

2024 Tyler Prize for environmental achievement

By IAS Toppers | 2024-03-04 15:55:00



Key Facts

2024 Tyler Prize for environmental achievement

The **2024 Tyler Prize** for environmental achievement will be awarded to Johan Rockstrom for his contributions to the development of the Planetary Boundaries framework.



[Ref- Down to Earth]

About 2024 Tyler Prize:

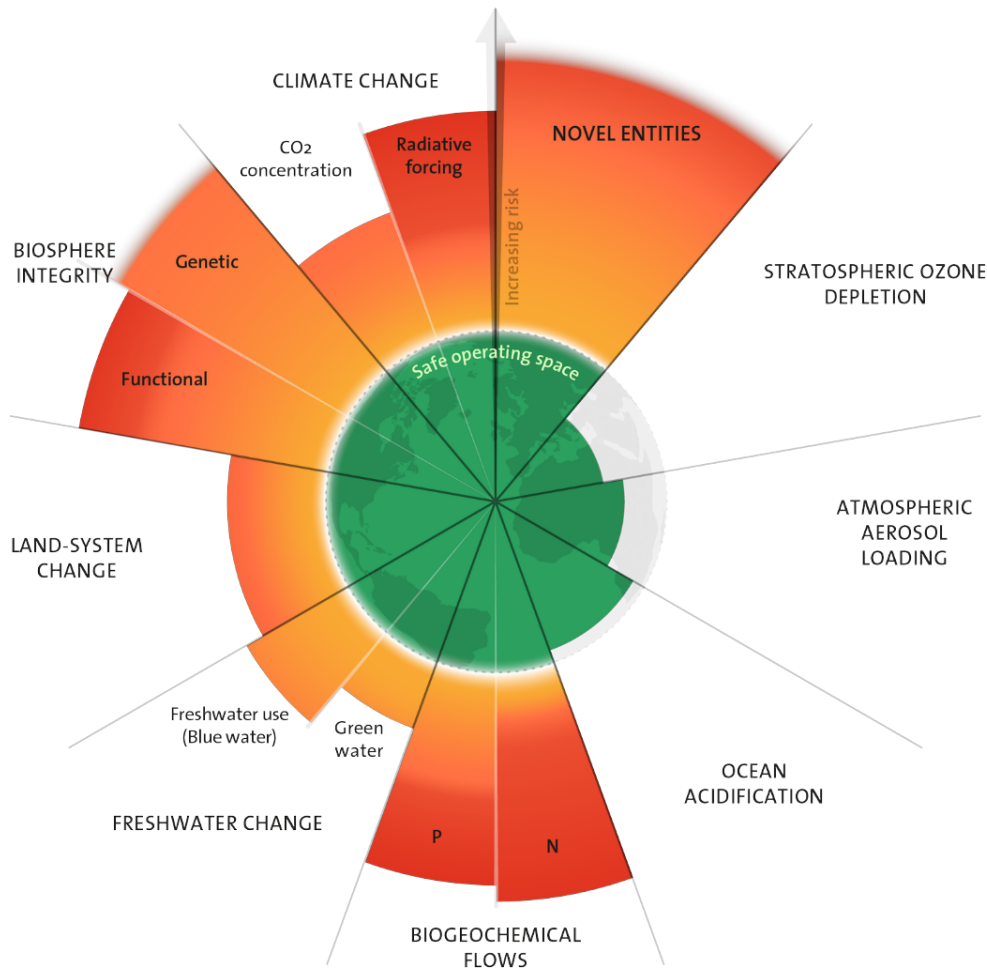
- It was established in **1973** by the late **John and Alice Tyler**.
- It is administered by the **University of Southern California**, where Laureates receive a **\$250,000 cash prize and a medallion**.
- The Tyler Prize for Environmental Achievement is one of the **first international premier awards** for environmental science, environmental health, and energy.
- Individuals and organizations chosen have conferred great benefits upon mankind.
- Some of the **Planetary Boundaries** identified by the Tyler Prize include:
 - Climate change
 - Ocean acidification
 - Biosphere integrity
 - Stratospheric ozone depletion
 - Atmospheric aerosol loading
 - Biogeochemical flows
 - Freshwater and land systems change

About the Planetary boundaries:

- First published in 2009, the **Planetary Boundaries integrate nine systems** that determine the functioning and the state of the planet.
- They provide **life-support to humans** and include systems we all rely upon, such as clean water, a stable climate, and vibrant biodiversity.
- This **framework has helped shape public response** to climate change and sustainable

development, including the **United Nations' Sustainable Development Goals**.

- The risk of **reaching tipping points** that will undermine the Earth's life-support systems and is a key metric used to determine safe Planetary Boundaries.
- Systems that can tip between different states and which regulate the environmental conditions on Earth are **dominated by feedbacks**.
 - This buffer and dampens stress from global warming.
- Crossing enough tipping points would risk **"irreversibly shifting" the planet** from a place that supports humanity as we know it to a state that no longer helps us.



[Ref- Stockholm Resilience Centre]