

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

**INQUIRY RECORDING TEMPLATE**

Table Number:	13
Participant Names	Brigitte Daniel Allegro Karl Müller Pier Paolo Peruccio Vera Szoelloesi-Brenig Pierre Bricage and his daughter as a translator Gary Smith Hanh Tong Thi Hai Yvonne Beck
Recorder Names: (PhD Students + others)	Hanh Tong Thi Hai Yvonne Beck

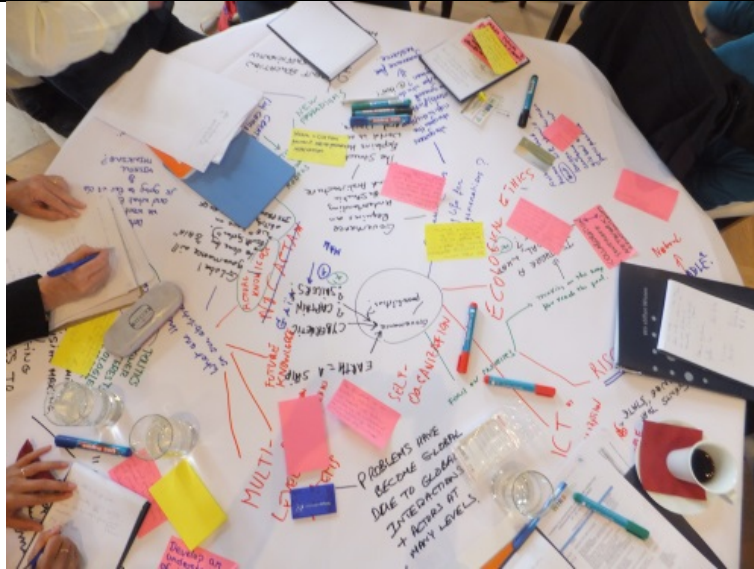
**DAY 1 Thursday 30<sup>th</sup> July**

**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.	
<p>ISSUES – List</p> <p>1) The Millenium Development Goals are an expression of wants/concerns/opinions. They need to be based on an understanding of the problem and solution</p> <p>2) Education is an issue because it takes time to change paradigms.</p> <p>3) The culture of independence is an issue because of building walls between people, nature, space and avoiding understanding a situation.</p>	<p>OPPORTUNITIES – List</p> <p>1) Promote a culture based on a respect for relationships -&gt; operations within the biosphere The biosphere is an evolving organism. We should use biology analogies to understand the contributions of Nations, cities and organisations.</p> <p>2) Adults should be educated now if we want to change the world.</p> <p>3) Generate networks and relationships, collaboration. Awareness of values is required. We could promote “biosphere cooperation” by defining and promoting “fundamental values” for the Anthropocene</p>

4) There is no common language among people from different disciplines.

4) A systems architecture could be developed cooperatively



**INQUIRY 4** – Update listing of Issues and Opportunities noting any changes to existing ones and adding new ones.

<p>1) The Millenium Development Goals are an expression of wants/concerns/opinions. They need to be based on an understanding of the problem and solution</p> <p>2) Education is an issue because it takes time to change paradigms.</p> <p>3) The culture of independence is an issue because of building walls between people, nature, space and avoiding understanding a situation.</p> <p>4) There is no common language among people from different disciplines.</p> <p><i>5) It is unclear, what fundamental values of humanity are.</i></p> <p><i>6) Human is not superior to nature</i></p>	<p>1) Promote a culture based on a respect for relationships -&gt; operations within the biosphere The biosphere is an evolving organism. We should use biology analogies to understand the contributions of Nations, cities and organisations.</p> <p>2) Adults should be educated now if we want to change the world.</p> <p>3) Generate networks and relationships, collaboration. Awareness of values is required. We could promote “biosphere cooperation” by defining and promoting “fundamental values” for the Anthropocene</p> <p>4) A systems architecture could be developed cooperatively</p> <p>5) Use an analogy to 3 laws of robotics to promote fundamental values of humanity (humanics)</p> <p>6) ARMSADA(Reciprocal and mutual sharing of advantages and disadvantages) <a href="http://armsada.eu/">http://armsada.eu/</a> has existed for a long time</p>

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

Most ideas were put in the context of the biosphere, that became a common theme (or metaphor) to describe the importance of humans’ integration in and with nature.

The issues written in italics were not explicitly noted on paper, but discussed.

# 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	
<b>1. REFLECTIONS ON DAY 1 (list here)</b> - new insights were gained by listening to the ideas of other groups - different perspectives were used in the different groups, e.g. either questioning existing structures, such as economy or discussing on a more general level, such as considering human within the biosphere	
<b>2. NEWS OF DIFFERENCE (list here):</b>	
<i>Hosts:</i> Pierre Bricage Brigitte Daniel Allegro	
<i>Pair 1:</i> Gary Smith, Pier Paolo Peruccio	
<i>Pair 2:</i> Karl Müller , Yvonne Beck	
<i>Pair 3:</i> Vera Szoelloesi-Brenig Hanh Tong Thi Hai	
3. Update listing of Issues and Opportunities - noting any changes to existing ones and adding new ones.	
ISSUES – list 1 economic perspective is concentrated on growth 2 Definitions are missing or unclear (what is a system, what is governance, what is cyber systemic?) 2a Language is an issue because common ground is missing, e.g. between normal people and researchers 3 leverage points are not being identified 4 Who are the main actors? 5 What is good or bad? 6 access to information is not equal all over the world, information is manipulated 7 institutions do not question assumptions	OPPORTUNITIES- list 1 develop alternative concepts to growth, e.g. sharing economy 2 Address search of definitions in a multi-modal way, so that it is comprehensible to everybody 2a develop some “community” language” 3 identify leverage points 4 Nations, cities, organisations, are the actors 5 Start assessing values 6 unsure solution to this question 7 create “cybersystemic” approach, become aware of boundaries (assumed)



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

Unequal access to information was discussed in the following sense:  
 More transparency (e.g. no propaganda) and access to information technologies can contribute to everybody's access to education etc. On the other hand the question whether equal access to information was possible or desirable was raised.

## 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	OPPORTUNITIES- list
1	1
2	2
3	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



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

It was understood that only the original ideas of the group should be reorganized, not including the orange ideas. Therefore, the findings remained centered on the concept of biosphere.

## INQUIRY SESSION 6: Update Issues/Opportunities

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

<p>ISSUES – list</p> <p>1 economic perspective is concentrated on growth</p> <p>2 Definitions are missing or unclear (what is a system, what is governance, what is cyber systemic?)</p> <p>2a Language is an issue because common ground is missing, e.g. between normal people and researchers</p> <p>3 leverage points are not being identified</p> <p>4 Who are the main actors?</p> <p>5 What is good or bad?</p> <p>6 access to information is not equal all over the world, information is manipulated</p> <p>7 institutions do not question assumptions</p>	<p>OPPORTUNITIES- list</p> <p>1 develop alternative concepts to growth, e.g. sharing economy</p> <p>2 Address search of definitions in a multi-modal way, so that it is comprehensible to everybody</p> <p>2a develop some “community” language”</p> <p>3 identify leverage points</p> <p>4 Nations, cities, organisations, are the actors</p> <p>5 Start assessing values</p> <p>6 unsure solution to this question</p> <p>7 create “cybersystemic” approach, become aware of boundaries (assumed)</p>
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	
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Please Insert any additional Narrative elements here – e.g. agreements, disagreements, explanations novel insights etc

No major changes were made in this section due to very short discussion times. There were discussions on whether more “concrete” topics, e.g. regarding economics should be addressed which were not formally written down.

## 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) The Millenium Development Goals are an expression of wants/concerns/opinions. They need to be based on an understanding of the problem and solution
  
- 2) Education is an issue because it takes time to change paradigms.
  
- 3) The culture of independence is an issue because of building walls between people, nature, space and avoiding understanding a situation.
  
- 4) There is no common language among people from different disciplines.
  
- 5) Definitions are missing or unclear
  
- 6) institutions do not question assumptions
  
- 7) Time is an issue to apprehend the global situation which is changing quickly

### OPPORTUNITIES – List

- 1) Promote a culture based on a respect for relationships -> operations within the biosphere  
The biosphere is an evolving organism. We should use biology analogies to understand the contributions of Nations, cities and organisations.
  
- 2) Adults should be educated now if we want to change the world.
  
- 3a) Generate networks and relationships, collaboration. Awareness of values is required. We could promote “biosphere cooperation” by defining and promoting “fundamental values” for the Anthropocene
  
- 4) A systems architecture could be developed cooperatively, that would
- 5) Address search of definitions in a multi-modal way, so that it is comprehensible to everybody, develop some community language
- 6) Create cybersystemic approach, decision makers must be aware of boundaries
  
- 7) nonlinear models can help to create awareness of time issues.





2. List of subsystems title and opportunities	
Subsystem title	Opportunities in Subsystem
Subsystem 1: Architect the biosphere as a living whole – a nucleated cell	Opportunities in subsystem XX (list) <ol style="list-style-type: none"> <li>1. Use analogies to nature o understand contributions of nations, cities and organizations</li> <li>2. Create a framing architecture</li> <li>3. Develop an enterprise and system architecture cooperatively to create an understanding for defining design-based MDGs</li> </ol>
Subsystem 2: Utilize collective knowledge, ideas through new social communication	<ol style="list-style-type: none"> <li>1. engaging with models by playing</li> <li>2. collaborate and generate, create networks and relationships</li> <li>3. Reformation of institutions</li> <li>4. Identify needs and necessities</li> </ol>
Capture an understanding of influences between the actors or components of the biosphere	<ol style="list-style-type: none"> <li>1. Develop an understanding of interdependence</li> <li>2. Abstract Mazlows Hierarchy and needs to nations, cities, organizations and people to promote cooperation by setting values for these actors</li> <li>3. Crate/design institutions as components within the biosphere architecture</li> </ol>
Insert photo of finalised set of subsystems and opportunities	
Overall title: engineer the biosphere (and engineer mental images)	



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

Some issues were added without the authors' explaining the content. They were removed later in the clustering process

**3. Voting on priority subsystems**

Listing on priority subsystems

- 1.architect biosphere as a living whole
  - 2.compare and understand influences between components of biosphere
  - 3.utilize collective knowledge through communication
  - 4.
- Etc



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

As all identified subsystems are based on the notion of biosphere, it was decided, that a voting is not really possible. Interactions and feedbacks between the structures were identified

## PLENARY – Reflections and Priorities

### 1. Reflections on your inquiry (please list)

The group discussed the role of human within the biosphere and first steps of action related to communication

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

Engineer the biosphere (as the overall topic of the inquiry), i.e. think, design and review actions

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

All subsystems are interacting, therefore it is hard to identify a priority action. Overall, awareness by “decision makers” and education for the overall population about the concept of biosphere may be named as an operational step.

**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!**