

# PUDT 3100, Systems 2025F, Section A

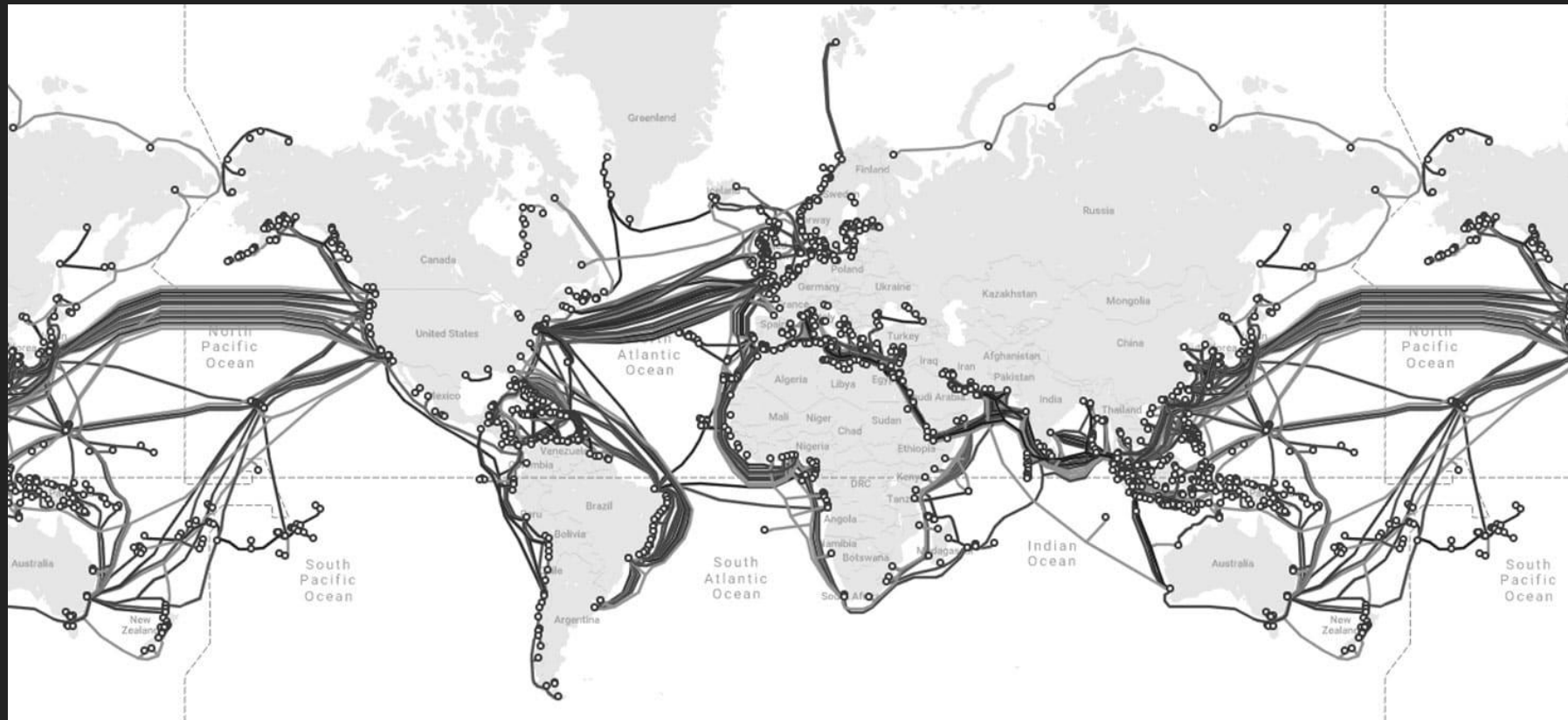
2025/11/06 - Week 11

# Today

- Emerging Futures
- Project 03
- Extrapolation Exercise

# Emerging Futures

# Systems



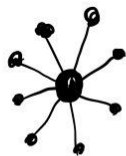
# Systems



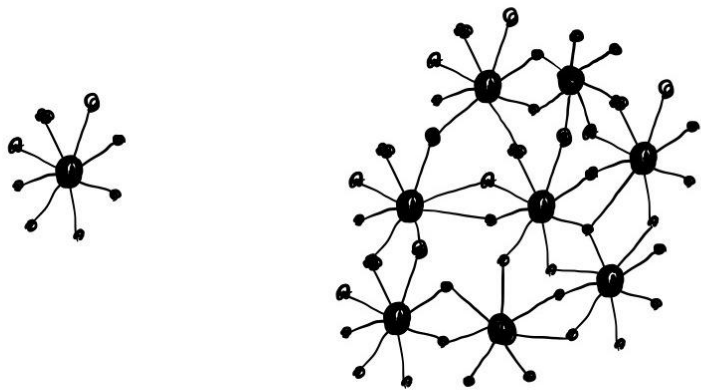
# Systems



# Self as a System

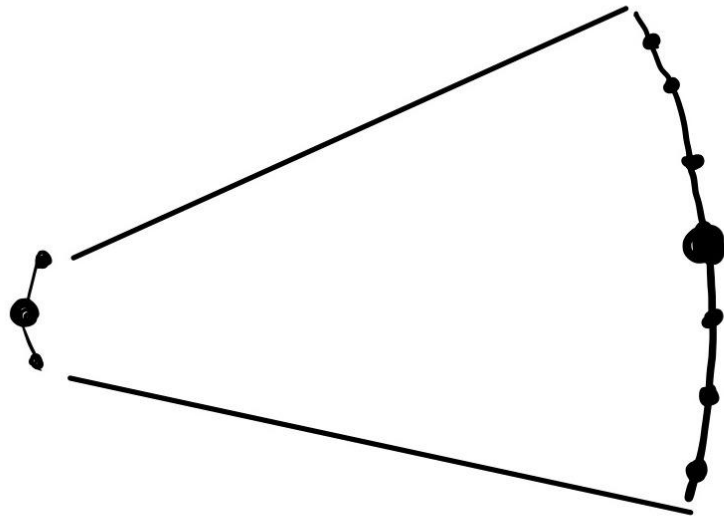
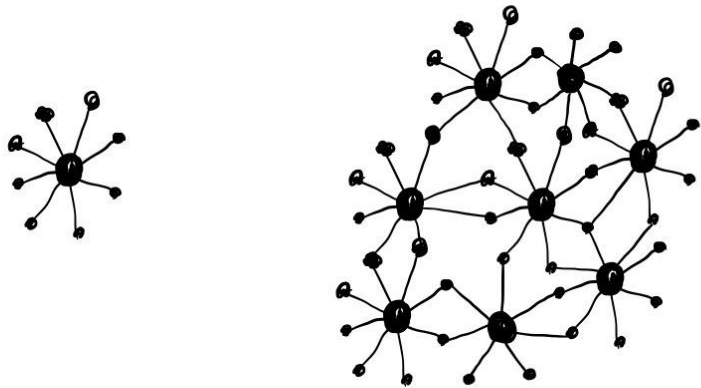


# City as a System





# Future as a System



**ANTHROPOCENE**

**QUATERNARY**

**HOLOCENE**

**PLEISTOCENE**

**PLIOCENE**

**MIOCENE**

**OLIGOCENE**

**EOCENE**

**PALEOCENE**

**CENOZOIC**

**CRETACEOUS**

**JURASSIC**

**TRIASSIC**

**PERMIAN**

**PENNSYLVANIAN**

**MISSISSIPPIAN**

**DEVONIAN**

**SILURIAN**

**ORDOVICIAN**

**CAMBRIAN**

**PALEOZOIC**

**PRE-CAMBRIAN**

**PROTEROZOIC**

**ARCHEAN**

**2.5 BILLION YEARS AGO**

**11,700 YEARS AGO**

**2.6 MILLION YEARS AGO**

**23 MILLION YEARS AGO**

**33.9 MILLION YEARS AGO**

**56 MILLION YEARS AGO**

**66 MILLION YEARS AGO**

**145.5 MILLION YEARS AGO**

**201.3 MILLION YEARS AGO**

**252.17 MILLION YEARS AGO**

**298.9 MILLION YEARS AGO**

**323.2 MILLION YEARS AGO**

**358.9 MILLION YEARS AGO**

**419.2 MILLION YEARS AGO**

**443.8 MILLION YEARS AGO**

**485.4 MILLION YEARS AGO**

**541 MILLION YEARS AGO**

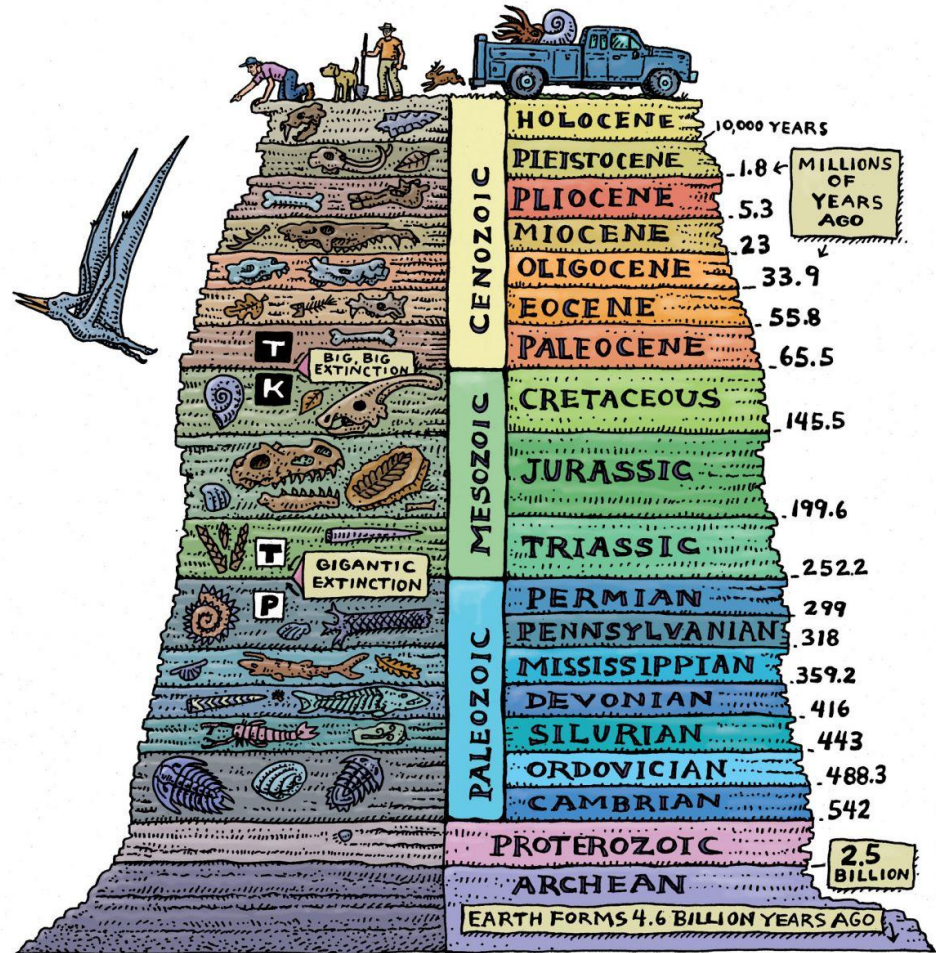
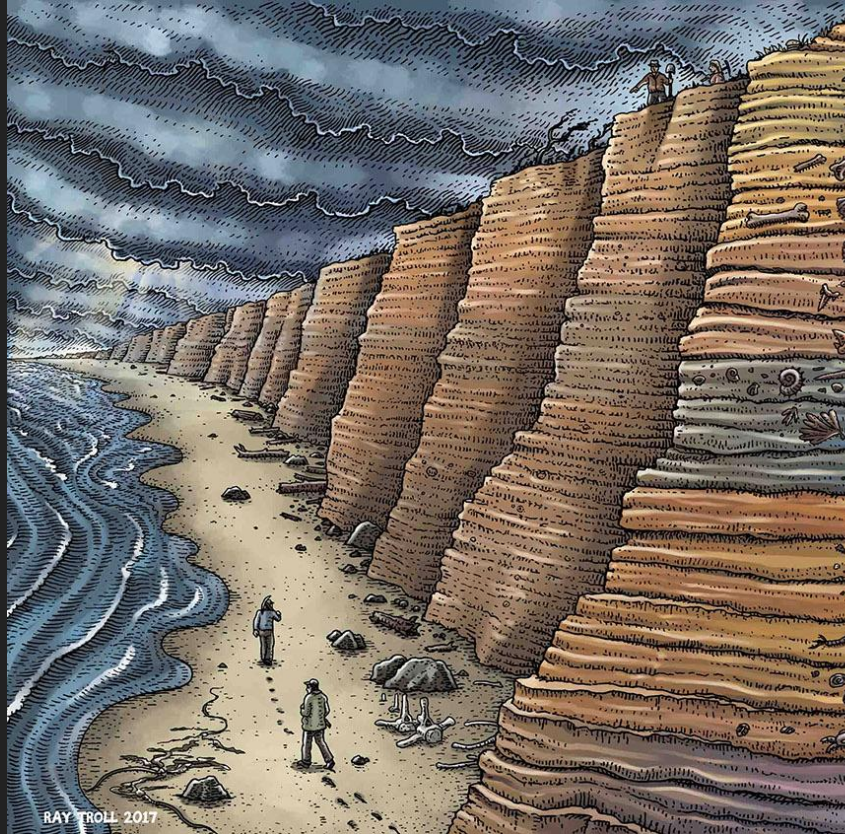
**EARTH FORMS 4.567 BILLION YEARS AGO**

**RAY TROLL 2017**

RAY TROLL 2017

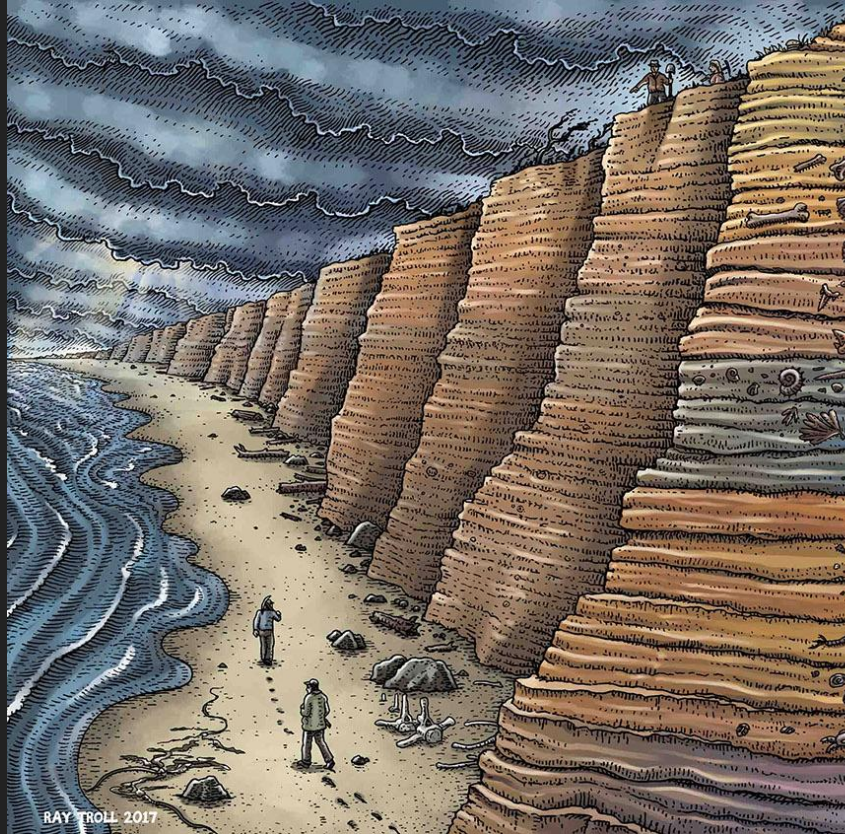


# Anthropocene

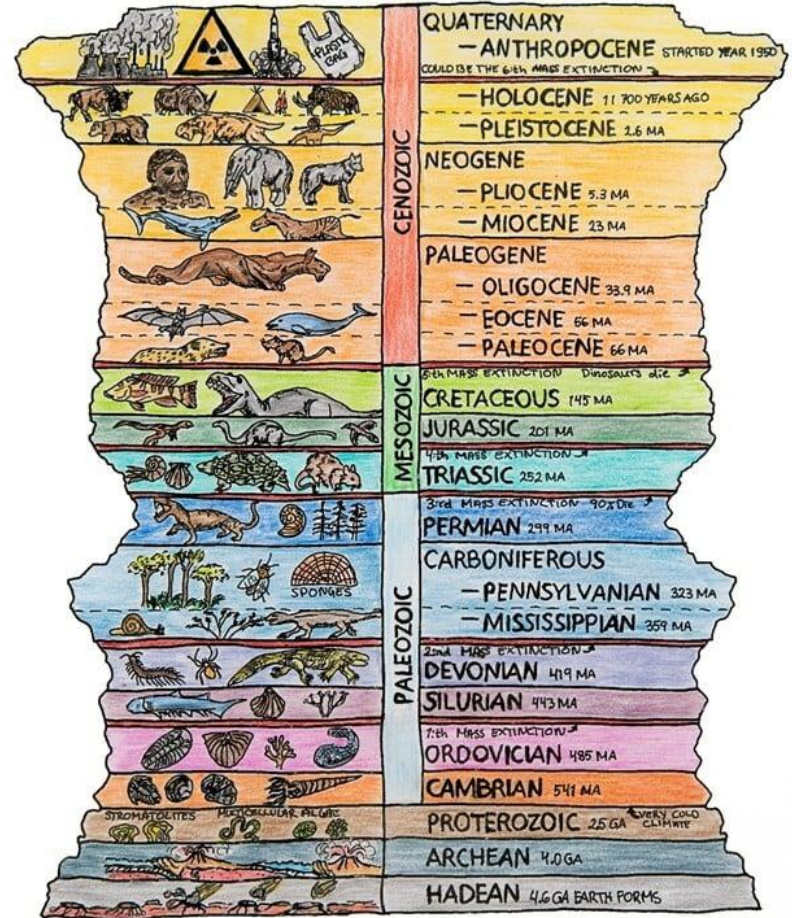




# Anthropocene



RAY TROLL 2017



# Anthropocene



<https://www.postnatural.org/>



# Anthropocene



<https://theanthropocene.org/>

# Anthropocene



Tree Logic



# Anthropocene



Beatriz Da Costa

transforming industrial sabotage

# Offset

into premium carbon credits

are developing a first-of-a-kind methodology for transforming industrial sabotage and other forms of direct action into carbon offsets. Browse our [repository of case studies](#) or [propose a new one](#) for analysis.

SUGGEST AN OFFSET

METHODOLOGY

Tega & Sam



Adrien Segal

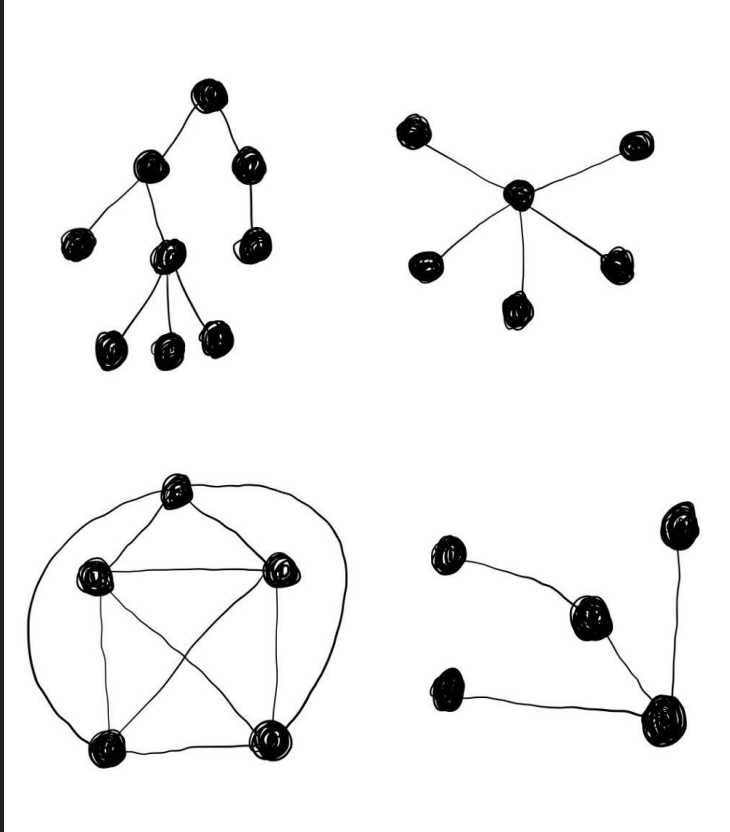


# Anthropocene



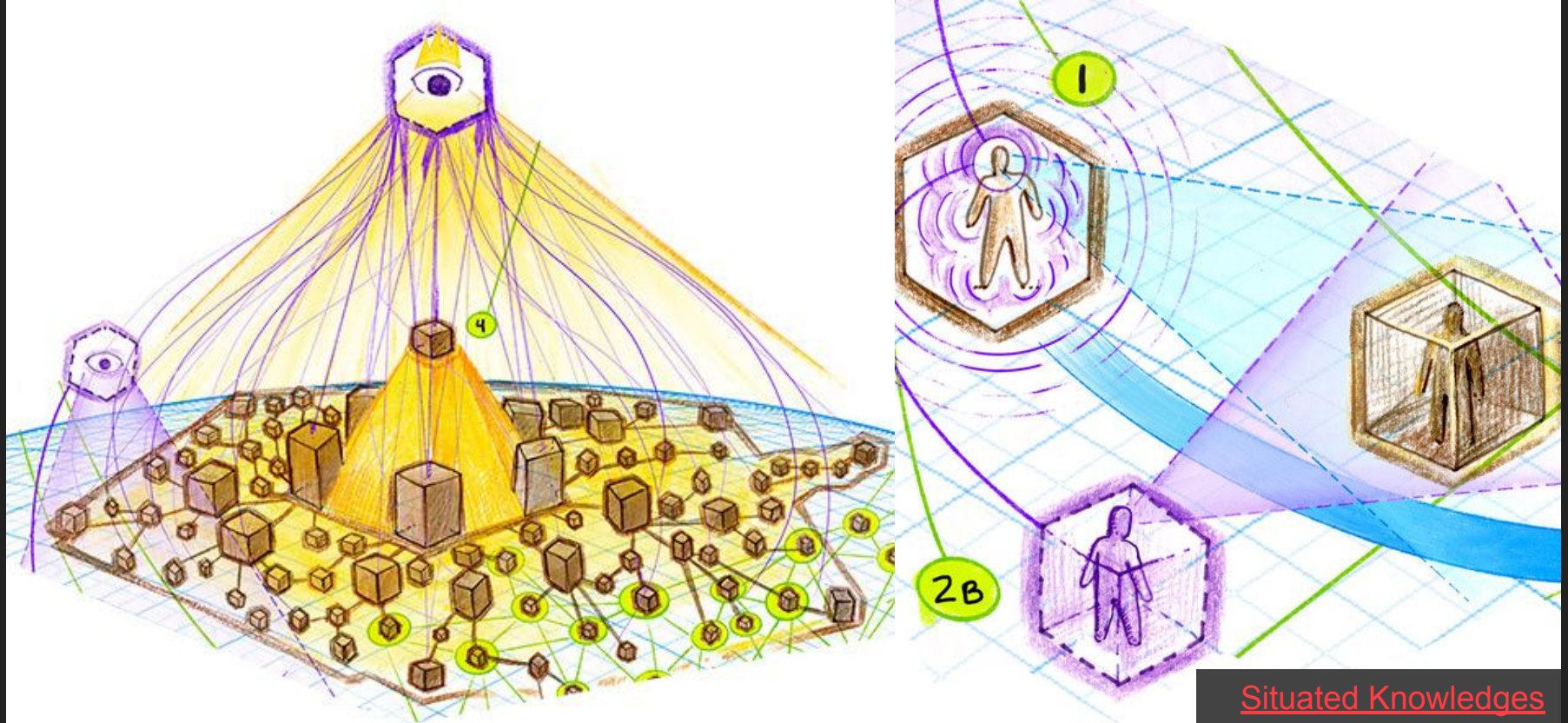
<https://www.environmentalhealthclinic.net>  
[Moth x Cinema](#)

# Relations



Rhizome [ [1](#) ] [ [2](#) ]

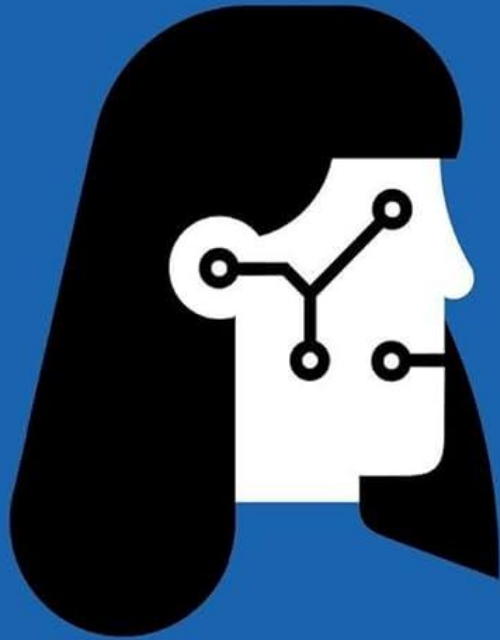
# Relations



Situated Knowledges

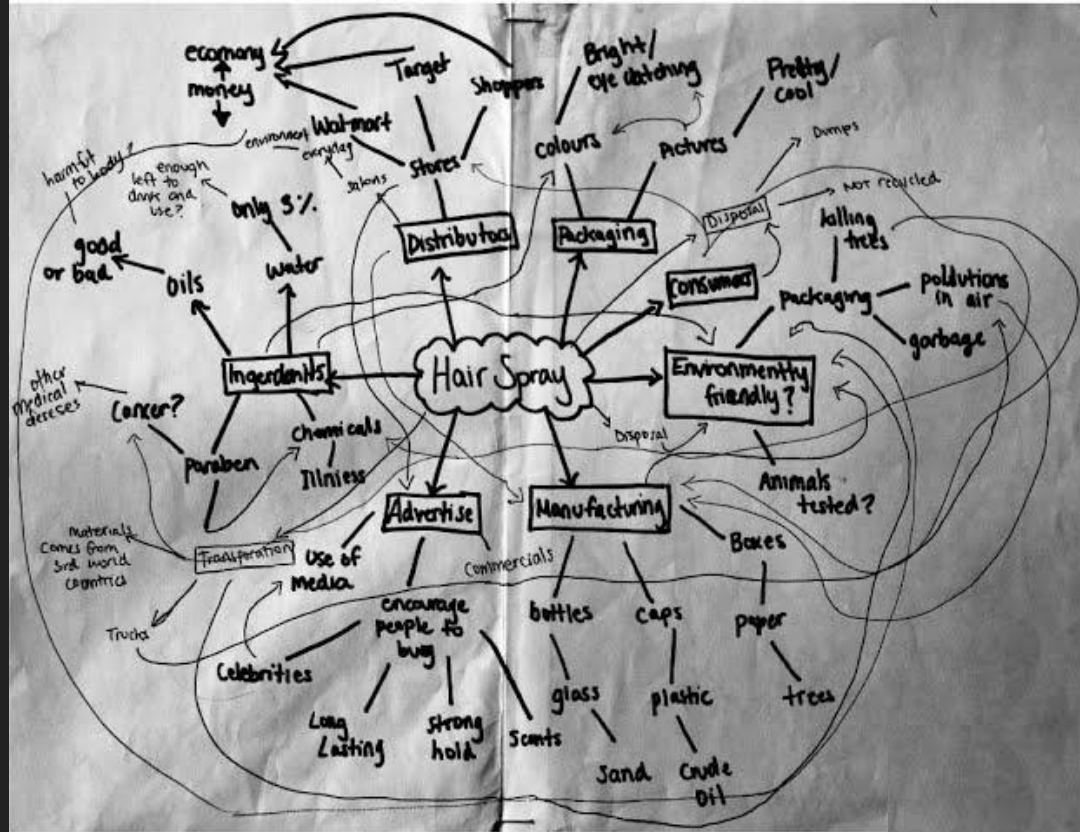


# Relations



- ❖ Relates to connections
- ❖ Everything in the world is linked
- ❖ It is crucial to view entities within their network of connections – in an open, fluid, and indistinct semiotic flow

# Actor Network Theory



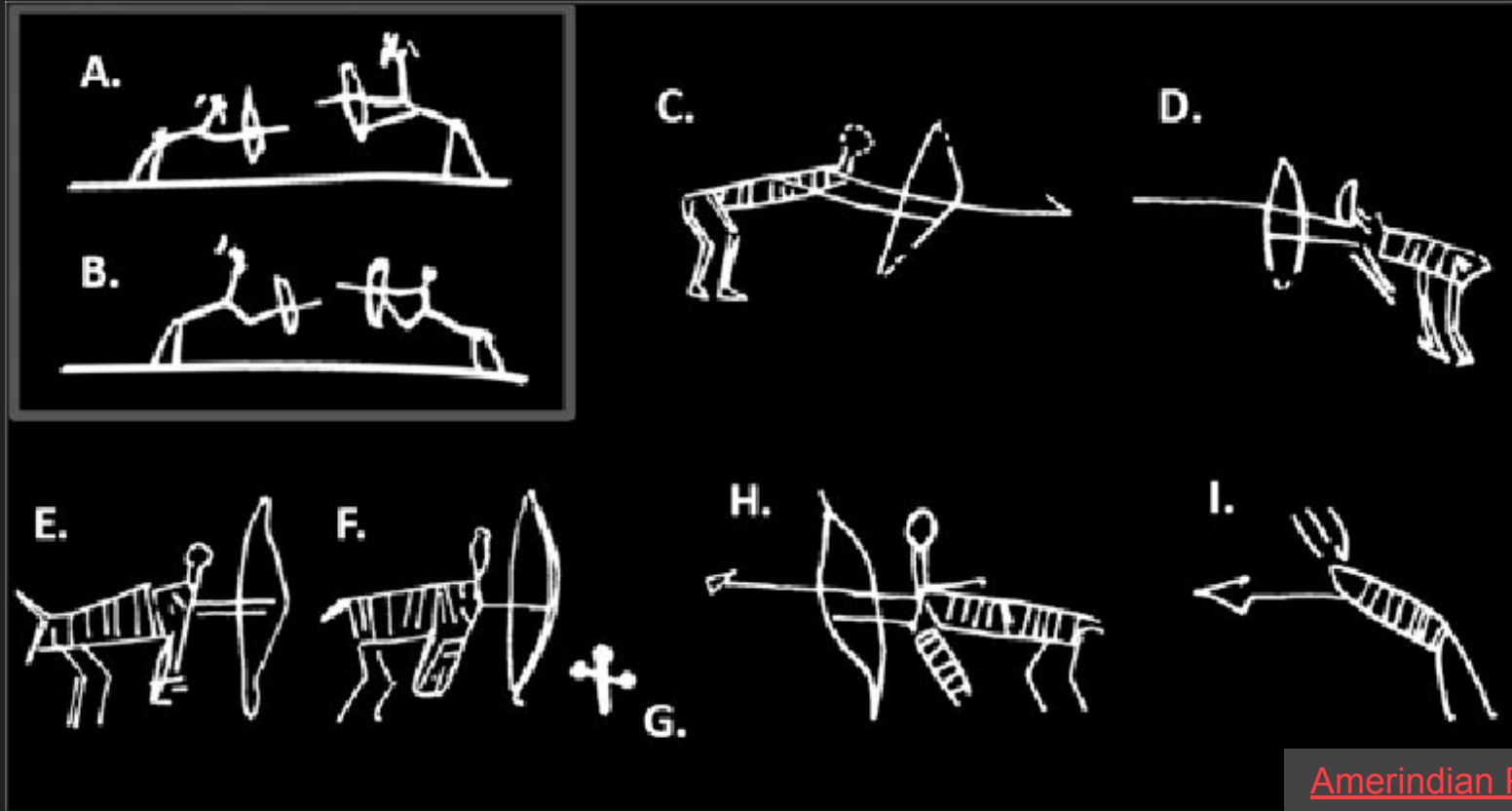
Social theory of the sciences

Symmetry between humans and nonhumans

Interested in how networks grow and their connections more than what they do or produce

Way to spot “monsters”

# Amazonian Perspectivism



Amerindian Perspectivism

# Amazonian Eschatology



It is now easier to imagine the end of the world  
than the end of capitalism



# Emerging Futures

No Earth No Humans

Earth No Humans

Humans No Earth

Earth + Humans

# Emerging Futures

~~No Earth~~ ~~No Humans~~  
Humans before Earth

~~Earth~~ ~~No Humans~~  
Earth before Humans

~~Humans~~ ~~No Earth~~  
Humans after Earth

~~Earth~~ ~~+ Humans~~  
Earth after Humans

# Emerging Futures

~~No Earth No Humans~~  
Humans before Earth

Religion, Teleology,  
Exceptionalism,  
Afrofuturism

~~Earth No Humans~~  
Earth before Humans

~~Humans No Earth~~  
Humans after Earth

~~Earth + Humans~~  
Earth after Humans

# Emerging Futures

~~No Earth No Humans~~  
Humans before Earth

Religion, Teleology,  
Exceptionalism,  
Afrofuturism

~~Earth No Humans~~  
Earth before Humans

~~Humans No Earth~~  
Humans after Earth

Posthumanism,  
Accelerationism,  
Xenofeminism

~~Earth + Humans~~  
Earth after Humans

# Emerging Futures

~~No Earth No Humans~~  
Humans before Earth

Religion, Teleology,  
Exceptionalism,  
Afrofuturism

~~Earth No Humans~~  
Earth before Humans

New Materialism,  
Geontology,  
Speculative Realism,  
Animism, Tsukumogami/Yokai

~~Humans No Earth~~  
Humans after Earth

Posthumanism,  
Accelerationism,  
Xenofeminism

~~Earth + Humans~~  
Earth after Humans

# Emerging Futures

~~No Earth No Humans~~  
Humans before Earth

Religion, Teleology,  
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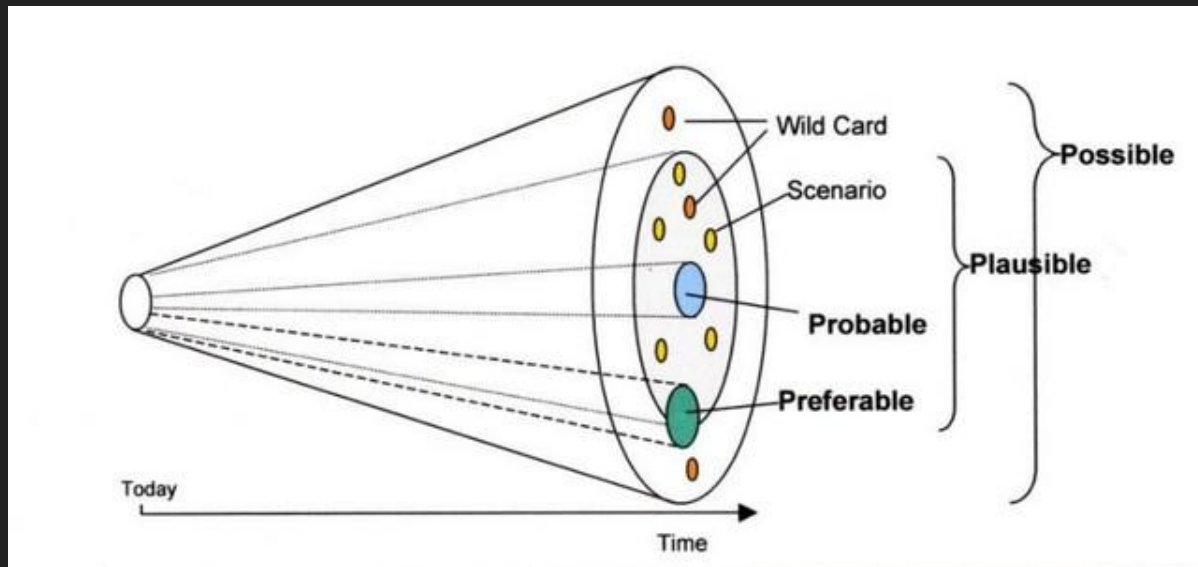
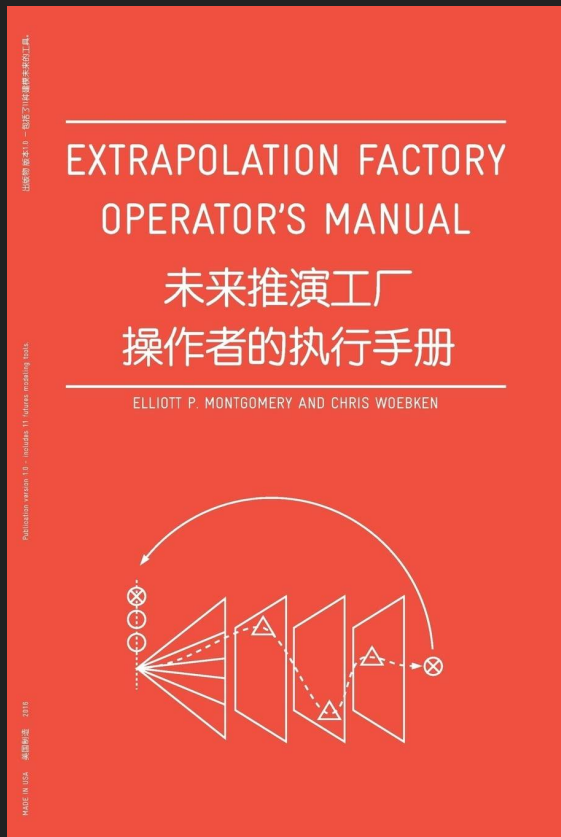
Posthumanism,  
Accelerationism,  
Xenofeminism

~~Earth + Humans~~  
Earth after Humans

Nonhuman phenomenology,  
Postnatural organisms,  
Cyclonopedia

Designing for the future means designing  
within networks

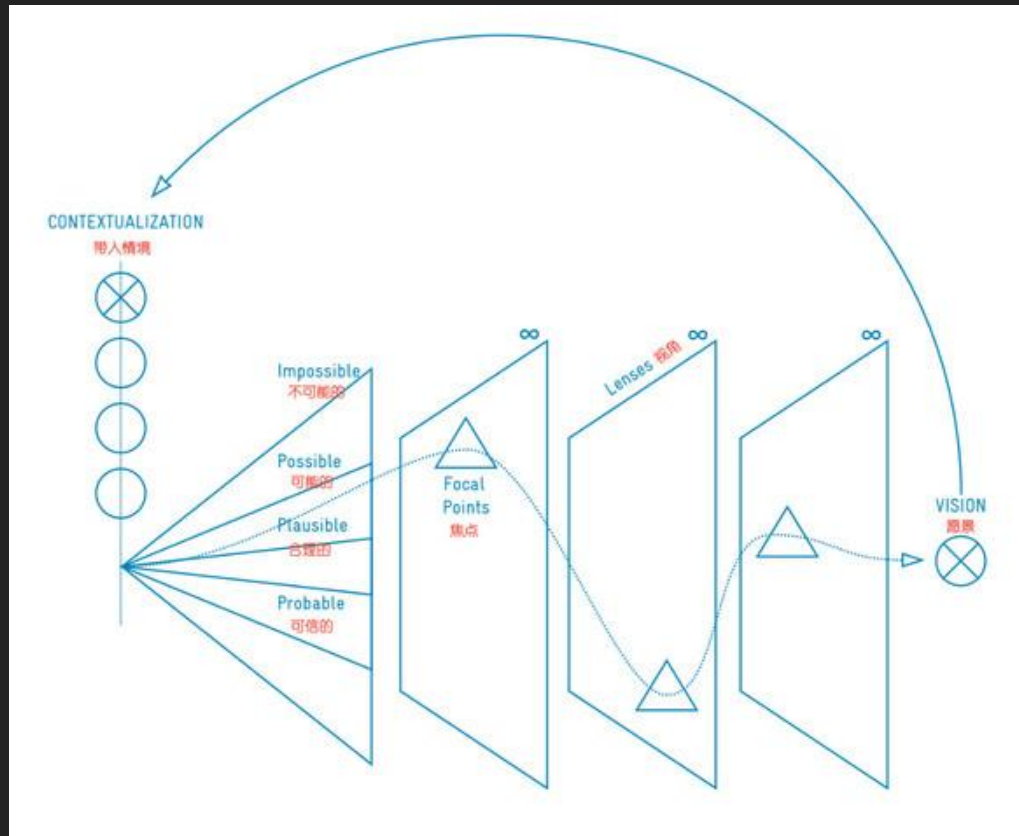
# Design Tools



Joseph Voro's Futures Cone

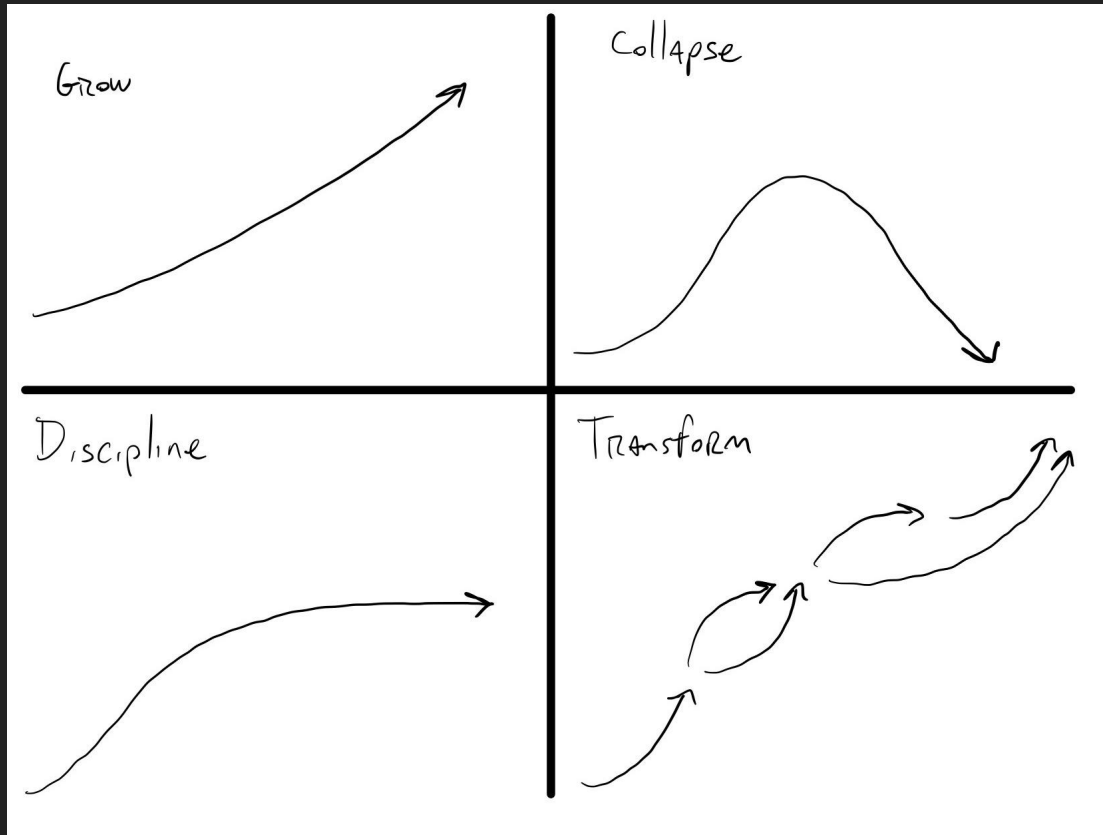


# Design Tools



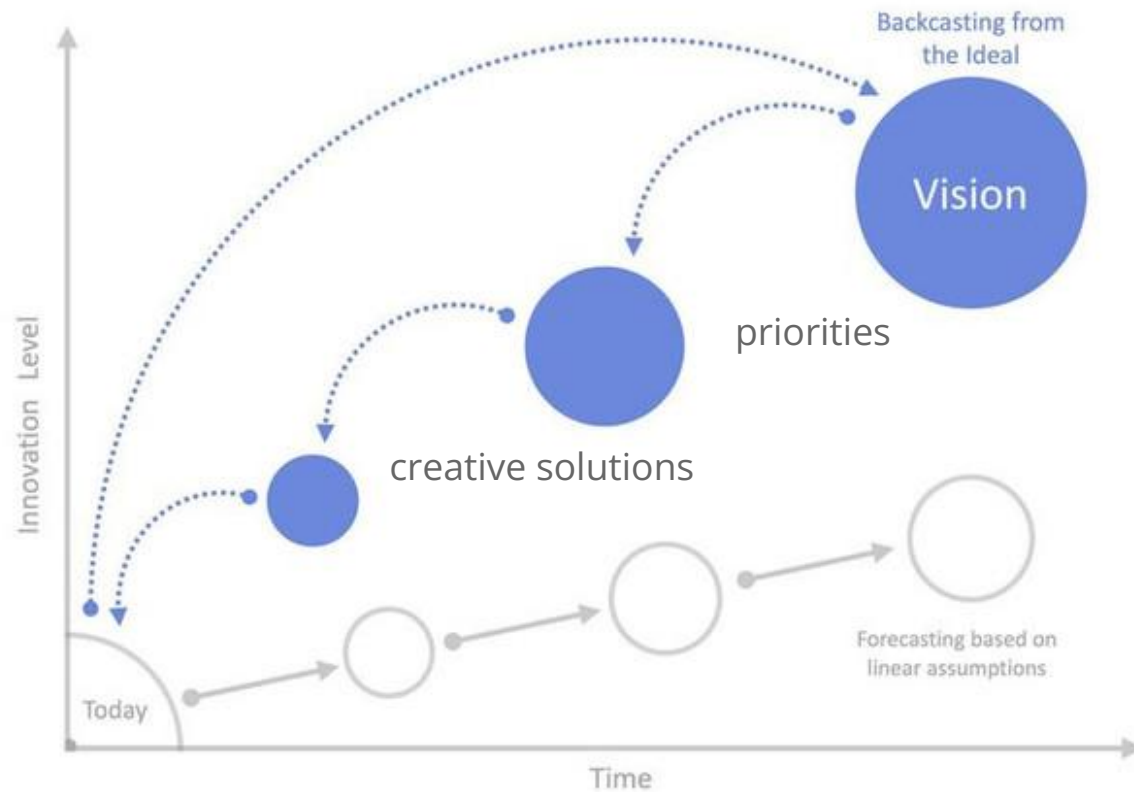
Extrapolation Factory's Future Scope

# Design Tools



Jim Dator's Four Futures

# Design Tools



Backcasting

# Additional Readings

- [Apocalypse without Kingdom](#) (1959) by Günther Anders
- [The Imagination of Disaster](#) (1965) Susan Sontag
- [Tentacular Thinking](#) (2016) Donna Haraway
- [Life on a Geologic Spike](#) (2018) Kathryn Yusoff
- [What Begins After the End of the Enlightenment?](#) (2019) Yuk Hui

# Project 03



<https://tinyurl.com/3100wk11>

<https://tinyurl.com/3100p03>

# Extrapolation Exercise

# Homeworks

- Reading: More about the Anthropocene
- Project 03: Milestone 01