





Systems approach to scaling

CGIAR week of science and practice of scaling agri-food system innovation

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Lennart Woltering CIMMYT @lennartwol



Eva Valencia CIMMYT @evalencia93



Ice breaker introductions

- Who are you, where do you work?
- What excites you about working on scaling?
- Are you interested in systems thinking approaches? If so, why?



Who are we?

Lennart Woltering

- MSc Civil Engineering- IWRM/ Hydrology
- 10 years CGIAR
- 10 years private consulting business
- 18 years Africa, Latin America, etc



Eva Valencia

- MSc Environmental Sciences, Policy and Management – Undergrad. In Law
- 10 years specializing in Sustainable
 Development
- Water-Food-Energy Focus



ToC to increase impact CGIAR

Learn

- Understanding role of projects and researchers in scaling
- How do researchers deal with scaling in practice
- Scaling as a lens to assess cross-regional work

Learning networks: Scaling CoP, GIZ/CGIAR, SysInnovation, Doughnut Economical

Design

Scaling Scan, Scaling Pyramid, Digital, etc.

Advise

Proposals, steering committees, CoPs and ad-hoc support

Action

Scaling expert in bilaterals and Initiatives







journal homepage: www.elsevier.com/locate/ags/

Scaling - from "reaching many" to sustainable systems change at scale: A critical shift in mindset



Woltering L.a,*, Fehlenberg K.b, Gerard B.c, Ubels J.d, Cooley L.e

L. Woltering and M. Boa-Alvarado, 2021. Insights on scaling of innovations from Agricultural Research for Development: views from practitioners Knowledge Management for Development Journal Online First

Agricultural Systems 180 (2020) 102792

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journal homepage: www.elsevier.com/locate/ags/





Scaling Scan



- Anyone can make sense of scaling in their own context
- 3 A's"
 - Accessible (Spanish, French, English),
 - Accessible (no jargon, workbook, 17 pages),
 - Accessible (experience based)
 - → Sustainable scaling depends on, and impacts, local actors...let them decide what is good, bad, enough, too much, etc
- Designed to convey three lessons: 3 C's
 - Context is King,
 - Core innovations need supporting innovations,
 - Collaboration is critical- we are a piece of the puzzle



The Scaling Scan



Innovation

X

Context



6. Knowledge and skills

Rapid assessment of how "enabling" the context to reach the scaling ambition is?



Assess the 10 scaling ingredients



Break it down into systems

☐ Influence

we can:

☐ Interest



Identify bottlenecks and opportunities

Define a scaling ambition

2

Where are we now?

- Manuscript: 5 years experience with the Scaling Scan
- Network of trainers, <u>www.scalingscan.org</u>
- Solution focused→ doesn't do justice to complex, systems nature of SDGs
- Go beyond: Scaling in 2017 = Transformation in 2022 → learnings





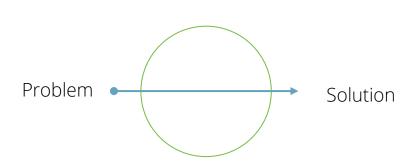
A systems perspective on scaling





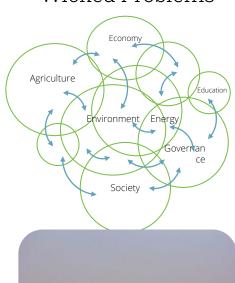
Insight 1: Don't address wicked problems with Quick fixes

Tame Problems





Wicked Problems



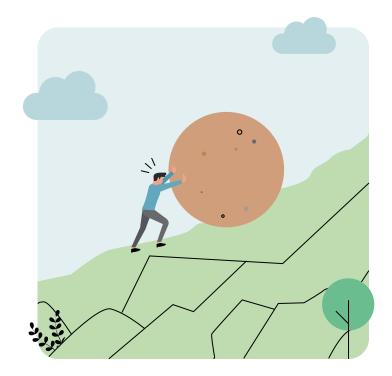




Insight 2: Systems always work

 Recognize that "problems" we perceive are a result of a system working perfectly well

(unsustainable systems with a business-asusual goal ⊕).





Example Land Restoration in Central America



EVENTS

What just happened?

PATTERNS

What has been happening over time?

Underinvestment in R&D

Insecure land tenure

RUCTURE

What policies, laws, physical structure nce the patterns?

MENTAL MODEL

Policies give away control over nat resources



Exploitation

What are the mindsets, values and assumptions?

Economic inequality





Example Land Restoration in Central America



Land Restoration

EVENTS

What just happened?

PATTERNS

What has been happening over time?

Better crop yields, water security, safe and healthy environments

Community governance

Multi-stakeholder platforms

Underinvestment in R&D

Exploitation

Insecure land tenure

RUCTURE

What policies, laws, physical structure nce the patterns?

Policies give away control over nat resources

MENTAL MODEL

Consumption

What are the mindsets, values and

Economic inequality

assumptions?

Linking social with environmental degradation

Youth groups







 Scaling becomes a result of a better system



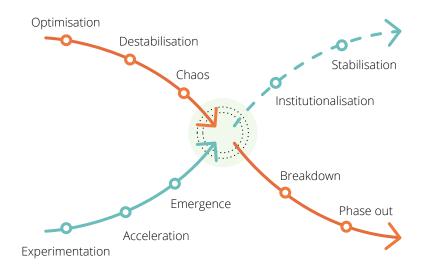


Scaling can also be the lever!



Some things have to die for others to live

- Bias for novelty to solve problems
- Investments in "scaling down", phasing out and ex-novation?



Time to Put the Fossil-Fuel Industry Into Hospice

If humanity is to survive the climate crisis, we must manage a just and orderly transition away from fossil fuels. The correct models for this resolution are triage, euthanasia, and hospice.

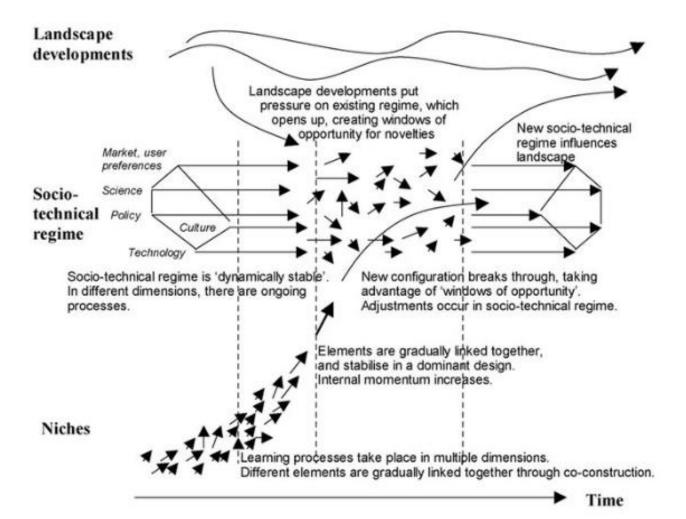
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By Andrew J. Hoffman & Douglas M. Ely $\,\mid$ Fall 2022



How does change actually happen?

Multi-Level
Perspective
(Frank Geels)



We are the system Mindset & paradigm shift

Solving

Solutions

Testing and demonstration

Experts

Attribution

Direct beneficiaries

More is better

Ego

(Semi-) controlled env.

Short term

→ dis-solving a problem

→ responses

→ exploring, searching and learning

→ multi-actor alliances across society

→ contribution

→ indirect beneficiaries

→ responsible/ optimal scale

→ Eco (ecosystem of actors)

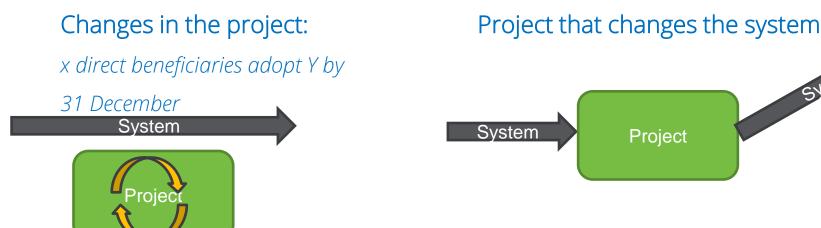
→ real-life societal context

→ long term



Systems thinking for collective action

- Not how to scale "my" innovation asap but→ how to address multiple PAIN and LEVERAGE points in the system
- Not a project problem, but → a social problem that breeds social
 movements for change of power, relationships and mindsets.... including our
 own...



Systems thinking for collective action (cont'd)

- No short-term window-dressing but → addressing deeper systemic causes
 of the problem and building a solid foundation for a range of solutions for
 the future
- A better system will produce better results...



System Scan

A practical tool on how to change systems for sustainable development

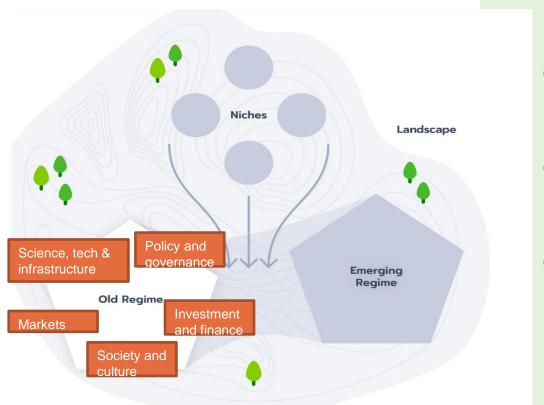
- Recognize complex systemic nature of big problems holding it in place
- Use systems thinking approaches and tools
- Focus on the societal change

Inspired/ complementary to the Scaling Scan

- Accessible → 3 days, 3 hours, 30 minutes / Self-Assessments
- Actionable and Responsible
- Links to other tools

Scaling of innovations is a practical way for organizations to influence the system, if it is part of a bigger "system change strategy"

System Scan



- STEP 1: Understand the current regime
- STEP 2: Imagine the emerging regime
- STEP 3: Support the change



Q&A Plenary

 How can CGIAR integrate complex systems thinking approaches more effectively for food and agricultural systems transformation?

What should the System Scan be able to do to contribute to this?

 Do you actively want to contribute to the development of the System Scan?



Thank you!

Please connect with us

TWITTER

WEBSITE

- :

E-MAIL

www.cimmyt.org /scaling

@lennartwol

l.woltering@cgiar.org
e.valencia@cgiar.org



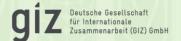
 $\underline{www.scaling community of practice.com}$

#scaling CoP

SCALING SCAN TOOL







Addressing institutional obstacles to systems approaches

- Develop and strengthen understanding of systems thinking
- Build the evidence base
- Change our own mindset, organizational cultures, policies and procedures
- Engage donors to drive change
- Develop M&E for systems change
- Give room for collaboration with other stakeholders for common goals

