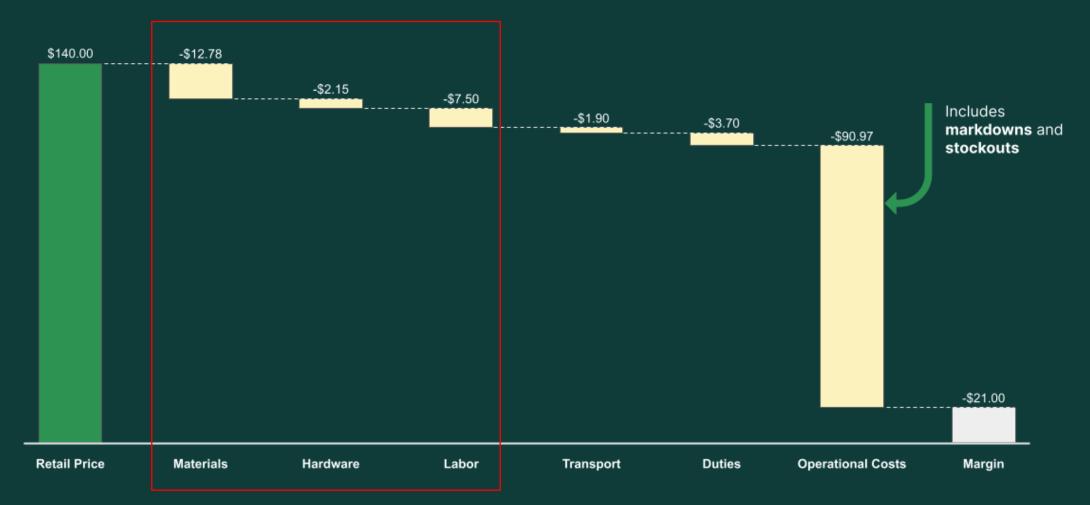
MARKDOWNS (WASTE) INCREASED AS SUPPLY CHAINS ELONGATED



UNTAPPED POTENTIAL FOR EFFICIENCY

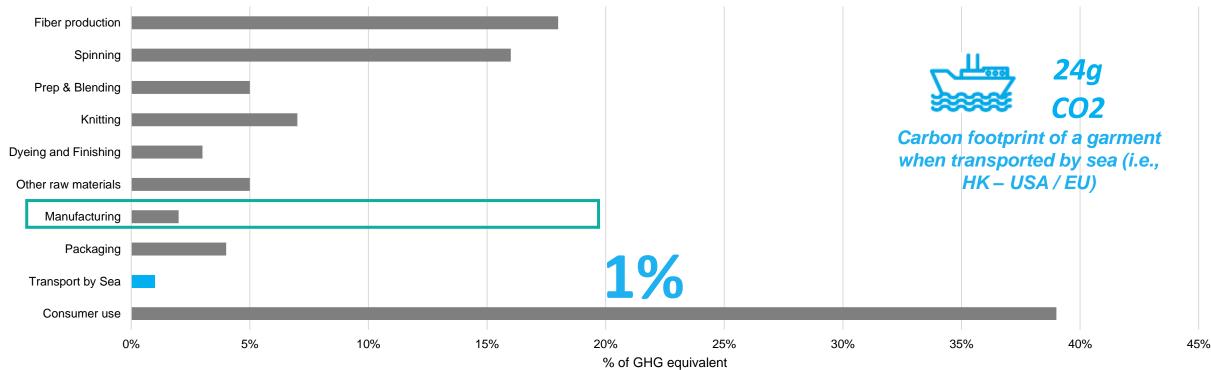


BRANDS HAVE AN ENORMOUS OPPORTUNITY TO REDUCE OPERATIONAL COSTS THROUGH SUPPLY SPEED AND FLEXIBILITY



YOU CAN'T CLAIM TO BE SUSTAINABLE AND TRANSPORT BY AIR

CO2 Emissions in Apparel Lifecycle

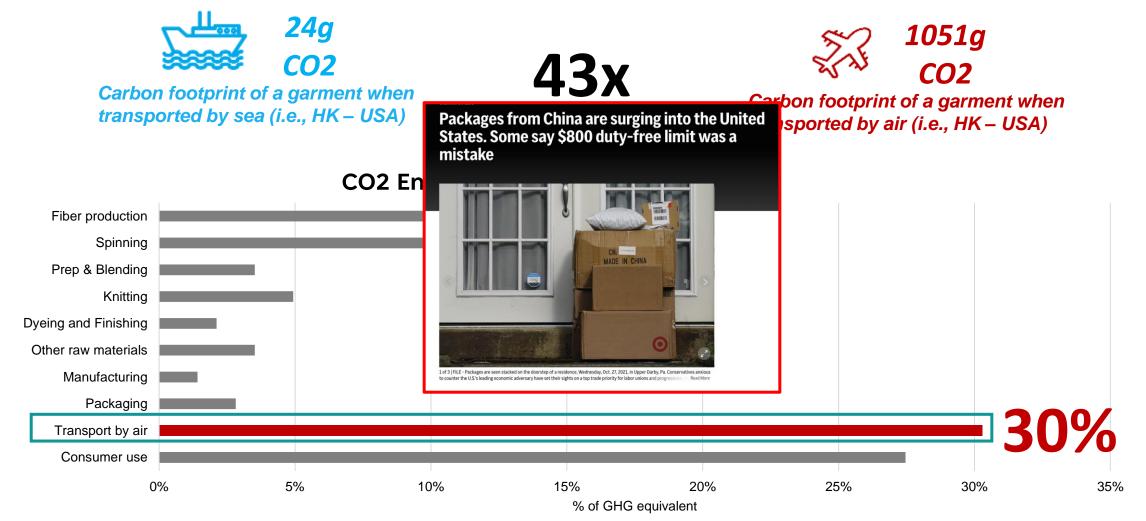


Resource: BSR Supply Chain Carbon Report & Alan McKinnon, Heriot-Watt University, Edinburgh, UK

F

Footnote: Emission related to upstream transport and distribution is 7% of total Scope 3 emission, which results from activities from assets not owned or controlled by the reporting organization, but that the organization indirectly impacts in its value chain. Scope 3 emissions, also referred to as value chain emissions, often represent the majority of an organization's total GHG emissions.

SIGNIFICANTLY HIGHER CARBON FOOTPRINT WHEN TRANSPORTED BY AIR



Resource: BSR Supply Chain Carbon Report & Alan McKinnon, Heriot-Watt University, Edinburgh, UK

F

Footnote: Emission related to upstream transport and distribution is 7% of total Scope 3 emission, which results from activities from assets not owned or controlled by the reporting organization, but that the organization indirectly impacts in its value chain. Scope 3 emissions, also referred to as value chain emissions, often represent the majority of an organization's total GHG emissions.

THE SOLUTION

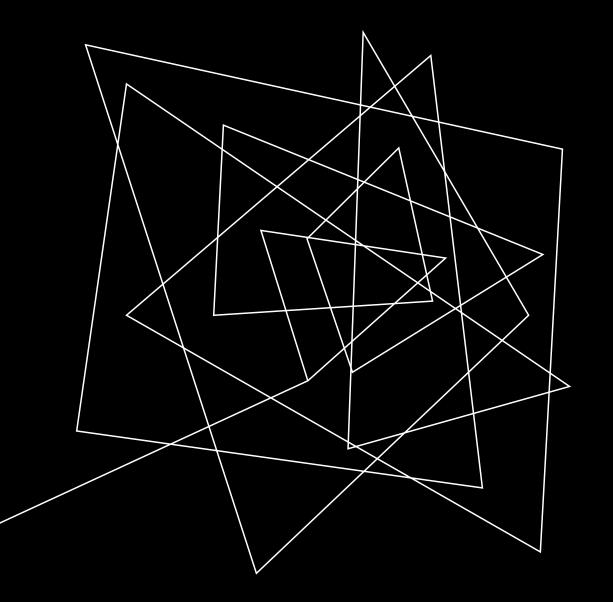


Create a network of advanced onshore manufacturing capabilities, that will compliment offshore and nearshore manufacturing

TECHNOLOGY

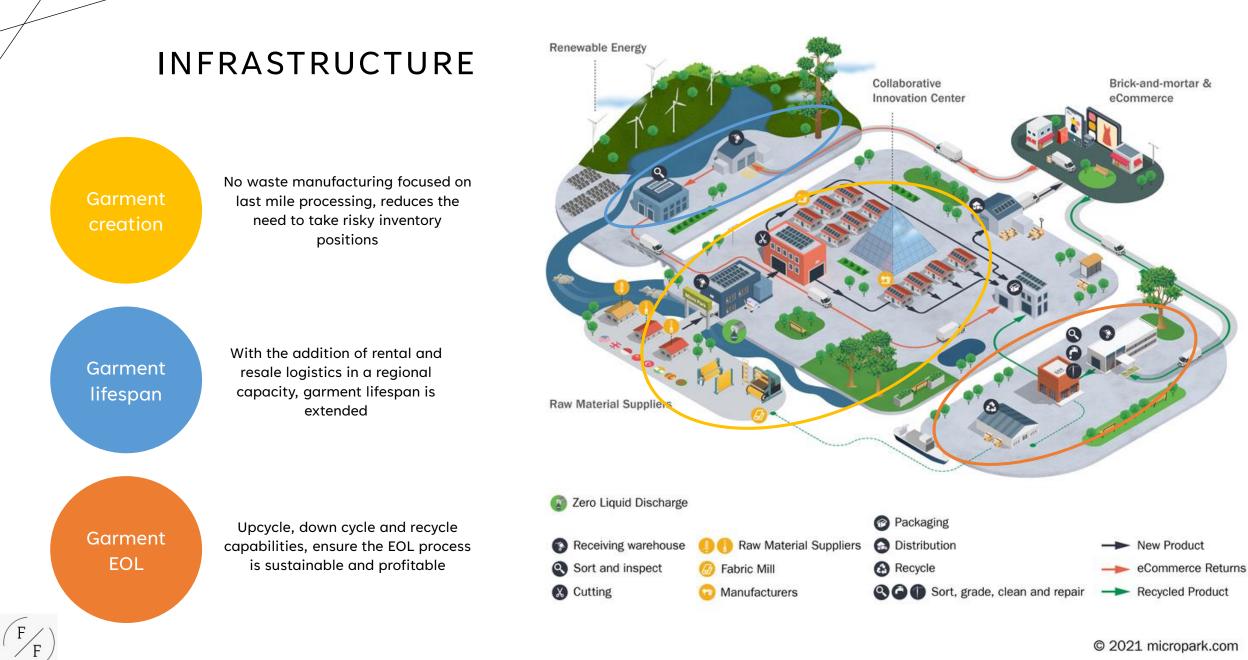
Connect the software solutions that will allow for a dynamic flow of data to ensure seamless production across the complex supply network

COLLABORATION

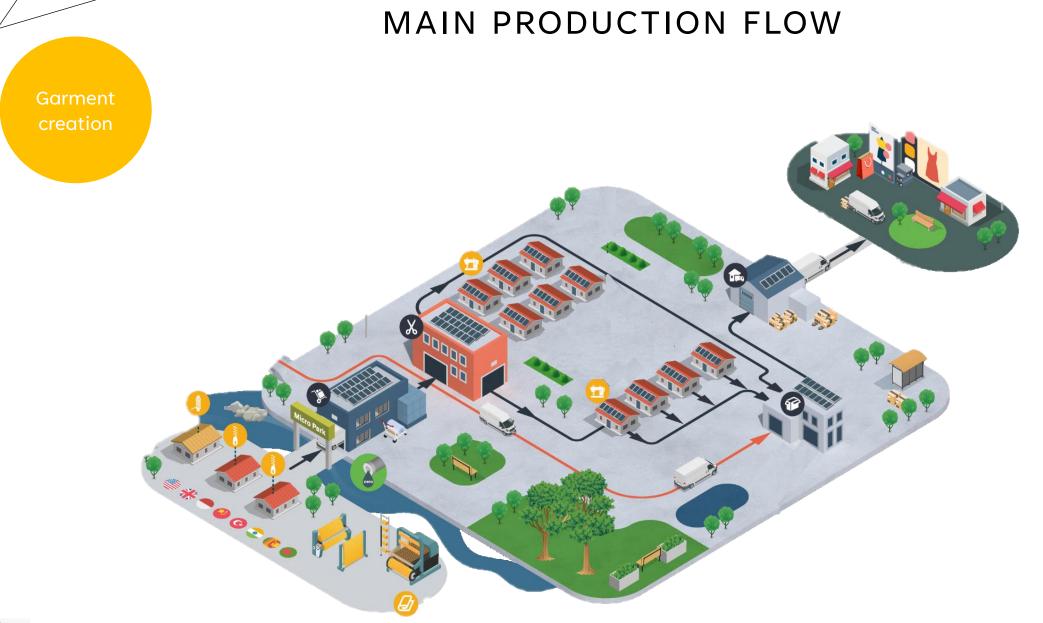
Ecosystem collaboration to expedite development and implementation, de-risk investment and drive the scale needed to influence the industry change 

INFRASTRUCTURE





© 2021 micropark.com



(F/F)

REVERSE LOGISTICS

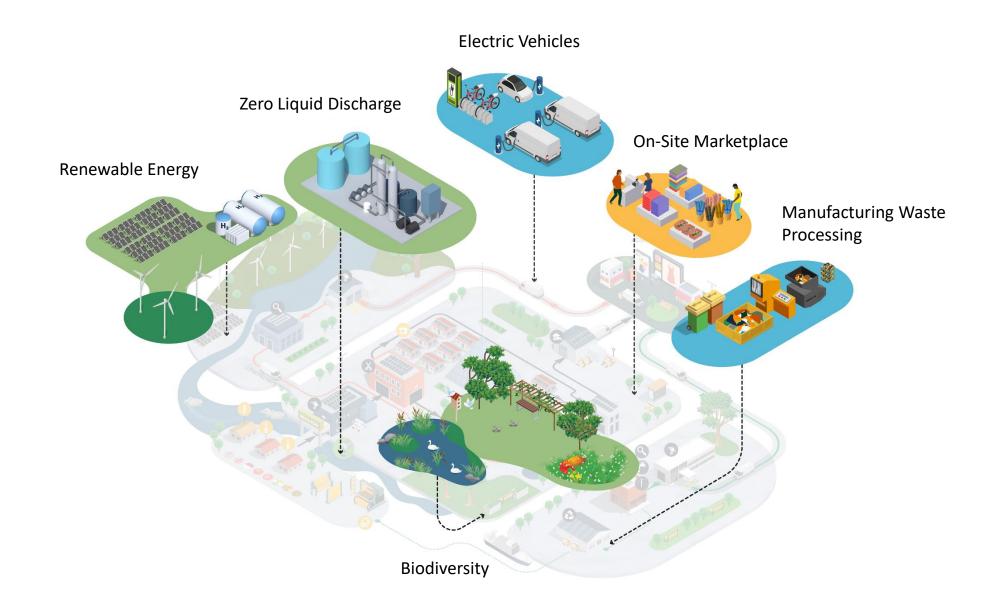




USED APPAREL REPROCESSING



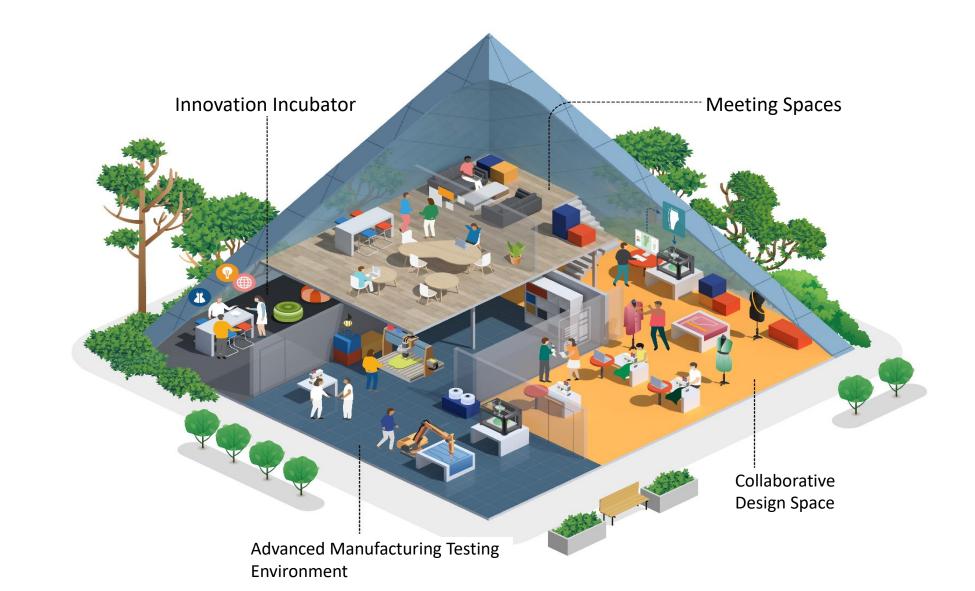
ECO PARK BUILT FOR SUSTAINABILITY





COLLABORATIVE DESIGN AND INNOVATION CENTER

F



NEW SUPPLY CHAIN TOOLS AMPLIFY THE BRANDS CAPABILITIES

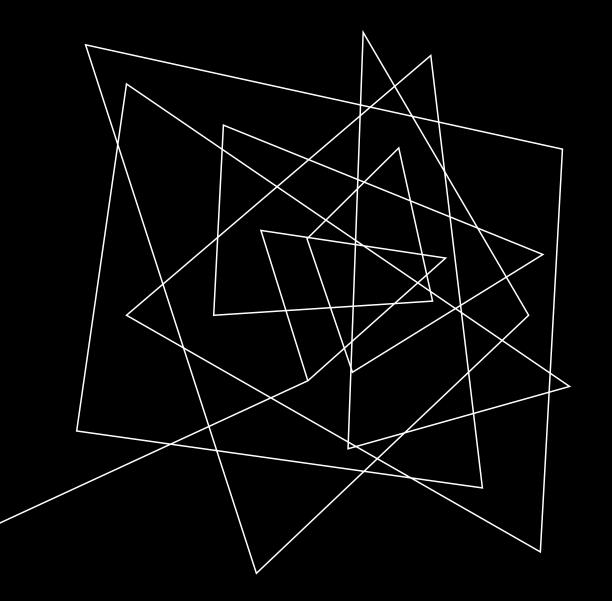
(F/F)

Design and develop in real time	Designers engage suppliers in real time
Test local, react global	Testing concepts locally to inform more accurate bulk buys globally
Pulse "Todays" Fashion	Short cycle capsules, always on trend, never behind Tik-Tok
Read market and react	Smaller seasonal buys offshore, react onshore / offshore
Produce on demand	Zero system waste, zero inventory, zero risk
Customization	Offer consumers: customization, personalization, co-creation

COLLABORATE TO ADDRESS NEWER SUPPLY CHALLENGES

eCommerce returns	Reverse logistics, repair, clean and repack process
Resale	Takeback, repair, sort, clean and repack
Recycle / regeneration	Products not resalable are sorted and ship to regeneration zones
Environmental impact	A real time environment for brands, retailers, advanced manufacturers, innovators and academia to address industry challenges
Innovation incubator	A rally point and incubator for white & black swan innovators



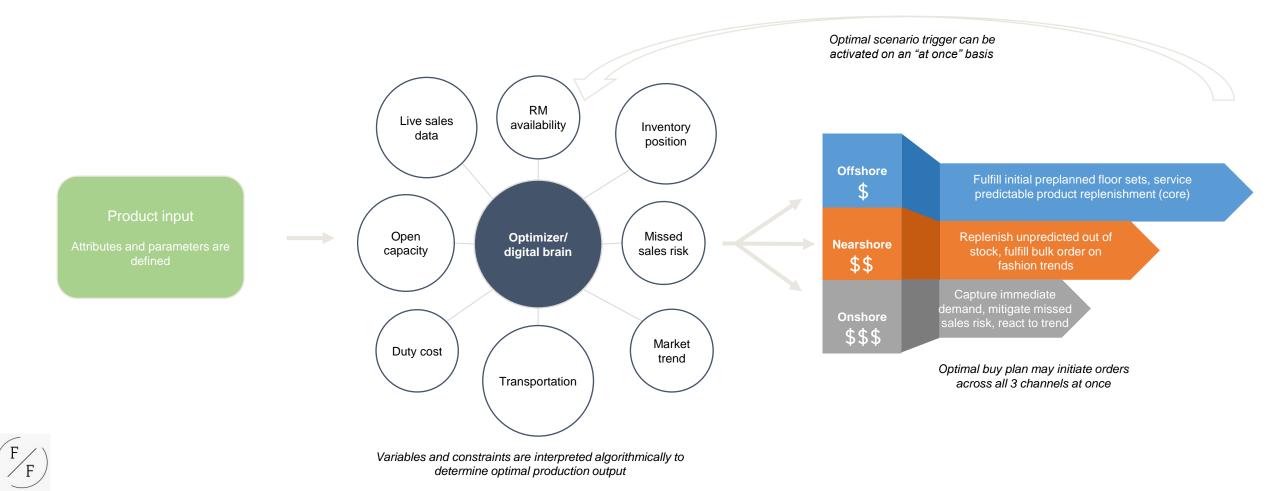


TECHNOLOGY

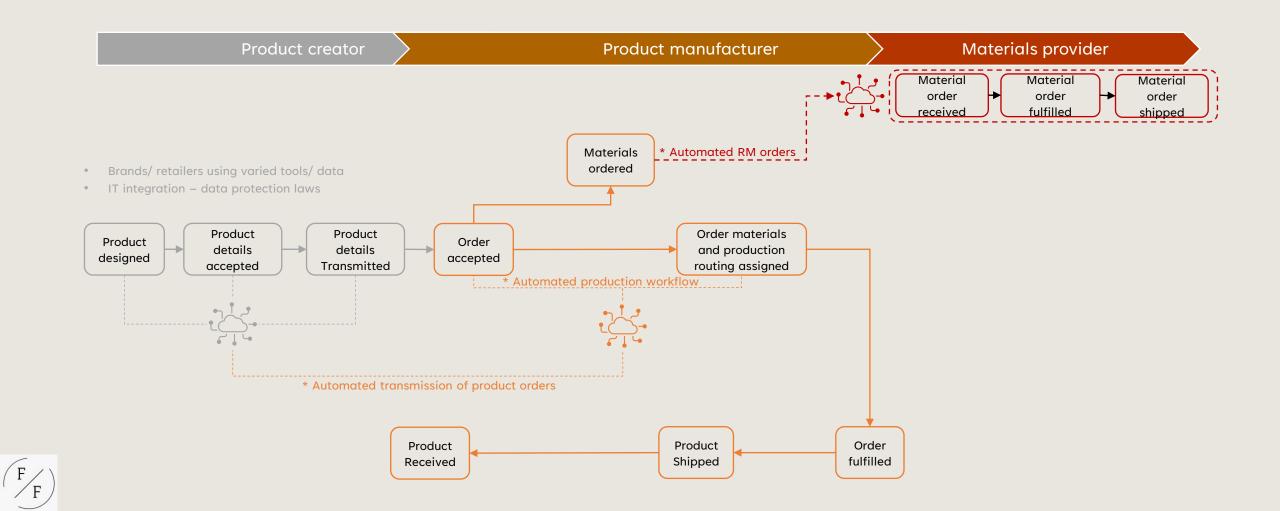


MDDO

Retailers need a **Multi-Dimensional Dynamic Optimization tool** that will <u>activate production across 3 supply channels simultaneously</u>, based on a set of defined parameters, and constraints. The solution will interpret data inputs and transform this into optimized scenario outputs that **maximize profitability** in a program, by ensuring no out of stocks/ missed sales, whilst reducing excess inventory and markdowns. The solution will require live data feeds into a supply network digital twin, with an AI overlay that becomes the optimizer. The optimal scenario dynamic solution will work on an "at once" basis.



STANDARDIZED AND SEAMLESS FLOW OF DATA

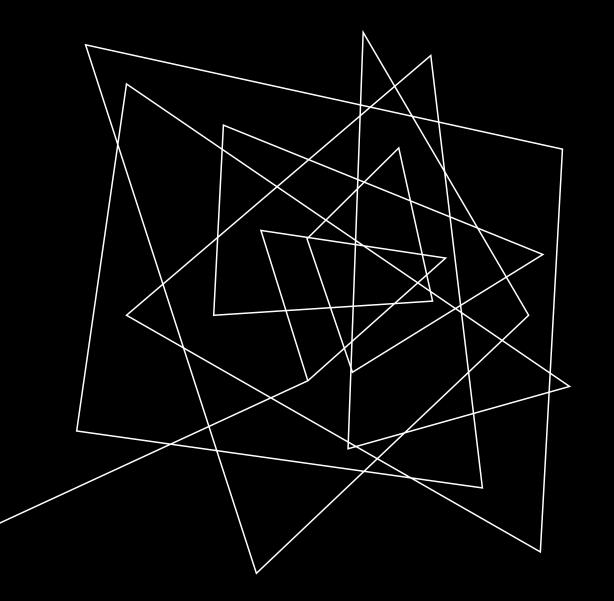


SUPPLY NETWORK: FINANCIAL IMPLICATIONS

Products manufactured on-shore have higher first costs; however, maintained margins increase as a result of higher full price sales, lower markdowns and lower inventory carrying costs.



	Onshore	Nearshore	Offshore
Cost	\$\$\$	\$\$	\$
Inventory	Zero	Medium	High
Full Price Sales	High	Medium	Low
Lost Sales	Zero	Low	High
Markdowns	Zero	Low	High
IMU (Initial Markup)	Low	Medium	High
Program	Onshore + Nearshore + Offshore = HIGH program profitability Nearshore + Offshore = MEDIUM program profitability		
Profitability			re + Offshore = MEDIUM program profitability
			Offshore = LOW program profitability



COLLABORATION



ADVANTAGES TO COLLABORATING

66

Industrial parks **reduce set-up time** by centralizing industrial space, land, and supporting infrastructure, including a dedicated one-stop shop. Once companies start operations, "**transaction costs are reduced**, the creation and flow of information improves, local institutions respond more readily to cluster's specialized needs, and peer pressure and competitive pressure are more keenly felt." (Porter 2008). Industrial parks are preferred as a **gateway to foreign direct investment** (FDI) because they have the advantage of lowering entry and operational costs. – World Bank

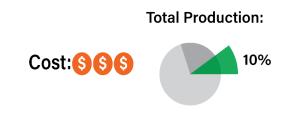
55

1Access to Shared Resources4Sustainability Leadership7Operational Efficiency2Risk Mitigation5Market Differentiation8Scale and Flexibility3Innovation Ecosystem6Strategic Partnerships9Persuasive proposal

ECOPARC + MDDO



- 1. + 200bps in incremental business Margin
- 2. > 20% Reduction in system waste
- 3. >30% reduction in DC inventories
- 4. Enables Brands to unlock re-sale market





WHATS HOLDING US BACK?

- The capability exists
- The financials work
- Supports sustainability commitments
- Supply Partners are capable
- Advanced machine suppliers are ready
- Academia is willing and eager
- Brands and Retailers?

