

# Climate Indicators & the Sustainable Development Goals



Claire Ransom

Climate Monitoring and Policy, WMO

Before we get started...

---

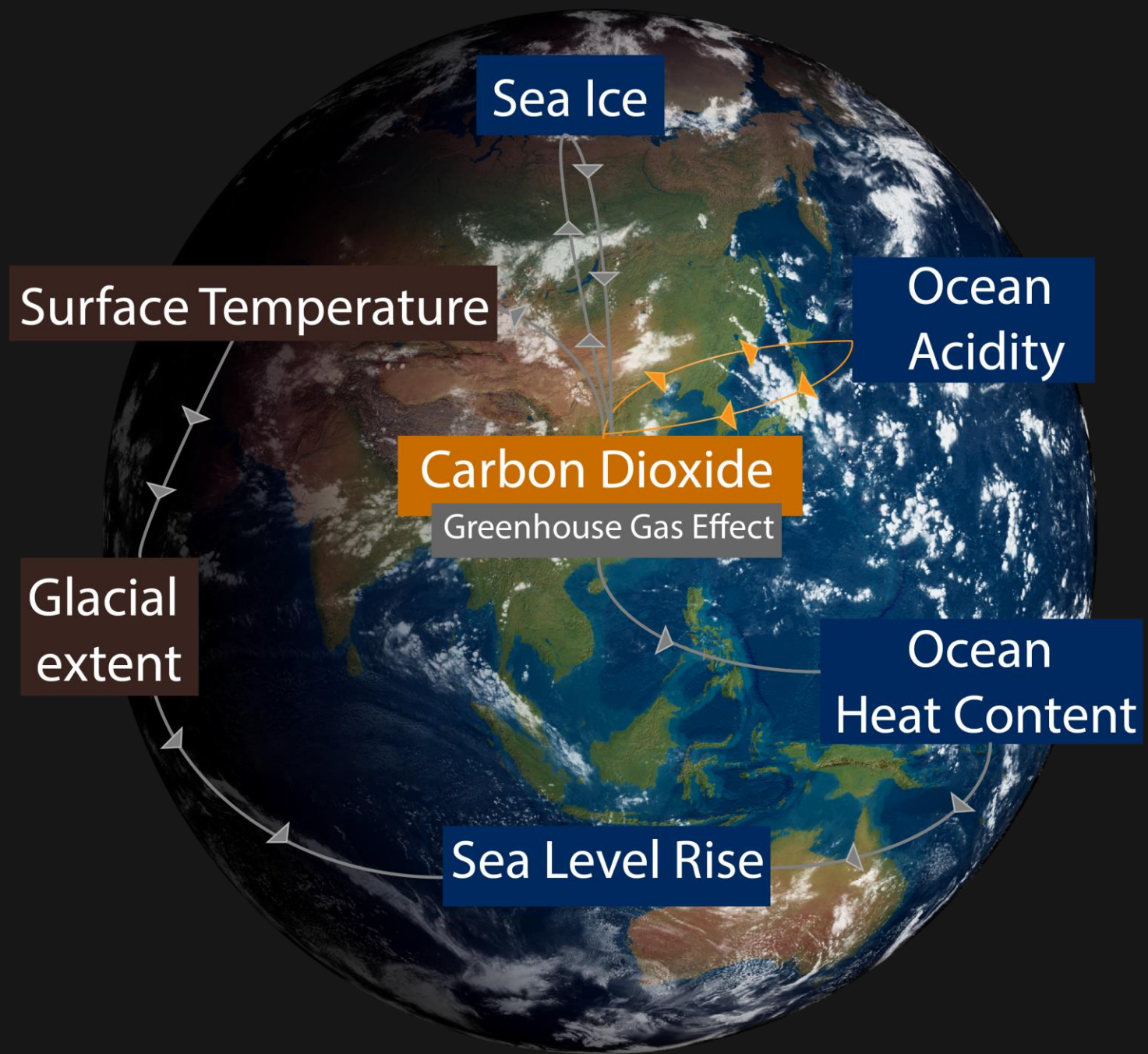
On your phones or  
computers, please go to:

**[www.Menti.com](https://www.Menti.com)**

And use the code

**4636 9478**










# The Sustainable Development Goals

- Agenda for 2030
- Comprised of 17 goals
- Globally agreed in 2015



# Climate indicators and relevant Sustainable Development Goals

	<b>Ocean acidification</b>
	<b>Global mean surface temperature</b>
	<b>Ocean heat content</b>
	<b>Sea-ice extent</b>
	<b>Glacier mass balance</b>



100 000 km<sup>2</sup> of glaciers

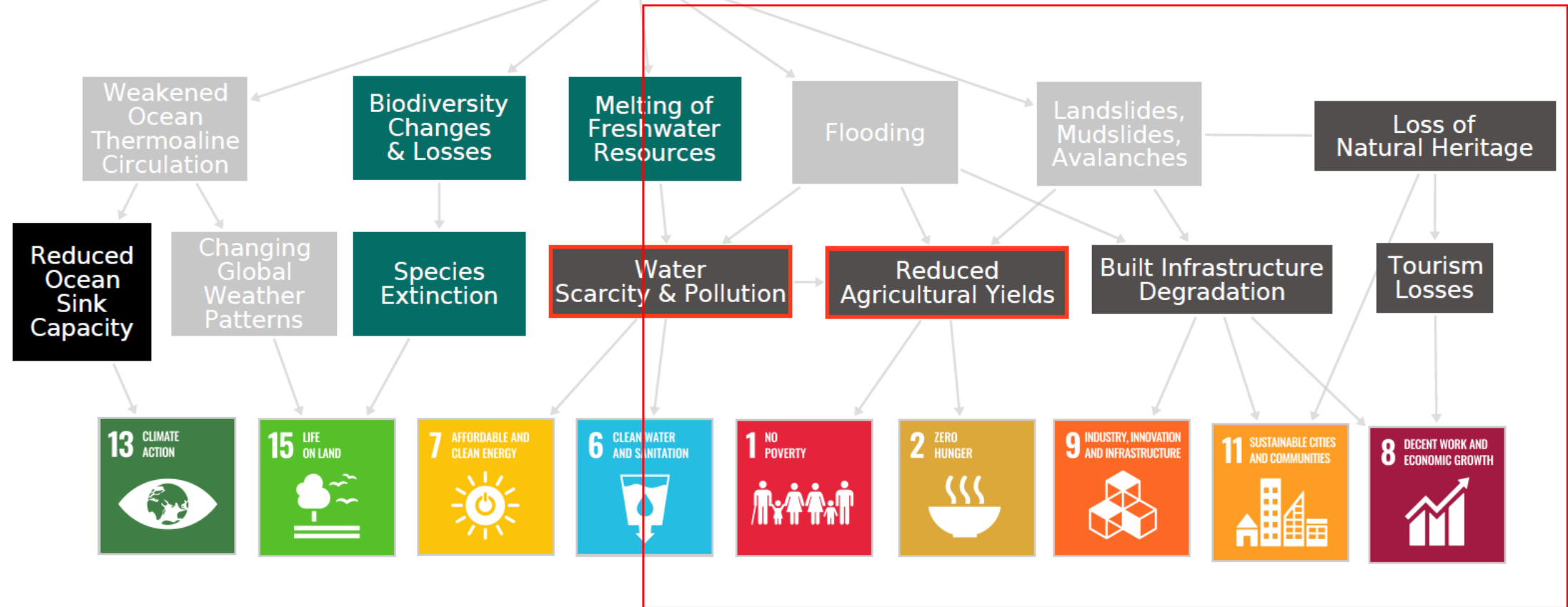
Headwaters of **10 major rivers**  
Food & water for **3 billion people**

Glacial Mass Extent





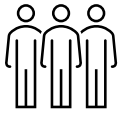
# Glacial Mass Balance



**Legend**

- Change in the Climate System
- Ecosystem Services Degradation
- Impact on Human Societies
- Feedback loop
- Gender Implications

# Flooding in Uttarakhand, India



200 people missing or perished



Damaged two hydropower  
stations



UNESCO World Heritage Site



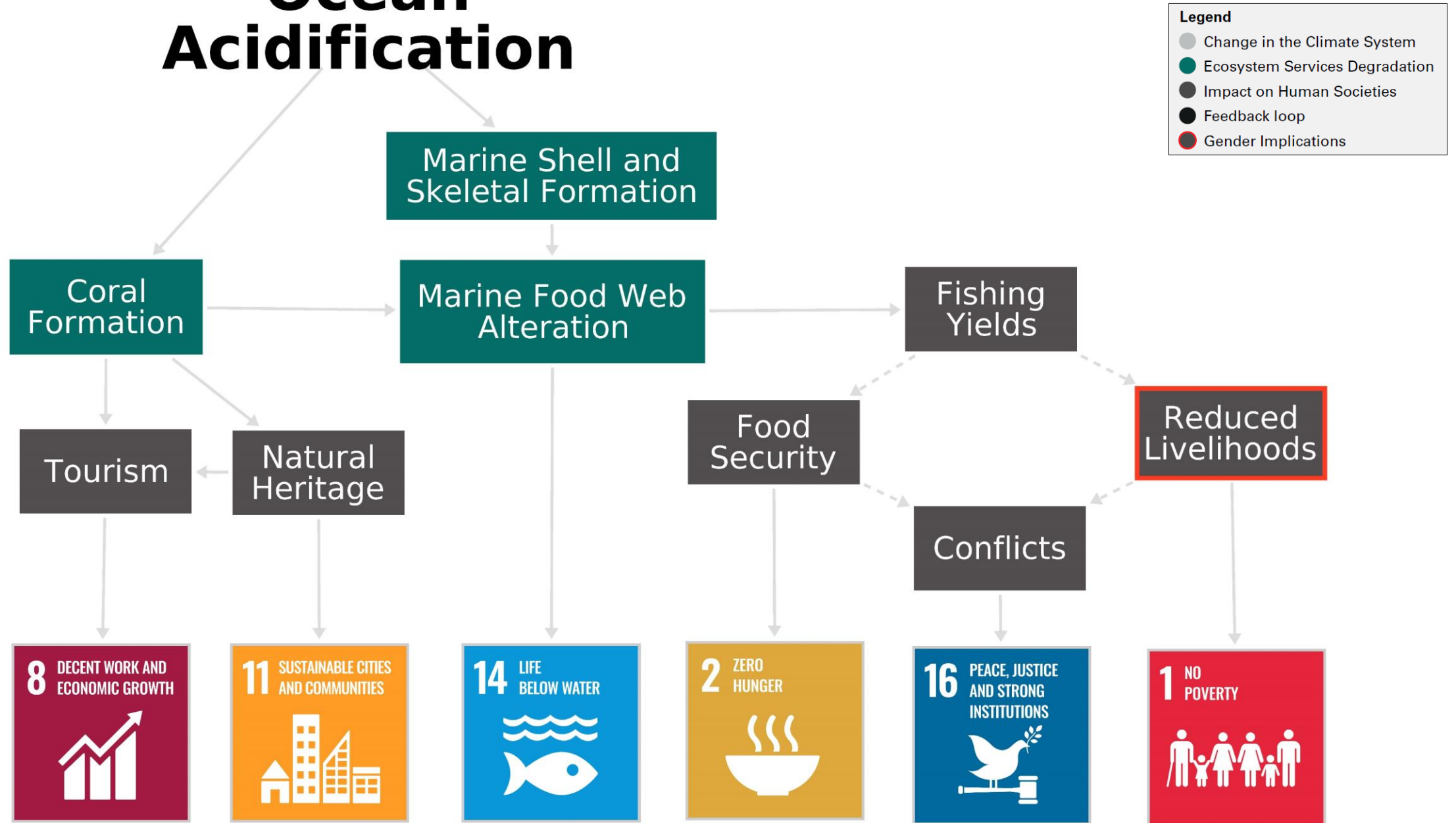




# Ocean Acidification



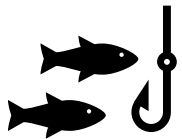
# Ocean Acidification



# Coral Triangle



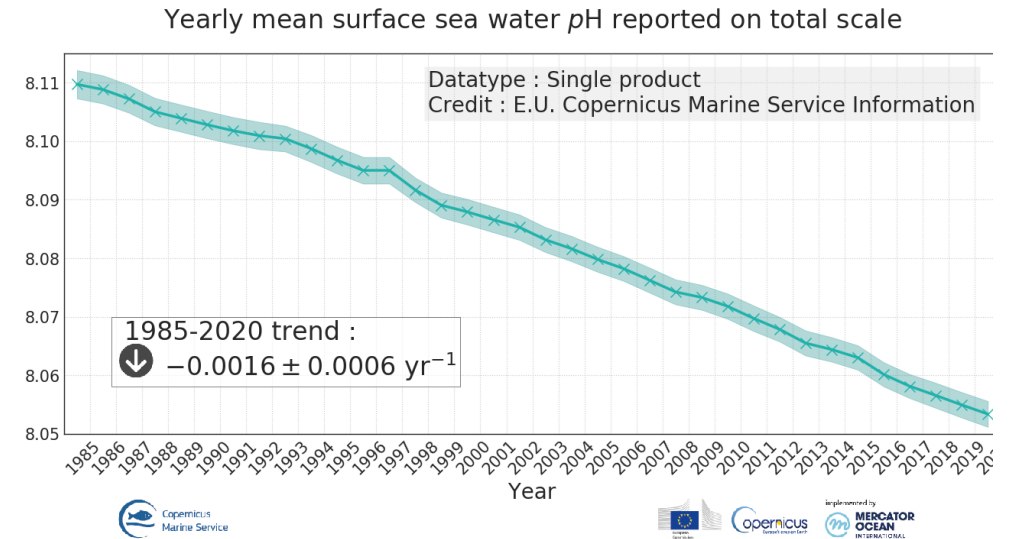
76% of the world's coral species



Employs 2.25 million fishers



Sustains 120 million people

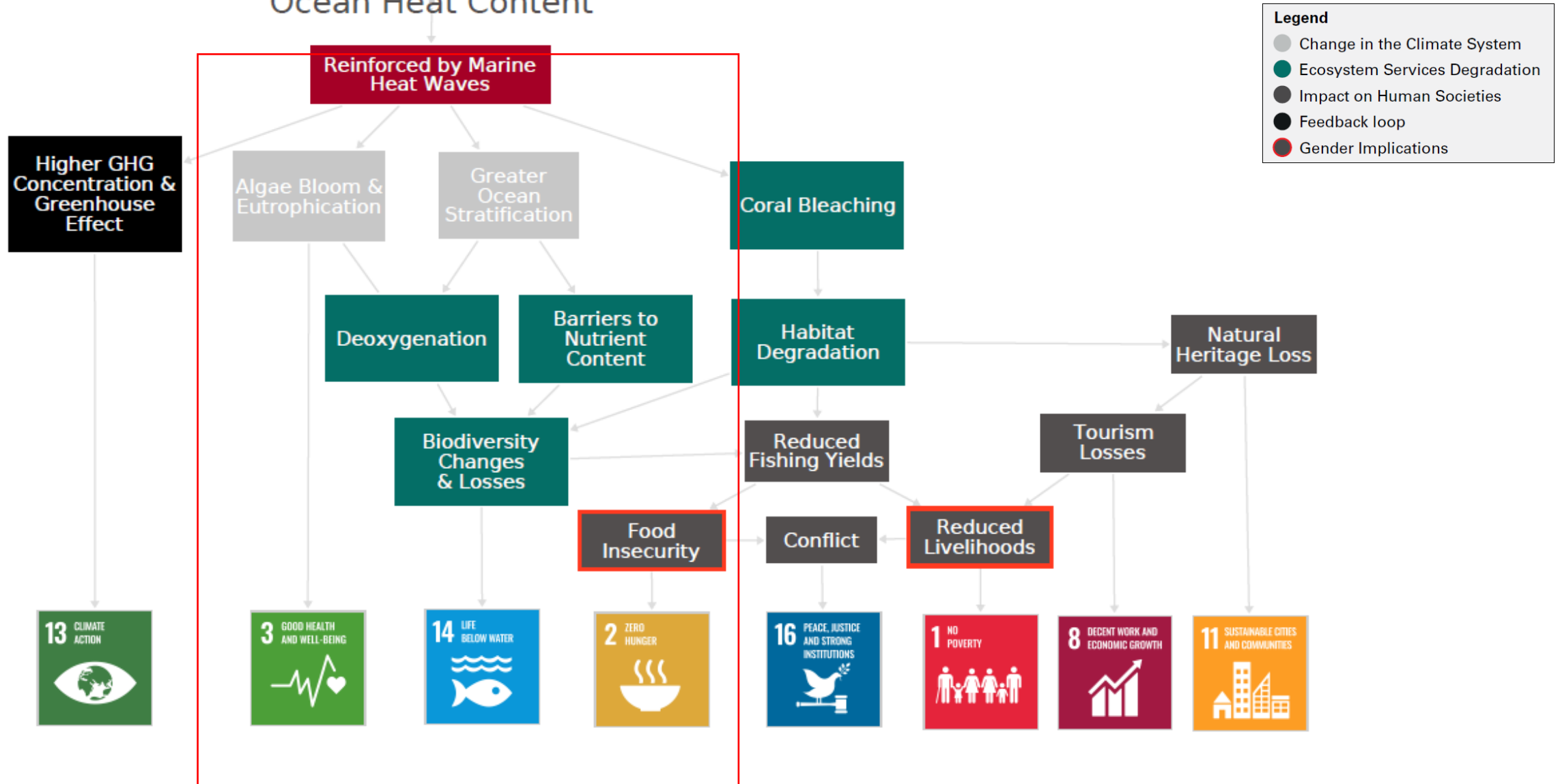




A high-speed photograph of a water splash. A large, turbulent plume of water rises from the bottom left, with numerous smaller droplets and bubbles suspended in the air. The background is a clear, bright blue sky with a prominent sun flare in the upper left corner, creating a lens flare effect. The overall scene conveys a sense of energy and natural beauty.

# Ocean Heat Content

# Ocean Heat Content





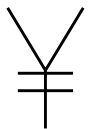
# Marine heatwaves



Harmful algal blooms in  
Hokkaido, Japan



Salmon & sea urchin die off



7.6 billion yen (€58 million) in  
damages

