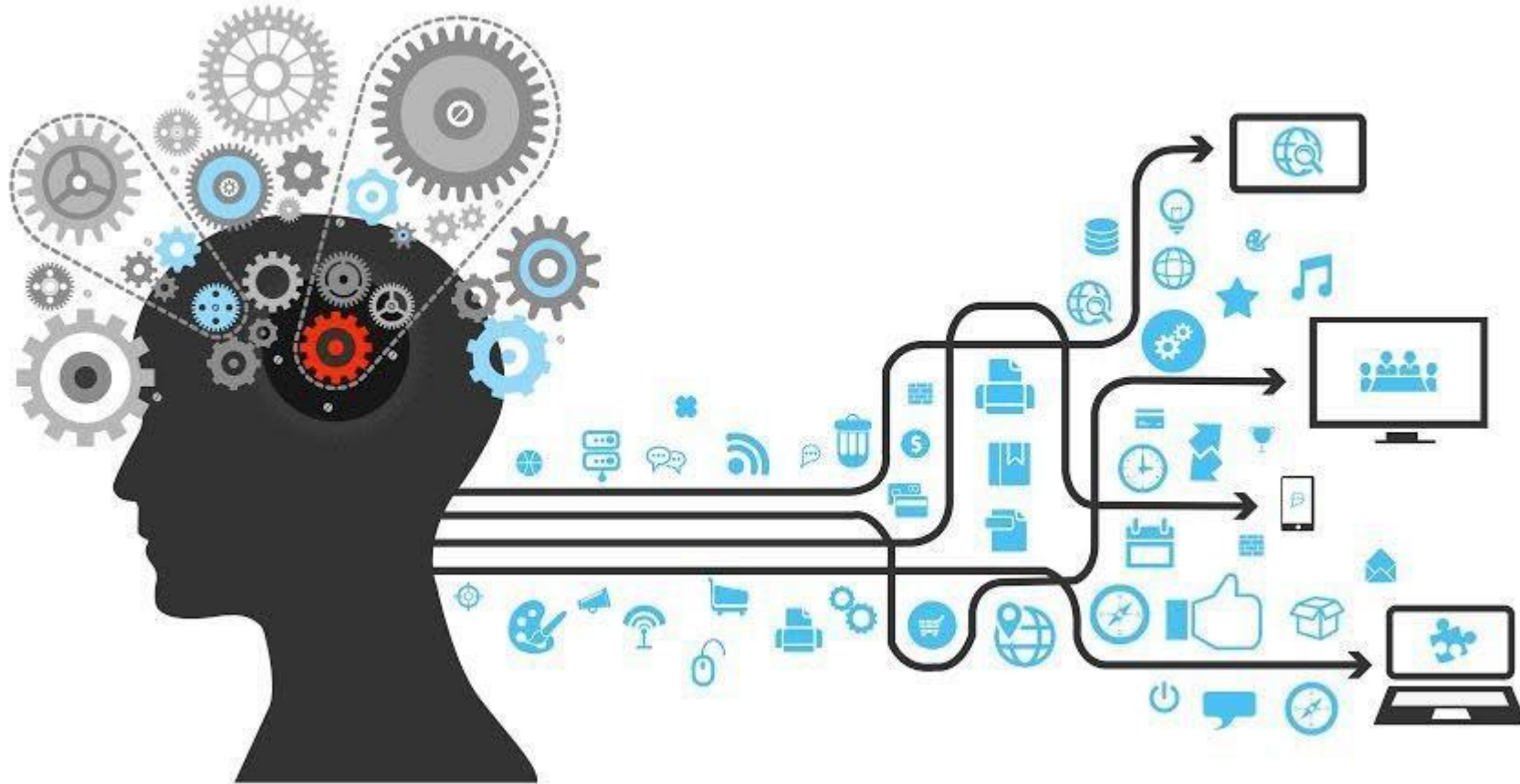







Innovation for Sustainable Planet

Considering All Things That Matter



Emissions

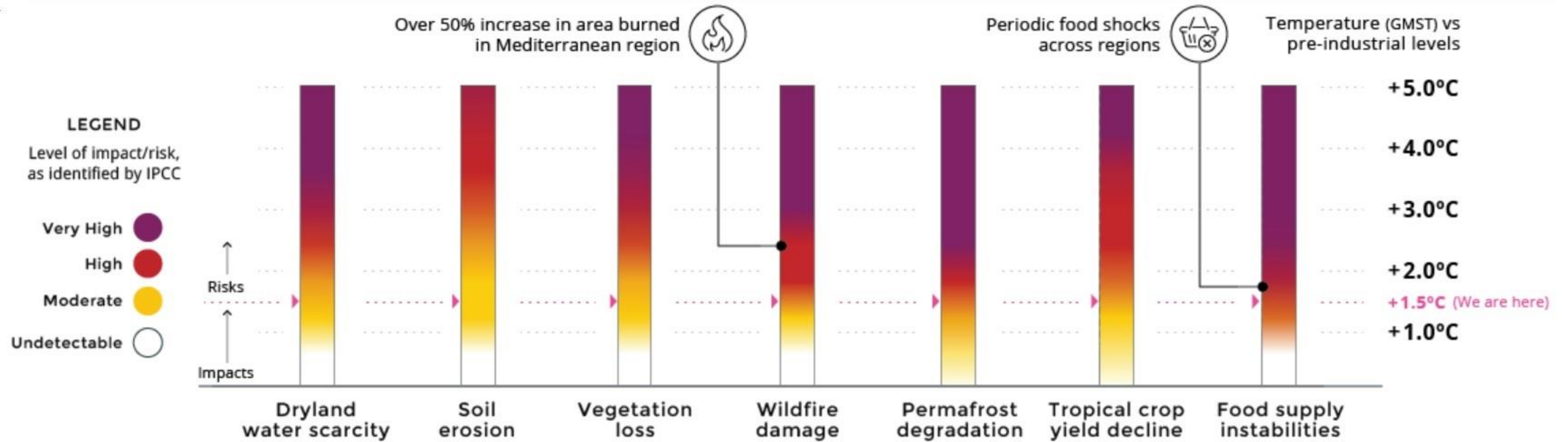
Rank	Country	Emissions in 2017 (MtCO ₂)	% of Global Emissions
#1	 China	9,839	27.2%
#2	 United States	5,269	14.6%
#3	 India	2,467	6.8%
#4	 Russia	1,693	4.7%
#5	 Japan	1,205	3.3%
#6	 Germany	799	2.2%
#7	 Iran	672	1.9%
#8	 Saudi Arabia	635	1.8%
#9	 South Korea	616	1.7%
#10	 Canada	573	1.6%
#11	 Mexico	490	1.4%
#12	 Indonesia	487	1.3%
#13	 Brazil	476	1.3%
#14	 South Africa	456	1.3%
#15	 Turkey	448	1.2%

Climate



Environment

Temperature

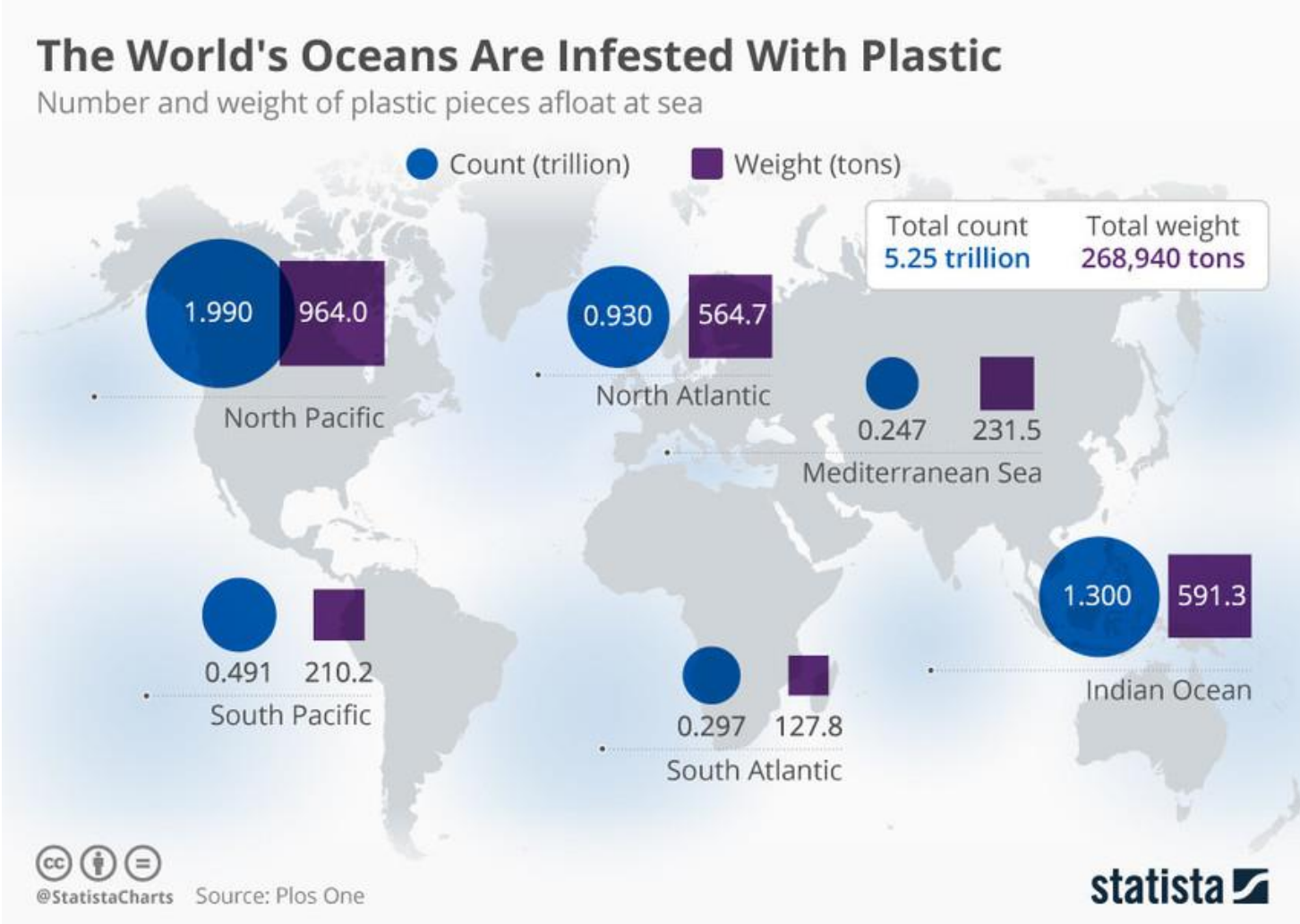


Source: IPCC Climate Change and Land Report (2019)

Electronic & Plastic Waste Pollution



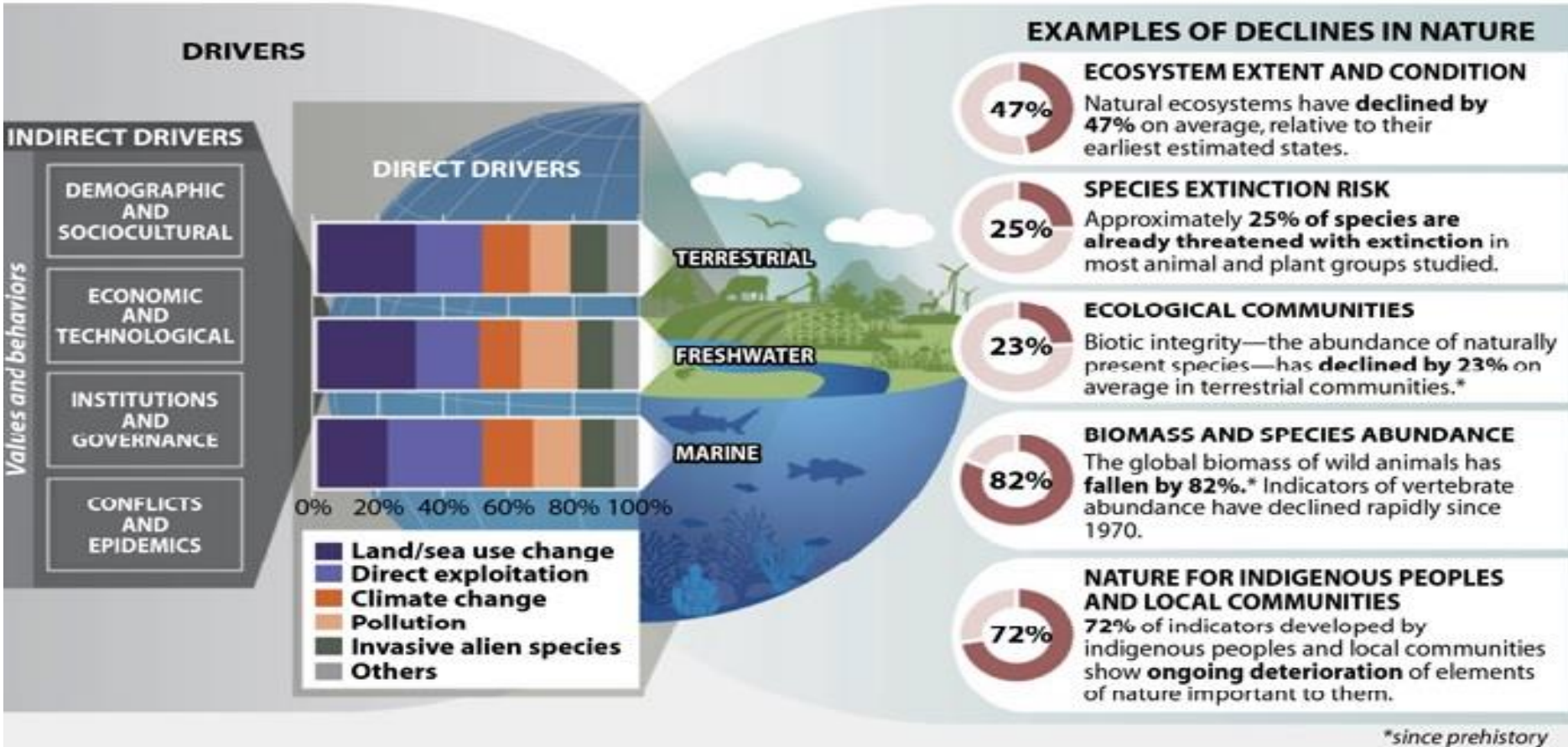
Plastic in Oceans



Biodiversity

The Human Drivers of World's Biodiversity Crisis

A report released by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) shows that many human-caused drivers are destroying plant and animal species worldwide.



*since prehistory

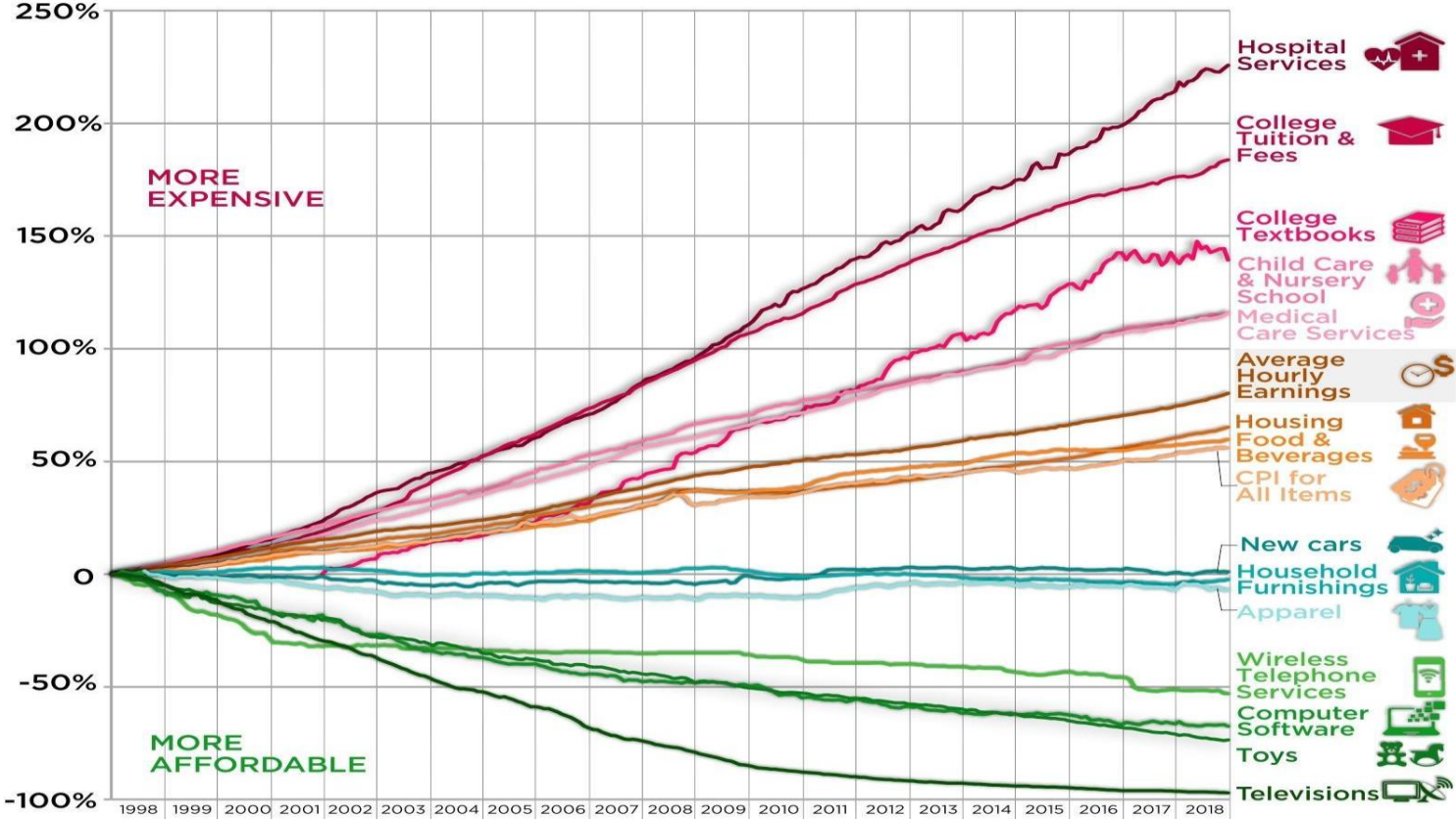
Spanking by kids



Pocket meter

20 Years of Price Changes in The United States

Selected Consumer Goods & Services, Wages (January 1998 to December 2018)



Article & Sources:
<https://howmuch.net/articles/price-changes-in-usa-in-past-20-years>
CPI and other price indices - Bureau of Labor Statistics - <https://data.bls.gov/PDQWeb/cu>
Average hourly earnings - Bureau of Labor Statistics - <https://data.bls.gov/timeseries/CES0500000008>

What brought us here?

- Our research/product/service development
- Speed on everything
- No proper product life cycle assessment
- No sustainability check
- Gap in the knowledge
- Funding for the quick gains
- Not much social responsibility

Can we fix it?

- Think on what could go wrong with environment in mind
- Fast but no rush
- Examining the full environmental impact
- Adopting green technologies
- Share knowledge for betterment
- More focus on corporate responsibility and sustainability

International Organization for Standardizations

ISO is an independent, non-governmental international organization with a membership of 164 national standard bodies.

World-class specifications for products, services and systems.

Ensures quality, safety and efficiency.

Instrumental in facilitating international trade.

Published 22827 international standards and related documents.

Covers several industries (technology, food safety, agriculture & healthcare).

International Standards impact everyone and, everywhere.

Aligns with UN Sustainable Development Goals.

Doesn't directly provide certification or conformity assessment.

External certification bodies give training and certifications.

UN SDGs

1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 
6 CLEAN WATER AND SANITATION 	7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 
11 SUSTAINABLE CITIES AND COMMUNITIES 	 THE GLOBAL GOALS For Sustainable Development			12 RESPONSIBLE CONSUMPTION AND PRODUCTION 
13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE AND JUSTICE STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 

ISOs in EHS



**ISO 14001 Training
Courses & Certification**



**ISO 14015 - Environmental
Assessment of Sites and
Organizations (EASO)**



**ISO 14031 Environmental
Performance Evaluation
Trainings**



**ISO 14044 Environmental
Life-cycle Assessment**

ISOs in EHS



**ISO 14051 Material Flow
Cost Accounting**



**ISO 14062 Sustainable
Product and Design**



**ISO 14063 Environmental
Communication**



**Environmental Risk
Assessment Training**

ISOs in EHS



**ISO 20121 Event
Sustainability Management
System**



**ISO 18788 Security
Operations Management
System**



**ISO 22000 Food Safety
Management System**



**ISO 26000 Social
Responsibility**

ISOs in EHS



**ISO 45001 Training
Courses & Certification**



**ISO 50001 Energy
Management System**



**OHSAS 18001
Occupational Health and
Safety Management
System**



**Accident Investigation
Trainings**

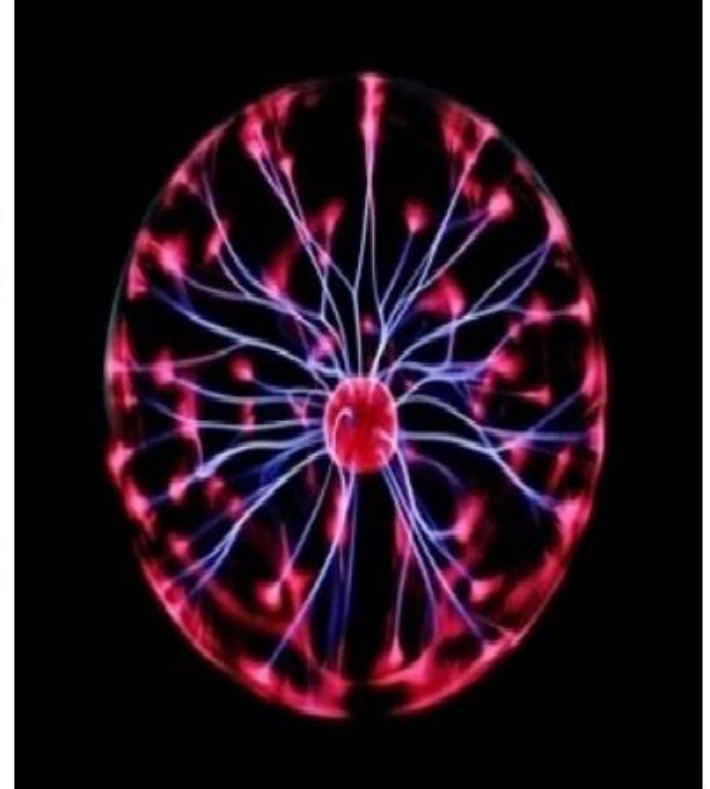
ISOs in EHS



**Environmental Emergency
Preparedness and
Response Training**



**Hazard Identification and
OH&S Risk Assessment
Trainings**



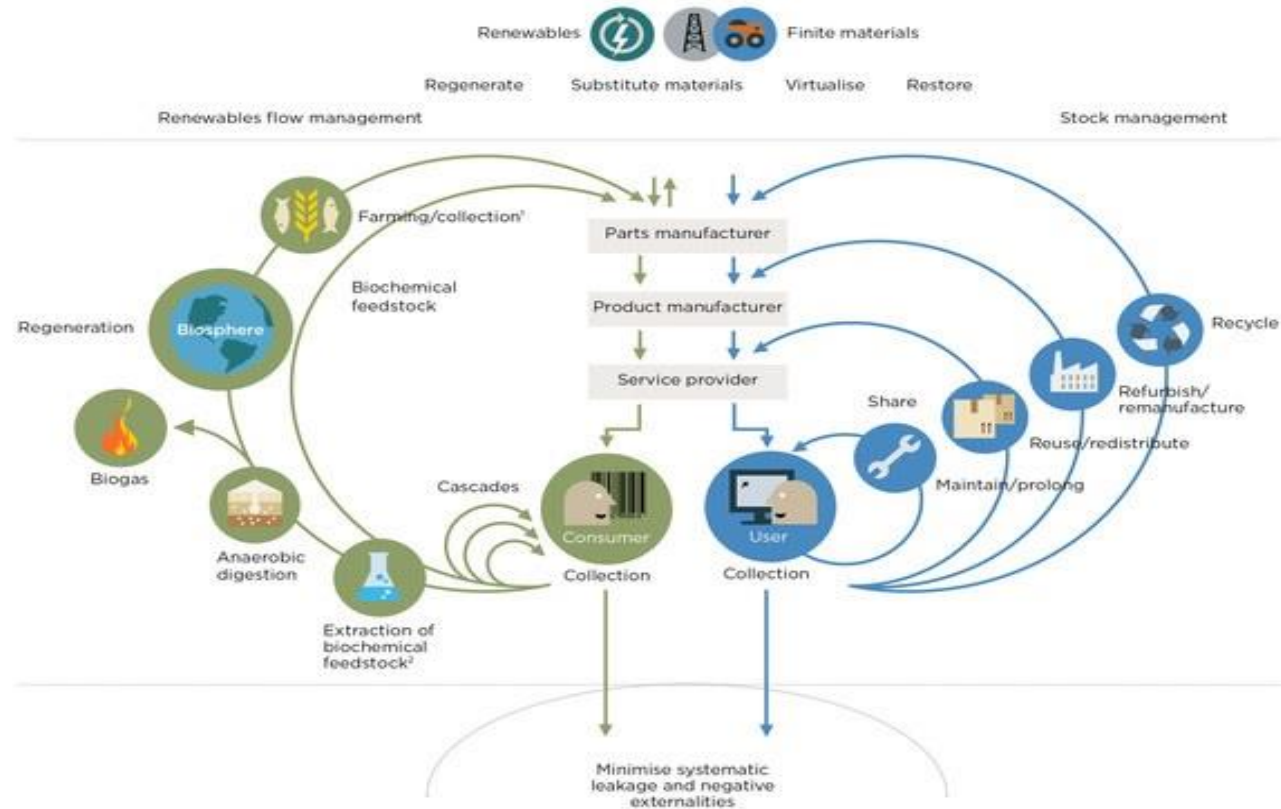
Pandemic Planning

The Fix - New design thinking



- Prevention is better than cure approach.
- More focus on LCA with C2G methods.
- Design with environmental protection mindset.
- Co₂ and other green house gases mitigation.
- Technologies support less water consumption.
- Conservation of fertile lands.
- Prevention of soil erosion.
- Support Biodiversity.
- Addressing affluent/effluent mess.
- Using intelligence against over consumerism.

The Fix - New design thinking



1. Hunting and fishing
2. Can take both post-harvest and post-consumer waste as an input

SOURCE: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment; Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

Thank you

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