



# Emissions

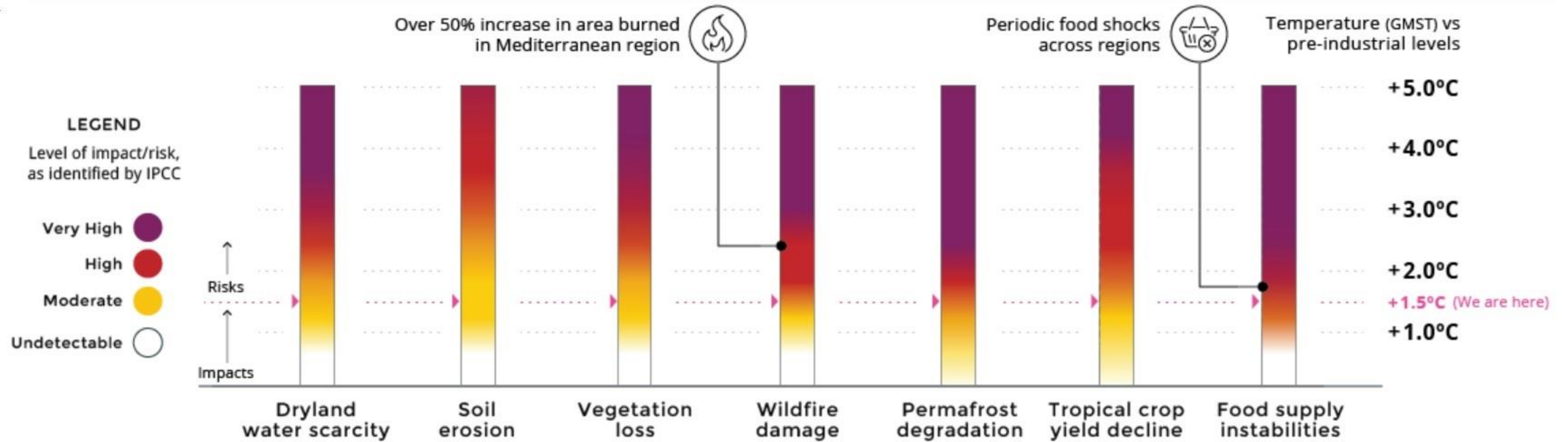
Rank	Country	Emissions in 2017 (MtCO <sub>2</sub> )	% of Global Emissions
#1	 China	9,839	27.2%
#2	 United States	5,269	14.6%
#3	 India	2,467	6.8%
#4	 Russia	1,693	4.7%
#5	 Japan	1,205	3.3%
#6	 Germany	799	2.2%
#7	 Iran	672	1.9%
#8	 Saudi Arabia	635	1.8%
#9	 South Korea	616	1.7%
#10	 Canada	573	1.6%
#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

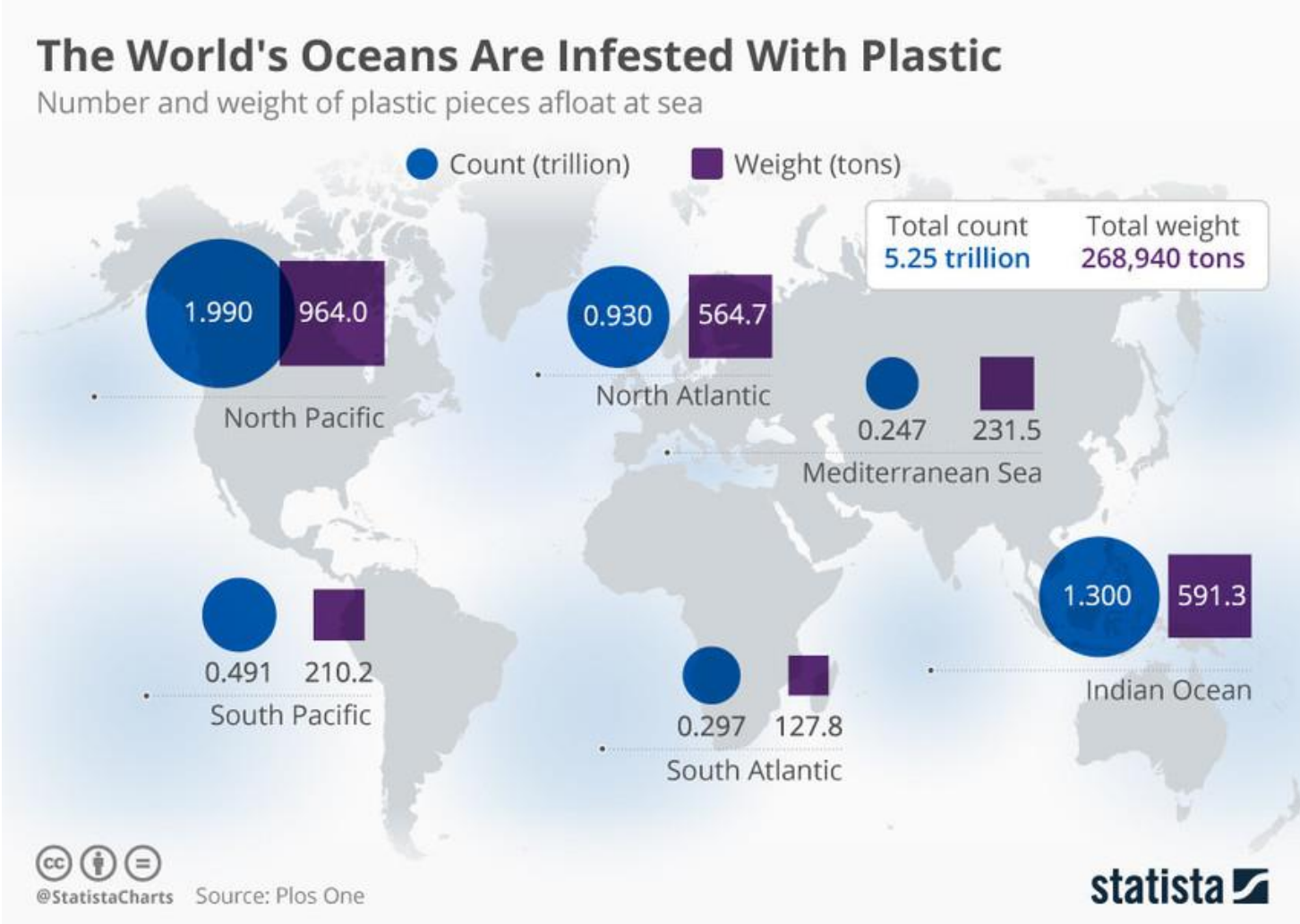


Source: IPCC Climate Change and Land Report (2019)

# Electronic & Plastic Waste Pollution



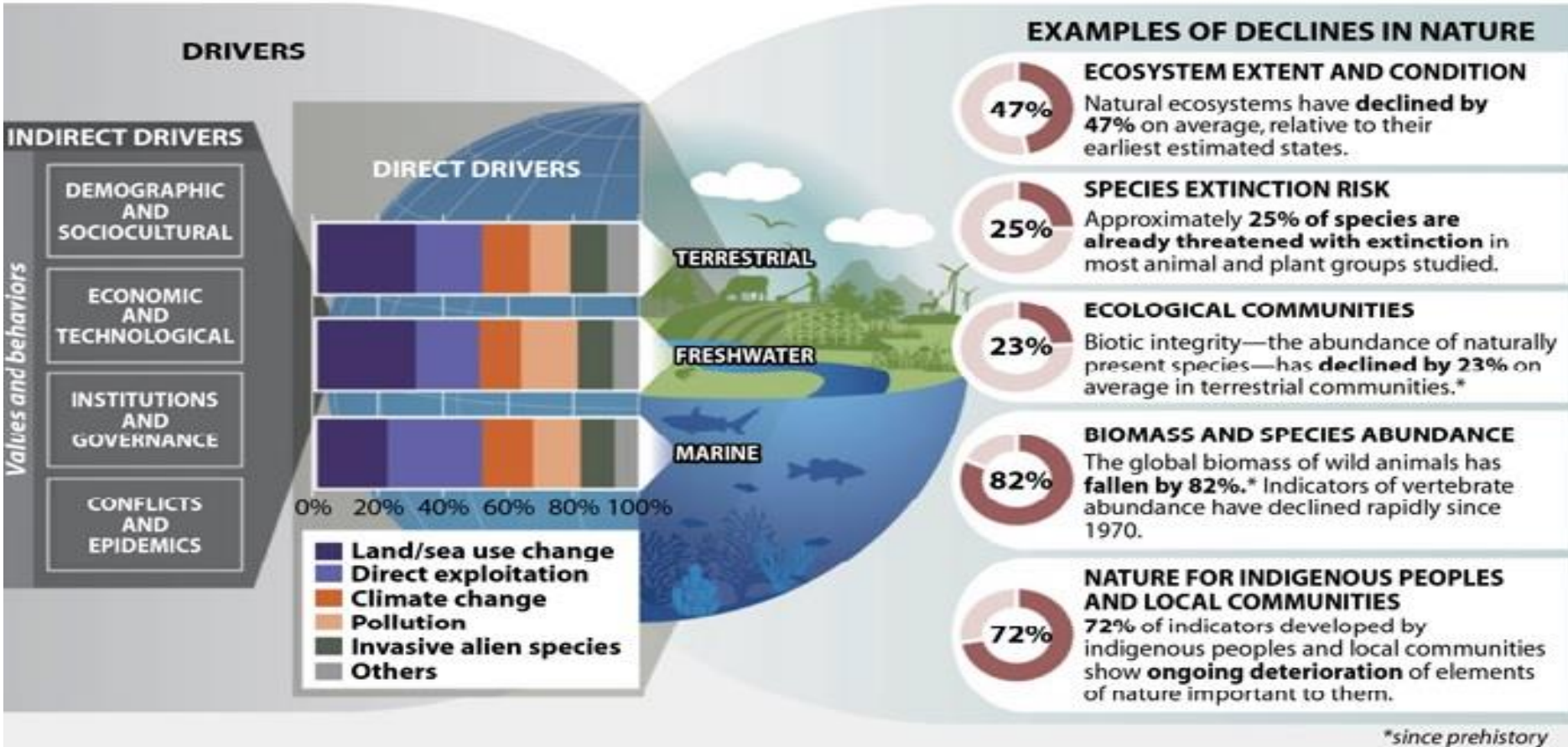
# Plastic in Oceans



# 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.



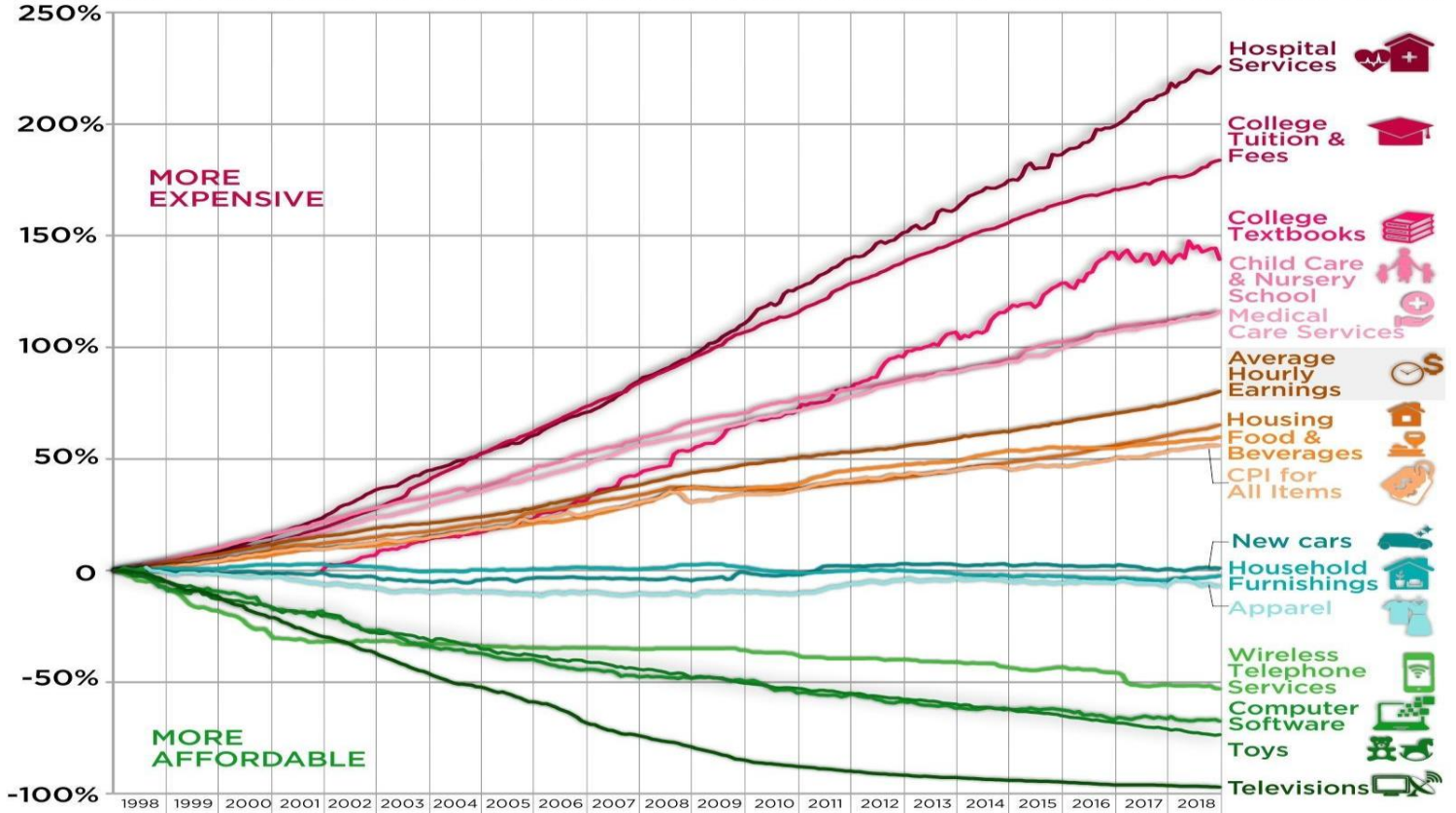
# Spanking by kids





# 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

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

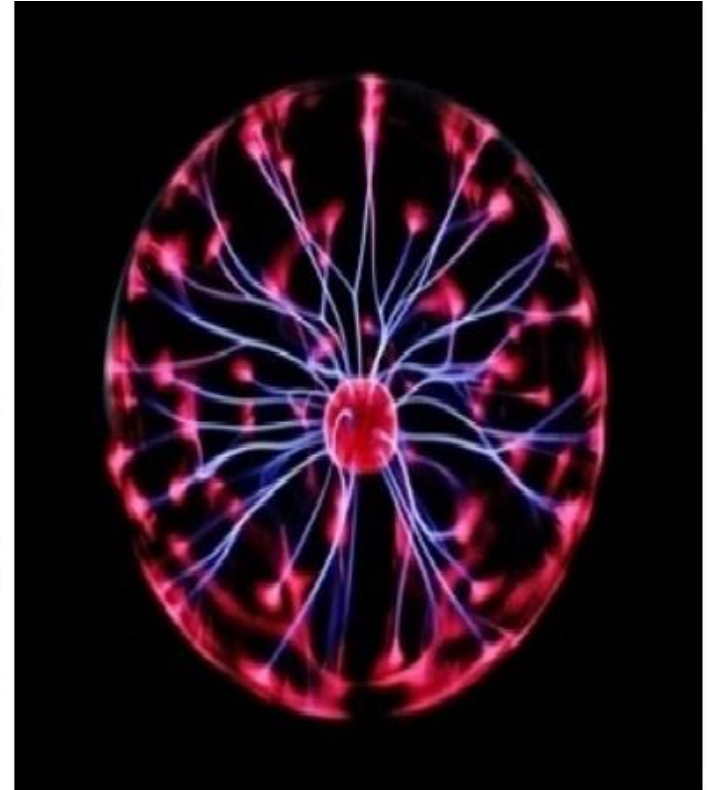
# ISOs in EHS



**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.
- Co<sub>2</sub> 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.



# Thank you

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