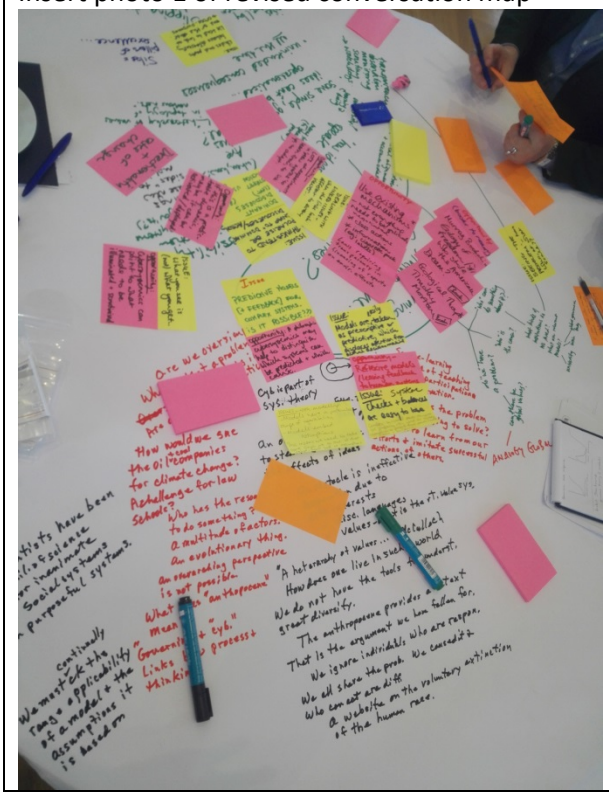
GOVERNING THE ANTHROPOCENE: CYBERSYSTEMIC POSSIBILITIES? SCHLOSS HERRENHAUSEN, 30-31ST JULY 2015 INQUIRY RECORDING TEMPLATE	
Table Number:	8
Participant Names	Sarah Cornell Tilman Hertz Francesca Iandolo (only participated the first day) David Rousseau Sandro Schlindwein Stuart Umpleby Sabine Weiland
Recorder Names: (PhD Students + others)	Jue Wang (PhD student)

DAY 1 Thursday 30th July

Please take a photo of your table group at some suitable point during day 1 or day 2 and insert at the end of the template.

INQUIRY 3 – At the end of this session have all *Issues* (I) and *Opportunities* (O) listed from sticky notes on conversation maps – take and insert photos (2) of sticky notes on conversation maps.	
ISSUES – List 1 Effectiveness of predictive models for complex systems is unknown 2 Things tend to polarise to the dominant discourses/actions 3 What you see is not what you get 4 Dealing with linked issues (when the links look different to every viewer) 5 Models are easily taken as prescriptive or predictive, which displaces attention from actual decision making 6 Checks and balances are easy to lose	OPPORTUNITIES – List 1 We can use the existing mechanisms, which means that not everything needs to be political negotiated 2 Laws requiring in transparency in financing of reports on environment effects 3 If this is a predictable dynamic, maybe it can be activated/deployed 4 Cybersystemics can point to what needs to be illuminated 5 A philosophies cybersystemics may help to distinguish which systems can be predicted and which cannot be
Insert Photo 1	Insert Photo2 (if not included in photo 1)

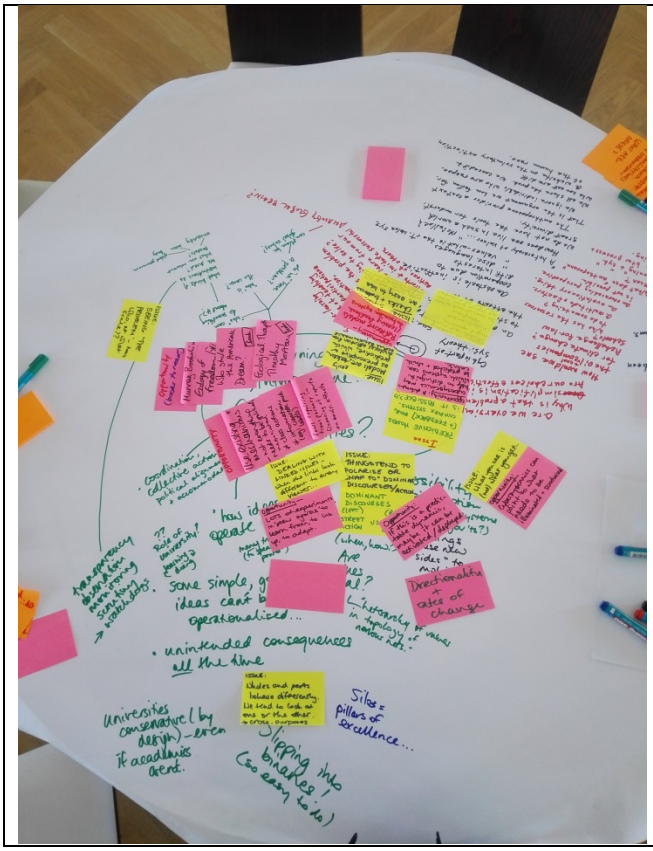
INQUIRY 4 – Update listing of Issues and Opportunities noting any changes to existing ones and adding new ones.	
ISSUES – list 1 Issue with modelling: models have a particular range; models embed assumptions (this means we need to take care when go out of that range, don't look at assumptions)	OPPORTUNITIES- list 1 Lots of experiments "new agoras" to learn from, to link up, and to adapt 2 Reflexive models (learning feedback to human systems open)
Insert photo 1 of revised conversation map 	Insert Photo2 (if not included in photo 1)

Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc

DAY 2 Friday 31st July

Please take a photo of your table group at some suitable point during day 1 or day 2 and insert at end of template

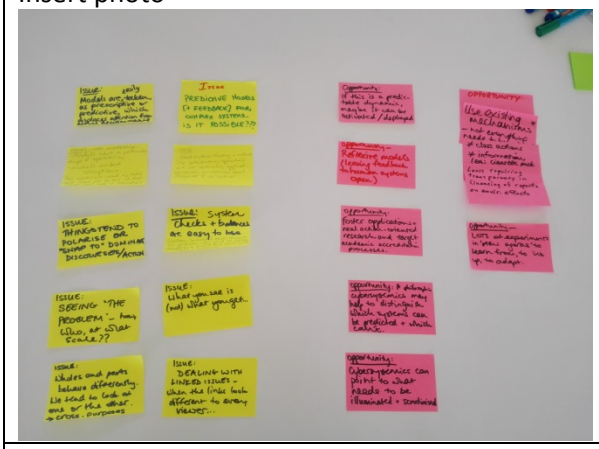
KEY REFLECTIONS ON DAY 1 + NEWS OF DIFFERENCE	
1. REFLECTIONS ON DAY 1 (list here) Knowledge issue, experts/people have knowledge are privileged or not?	
2. NEWS OF DIFFERENCE (list here):	
Hosts:	
Pair 1: Who have the knowledge? Who is the expert? Who got power? The rich and powerful decide unless society decides	
Pair 2: What level/scale works for consensus/cooperation? *Jump to conclusion too early* Chaos needs to be organised	
Pair 3: Add strength to environmental organizations to strengthen institutions	
3. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 Good system theory and methods (e.g. participatory approach) are not routinely applied because universities don't recognise it as "science" 2 Seeing "the problem"—how, who, at what scale? 3 Wholes and parts behave differently, but we tend to look at one or the other → cross purpose 4 Lack of integrated academic discipline centered on systems	OPPORTUNITIES- list 1 Foster applications and real action-oriented research and target academic accreditation processes 2 Change perception of what science is 3 Strengthen scientific foundations of systemology 4 Timing predictions is difficult, stability to instant is easier to see
Insert photo 1 of revised conversation map	Insert Photo2 (if not included in photo 1)

Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc
We are talking about system theory all the time, however, there exists no such “system theory”, it is just a series of approaches. So it gives us opportunities to development the theory itself. It is important that we focus on the theory itself.

INQUIRY SESSION 5: Update Issues/Opportunities and Reorganise

1. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 2 No Change 3	OPPORTUNITIES- list 1 2 No Change 3
Insert photo 1 of revised conversation map	Insert Photo2 (if not included in photo 1)

2. Photo of reorganised Issues and Opportunities on new sheet	
Insert photo 	
Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc	

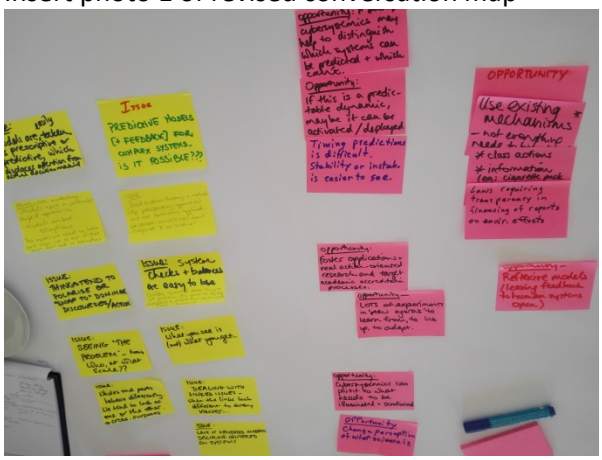
INQUIRY SESSION 6: Update Issues/Opportunities

1. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 2 No Change 3	OPPORTUNITIES- list 1 2 No Change 3
Insert photo 1 of revised conversation map	Insert Photo2 (if not included in photo 1)

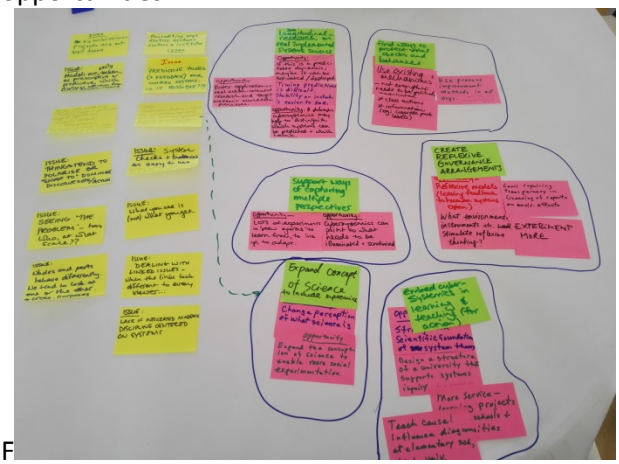
2. Photo of clusters of Issues and Opportunities on new sheet	
Insert photo	

Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc

INQUIRY SESSION 7: Formulating an actionable system

1. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 Accrediting organisations destroy systems centers and institutions 2 Big science projects are not well known	OPPORTUNITIES- list 1 Design a structure of a university that supports system inquiry (do a research on "wandwaver solution") 2 Experiment more 3 Expand the conception of science to enable more social experimentation 4 More service-learning project from school start with young people 5 Use process improve methods in all organizations
Insert photo 1 of revised conversation map  	Insert Photo2 (if not included in photo 1)

2. List of subsystems title and opportunities	
Subsystem title	*Opportunities in Subsystem*
Do longitudinal research to real implement systems sciences	Opportunities in subsystem 1 If this is a predictable dynamic, maybe it can be activated/deployed 2. Foster applications and real action-oriented research and target academic accreditation processes 3 Timing predictions is difficult, stability to instant is easier to see 4 A philosophies cybersystemics may help to distinguish which systems can be predicted and which cannot be
Support ways of multiple perspectives	1 Cybersystemics can point to what needs to be illuminated 2 Lots of experiments in "new agoras" to learn, to link up, and to adapt

Expand concept of science to include systemic	1 Change perception of what science is 2 Expand the conception of science to enable more social experimentation
Create reflexive governance	1 Reflexive models (learning feedback to human systems open) 2 What environment instruments stimulate reflexive thinking 3 Laws require transparency in financing on environmental reports 4 Experiment more
Embed cybersystemic in learning and teaching	1. Design a structure of a university that supports the systemic inquiry 2. Strengthen scientific foundation of system theory 3. More service-learning project in school 4 Teaching causal influence in elementary school
Find ways to protect vital checks and balances	1. We can use the existing mechanisms, which means that not everything needs to be political negotiated 2 Use process improve methods in all organizations
Insert photo of finalised set of subsystems and opportunities  F	

Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc

3. Voting on priority subsystems
Listing on priority subsystems 1. Expand the concept of science to include systemic 2. Embed cyber systemic in learning and teaching, education of the young people 3. Create reflexive governance 4. Find ways to protect vital checks and balances

5. Do longitudinal research in implemented system sciences
Insert photo of voting on systems map

Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations, interpretations novel insights which can help interpret voting

PLENARY – Reflections and Priorities

1. Reflections on your inquiry (please list) 1) Expand the concept of science to include systemic 2) Embed cyber systemic in learning and teaching, education of the young people 3) Create reflexive governance 4) Find ways to protect vital checks and balances 5) Do longitudinal research in implemented system sciences
2. A priority action relating to the subsystem receiving the most votes Reflexive governance Education in cybersystemic for yound people Longitudinal research
Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc

Please make sure you have taken a photo of your table group at some suitable point during day 1 or day 2

Insert table group photo here:

Insert photo of table group

** Please note: the PhD cohort will meet directly after

the end of day 2 for a short debriefing **

THANK YOU!