

**GOVERNING THE ANTHROPOCENE: CYBERSYSTEMIC POSSIBILITIES?  
SCHLOSS HERRENHAUSEN, 30-31<sup>ST</sup> JULY 2015**

**INQUIRY RECORDING TEMPLATE**

Table Number:	3
Participant Names	Dave Abson, Tibor Kiss, Katalin Hartung, Chris Blackmore, Thomas Fischer, Marty Jacobs, Nako Fa’au, Maria Kakoulaki (Day 1)
Recorder Names: (PhD Students + others)	Marty Jacobs and Nako Fa’au

**DAY 1 Thursday 30<sup>th</sup> July**

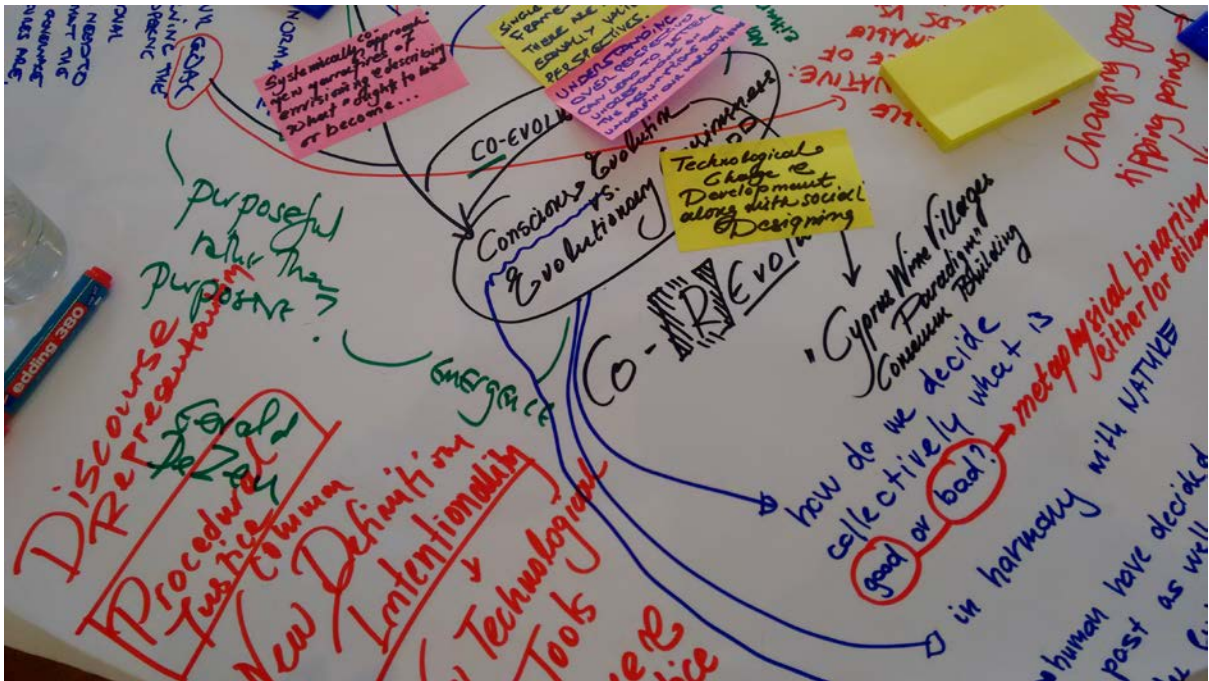
**Please take a photo of your table group at some suitable point during day 1 or day 2 and insert at the end of the template.**

<b>INQUIRY 3</b> – At the end of this session have all <i>Issues</i> (I) and <i>Opportunities</i> (O) listed from sticky notes on conversation maps – take and insert photos (2) of sticky notes on conversation maps.	
ISSUES – List 1 Technological change and development along with social designing 2 Normative science make judgement on states of the world a problem if these are unexplored and inform scientific models 3 Single problem frames because there are multiple equally valid perspectives 4. Polarized thinking and discussion is an issue because it limits our thinking and our options ...	OPPORTUNITIES – List 1 Systemically co-approach new narratives of envisioning and describing what ought to be or become... 2 We can understand our models of the world better if we know the normative assumptions that underpin them 3 Understanding over perspectives can lead to better understanding on the assumptions that underpin our world views ...
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 See above 2 3	OPPORTUNITIES- list 1 See above 2 3
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

The conversation started with circling the question mark at the end of the question and asking what is the alternative? Discussed a possible political perspective, one of competition vs. collaboration. What's our goal? What are we governing and who gets to govern? Evolution becomes [R]evolution becomes Co-[R]evolution. Freedom vs. independence: freedom offers more choices and opportunities due to connections; independence offers few because of lack of connections. Different world views are important to consider – can't just come in from outside and offer a solution; need local perspective. How do you scale up from local governance? Is it even possible? Justice – 4 parts: intra-generational, intergenerational, institutional, and procedural. Intentionality vs. reactivity: if we aren't intentional about what we do, then we are likely to be reactive. Polarized thinking limits possibilities. Normative assumptions help us understand models.

# DAY 2 Friday 31<sup>st</sup> 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): We jumped right into differences	
2. NEWS OF DIFFERENCE (list here):	
<ul style="list-style-type: none"> <li>• Critical reading of governance</li> <li>• Limits to participation</li> <li>• Accept local norms – scale?</li> <li>• Limits to governance</li> <li>• People learn from modelling</li> <li>• Re-politicizing science</li> <li>• More focus on Governance and legalities</li> <li>• What does anthropocene mean?</li> <li>• How to measure things and its limitations – measuring quality</li> <li>• Modelling the future</li> </ul>	
<i>Hosts: Marty and Nako</i>	
<i>Pair 1: Chris and Katalin</i>	
<i>Pair 2: Dave and Tibor and Maria</i>	
<i>Pair 3: etc</i>	
3. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 We need to bridge language differences 2 Language is an issue in developing our mutual understanding of governing and possibilities 3 What to govern? Because without this how do we govern? 4 Observing ourselves (to see what to do...not to block...) is an issue	OPPORTUNITIES- list 1 There is an opportunity to appreciate differences in use of language rather than assume “common” terms. 2 An opportunity to understand the present from “future” as well history (balance) (and not get swamped) 3 An opportunity to observe ourselves and understand our lenses in order to see what to do 4 To consider if we need to govern goals, process, or individual relations to humans and the environment
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

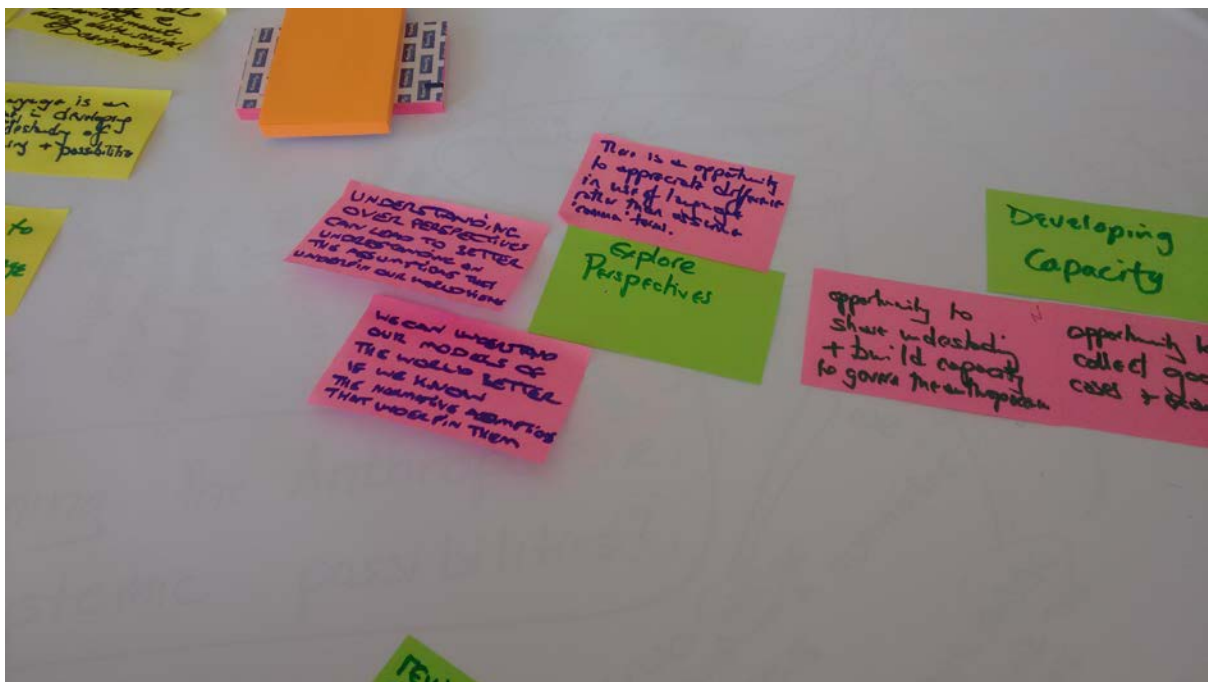
## INQUIRY SESSION 5: Update Issues/Opportunities and Reorganise

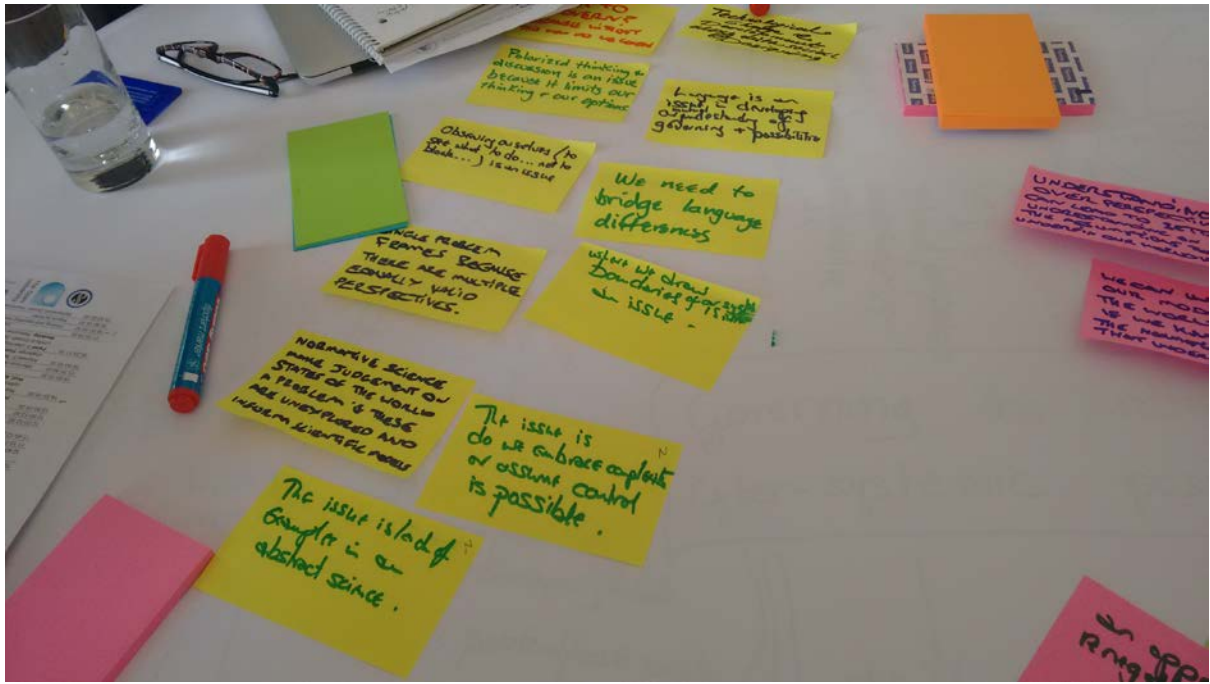
1. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.

<p>ISSUES – list</p> <p>1 See above</p> <p>2</p> <p>3</p>	<p>OPPORTUNITIES- list</p> <p>1 See above</p> <p>2</p> <p>3</p>
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 Where we draw boundaries of our systems is an issue

2

OPPORTUNITIES- list

1 An opportunity to make explicit our ethical assumptions through using (virtue) ethics (and others) and considering responsibility

2 An opportunity to renegotiate system boundaries

3

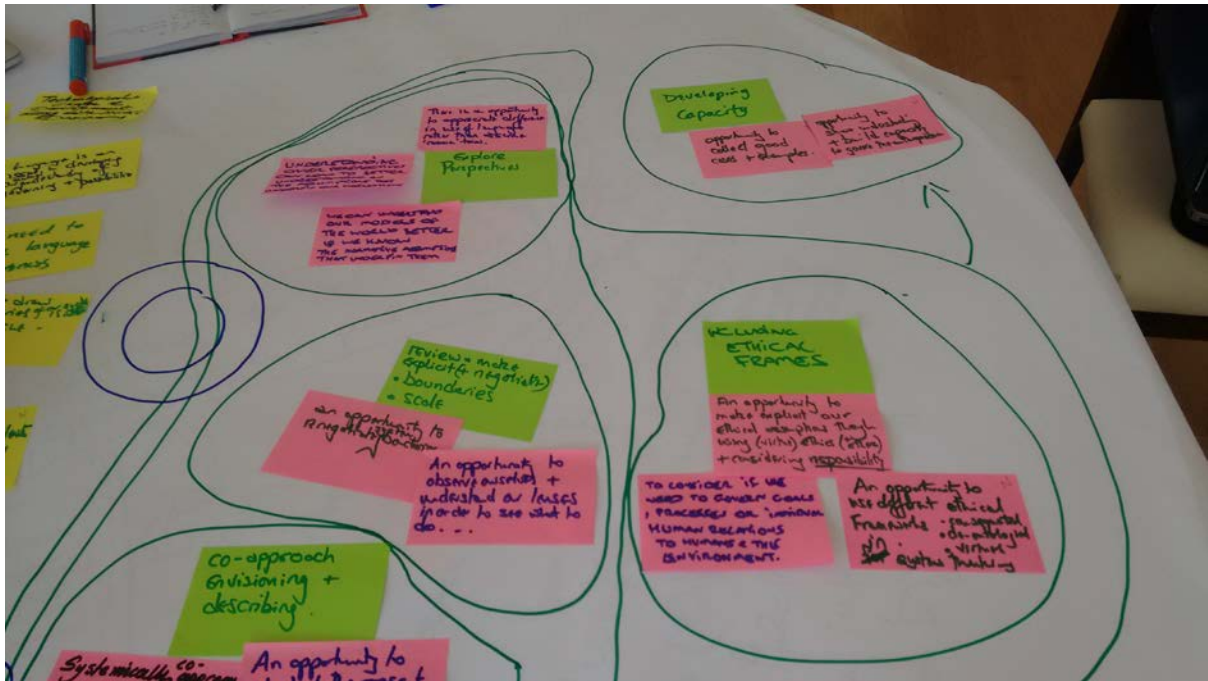
Insert photo 1 of revised conversation map

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.

<p>ISSUES – list</p> <ol style="list-style-type: none"> <li>1 The issue is do we embrace complexity or assume control is possible</li> <li>2 The issue is lack of examples in an abstract science</li> <li>3</li> </ol>	<p>OPPORTUNITIES- list</p> <ol style="list-style-type: none"> <li>1 Opportunity to collect good cases and examples</li> <li>2 Opportunity to share understanding and build capacity to govern the anthropocene</li> <li>3 Opportunity to use different ethical frameworks (consequential, de-ontological, virtues) in systems thinking</li> <li>4 There is a challenge of our scientific approaches and whether they allow the opportunity for navigation rather than control</li> </ol>
Insert photo 1 of revised conversation map	Insert Photo2 (if not included in photo 1)

2. List of subsystems title and opportunities

<i>Subsystem title</i>	<i>Opportunities in Subsystem</i>
Eg Subsystem XX	Opportunities in subsystem XX (list) 1. 2. 3. etc
Explore perspective	There is an opportunity to appreciate differences in use of language rather than assume “common” terms. Understanding over perspectives can lead to better understanding on the assumptions that underpin our world views We can understand our models of the world better if we know the normative assumptions that underpin them
Developing capacity	Opportunity to collect good cases and examples Opportunity to share understanding and build capacity to govern the anthropocene
Including ethical frames	An opportunity to make explicit our ethical assumptions through using (virtue) ethics (and others) and considering responsibility To consider if we need to govern goals, process, or individual relations to humans and the environment Opportunity to use different ethical frameworks (consequential, de-ontological, virtues) in systems thinking
Co-approach, envisioning, and describing	Systemically co-approach new narratives of

	<p>envisioning and describing what ought to be or become...</p> <p>An opportunity to understand the present from “future” as well history (balance) (and not get swamped)</p> <p>There is a challenge of our scientific approaches and whether they allow the opportunity for navigation rather than control</p>
Review and make explicit (and negotiate) boundaries and scale	<p>An opportunity to renegotiate system boundaries</p> <p>An opportunity to observe ourselves and understand our lenses in order to see what to do</p>
Operational subsystem	<p>Explore perspective</p> <p>Review and make explicit (and negotiate) boundaries and scale</p> <p>Co-approach, envisioning, and describing</p>
Insert photo of finalised set of subsystems and opportunities	

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. We didn't vote
  - 2.
  - 3.
  - 4.
- Etc

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)

Hear different perspectives and how they challenge our own world views

Like the dynamic of stimulation and discussion

Difficult not to reduce the richness of the discussions

Clarifications from experts

2. A priority action relating to the subsystem receiving the most votes

Exploration and being explicit about your assumptions
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
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**\*\* Please note: the PhD cohort will meet directly after the end of day 2 for a short debriefing \*\***

**THANK YOU!**