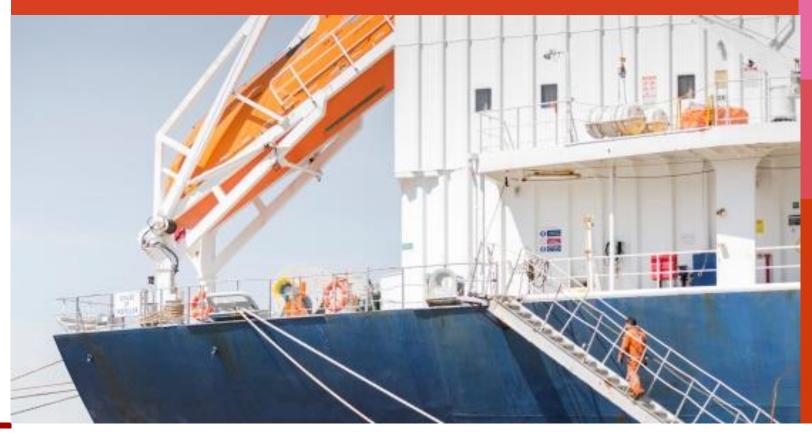
# Sustainable Supply Chain Perspective and trends





#### Sustainability in supply chain - Setting the context

#### Range of issues

- Child labour
- Forced and bonded labour
- Gender inclusion
- Fair wages
- Decent work
- Carbon savings
- Traceability

#### Regulations and Standards

- GRI G4
- Modern Slavery Act, UK
- California Transparency Act
- France duty of care vigilance plan
- MSA, Australia
- Child Labour due diligence bill, Netherlands
- E-waste rules, Plastic rules India

#### Spread across sectors

- Fast Fashion and Ready Made Garments
- Electronics industry
- Auto
- Food and Beverage
- Logistics
- IT and other service sectors

#### **Others**

- Export Competiveness
- Increasing role of MSME
- Disruption Business models, technology, new set of challenges



## Agenda

Understanding Sustainability in today's Supply Chains

External factors impacting the supply chain

Linking Export competitiveness to sustainability in supply chain

Popular supply chain
4 sustainability framework and
standards



# Understanding Sustainability in today's Supply Chains



## The current state of supply chain

- Over the last decade, supply chains have become global, highly complex and of significant scale.
- Simultaneously, building and maintaining resiliency has become a key success factor for business

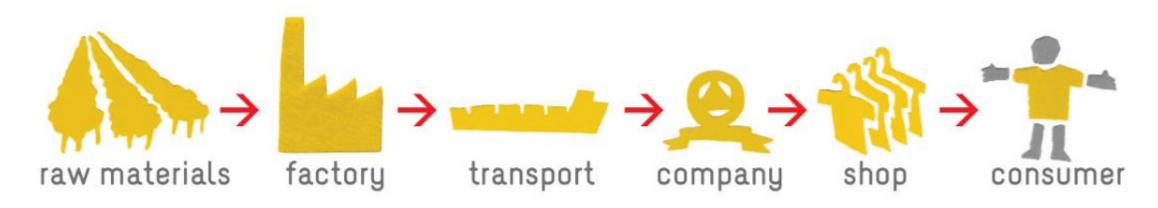
#### Key characteristics that define today's supply chains:

- Extremely complex network of material, processes and services spread across different territories
  - Are dynamic and technologically evolving
    - Open to stakeholder scrutiny due to the widespread social media revolution

## The current state of supply chain

• In a traditional sense, a simple solution to tackle *business impact on sustainability* could have been

"just pursue the company/ brand to tell its factory to shape up"

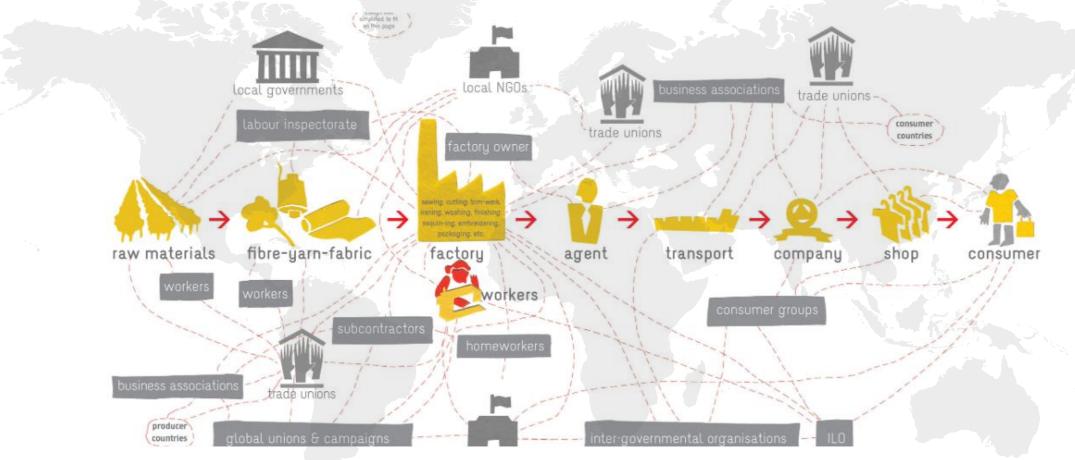


A decade ago, that company / brand might own the factory, or be a handful of its customers, and the terms of business relationship would be clear and direct.

Source: https://www.fairwear.org/about/

#### The current state of supply chain

• But the context in which today's supply chains operate, is drastically different



Source: https://www.fairwear.org/about/

## Challenge of embedding sustainability in complex global supply chain

Over the past few years, sustainability has taken a central role in the procurement and sourcing criteria for many companies.

 Workforce health and safety incidents, labor disputes, geopolitical conflicts, raw materials shortages, environmental disasters and new legislation in areas such as conflict minerals and modern slavery has been added to the list.

 Growing awareness of supply chain risks among customers, consumers, investors, employees and local communities

















## Supply chains are still plagued with core social issues: Child Labor

#### Major Car firms linked to child labour over glittery mica paint

Labour



#### Major smartphone suppliers accused of using child labour

An investigation by Amnesty International has found that cobalt in smartphone batteries is being mined by children as young as 7

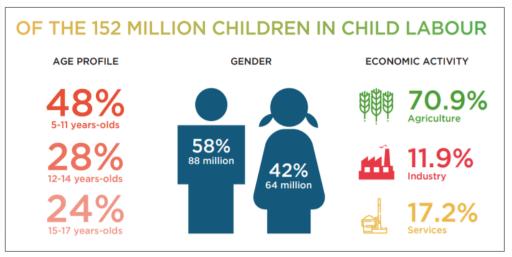
How high street clothes were made by children in Myanmar for 13p an hour

Children of 14 were working a six-day week





152 million children are still in child labour, of which 73 million are in hazardous work - ILO Report 2017



Source: ILO Report, 2017

Sustainable Supply Chain: Perspective and trends

January 2019 PwC

## Environmental concerns and scrutiny is on the rise..

## **Consumer Goods Company accused for mercury poisoning**



Source: Google News

## Major brands admitting that recycling is not enough to tackle plastic pollution crisis

by Greenpeace International • 15 January 2019

"While today's announcement is a step in the right direction, the company needs to scale up its efforts toward reusable systems rather than grasping at a quick fix that could...

Oceans will have more plastic than fish by 2050 - CMFRI, India

80% of World's wastewater discharged untreated, due to lack of infrastructure and technical expertise - UN Report, 2017

Water scarcity could result in some regions losing 6% of their GDP: World Bank report

Water is at the focal point of socio-economic development and its scarcity is one of the most difficult of the UN sustainable development goals to achieve.

Tuticorin plant shutdown to affect over 800 SMEs
- The Economic Times

## Unsafe work environment is taking its toll..



The Rana Plaza collapse was the deadliest garment industry disaster ever CREDIT REUTERS

Rana Plaza building collapse in 2013

ILO Estimates Over **2.3 Million workers** succumb to work-related accidents or diseases every year.. this corresponds to over **6000 deaths** every single day

Rana Plaza building collapse in Bangladesh **killed at least**1,132 people and injured more than 2,500 - ILO

Several Major brands were impacted by Rana Plaza collapse

Economic burden of poor occupational safety and health practices is estimated at **3.94 per cent of global Gross Domestic Product** each year - ILO

British Safety Council report says **48,000 die yearly** due to occupational accidents in India

Source: https://www.ilo.org/global/topics/safety-and-health-at-work/lang--en/index.htm

LABOUR

## Major brands are still found guilty of exploitation of human rights..

Workers at factories of smartphone are being paid less wage

Labour



## Workers held captive in Indian mills supplying

Guardian inquiry into concerns raised by reveals Tamil Nadu firm, which also supplies major UK brands, stops women leaving factory

**41%** Indian employees feel they are **poorly paid**, says ILO study

#### Workers abused at factories of major brands



**47% of spinning mills** in Tamil Nadu use **bonded labour schemes** (2016 report ICN – fabric of Slavery)

Women Workers Report Abuse, Violence Across Fashion Giant Supply Chain

A new report presented at the International Labour Conference questions sourcing standards being followed by global clothing brands, and calls for greater accountability for widespread gender-based violence and harassment.

Source: Google News

Sustainable Supply Chain: Perspective and trends

## Recent trend of demanding stricter product safety and traceability

Welspun takes Rs 501 crore hit over Egyptian cotton issue.

Target dumped one of its biggest Indian sup for fake Egyptian cotton bedsheets

#### Sheet storm over Egyptian cotton

EGYPTIAN cotton is at the centre of a global sheet storm, with speculation as much as 98 per cent of all products sold with that label

August 2016 – Welspun Global Brands, one of Target Corp's biggest suppliers was removed from the supply chain because of the fake Egyptian cotton bedsheets supplied by them. This has wiped \$740 million off Welspun's market value, halving the share price within one week of the announcement. Target US is expected to spend \$90 million in refunds.

Brands Using Certification Schemes Fail to Stop Labor Abuse

1 Debt Bondage, Forced Labor, Human Trafficking, Slavery-Free Goods, Supply Chain



91% CEO
agree that it's important to them
to ensure the integrity of
their supply Chain.
PwC Global CEO Survey

Better bananas: settles lawsuit over green marketing, but the legal battle isn't over

A Seattle nonprofit alleges that banana suppliers - certified sustainable by the Rainforest Alliance - pollute water supplies in Guatemala, but the banana giant stands by its record



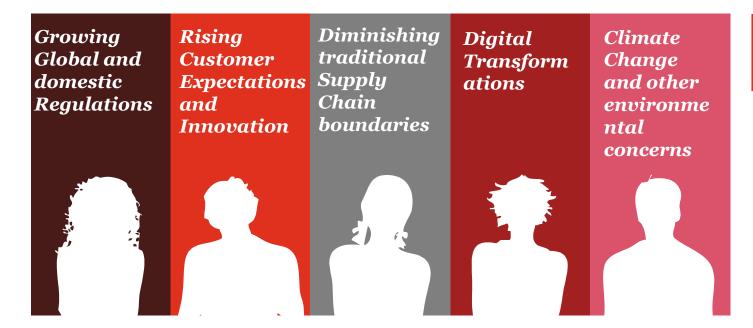
The lawsuit filed against NGO for **Deceptive Sustainability Claims** by US NGO. US NGO

"advertises that its bananas are farmed in an ecologically friendly and sustainable manner."

# External factors driving the supply chain sustainability



## External factors driving the supply chain



## How external factors affect supply chain?



Financial Performance



Disruption of supply chain due to lack of availability of raw material



**Customer Satisfaction** 



## International Regulations are becoming more stringent and also expanding their boundaries



Domestic and Global

**Regulations** 

## Indian Regulations are getting more stringent





## Plastic Ban could bring headache for consumer goods companies



It's time to tax groundwater use The Hindu BusinessLine - 14-Jan-2019

... the industrial units, all **business** establishments and infrastructure projects, ... **India** is the world's largest user of groundwater, withdrawing about 250 ... the **Central Groundwater Board** (**CGWB**), Andhra Pradesh, Tamil Nadu, ...



Online shopping may get costlier, thanks to **Maharashtra** plastic **ban** Economic Times - 19-Jun-2018

Maharashtra government has banned the use of plastic in the state and this may make your online shopping expensive. Due to plastic ban, the ...

E-waste provisioning may put pressure on electronic goods companies Economic Times - 22-Dec-2017

MUMBAI: Electronic goods companies, including multinationals that have been operating in India for at least a decade, could see pressure on profit ... The regulations also indicate the life span of a product—such as five ... and such a provisioning could potentially impact the bottom line heavily," he said.



Daily News & An...

FSSAI gazette notifies new pkg stds, replacing pkg requirements in ... fnbnews.com - 07-Jan-2019

FSSAI, India's apex food regulator, has gazette notified the new ... plastics, glass, paper, metal, printing inks, etc. across the packaging supply chain. ... sector and its impact on food safety, the packaging regulations have been ...

- Packaging charges comprise about 2 3 % of fulfilment costs. Use of biodegradable plastic or other alternatives could push these costs even higher. Cardboard boxes, for example, could cost nearly a third more than plastic packing
- Due to the new e-waste requirements, many consumer goods companies will have to make a provision for the cost of meeting the e-waste collection targets, which in turn is linked to the past sales of the product and its expected life

## Growing customers' expectations

#### **Sustainability Performance**

Only **16%** of consumers consider that companies provide enough information on product manufacturing processes – GreenFlex **Ethnicity Survey** 



#### **Certification of commodities**

**33** % of consumers look for sustainability information while making purchases in Asia and South America — UN Global Compact Report and Accenture Study 2014











#### Increased interest in sustainably sourced products

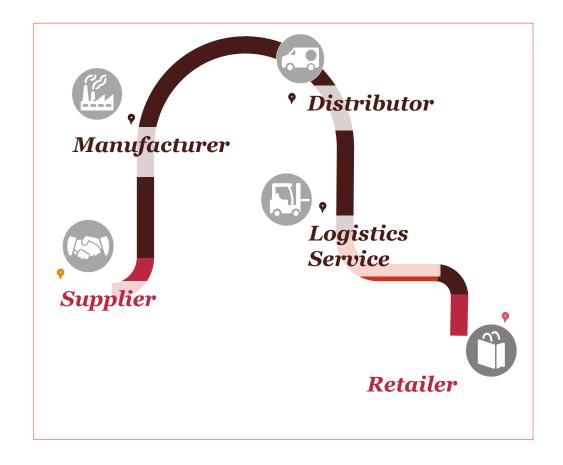
53% of shoppers in the UK and 78% in the US, 88% in India and 85% in both Brazil and Turkey buy products that are sustainably produced - Unilever Study 2017

#### Willingness to pay more

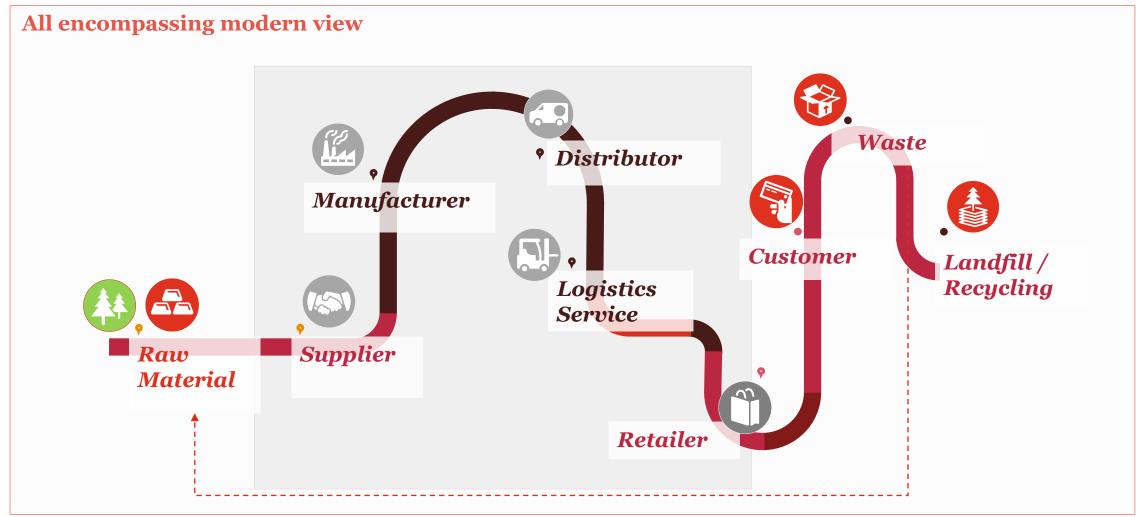
**66%** percent of global consumers are willing to pay more for sustainable goods, which consists of 73% Millennials - The Sustainability imperative, New insights on consumer expectations, Nielson 2015

## Diminishing Supply Chain boundaries

#### **Traditional view**



## Diminishing Supply Chain boundaries



The boundaries of supply chain management has shifted from manufacturing and are disappearing

## Digital Transformation raising supply-chain performance

Internet Of Things Market revenue to reach **3 trillion USD By 2020** – PwC FinTech Insights



By 2023, Alibaba and Amazon will have captured **40** % market share of global online retail



IBM developed a **block chain solution** to improve supply chain management in the mining and metals industry—which is estimated at \$1.8 **trillion** 

U.S.
Department of
Labor using
IoT and AI to
track
immigrant
workers

Indonesian Borneo



Prime Air from Amazon can deliver packages to customers in 30 minutes or less using drones.

Honeywell and Intel unveil a wearable, connected safety solution for industrial workers and first responders.

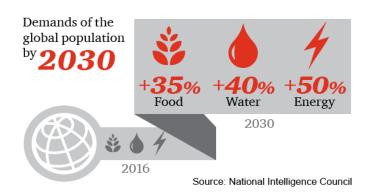
NASA Satellite Data Used to Study the

Impact of Oil Palm Expansion Across

## Environmental factors affecting supply chain....

#### Resource Scarcity

With a population of 8.3 billion people by 2030, we'll need...



#### **Present scenario**

- Water scarcity in the textile processing regions in Tamil Nadu
- 54% Indian cities faces acute water crises
- Increase in conflict with local stakeholders over access to resources

#### **Environmental Pollution**

By 2050, there will be more plastic than fish in the world's oceans - CMFRI, India

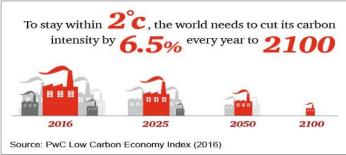
Air pollution- linked deaths in India could increase to 3.6 million by 2050 if no further actions are taken - Health Effects Institute and IIT

Water shortages could affect 5bn people by 2050 - UN report

- Indian is facing severe issues with dropping ambient air quality
- Presently, 80 Percent Of World's Wastewater Discharged Untreated – UN

#### Climate Change





- Severe impact on agricultural based supply chain
- Increase in the intensity of the extreme weather events like droughts, cyclone, temperature rise impacting supply chain

# Linking export competitiveness to sustainability in supply chain



#### Export competitiveness

Global value chains (GVCs) are becoming the new paradigm of domestic manufacturing and international trade.

More than 60% of global trade consists of trade in intermediate goods and services.

Further, GVC trade accounts for 30% of the GDP of developing countries

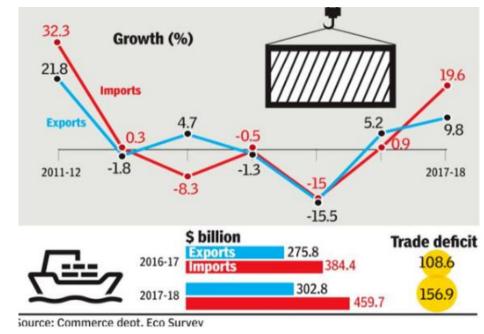
- United Nations Conference on Trade and Development



## The current Export Scenario

In 2017 India exported 4,418 products to 219 countries having a value of US\$ 294,364 million

n ! nr . 1	0.4
Precious Metals	15%
Textiles	13%
Chemical Products	15%
Mineral Products	10%
Machines	9.50%
Metals	7.30%
Transportation	7.20%
Agricultural Products	5.60%
Diary Products	3.80%
Plastics and Rubber	2.90%
Stone and Glass	1.20%
Footwear and Head Wear	1.40%



India's exports rose 9.8% during 2017-18, the highest growth compared to pervious 6 years.

Major importers of Indian Products



### Investment Decisions and Sustainability

The size of the ESG-linked investment market in India is pegged to be \$30 billion and estimated to touch \$240 billion in the next decade – Morningstar, 2017



**32%** (up from 23 per cent in the previous year) of the companies give specific targets to their suppliers to reduce their carbon footprint and conduct environmental audits of new suppliers



A survey of 221 venture capital fund managers show that sustainability and impact on environment and society are becoming key factors for investment decisions – Preqin

## Top Investors In Indian Equities

ASSET MANAGER, INVESTMENT (& crore), TOP STOCKS

#### Norges Bank 6,230

Infosys, Axis Bank, Tata Motors, Bajaj Auto, RIL, HDFC

## T Rowe Price Group Inc 3.450

Infosys, HDFC Bank, NTPC, Power Grid Corp, TCS, Axis

#### Government Pension Fund - Global

2,700

Tata Motors, UPL Ltd, GAIL, Petronet, Hero Moto, Havells

#### Northern Trust Corp

698

RIL, Infosys, TCS, Dr Reddy's, ICICI Bank, HDFC Bank, Axis Bank

## Nordea Bank Ab

Infosys, RIL, Tata Motors, Phoenix Mills, Zee Entertainment, HCL

#### Ontario Teachers' Pension Pl

47 Mindtree, Reliance Communications, TD

#### California State Teachers' Retirement System

Power Systems.

RIL, Axis, Infosys, Bajaj Auto, HCL Tech, ICICI Bank, TCS

SOURCE - Bloomberg



## Sustainability – a success lever for Make in India



Ease in getting approvals and clearances



Improved the land acquisition process



More efficient tax structures and procedures



Better contract enforcement procedures



Sustainable manufacturing growth

#### Make In India - Success Levers







**Understand** sustainability needs of buyers and supply side challenges

**Measure and monitor** sustainability performance of potential vendors (focus on MSMEs)

**Plan policy interventions** to facilitate sustainable manufacturing growth



#### Sustainability Links to Make in India

- Communicate sustainability needs to a larger supplier community
- Customise vendor engagement and monitoring tools based on supplier concerns
- Leverage on existing policies on sustainability and engage in a dialogue with GOI on future policies

**Buyers** 

- Understand sustainability needs of brands
- Make sustainability a competitive advantage
- Adopt govt. policies that facilitate green growth
- Demonstrate innovate practices on sustainability in brand meets

**Suppliers** 



## Linkage to "Make in India" Objectives:

- Facilitate investment

  By using sustainability as a competitive advantage to attract brands
- Foster innovation

  By rewarding innovation in processes
  and products to foster sustainable
  growth
- Best-in-class manufacturing infra
  By facilitating adoption of cleaner
  technologies



# Popular supply chain sustainability framework and standards



## Popular sustainability framework and standards













Ensures supply chain security, prevents financial, environmental a nd reputational risks

Measures social performance in eight areas important to social accountability in workplaces

Encourages
companies to
make
sustainability a
priority from the
top of the
organization

It is designed to help companies in promoting occupational safety and health through the supply chain

Promotes
sustainable
global supply
chains through
international
standards, due
diligence and
grievance
mechanisms

With IFC's assistance, FIs can offer financing packages designed to improve supplier performance and credit risk

## Growth in Sustainability Disclosures



115 of the largest purchasing organizations engage suppliers through CDP's supply chain program.

11,000+ suppliers requested to provide information to their customers through CDP in 2018



2094 companies participated in the DJSI assessment in 2018.

Launched in 1999, the DJSI is the first global indices tracking the financial performance of leading sustainability-driven companies worldwide.



82 new companies to be added to the FTSE4Good Developed Index

34 new companies to be added to the FTSE4Good Emerging Index. 8 new Japanese firms enter FTSE4Good and FTSE Blossom Japan Index



The MSCI ESG
Indexes also provide
institutional
investors with
transparency into
ESG sustainability
and values
alignment, together
with the ability to
compare holdings

## Voluntary Certifications and Standards

More stringent environmental and social criteria
Niche markets
Fair Compensation
Reliance on Certification





Accessible standards
Continuous improvement for reaching more stringent regulations
Ease in verification
Mainstreaming Sustainability









- Forest Stewardship Council
- Better Cotton Initiative
- Roundtable on Sustainable Palm Oil
- Sustainable Natural Rubber Initiative (SNR-i)
- Sustainable Apparel Coalition
- Ethical Trading Initiative (ETI
- Fair Trade
- Rainforest Alliance
- 4C Coffee













#### In a nutshell



- Sustainability across industries has evolved and grown in importance.
- Most organizations that once felt it was something they needed to do to meet their social, legal and regulatory responsibilities, today, consider improving sustainability of their supply chain as a strategic area of focus

#### In a nutshell

