



SYSTEMS THINKING WEBINAR

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AGENDA

- Introduction to Systems Thinking and relevance to Efficiency for Access Design Challenge
- Introduction to 3 Horizons Model
- Nidhi's Story Indian Farming Sector
- Group Activity 1
- Case Studies of innovative technologies
- Group Activity 2
- Questions

WHAT IS SYSTEMS THINKING?



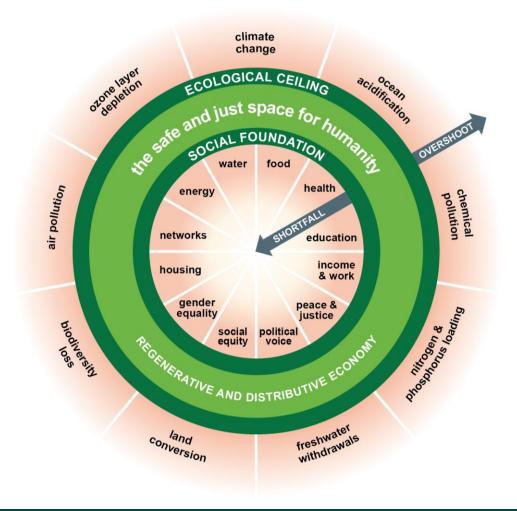
WHAT IS SYSTEMS THINKING?

- A problem-solving approach that views a problem as part of an interconnected system rather than a single issue.
- Allows for deeper insights into complex challenges and identify sustainable and scalable solutions over the long term.

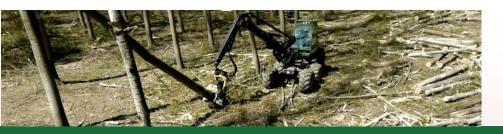


Relevance of Systems Thinking to Efficiency for Access Design Challenge

- The challenges facing off-grid communities are complex and interconnected.
- Teams are expected to produce holistic solutions that consider the full life cycle of a product, including design, production, usage, and disposal.
- Underlines the value of collaboration between suppliers, designers, engineers, community stakeholders, and the environment.



RECAP: Doughnut Economics – Understanding the connection between people and the planet.



BIODIVERSITY LOSS

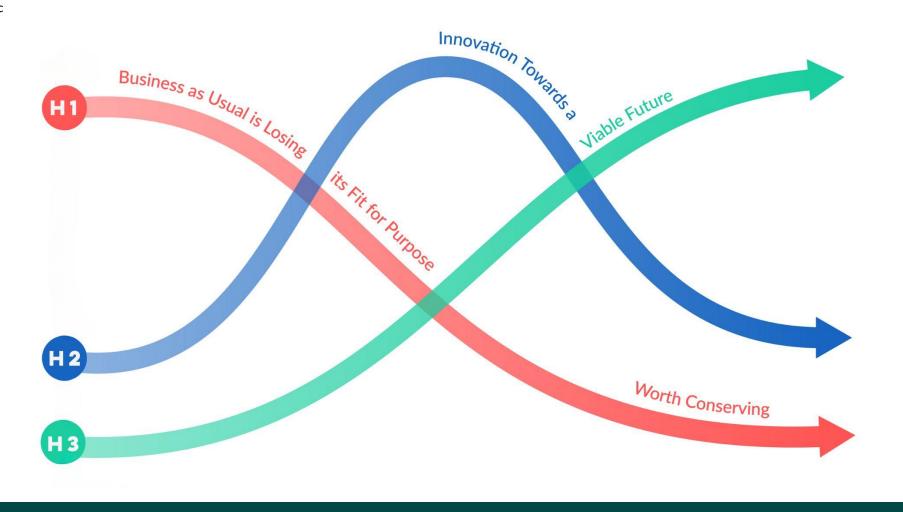




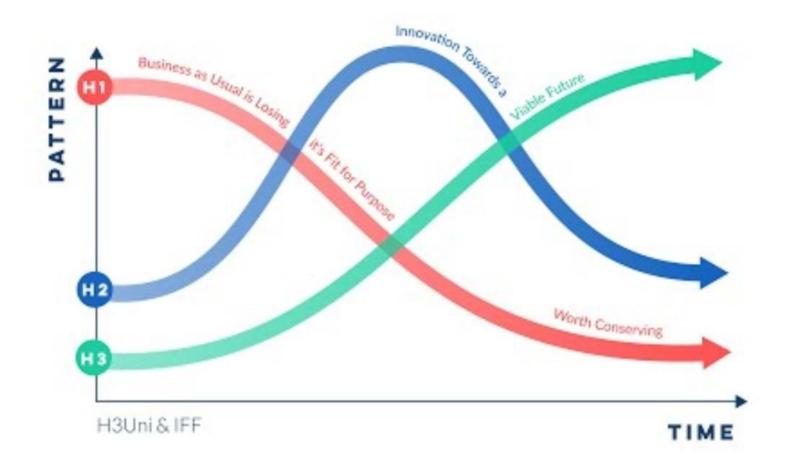
FOOD SECURITY



Doughnut Economics – Understanding the connection between people and the planet.



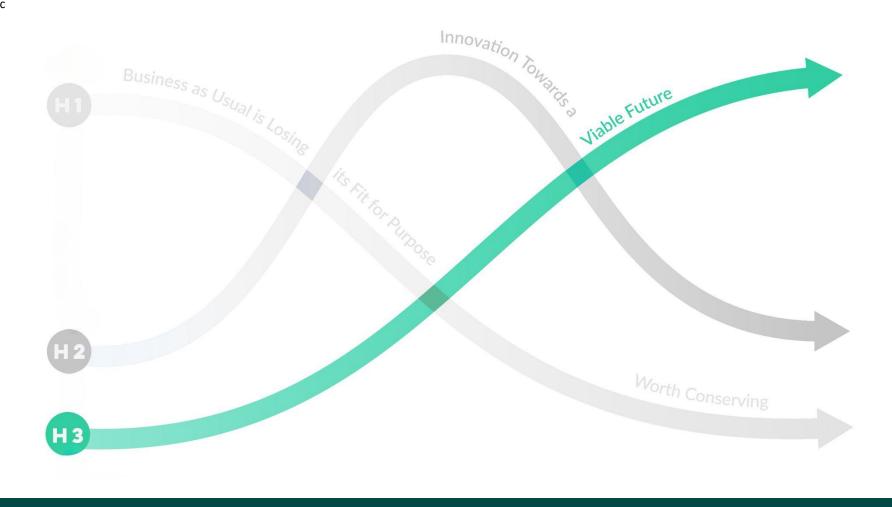
Three Horizons Model to illustrate the journey to a more sustainable future.



Three Horizons Model to illustrate the journey to a more sustainable future.



Nidhi's vision for the Indian farming sector: H1 and H3 (Business as usual & Viable Future)



Three Horizons Model – Horizon 3

- What are the biggest problems with 'business as usual' within your target market's context?
- What is your vision? (Don't talk about your solution!)
 - E.g. In 'X' years-time, all farmers in 'Y' region will use 'Z' technology.

ACTIVITY (10 minutes)

Discuss in break-out rooms, then whole group discussion (be prepared to feed back!)

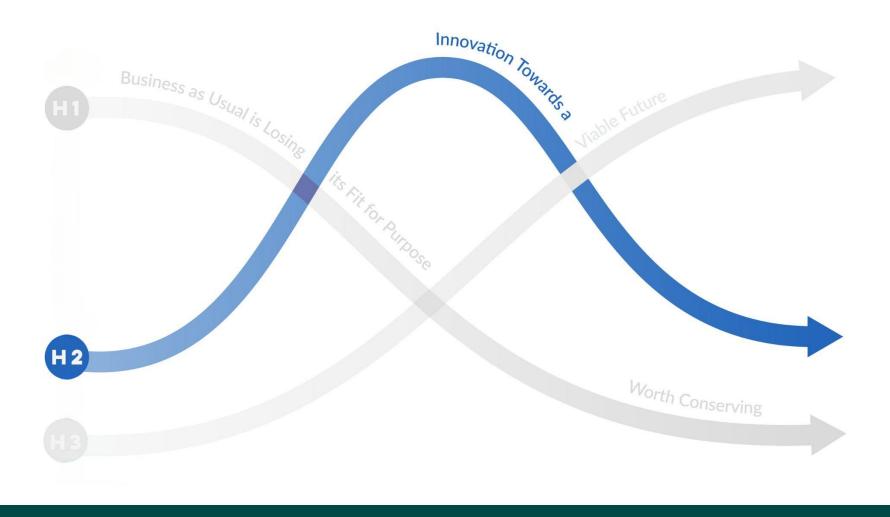
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GROUP DISCUSSION

CASE STUDY: Pesticide Spray Drones versus Regenerative Farming



- Pesticide Spray Drones (H2-):
 - Innovative, but backward-looking due to environmental contamination.
- Regenerative Farming (H2+):
 - McCain
 - Innovative ecosystem-based model, and forward-looking as it ensures long term sustainability.
- Is your solution forward looking?



Three Horizons Model – Horizon 2



Nidhi's vision for the Indian farming sector: H2 Transition Phase

- How can your idea contribute positively to the vision you discussed earlier?
- Is it holding onto the past / forward looking?

ACTIVITY (10 minutes)

Discuss in break-out rooms, then whole group discussion (be prepared to feed back!)

- How can your idea contribute positively to the vision you discussed earlier?
- Is it holding onto the past / forward looking?

GROUP DISCUSSION

- Any questions?
- Consider how your idea can contribute positively to society and the environment, in the short <u>and</u> long term.
- Think of how you can respectfully & appropriately understand your target market's vision.

Next Steps

SIGN YOUR TERMS AND CONDITIONS



FEEDBACK SURVEY





