



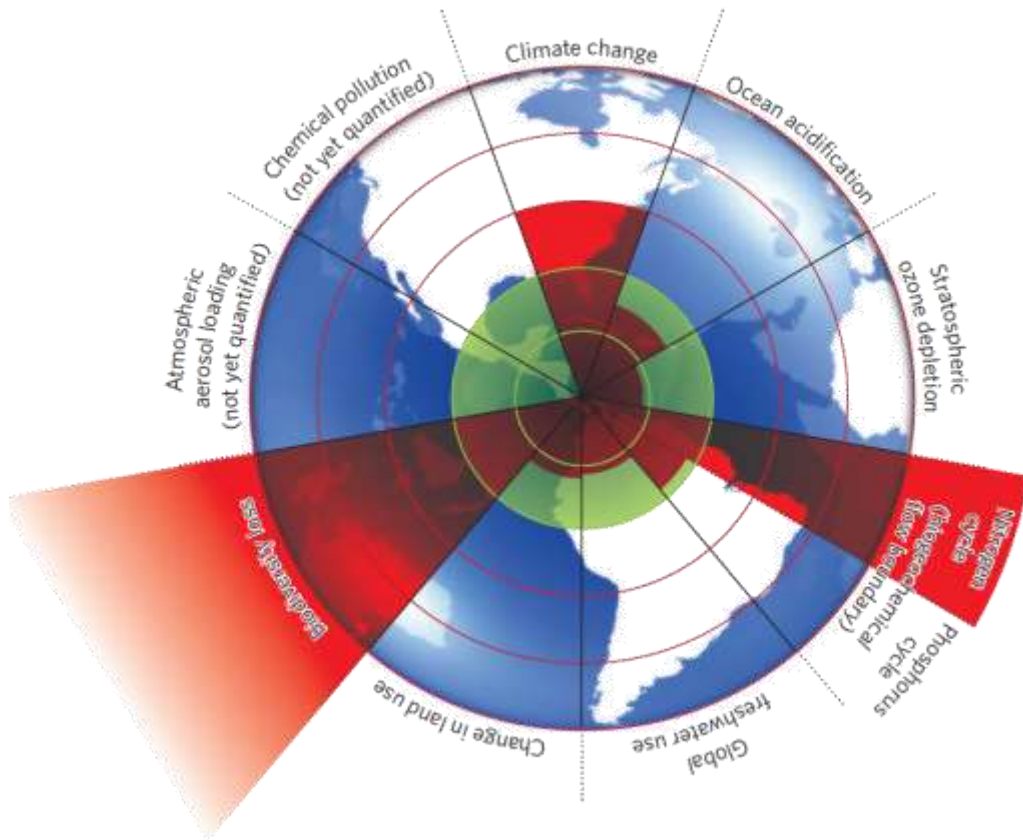
**Earth is now outside
the safe operating space
for humanity in 6 out of 9
planetary boundaries**

Including freshwater change



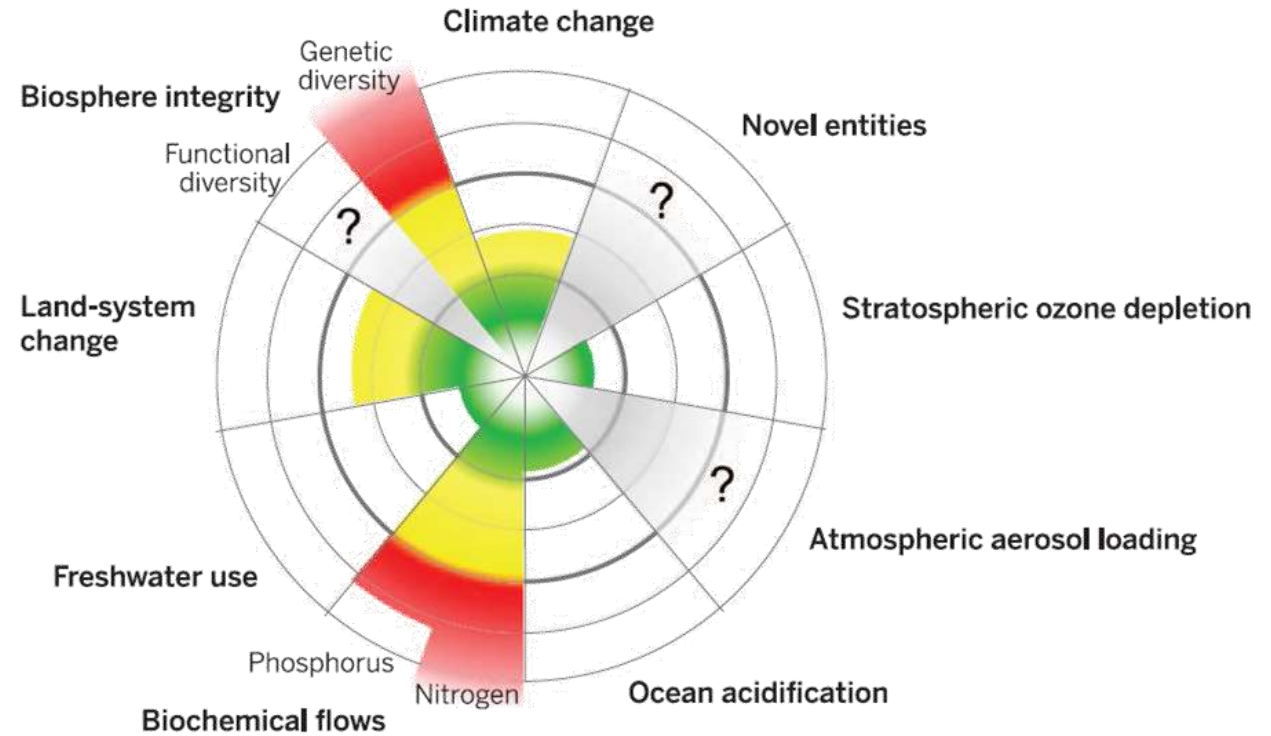
Planetary Boundaries

2009



Rockström et al., 2009. *Nature*, vol. 461.

2015



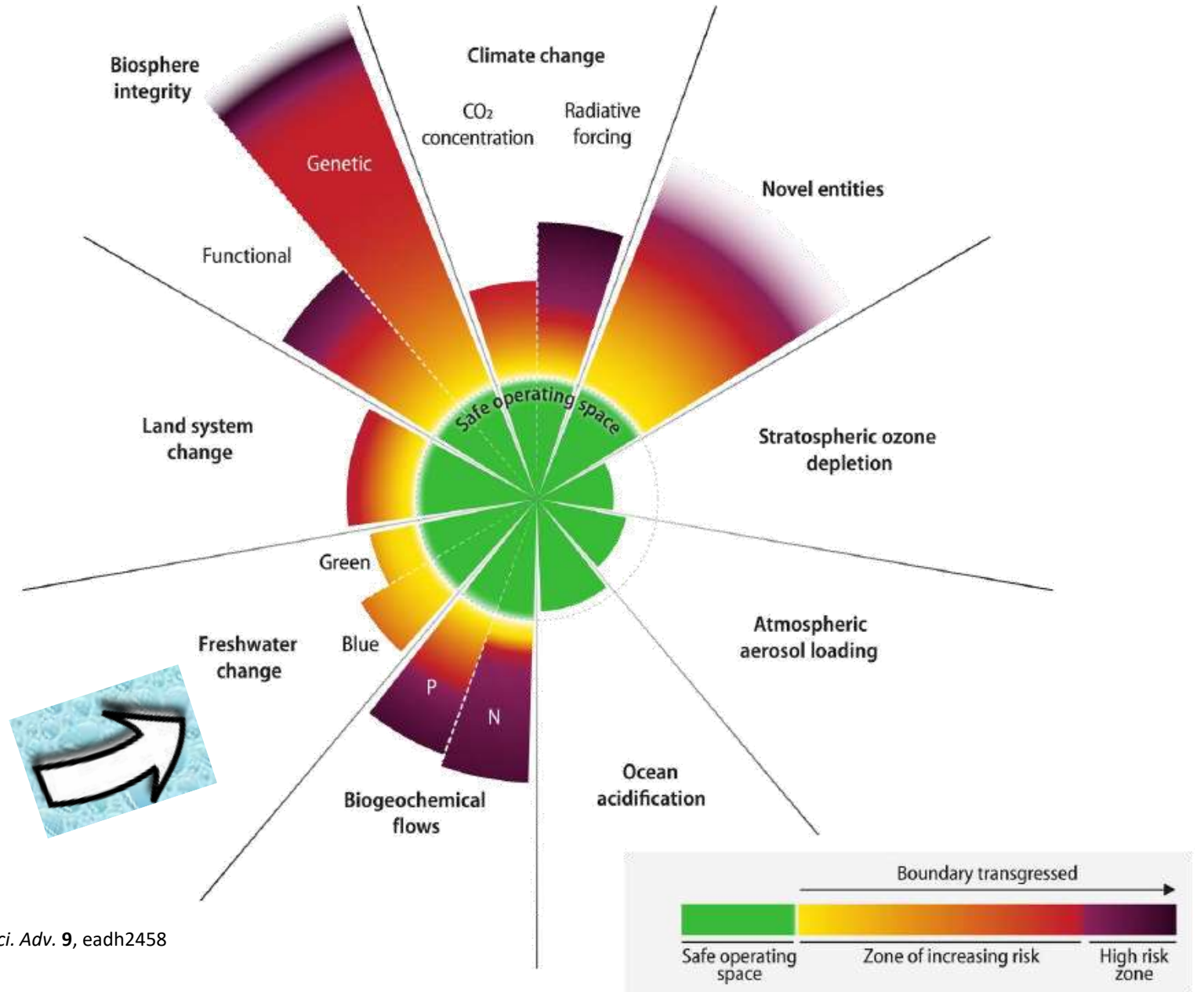
Steffen et al., 2015. *Science* 347, 1259855.





Planetary Boundaries

2023



Richardson et al., 2023. *Sci. Adv.* 9, eadh2458



Make Groundwater Visible – the UN WWDR 2022

Groundwater accounts for approximately **99%** of all liquid freshwater on Earth



The vast potential of groundwater and the need to manage it sustainably can no longer be overlooked

● ● ●
It is essential that countries commit themselves to developing an adequate and effective framework for groundwater governance

● ● ●
Groundwater data collected with public funds should be freely accessible



REPORT • 2022

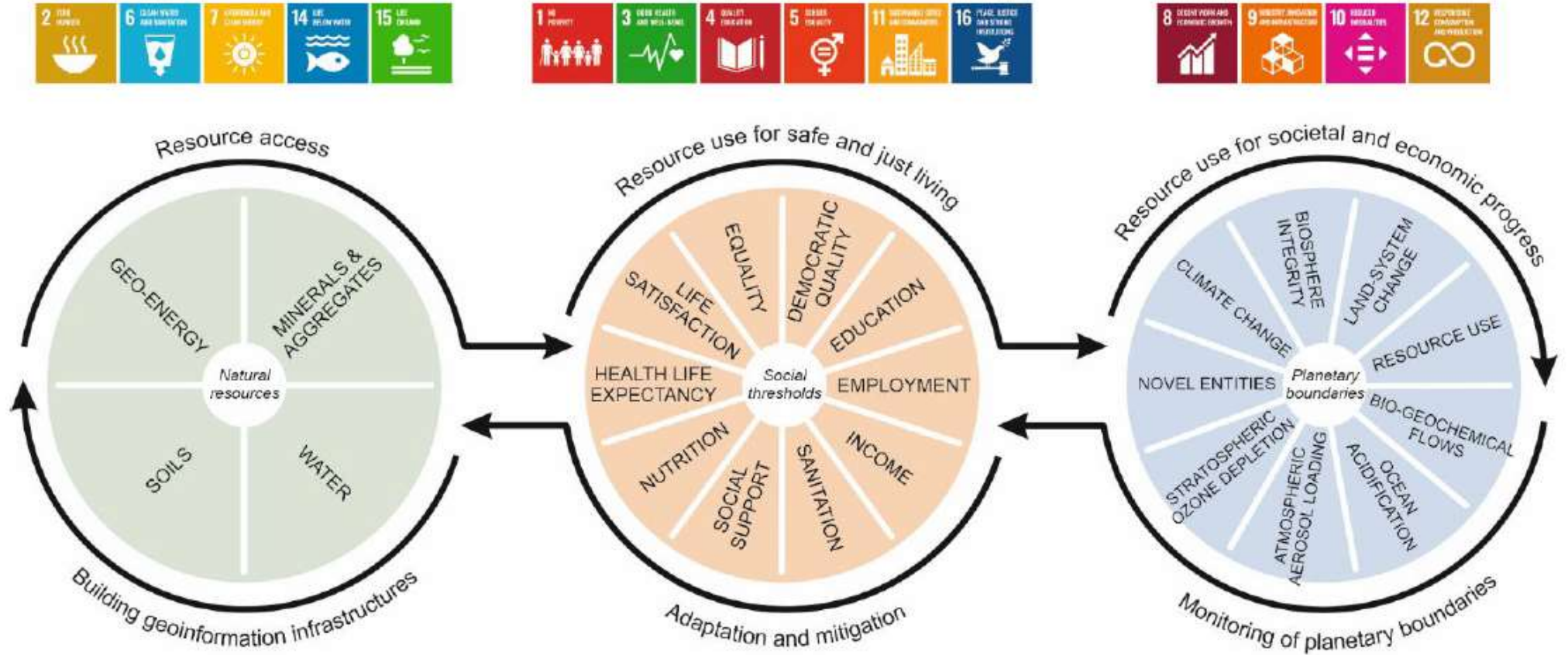
The essential drop to Net-Zero: Unpacking freshwater's role in climate change mitigation

<https://siwi.org/publications/essential-drop-to-net-zero-unpacking-freshwaters-role-in-climate-change-mitigation-report/>





The Nexus: Resources – Society – Nature





ENABLING WATER QUALITY

SUPPORTING GOOD WATER *QUALITY & QUANTITY*

WWW.GEOLOGICALSERVICE.EU