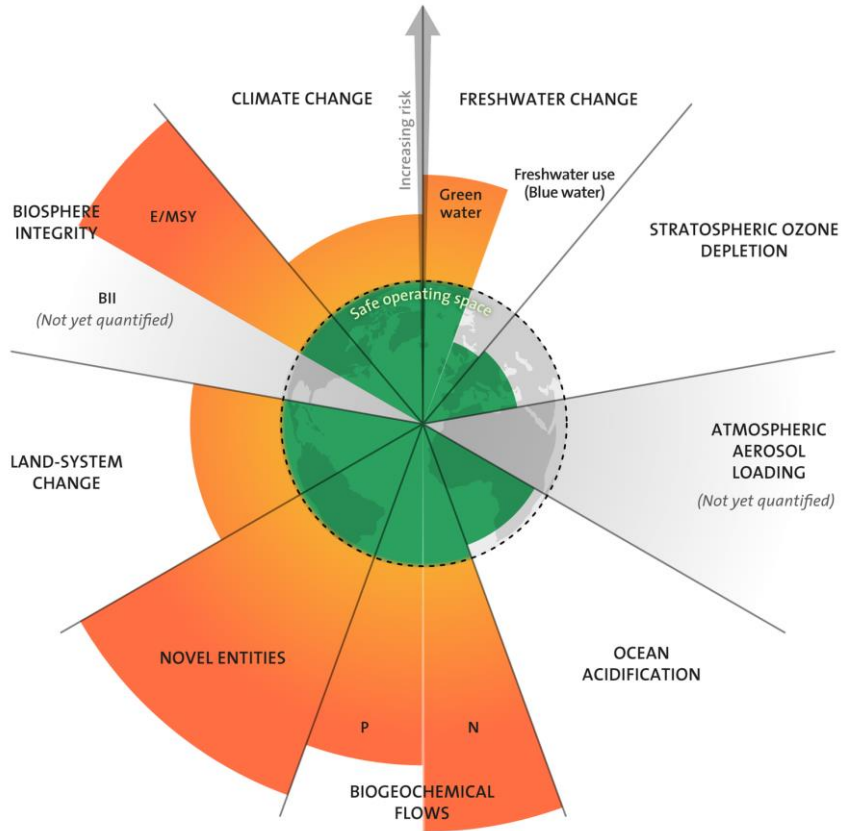


# Justice, innovation and emerging technologies: ocean energy's role in a just transition

Lara Santos Ayllon  
All Energy 2022  
Start: September 2021

# Balance?



Credit: Stockholm Resilience Centre



Why we welcome poetic justice and ...  
theconversation.com



Justice as Message Symposium: Message ...  
opiniojuris.org



Justice Pictures [HQ] | Download F  
unsplash.com



Transitional Justice Symposium: Giving ...  
opiniojuris.org



Why Justice is blind?. Have you ever ...  
medium.com



U.S. Criminal Justice System ...  
americanprogress.org



People-Centered Justice in Kosovo ...  
chemonics.com



Lady Justice: Reality or Just an I...  
lawsonlewis.co.uk



Legal Justice Archives - The Fact Facto  
thefactfactor.com

Credit: "justice" in Google Images



# Justice & energy transitions

## De-industrialization requires: A **Just Transition** for fossil fuel workers & communities

... What about re-industrialization, no matter how 'low carbon'?



Orbital O2 Orkney arrival (Credit Orbital Marine Power)



Wind turbine blades await burial, Casper Regional Landfill  
Credit: Benjamin Rasmussen for Bloomberg Green



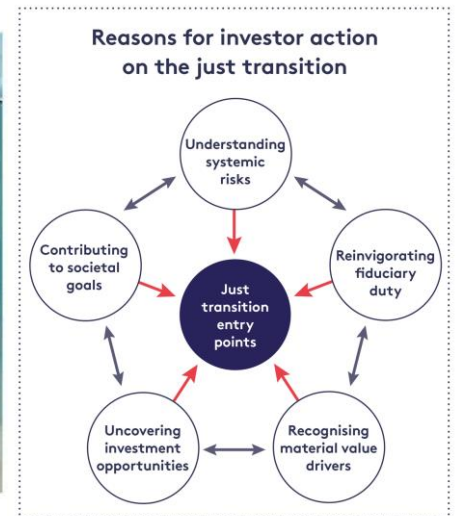
Source: Raconteur



Source: Reflex Orkney



Source: Hemery et al., 2021

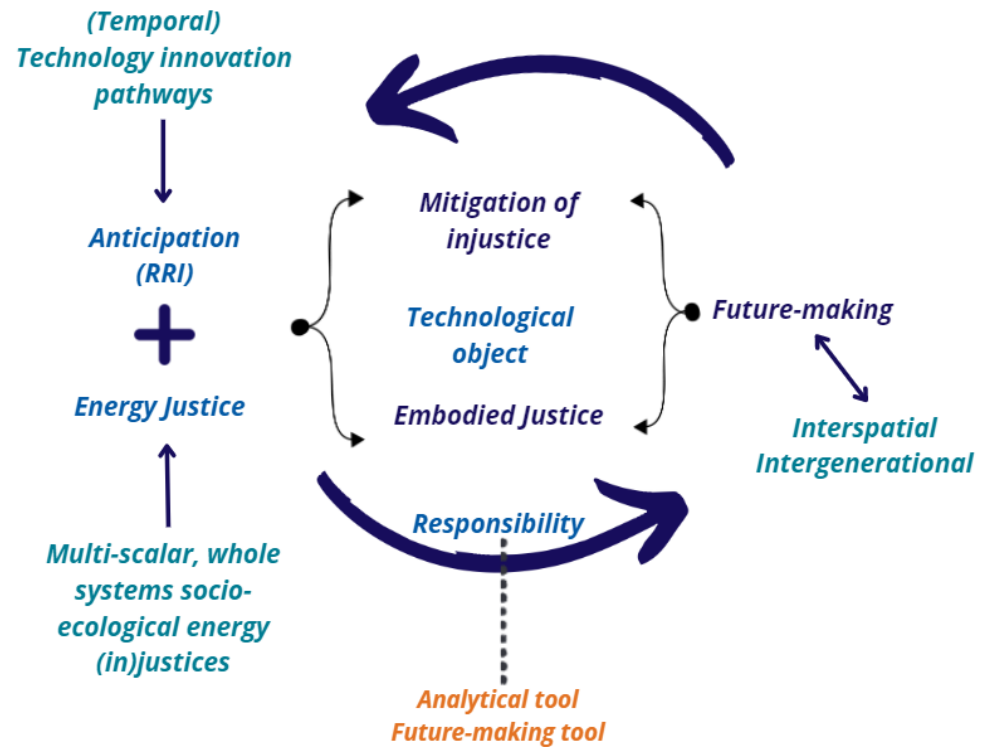
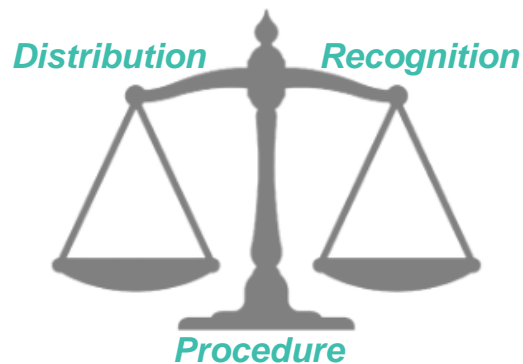


# Conceptual Model

## Responsible Research & Innovation



## Energy Justice – 3 tenets



Working draft, source: author



# Imagine... ocean energy?

What makes ocean energy *different*, and how can this be harnessed?

e.g., LCOE...?

What opportunities & risks does ocean energy create for our future energy system's sustainability?

*Energy security for islands?*

*Ownership models?*

*Biodiversity impacts?*

*Risk of monopolies?*



Mocean crane lift on Hatston Pier by Heddle, Orkney. Photo: Colin Keldie

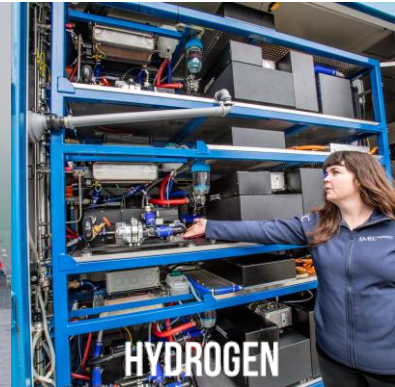
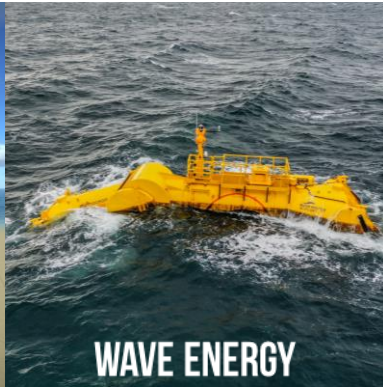


Magallanes Renovables ATIR installation at EMEC (Copyright Colin Keldie)



AWS Waveswing testing at EMEC Scapa Flow test site (Credit EMEC)





Thanks for listening!  
Lara.santos@emec.org.uk