

# A SOCIAL SCIENCE AND HUMANITIES (SSH) APPROACH TOWARD THE FUTURE OF AGRIFOOD SYSTEMS

START HUB meeting: Future Agrifood Systems

Unfolding the future

June 30, 2023

Sunny Mosangzi Xu, Ph.D. Department of Organization Centre for Organization and Time





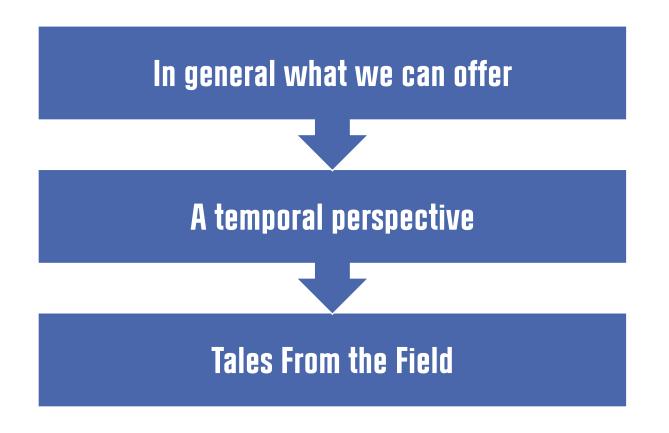








# A social science and humanities (SSH) approach



Centre for Organization and Time CBS





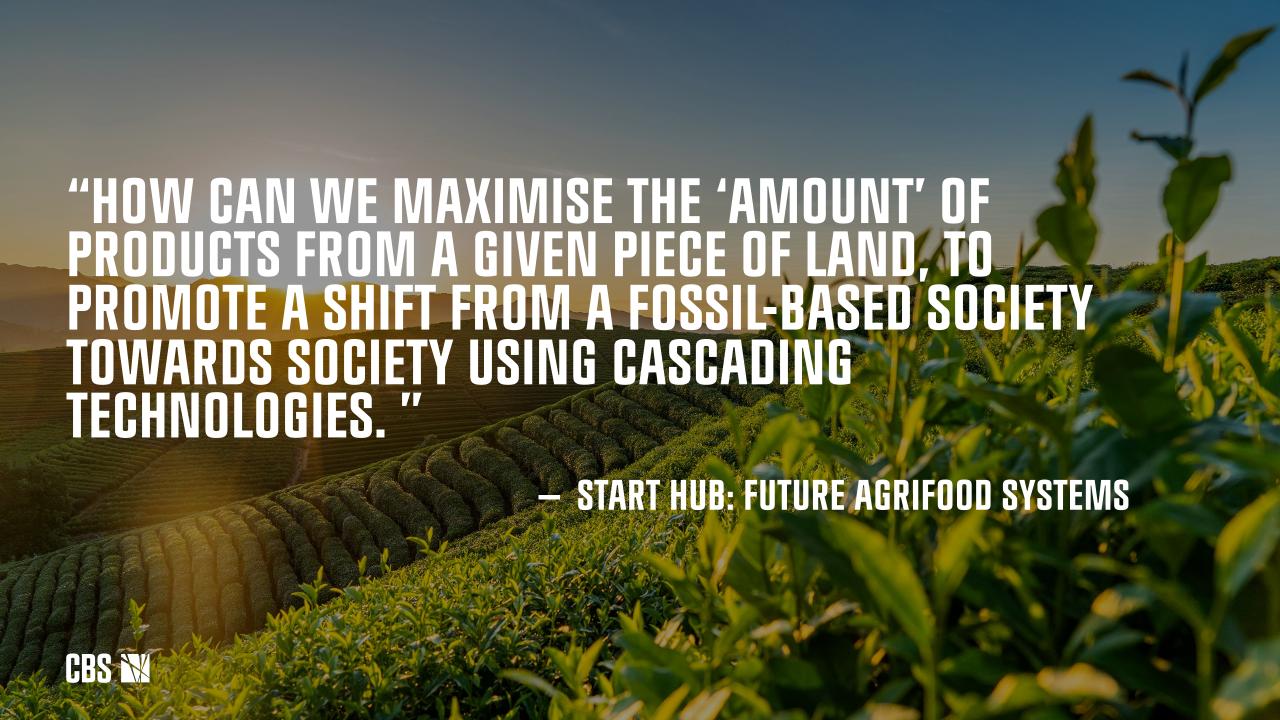








novo



# **Observed Two General Approaches to SSH and STEM Interaction**



### **Solution oriented**

How to better desigin solutions? How to make solutions being adopted?



**Opening the Black Box** 

What is going on here? What problems to tackle? What questions to ask?





"BEFORE ASKING HOW SSH CAN MITIGATE THE EFFORT OF TECHNOLOGICAL ADAPTATIONS TO SOCIAL CONDITIONS, SSH SHOULD ALSO BE EMPLOYED TO REFLECT, FRAME AND ANALYSE THE WICKED PROBLEMS BEFORE A TECHNOLOGICAL SOLUTIONISM APPROACH IS TAKEN."

- KLAUS SCHUCH

IN ATLAS OF SOCIAL INNOVATION: 2ND VOLUME - A WORLD OF NEW PRACTICE

HTTPS://WWW.SOCIALINNOVATIONATIAS.NET/FILEADMW/POF/VOLDINE-2/01\_SI-LANDSCAPE\_GLOBAL\_TRENDS/01\_20\_CONTRIBUTION-SOCIA



# Opening the black box of future

### Insights from the past and ongoing present

- How have things become? How are things unfolding?
- How did actors act? How are actors acting?
- How are things changing?
- How changes take place?

### **Projecting into the future**

- How can things become?
- How would actors act?

### **Future making**

- How things should be?
- How can we change for desirable futures?





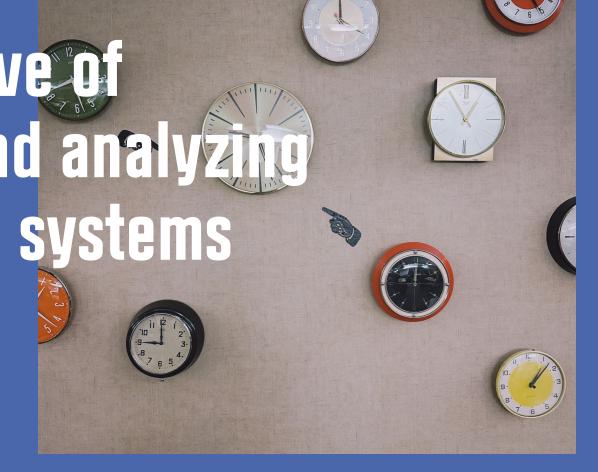


OR



# A Temporal Perspective of reflecting, framing and analyzing the future of agrifood systems

- Short-term and long-term
- Nature's time and sociological time





# **Short-term and Long-term**

**Balancing** between the short-term and the long-term through trade-offs

Risk: One becomes dominating, e.g., "short-termism"

**Separating** the short-term and the long-term for different purposes

Risk: Dysfunctional disconnections, e.g., R&D vs. Finance

**Bridging** the short-term and the long-term through ambidexterity

Risk: Development toward "middle-ground"

**Sustaining** the interplay between the short-term and long-term

How does the long-term make the short-term and, simultaneously, how does the short-term make the long-term?



# Nature's time and sociological time

# Social-ecological systems (Holling, 2001; Howard-Grenville & Lahneman, 2021)

- Interaction between the social and ecological systems
- How the ecological systems influence the social systems
- how the social systems adapt to the ecological systems

# Nature's time

• e.g., seasons, lifecycle

# Sociological time

• e.g., annual reporting, production routines, consumption routines

# Interplay between nature's time and sociological time

- Manipulating nature's time to fit sociological time
- Reconnecting sociological time with nature's time



# Tales from the field





# Many short-term goals and needs and one long-term goal with lots of unknowns

# **Solution oriented**

- What are the technical solutions to fulfill the longterm and/or short-term goals?
- What are the technical solutions to deal with the changing natural environment?



# Opening the black box

- How can technical solutions be designed to enable actors to sustain the interplay between the many short-term goals and needs and one long-term goal?
- How can technical solutions be designed to allow the agri-food systems to reconnect with the rhythm of ecological systems?





# THANK YOU FOR YOUR ALENTON

Sunny Mosangzi Xu, Ph.D.

smx.ioa@cbs.dk









