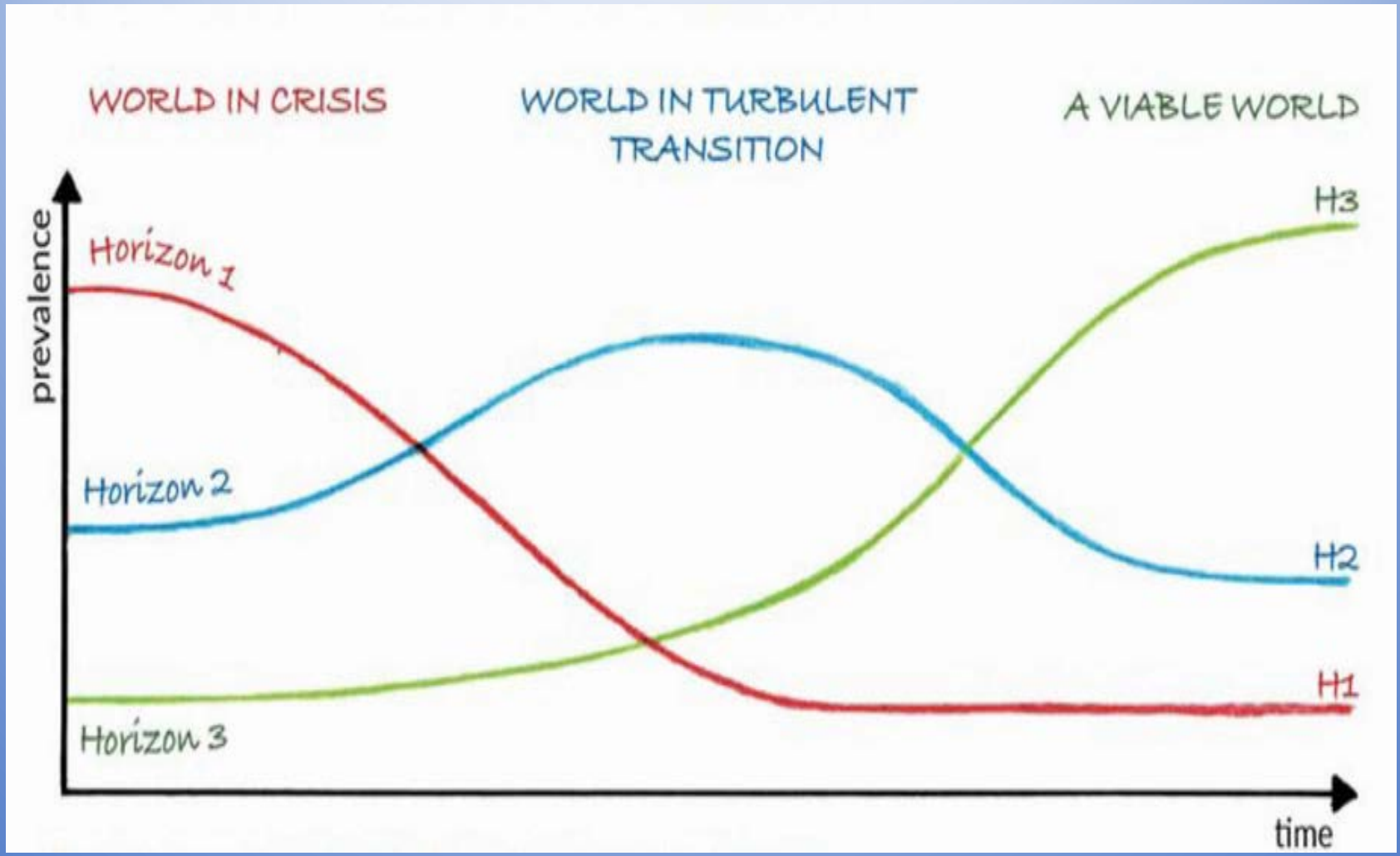
Making Ecological Civilization Real

Practical Steps toward Transformation

Presented by Lisa Ferguson & Jeremy Lent

The Three Horizons Model



Source: *Designing Regenerative Culture* by Daniel Christian Wahl. Triarchy Press.

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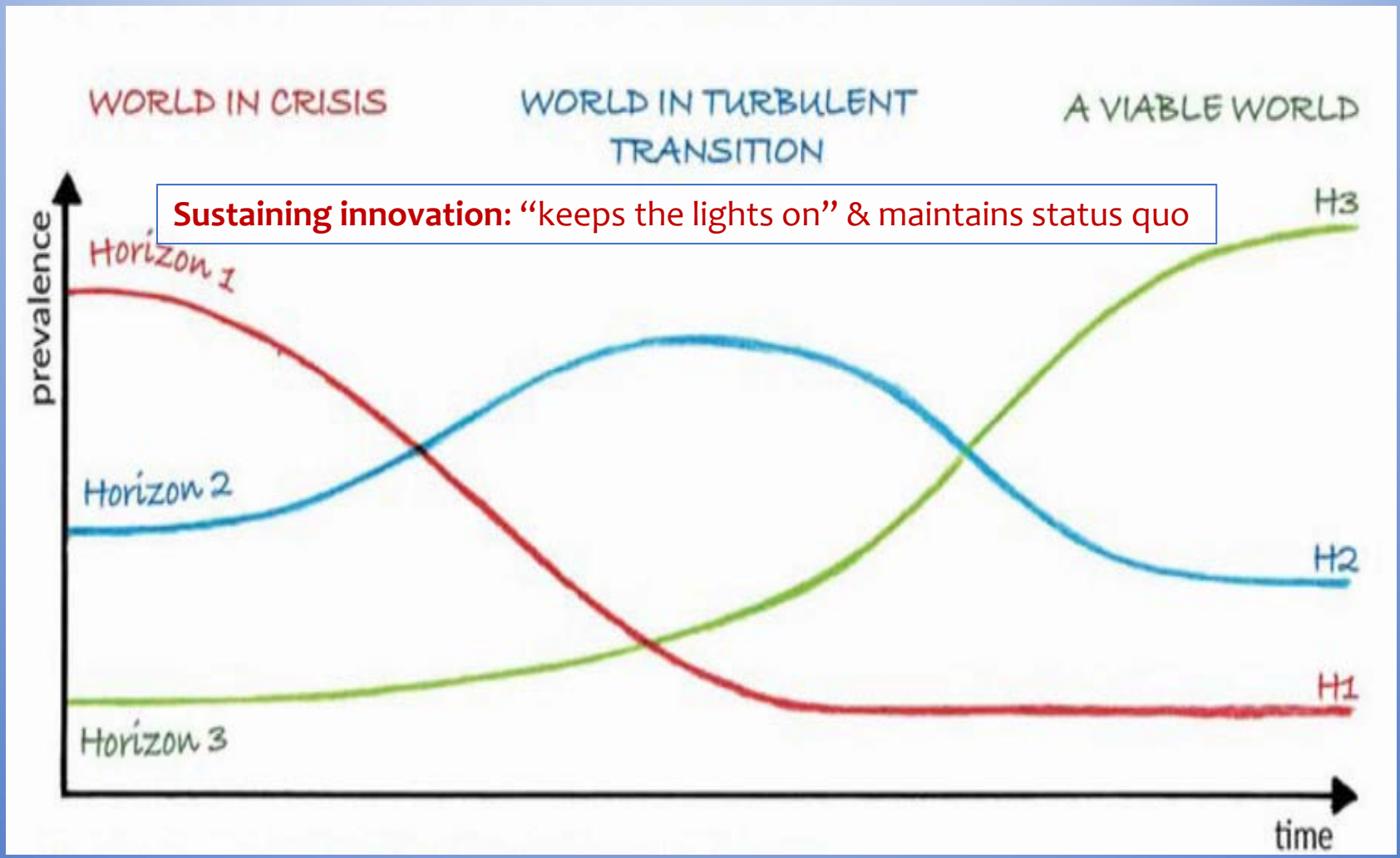

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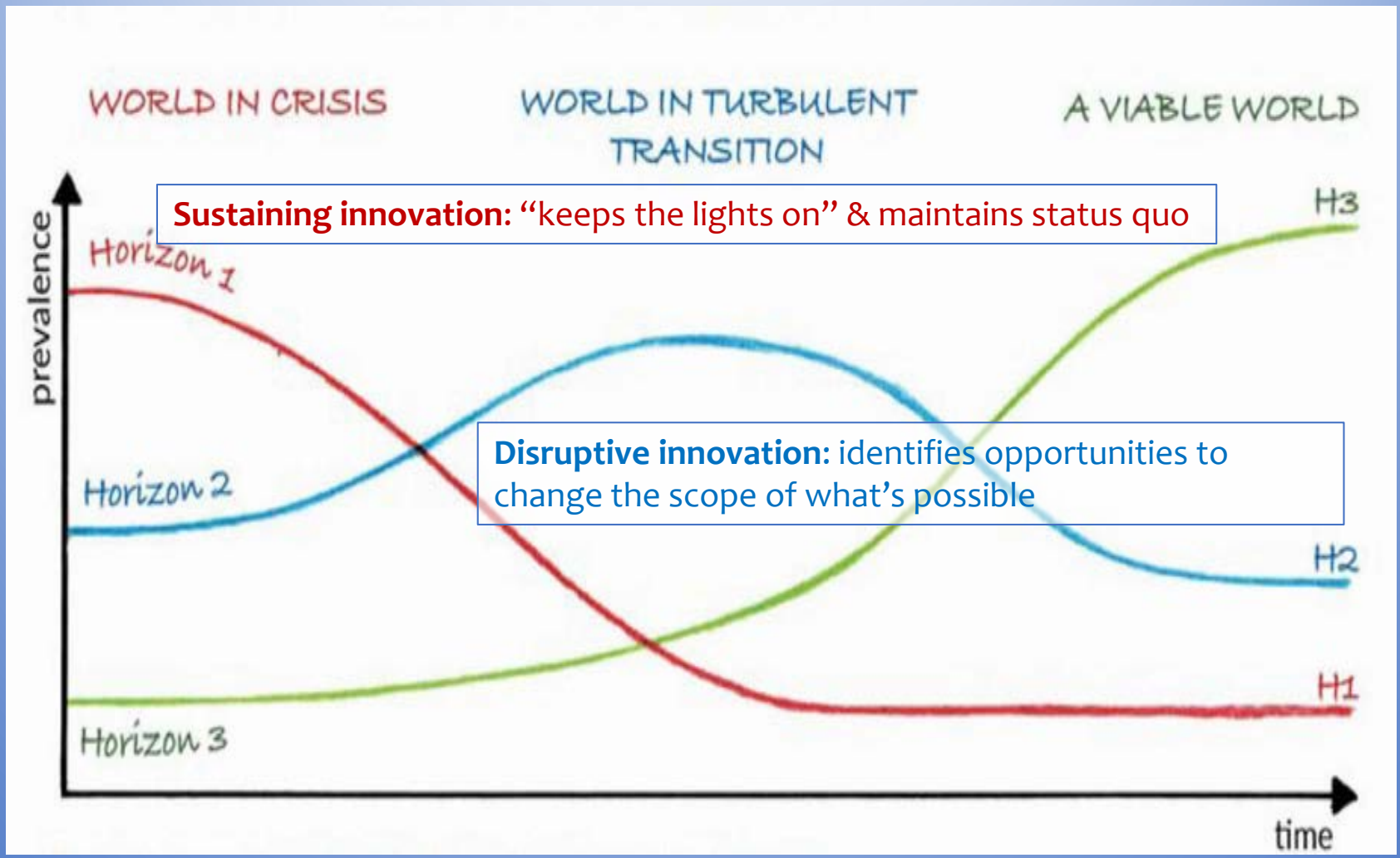

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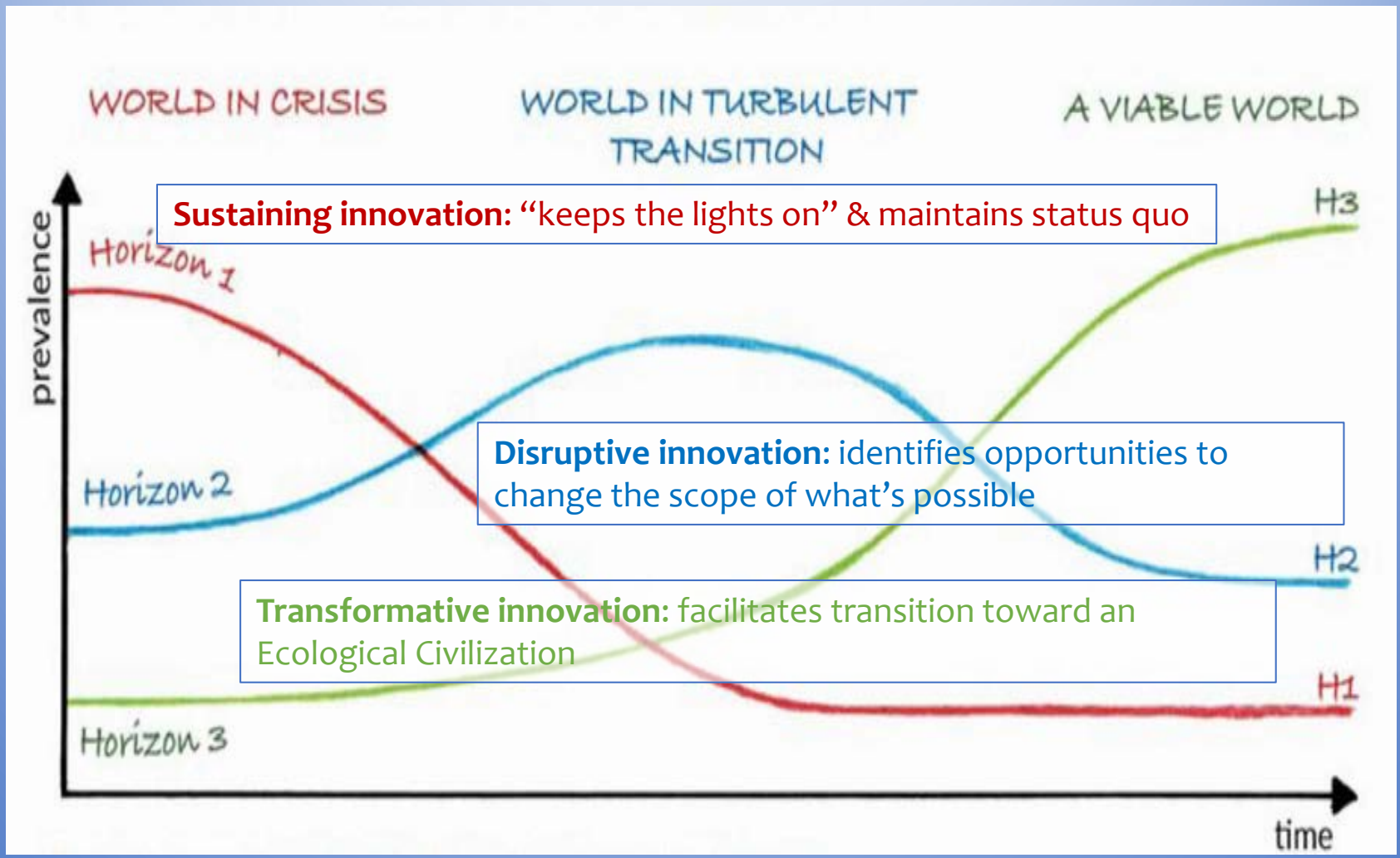

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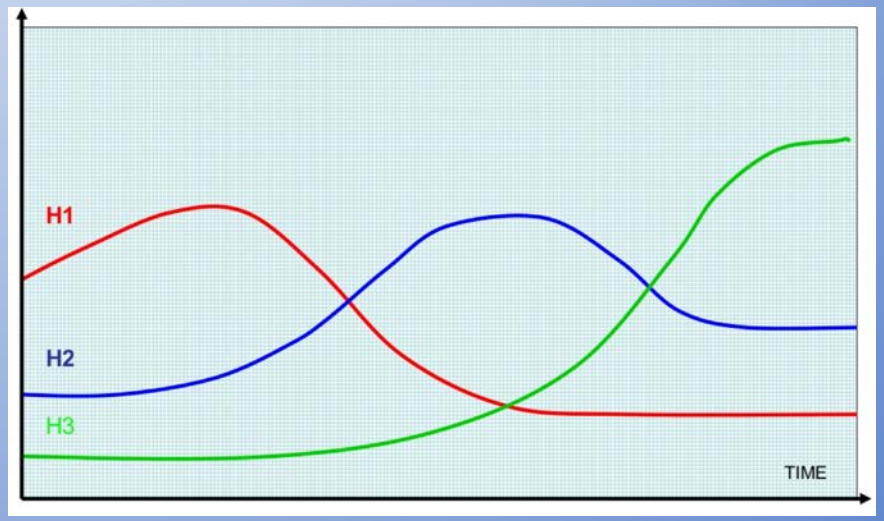
The Three Horizons Model

NEWARK AIRPORT TERMINAL 4

The Three Horizons Model

NEWARK AIRPORT TERMINAL 4

WHICH HORIZON?



The Three Horizons Model

TESLA ELECTRIC VEHICLE

RANGE 250+ MILES

The Three Horizons Model

TESLA ELECTRIC VEHICLE

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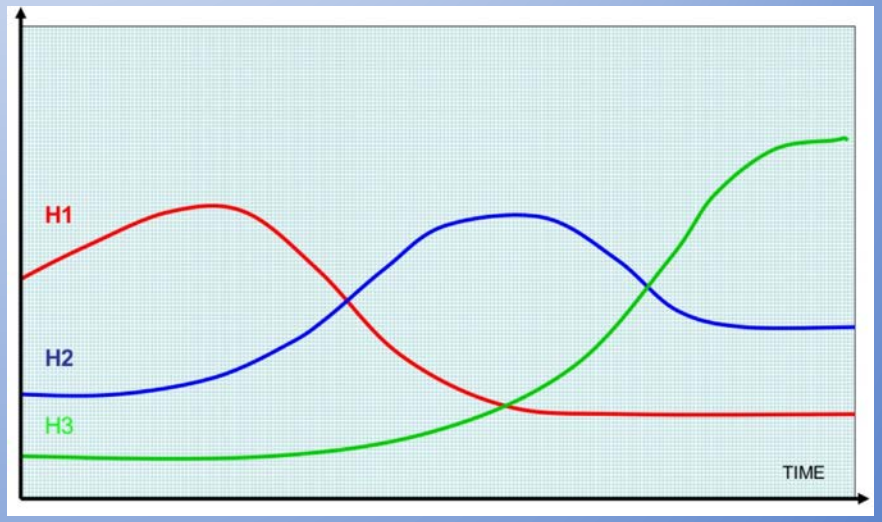


The Three Horizons Model

ECO-SENSE RESIDENCE

VICTORIA, BC, CANADA

- Net-zero energy basis
- Net-zero water basis
- No “red list” chemicals
- Meets requirements related to:
  - ✓ Place
  - ✓ Health & Happiness
  - ✓ Equity
  - ✓ Beauty

Jason McLellan: Living Building Challenge, Int’l Living Future Institute

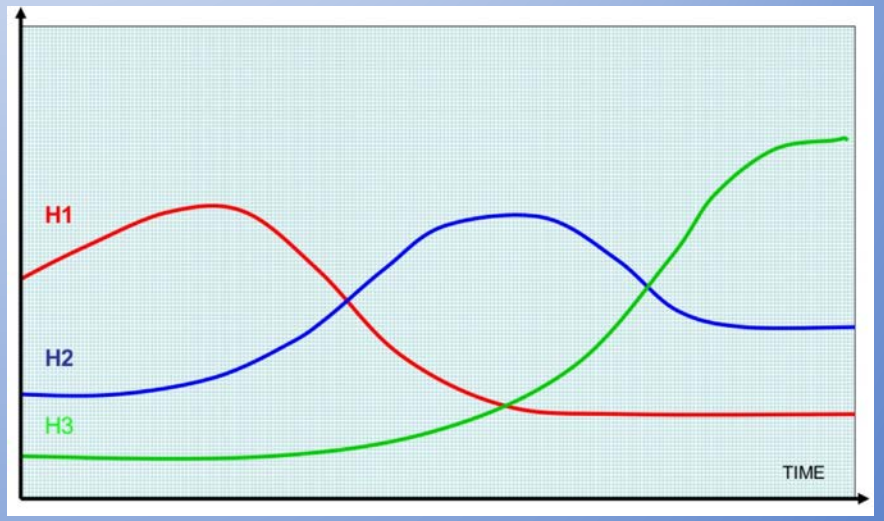
Source: Green Building Advisor, May 29, 2014
https://www.greenbuildingadvisor.com/article/yes-the-living-building-challenge-is-overreaching

The Three Horizons Model

ECO-SENSE RESIDENCE

VICTORIA, BC, CANADA

WHICH HORIZON?



The Three Horizons Model

ECO-SENSE RESIDENCE

VICTORIA, BC, CANADA

WHICH HORIZON?

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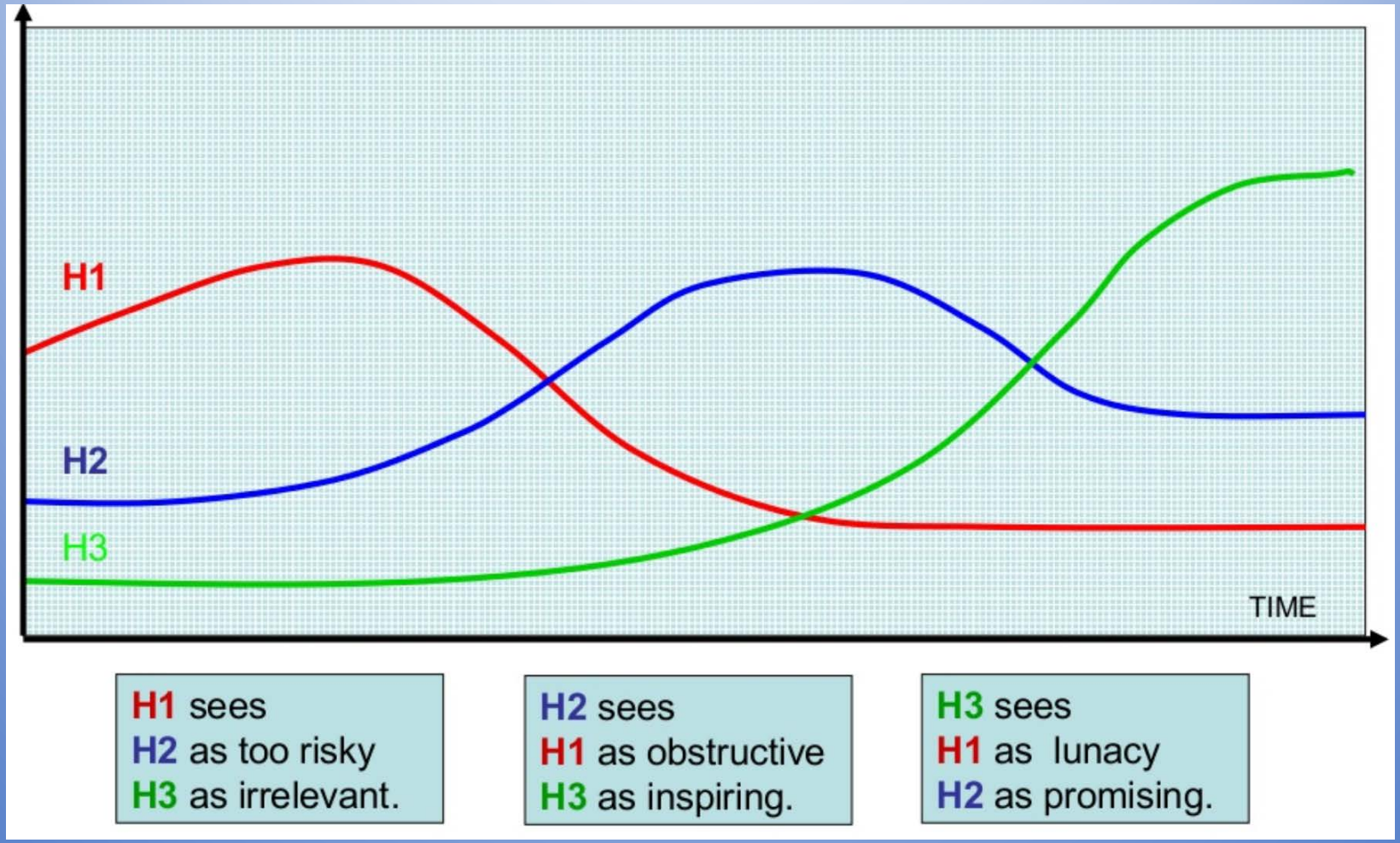
David Hicks | May 30, 2014 11:56am | #2

why should we be overreaching?

I don't think setting near-impossible standards for exceptional buildings is particularly hard or particularly useful. At what point does the standard become good enough? After all, you can always add more insulation and more PV panels (or better wastewater treatment, or whatever). What *is* hard and useful is creating guidelines to help people decide where each marginal dollar is best spent. When you do that, you can make cost an independent variable and you maximize the quality of every house, regardless of the budget.

The Three Horizons Model

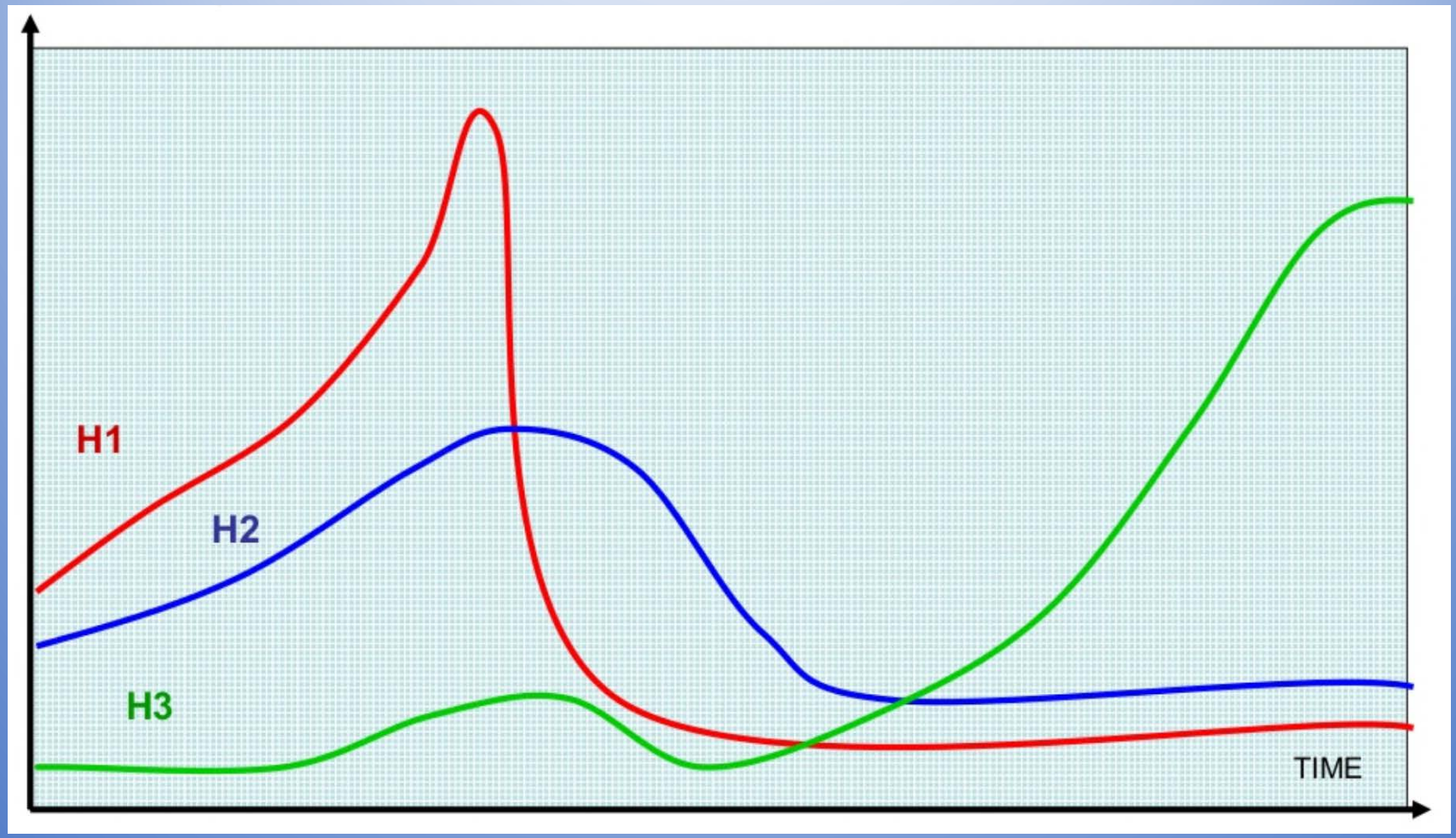
DIFFERING PERCEPTIONS



Source: International Futures Forum. https://www.slideshare.net/grahamiff/iff-three-horizons-slides

The Three Horizons Model

COLLAPSE (AND RECOVERY?)



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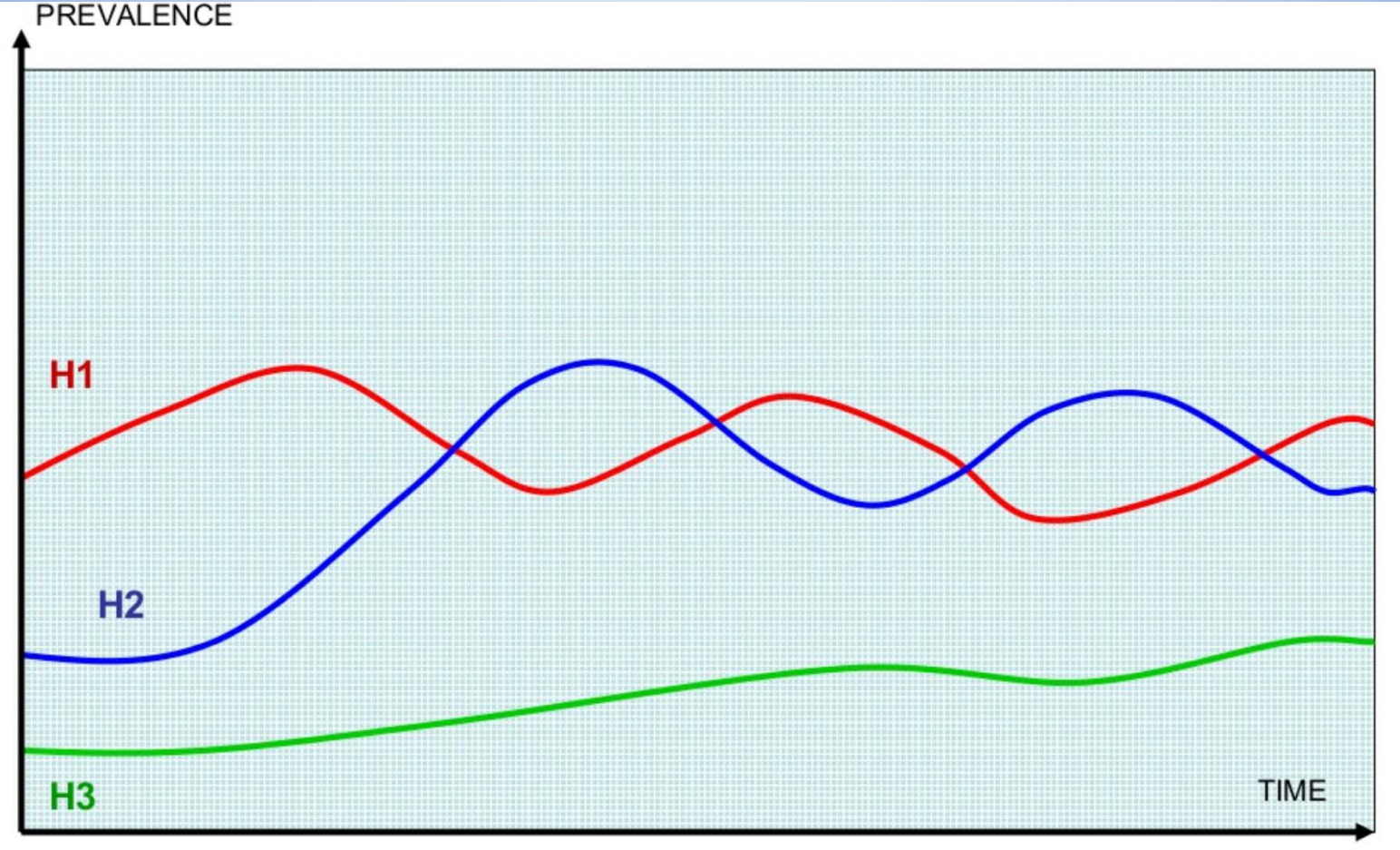
The Three Horizons Model

KICKING THE CAN DOWN THE ROAD



Source: International Futures Forum. https://www.slideshare.net/grahamiff/iff-three-horizons-slides

Green Memes No. 3

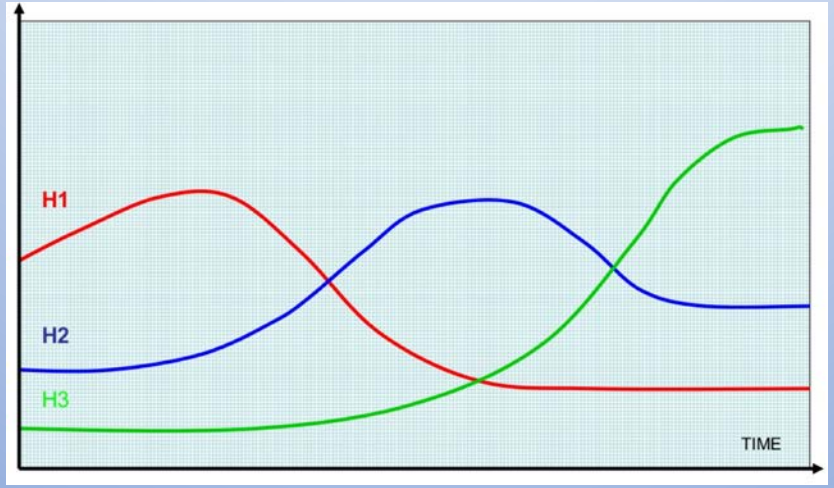
Construction and the web of life – *building connectedness*

Lenny Antonelli and Andrew Simmonds **May 2019**

AECB building knowledge

WHICH HORIZON?

- Building standards/ certifications, e.g. Passivhaus, EnerPHit, Irish Green Building
- Putting a monetary value on ecosystem services provided by Nature



- More responsible materials sourcing
- New models of co-housing & communal living

- Architects and city planners designing opportunities for engagement with nature

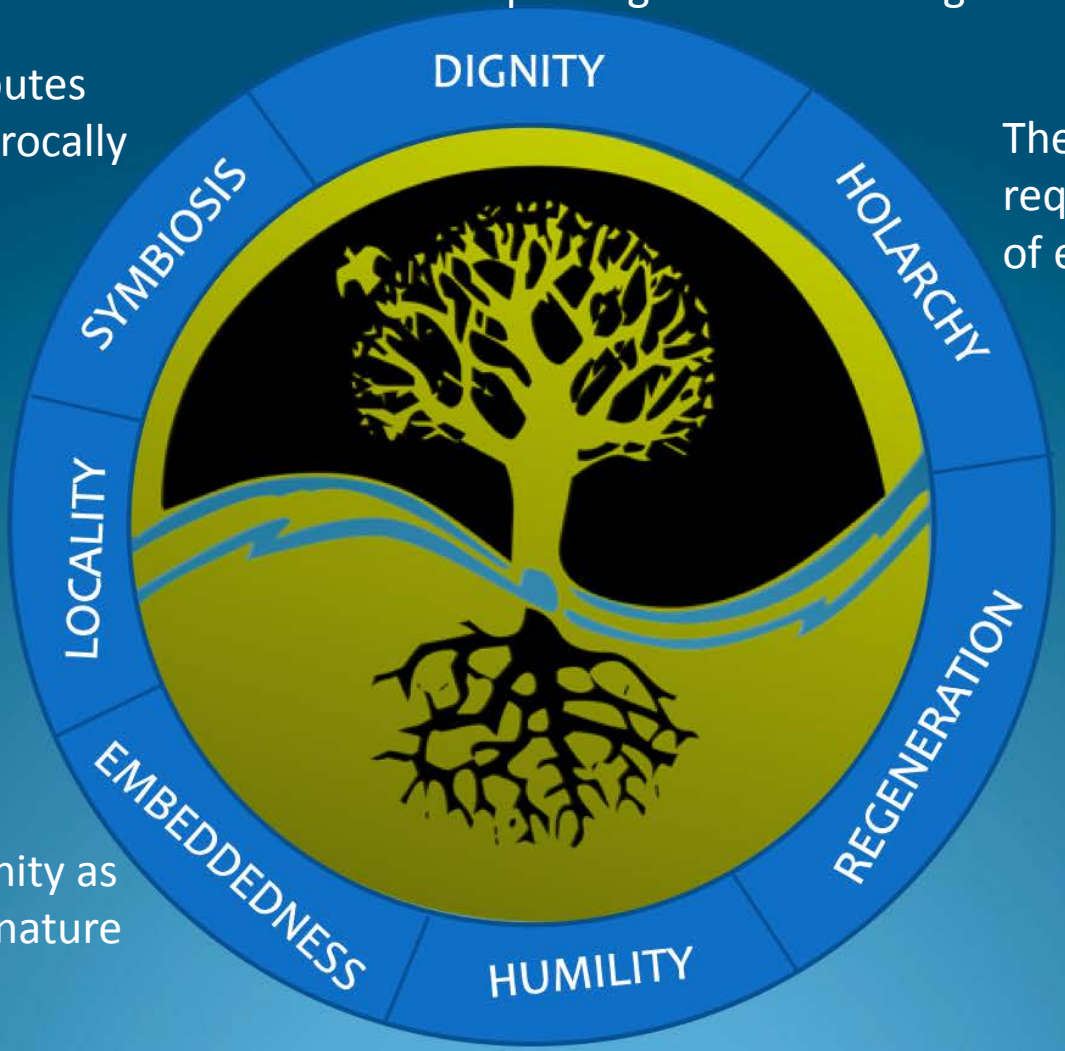
- Designing a building so:
  - Nature is the musical score
  - Occupants are the audience
  - The building is the instrument

Principles of an Ecological Civilization

Respecting the inherent right of each person

Each party contributes and receives reciprocally

The health of the whole requires the flourishing of each part



Communities connect with the land rather than global flows

Sustainable flourishing into the long-term future (*seven generations principle*)

Recognizing humanity as embedded within nature

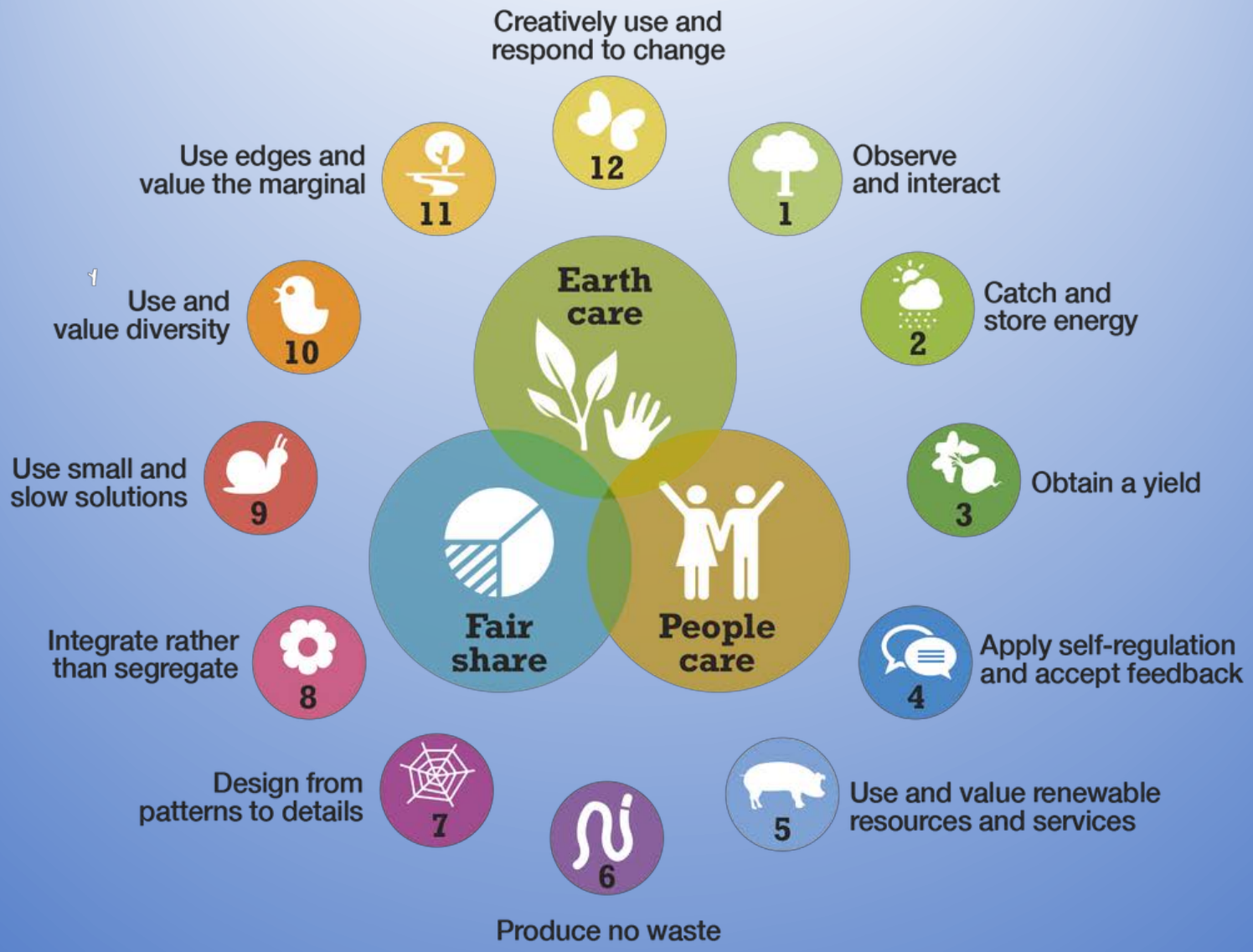
Recognizing the unpredictability of complex systems

Third Horizon Checklist

- **Q** Do we really need this new design?
- **Q** Is it ethical to produce, market and consume the new design in the intended way?
- **Q** What impact does the design have on the community that produces or employs it?
- **Q** Is it really safe to make and use the proposed design?
- **Q** Is it fair? (Does it contribute to greater social, economic and ecological equity without any form of exploitation?)
- **Q** Is it designed to be repairable and can it be reused over a long period?
- **Q** What is the full cost over its expected lifetime in terms of social, ecological and economic capital?
- **Q** Does this new design truly offer a better way to meet certain needs than already existing designs?
- **Q** How can we ensure that the proposed design does no harm *and* actively helps to restore damage already incurred – regenerating our capacity to meet an unpredictable future with community resilience?
- **Q** How does the design actively reinforce our lived experience of a regenerative culture and the 'narrative of interbeing'?

Source: *Designing Regenerative Culture* by Daniel Christian Wahl. Triarchy Press, p. 134.

PERMACULTURE PRINCIPLES



Every Element Supports Many Functions. –

How many functions can we get from every element we include in our plans? Choose each element in a system and place it so that it performs as many functions as possible.

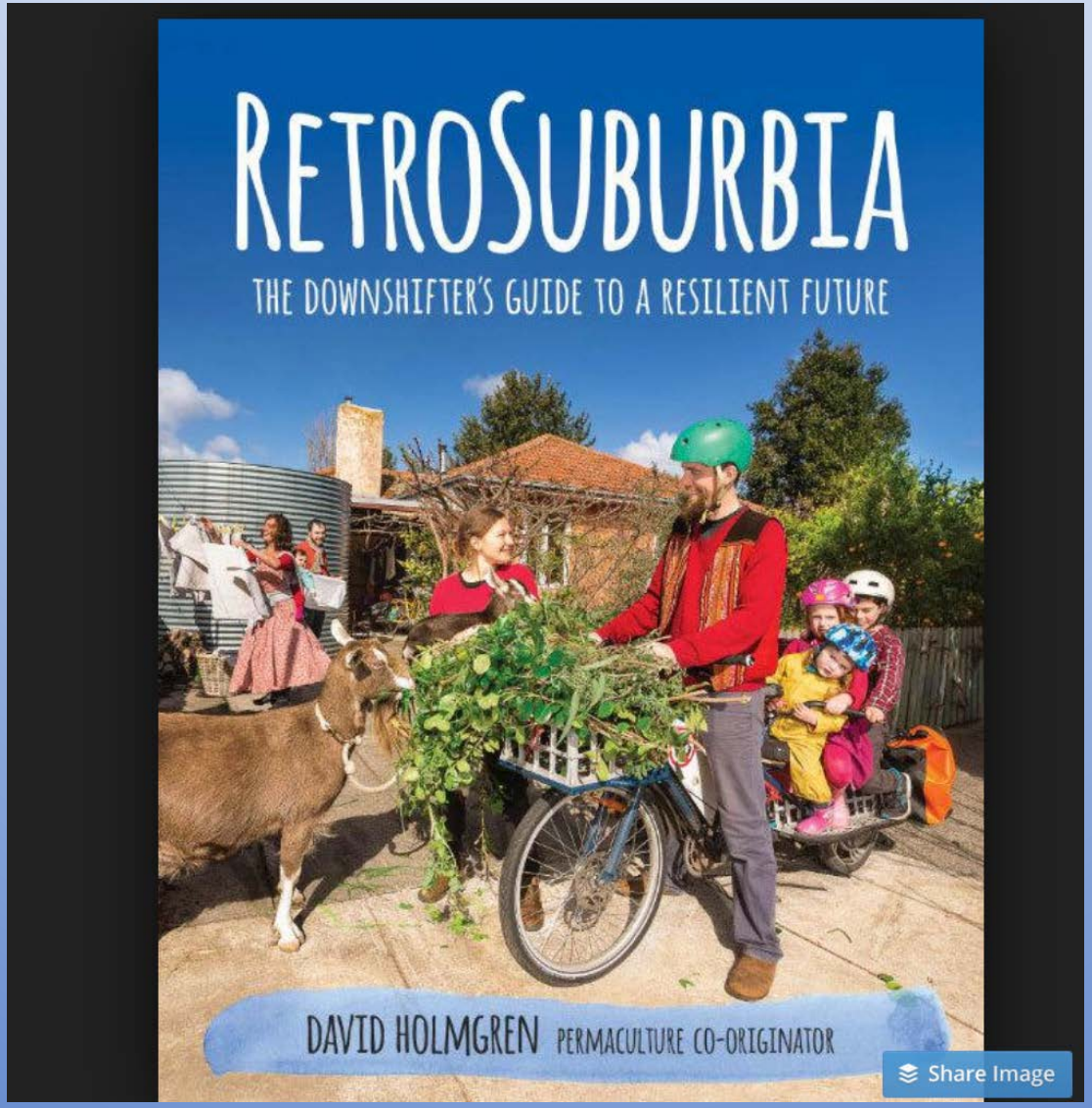
Ex.: A pond provides cooling, supports ducks, fish and aquatic plants, thus creating a richer habitat.

It also catches rainfall, which can be used for irrigation, fire protection or domestic household water.

The clay dug from the pond can be used for building structures such as buildings, walls, benches, ovens and plaster finishes.

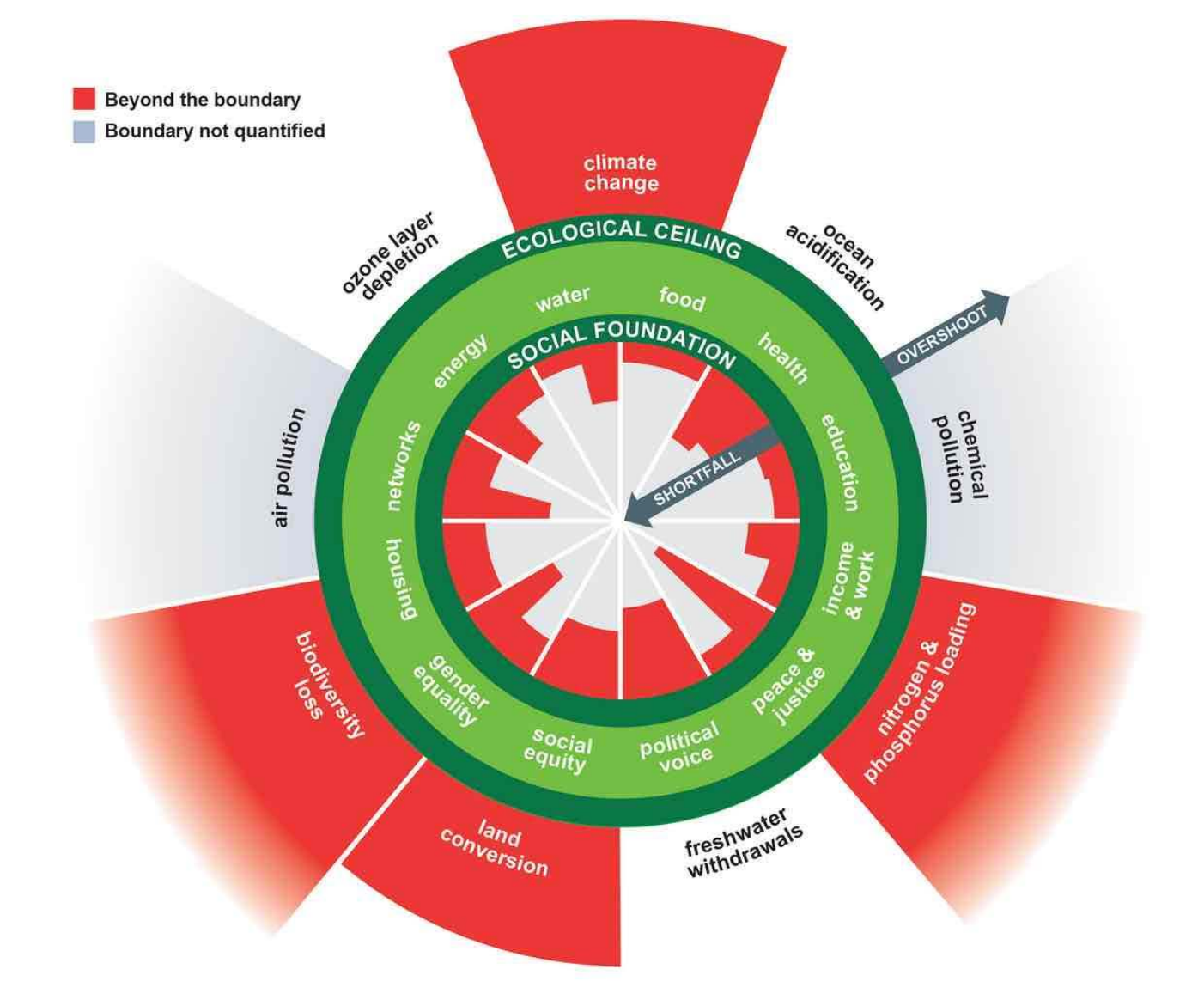
A berry hedge serves as food, fence, wildlife and domestic animal forage as well as pollen for bees to make honey.

Retrofitting Suburbia



Source: *RetroSuburbia* by David Holmgren, Permaculture co-originator

Doughnut Economics



Source: *Doughnut Economics* by Kate Raworth

Retrofitting Suburbia

Source: Strong Towns https://www.strongtowns.org/journal/2016/7/20/resilient-suburbia