



# Documentation Follow-Up Workshop

University of Freiburg, 29 September 2017

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## Review of the Follow-Up Workshop:

The annual meeting of the URCforSR focused on the reflection and presentation of the working group development in the five different axes of the cluster. About 60 participants came to Freiburg and had the chance to listen to a diverse number of input speeches and working group presentations as well as to learn from the posters prepared by the cluster's enablers.

Very impressive is to see how well the different working groups develop and what they achieved so far. We saw that there are common publication projects, thematic workshop preparations as well as various project proposals. The latter reach from smaller binational funds between researchers from Freiburg and Strasbourg, to trinational proposals for the DFG/SNF/ANR cooperation and INTERREG as well as to multinational COST-Action proposals.

The cluster members acknowledged the sessions regarding financial issues, where experts from the University of Freiburg and Eucor - The European Campus could inform about possible ways of boosting the cooperation between the researchers. The other session on the North America strategy of Eucor respectively the cluster gave proof of the cluster's ambition to establish an internationally well known network in the sustainability sciences. We appreciate the support of the experts as well as the vivid contributions of the cluster members and look forward to the future development of the cluster.



## I) Introductory presentation

NETWORK

Institute



# Sustainability Beyond Borders

## Challenges and Vision in a Dynamic Environment

Klaus Markus Hofmann  
Freiburg  
September 29<sup>th</sup> 2017





1. Tri-national Space of Resonance
2. Sustainability overcoming Sectoral Thinking
3. Changing Paradigms for Mobility
4. Vision for *URC4SR*

# 1. Tri-national Space of Resonance

## Upper Rhine – an Infracultural Lifeline of Cooperation



### Sustainable Future



### Drivers of Prosperity:

- Mobility & Energy
- Freedom & Diversity
- Creativity & Industriousness

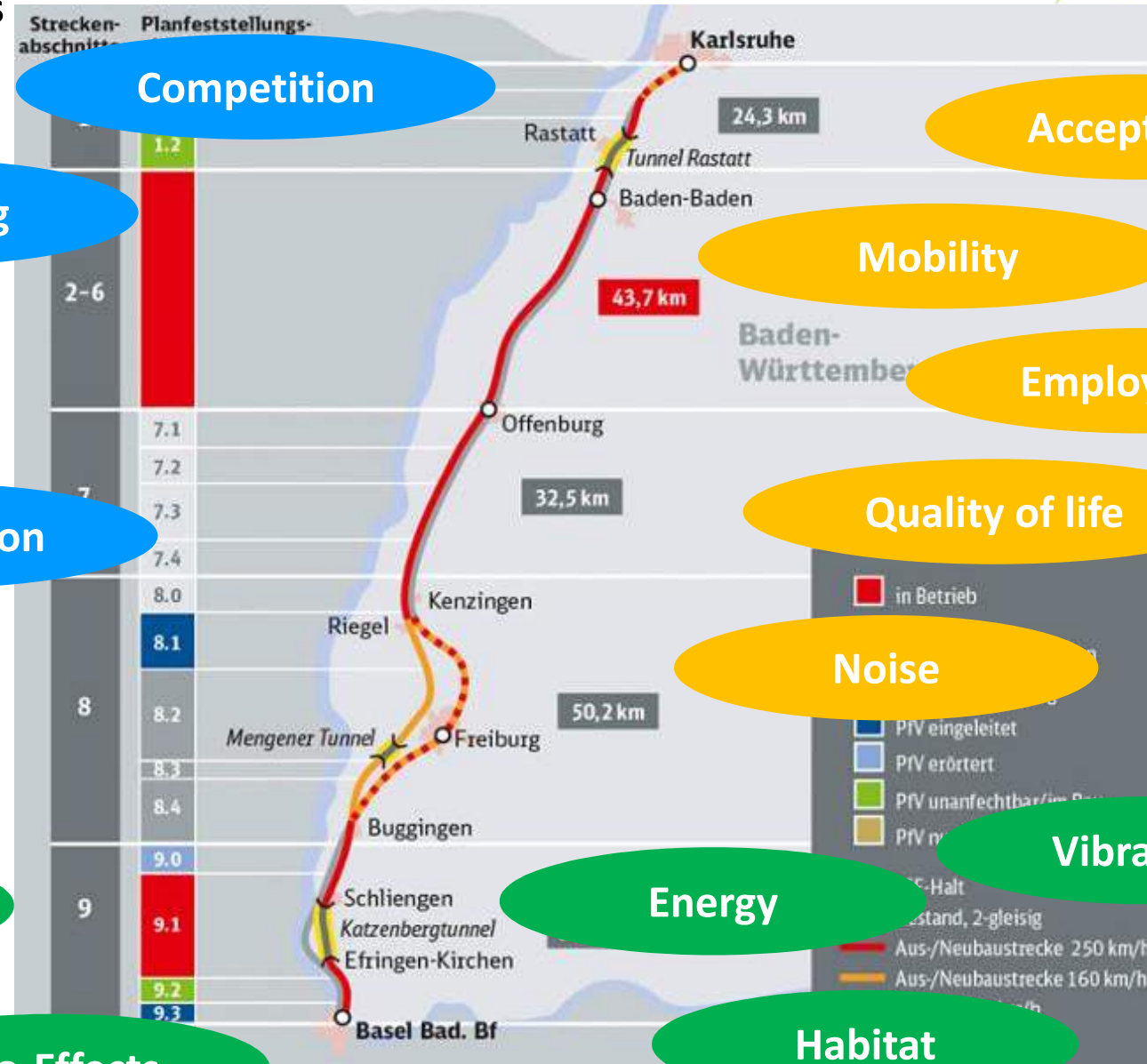
### Sustainability Research Focus

- Governance
- Energy, infrastructure & social change
- Transformation processes & technologies
- Resource management
- Multiculturalism & multilingualism

# 1. Tri-national Space of Resonance Upper Rhine – Facing Sustainability Challenges



## Infrastructure Challenges



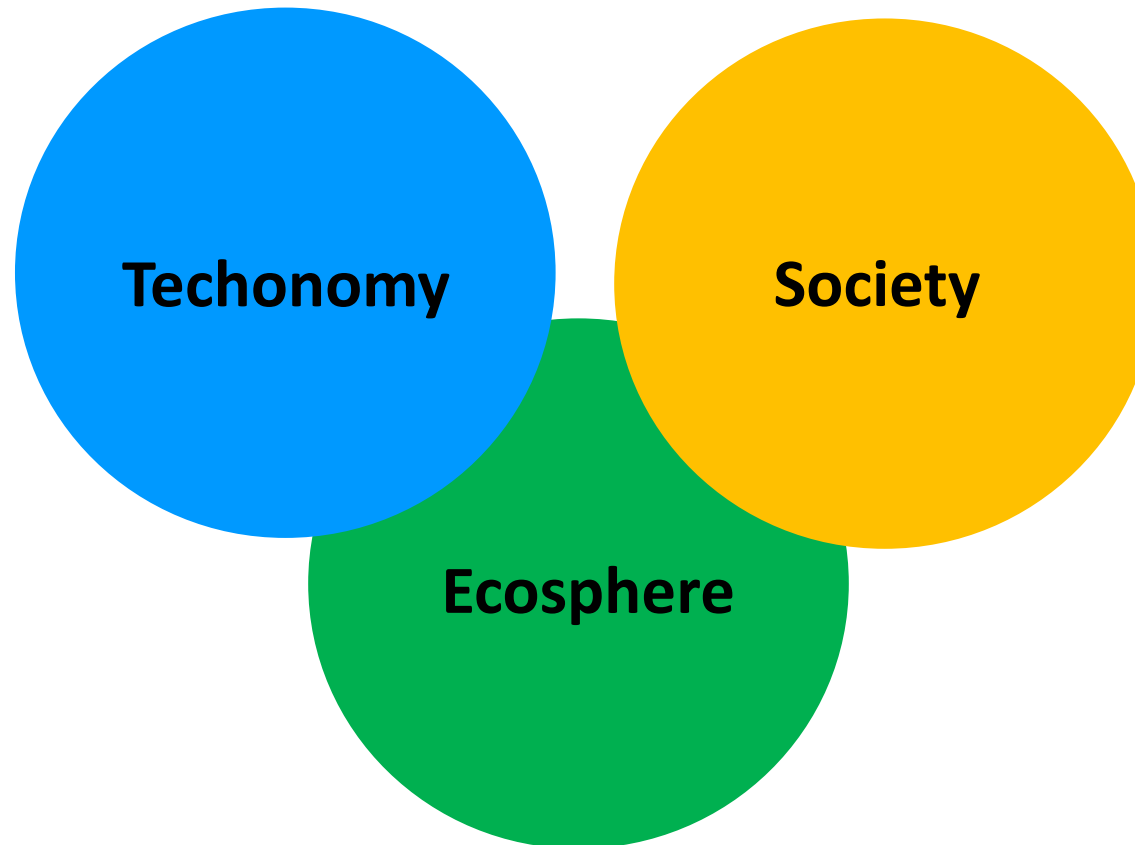
# Sustainability Beyond Borders



1. Tri-national Space of Resonance
2. Overcoming Sectoral Thinking
3. Changing Paradigms for Mobility
4. Vision for *URC4SR*

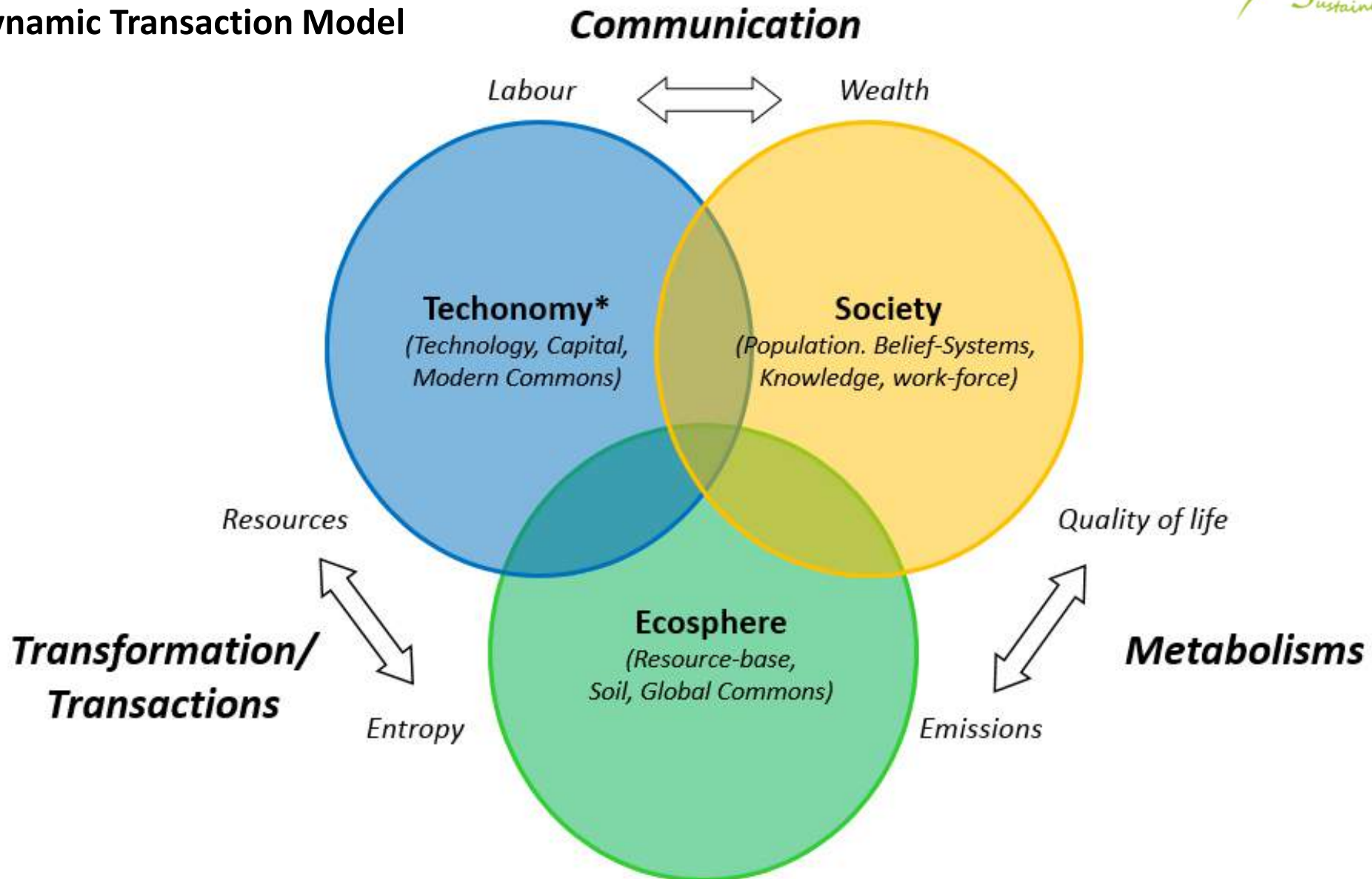
## 2. Overcoming Sectoral Thinking Connecting three complementary Spheres

Environments for Sustainable Interaction



## 2. Overcoming Sectoral Thinking A Socioecological Modell of Sustainability

### Dynamic Transaction Model



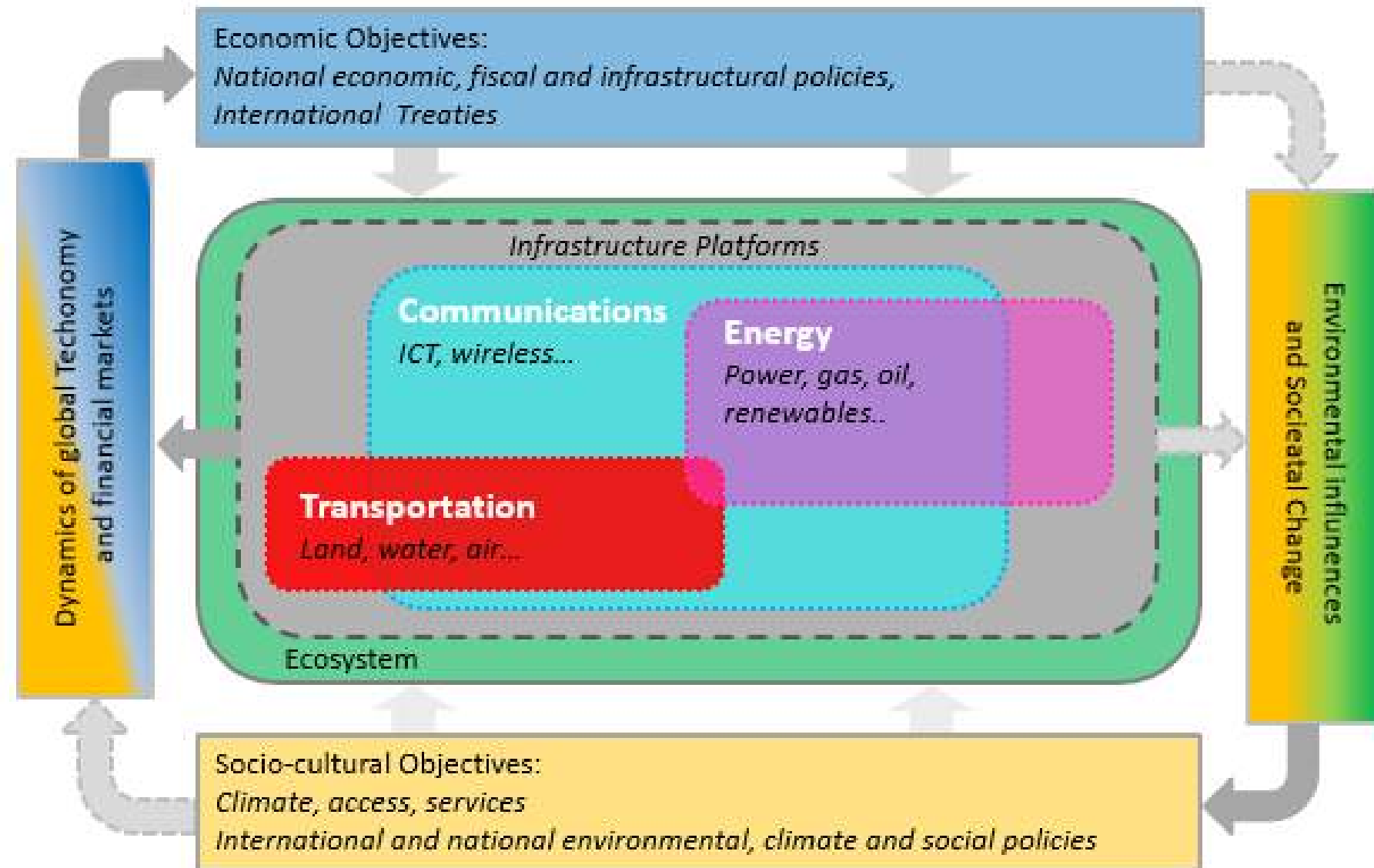
\*Techonomy = technical and economic systems  
**NETWORK**

Source: Markus Hofmann  
Comp. Martina Fischer-Kowalski (1998):



## 2. Overcoming Sectoral Thinking Interdependence of Technical and Ecological Systems

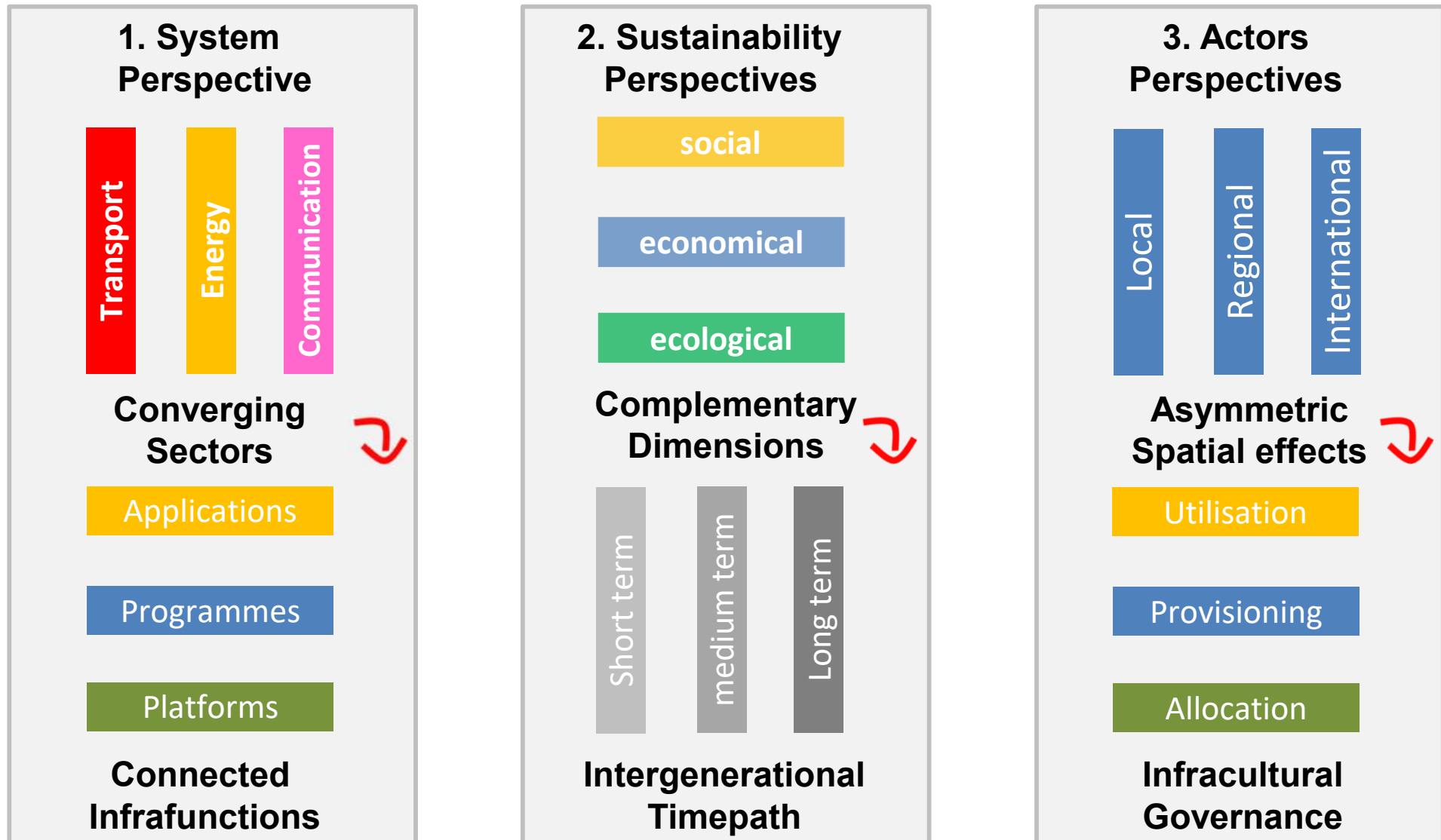
### Infracultural Development Framework (Mobility)



## 2. Overcoming Sectoral Thinking Changing Perspective for Governance of Technical Systems




### Sustainable Governance Perspectives



# Sustainability Beyond Borders



1. Tri-national Space of Resonance
2. Overcoming Sectoral Thinking
3. Changing Paradigm for Mobility
4. Vision for *URC4SR*

An aerial, high-angle photograph of a vast, dark asphalt parking lot. The lot is densely packed with hundreds of cars of various colors, including white, silver, black, red, blue, and orange. The cars are parked in somewhat haphazard rows, filling the entire frame except for a small, circular area in the center. In the center of the parking lot stands a single, lush green tree with a full, rounded canopy. The perspective is from directly above, looking down at the scene.

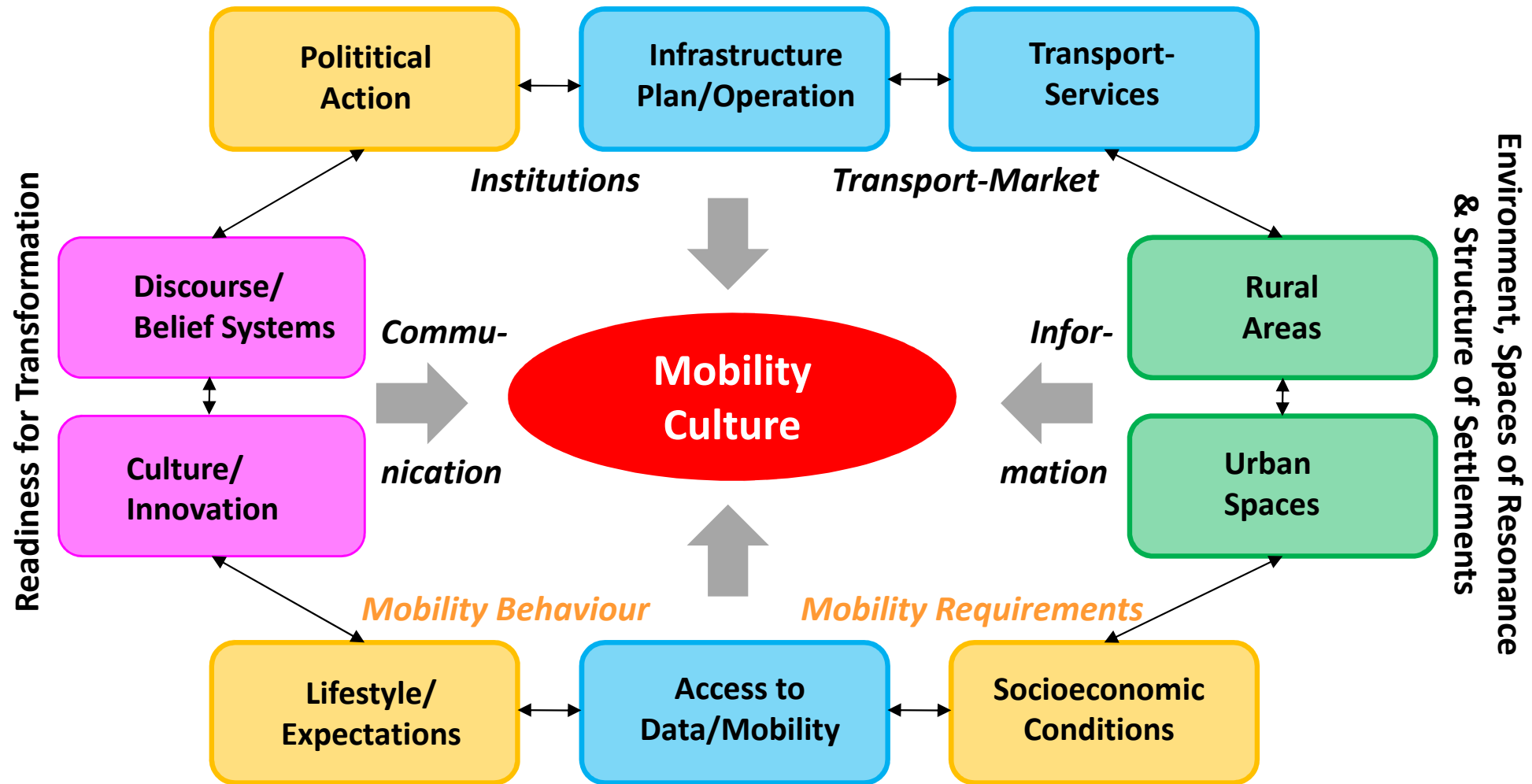
**Cars = Wealth?**  
**Mobility = Freedom**

### 3. Changing Paradigms for Mobility

Transport mirrors individual Preferences and Options  
underlying Infracultural preconditions and belief systems

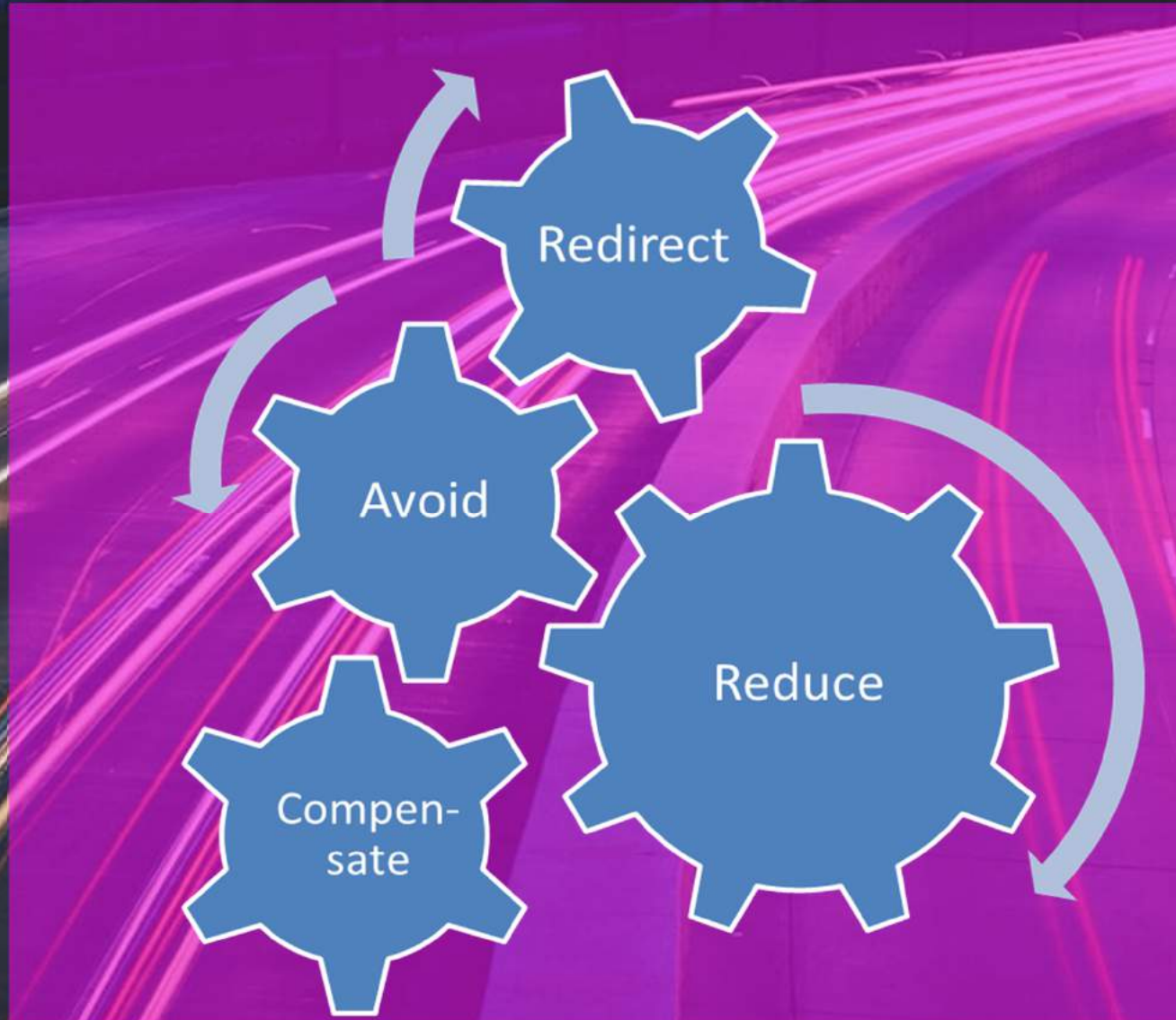


#### Factors influencing Sustainability of Transports





### 3. Changing Paradigms for Mobility Reducing Traffic-Emissions effectively



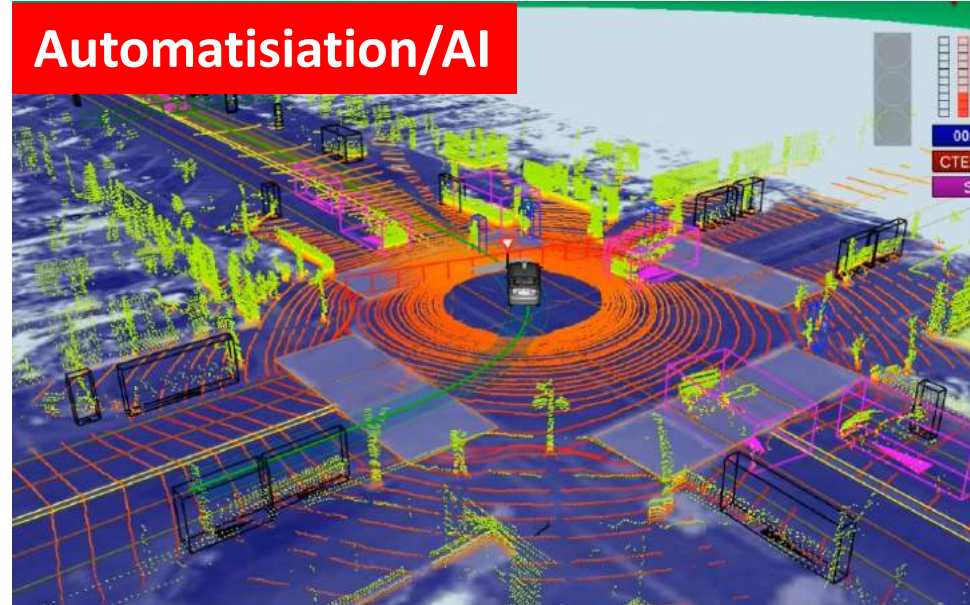


### 3. Changing Paradigms for Mobility Technology and Behaviour Drivers of Sustainable Mobility

#### Renewable Energies



#### Automatisation/AI



#### Behaviour



# Sustainability Beyond Borders



1. Tri-national Space of Resonance
2. Overcoming Sectoral Thinking
3. Changing Paradigm for Mobility
4. Vision for *URC4SR*



## 4. Vision for URC4SR

### URC – Living Lab for Sustainable Mobility

#### Connecting People



#### Transformative Sustainability Research

- Beyond National Institutions
- Academia, Industry and Politics
- Living Labs for Sustainable Solutions
- Integrated Cross-Sectoral Approach
- Sustainability & Digitalisation
- Facilitating “Real World” Agents
- ***Making Results Tangible***



#### Sustainable Mobility in the Upper Rhine Region



## 4. Vision for URC4SR: Sustainable 3LAND 2030

Living in a Sustainable Tri-national City

Learning Sustainability at Campus for Urban Ecology

Logistics Climate Neutral with Automated & Shared Mobility



HUNINGUE  
WEIL AM RHEIN  
BASEL

# 3LAND

Trois villes – un avenir commun  
Drei Städte – eine Zukunft

**LL4S**

Living Lab for Sustainability



IBA BASEL INTERNATIONAL BUILDING EXHIBITION  
WACHSEN UND NEU LEBEN

3LAND

1

2

3

4

2000

2010

2015

2020

2030

NETWORK



**Thanks for your Attention**

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## II) Presentations of the thematic work groups

- Governance
- Energy, Infrastructure & Societal Change
- Transformation Processes & Technologies
- Resource Management
- Multiculturalism & Multilingualism





## Axis I) Governance

# Axis Governance

## Group „Regional and Urban Governance of Sustainability“

*By Prof. Philippe Hamman  
Head of the group*

## STATE OF THE ART

- Confirmation of the interest of the researchers who joined this working group a year ago
- First meetings and action took place

## REACHED MILESTONES

- Collective work
  - Call Belmont Forum / Norface: «Transformations to Sustainability» (T2S)
- Meeting (June 2017) in Strasbourg
  - One-day workshop in Strasbourg: sustainability governance in multicultural settings
  - Collective and interdisciplinary book

## BARRIERS

- How to find realistic financing opportunities:
  - Specifically, for projects in the humanities and social sciences (not just applied research)
  - And which allow a trinational comparison (not only binational)
  - Without being too competitive (with little chance of success for a high investment)
- Meetings
  - How to materialize them?

## NEXT STEPS



- For the working group itself
  - Next workshop: «Sustainability governance in multicultural settings» (Strasbourg, 15th January 2018)
  - To carry out the project of a collective book in English on this subject
  - Cooperation/transfer activity with the ICLEI (will take place on 15th January 2018)
- In cooperation with other working groups of the cluster
  - Axis 5: group «Discourse»
  - Axis 4: «Seed Money» & «Biocides in urban areas»
  - Paul Burger / CREST: Energy demand survey

# Axis Governance

## Working Group „Leverage Points“

(Stefan Baumgärtner, Frank Krysiak, Aya Kachi, Jens Köhrsen, Lena Blomartz, Annika Sohre)

*By Dr. Annika Sohre*

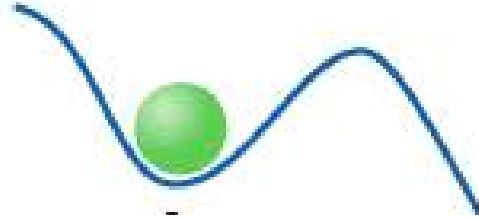


# Current state (Sept 2016 - Present)



- **Identified** a common research theme.
  - **“Sustainability transitions under uncertainty:  
Modeling and analyzing the use of leverage points”**
- **Organized** 6 meetings.
  - **Finalized** the overall approach and subtopics of the project.
  - **Preparing** a funding application.
- **Developing** individual and common research plans.
- **Project planned for** late 2018 – late 2020, if all goes well.

# Why Leverage Points



## Leverage Points:

Transformation towards  
sustainability by using  
leverage points -

Small effort, big changes

**So far**, leverage points have been studied:

1. on a system level.
2. with an assumption of a positive resulting state.

**If** we want to identify policy interventions as leverage points, we need to know:

1. micro-mechanisms that create LP.
2. conditions under which transitions lead to “desirable” state.

# Project and subtopics

	Macro level	Micro level
<b>Theoretical modeling</b>	<p>Q: How do the initial state characteristics (ball features) and the transition environment characteristics (basin shape) shape the emergence of LP?</p>	<p>Q: How do LP emerge from changing behavior patterns of individual agents?</p> <p>Q: Under what conditions, and how should LP be used to induce a “desirable” state?</p>
<b>Empirical testing</b>	<p>Q: Can policy interventions that promote actor linkages create LP?</p> <p>Q: Are there risks of generating “undesirable” state, due to the very interventions that enhance actor linkages?</p> <p>Case: Developer investments in building energy efficiency.</p>	<p>Q: How do local energy initiatives (or opponents) employ leverage to promote (or block) energy transitions?</p> <p>Q: What risks (e.g. side effects) do they involve?</p> <p>Cases: Cities – Freiburg, Basel</p>



## Axis II) Energy, Infrastructure & Societal Change

# Energy, Infrastructure and Societal Change



**Uni Basel  
Research Group  
+  
Joint Project  
KIT/UniBas**



# UniBas Team

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- Lead: Hannes Weigt  
2 PostDocs (Ingmar Schlecht, Rebecca Lordan-Perret)  
and 5 PhDs (Léo Chavaz, Ali Darudi, Carla Mendes, Jonas Savelsberg, Moritz Schillinger )
- Research Center on Sustainable Energy and Water Management (***Forschungsstelle für Nachhaltige Energie- und Wasserversorgung, FoNEW***)
- Integrated into the ***SCCER-CREST*** (Competence Center for Research in Energy, Society and Transition)
- Currently addresses mainly ***applied topics in electricity markets***

# Research Topics

## UniBas

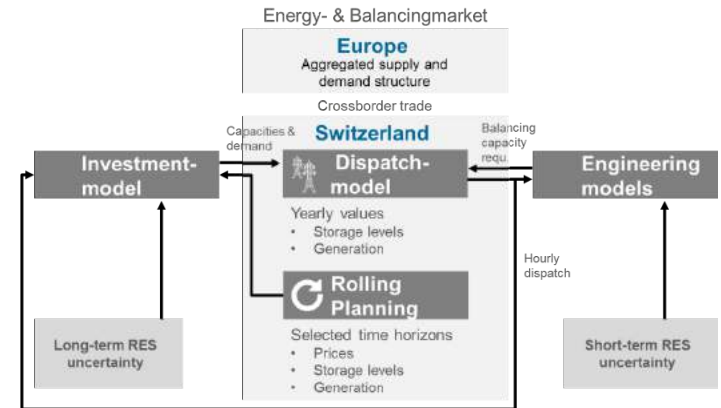
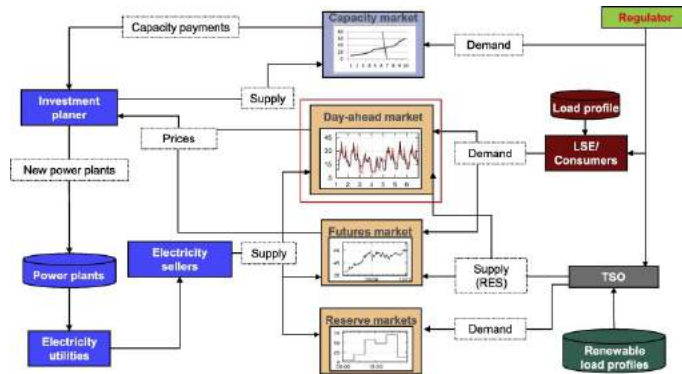
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- **Electricity Market Modeling:**
  - Future Market Development
  - Market and Policy Design
  - Integration of Renewable Energies
  - Hydropower
  - Demand Side and Energy Efficiency
- **Climate Change and Energy Markets**

Currently ongoing 3rd party projects:

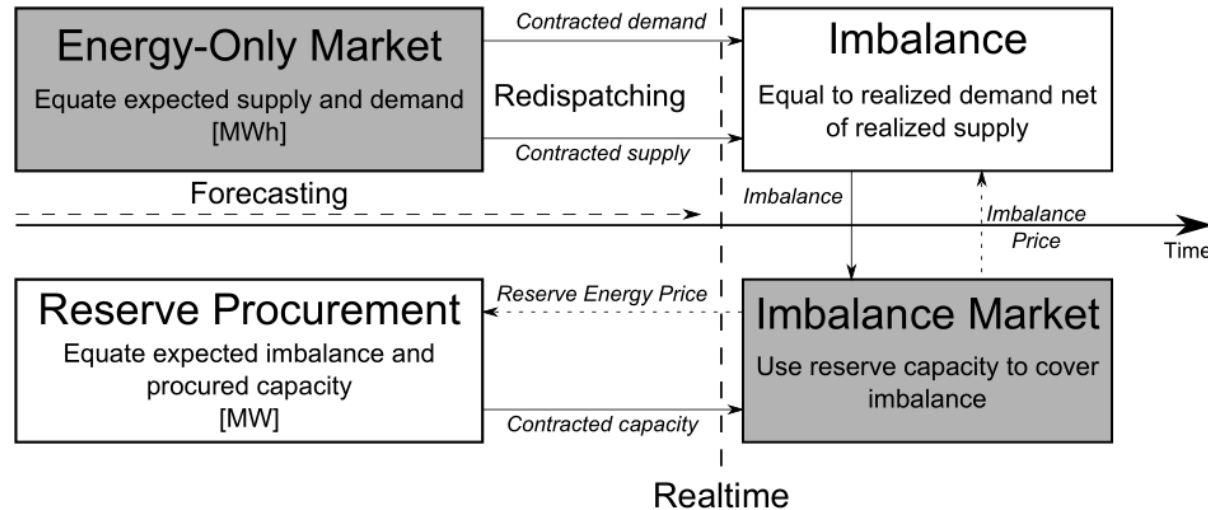
Future of Swiss Hydro, Assessing Future Electricity Markets, Reducing Swiss household energy demand, The role of energy storage

# 1. Research Idea: Involved Teams and Meetings so far



- 23.11.2016 Kick-Off Meeting, Model Presentation
- 24.04.2017 Workshop on Balancing Markets and Market Design
- 04.05.2017 Trinational Workshop of Axis 2:  
“Energy, Infrastructure and Societal Change”

# 1. Research Idea: Design of Interconnected Balancing Markets



- Complex Electricity Market Design
- Interplay between energy delivery and capacity provision
- RES production uncertain



**Main research question:** How can we enable the participation of renewable energies to provide system stability?

# 1. Research Idea: Structure and Current Status

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**Objective:** How can we enable the participation of renewable energies to provide system stability?

## Research Questions:

- How to secure short term system security?
- How to enable cross-border provision and the potential impact?
- Role of renewables: supporting or challenge for balancing market?

## Envisioned Structure:

1. Development of different balancing market concepts/designs
2. Analysis of company strategies / market actor behavior
3. Modeling and Quantification of market concepts:
  - Integration into Agent Based Market Model
  - Extension of Cross-Border Aspects

## Project Partners:

### KIT:

- Dogan Keles,  
Florian Zimmermann (IIP)
- Jérémy Rimbon (IIP, DFIU)
- Fabian Ocker (ECON)

### Uni Basel:

- Hannes Weigt (FoNEW)

## Next Steps:

1. Design of Project Sketch
2. Identification of Funding Options



# Upper Rhine Sustainability Cluster Workshop

29<sup>th</sup> September, Freiburg

## Axis 2: Group “Sustainable Energy Concepts”

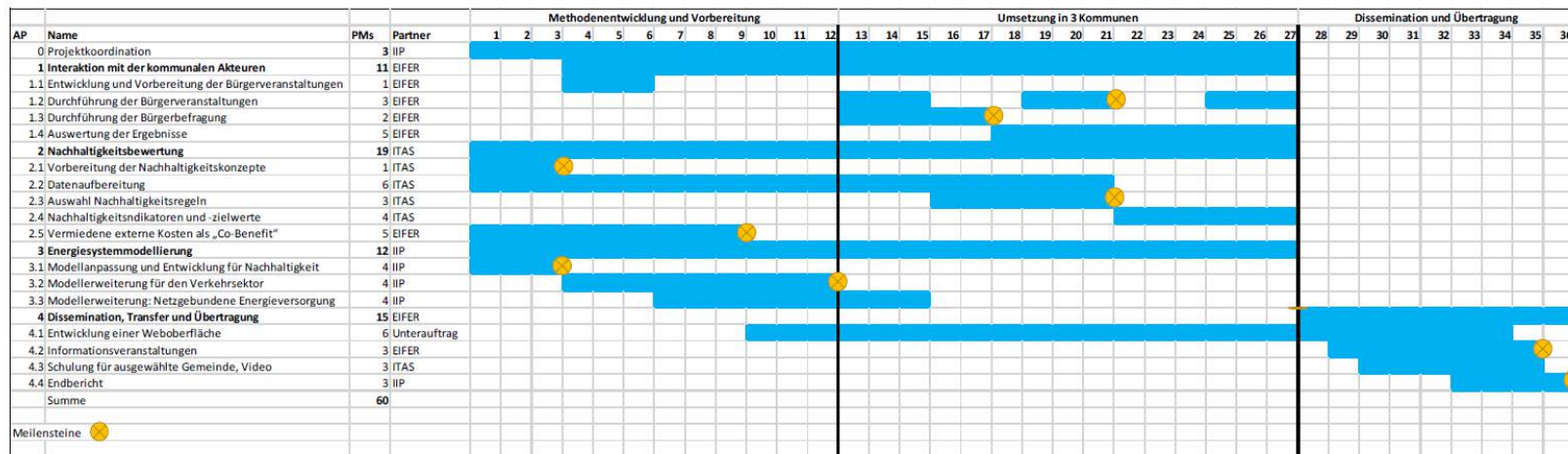
***Russell McKenna***

Chair of Energy Economics, KIT, Karlsruhe, Germany

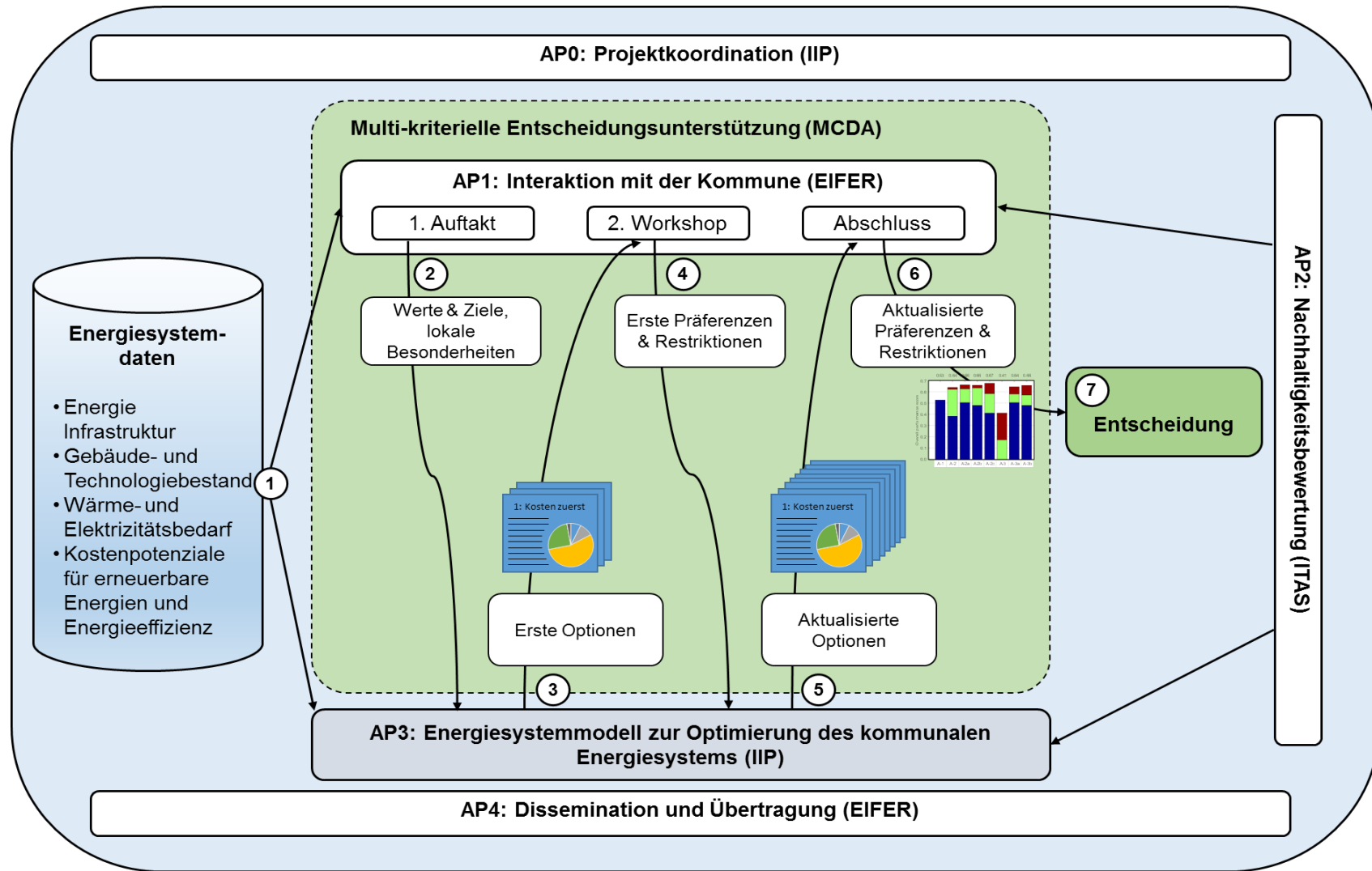


# Status of group

- Proposal submitted on 15<sup>th</sup> September to BMU call “Innovative Climate Protection Concepts”
- Projekt title: “Standardisierte Entwicklung Nachhaltiger KlimaschutzKonzepte in KleinKommunen (SENK4)“
- Partners:
  - IIP/DFIU: Fichtner, McKenna, Mainzer
  - ITAS: Stelzer
  - EIFER: Bachmann, Imbert, Laborgne, van der Kamp
- Project length: 36 months:
- Total budget: 617 k€, of which 432 k€ requested
- Project start would be September 2018
- Next steps: wait for feedback on proposal



# Overview of SENK<sup>4</sup>





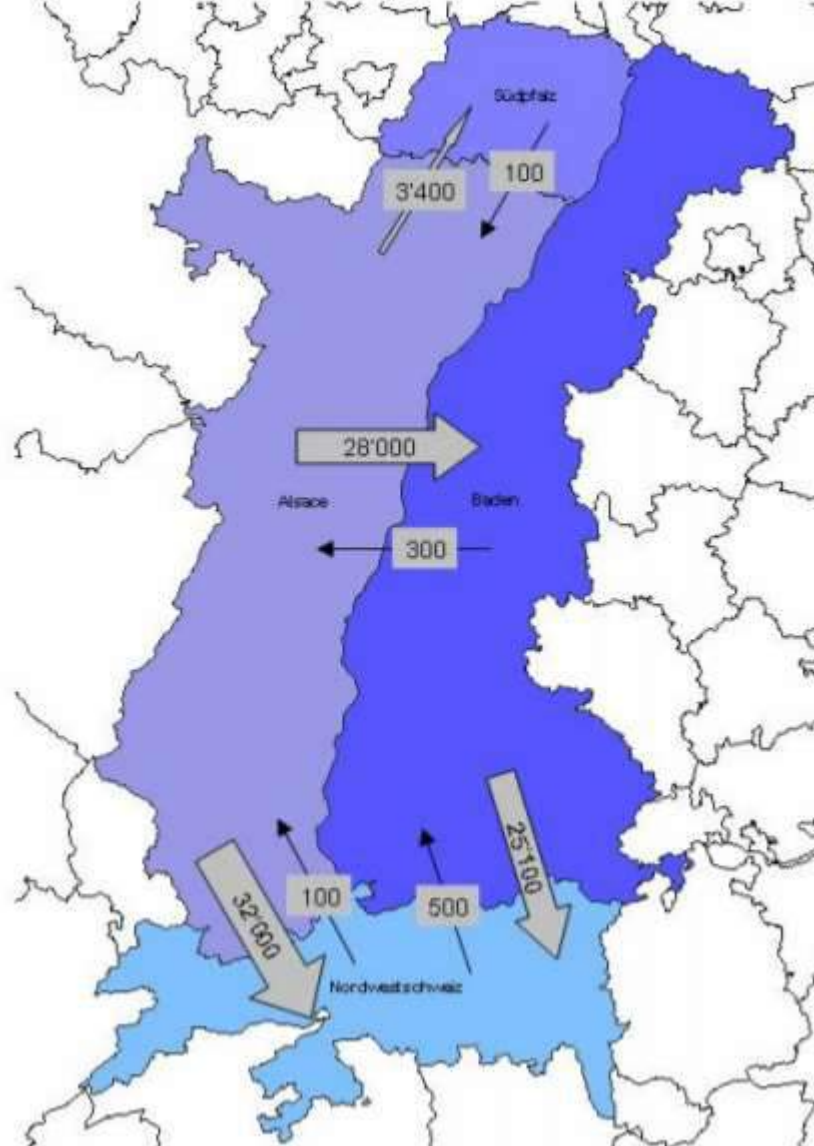
# Accepted project proposal (step 1): Sustainable transport in the Upper Rhine Valley

PD Dr. Patrick Jochem

German-French Institute of Environmental Research (DFIU)



# Current status & mission statement



- The environmental impact from transport is significant.
- Number of cross-border trips is increasing
- Share of passenger car is high
- Differences in mobility patterns
- It's an interesting testbed for Europe!

→ We need a reliable and sustainable transport concept for Europe!



# WP1: Sustainable transportation

## *How to mitigate CO<sub>2</sub> emissions by changing the individual mobility behaviour?*

- Identification of ...
  - current Level-of-Service of local transport system (at municipality level)
  - current need for mobility and mode choice of users
- Development of a Sustainable Mobility Monitoring System (SMMS)
- Objective: How to make the system more sustainable (e.g. by increasing the share of multi-modal trips)?
- Exchange of information between municipalities (competition).
- Development of potential instruments/measures to improve the footprint of transport.
- Implementation of some instruments and their evaluation.



## WP2: How to operate charging stations at public institutions

- Political objective to increase share of EV.
- However, public institutions do not provide charging stations even though they are important for a successful market penetration of EV.
- Tasks: Identification of (legal!) hurdles.
- Development of an convincing operating approach which allows to provide electricity to employees and guests in an easy application.
- Implementing this approach to many public institutions.
- Testing controlled charging via ISO 15118.



## Partners and timeline

### ■ Universities:

- Strasbourg: INSA: Cristiana Mazzoni,
- Mulhouse: UHA: Michael Basset, Axelle Lutz, and Rodolfo Orjuela,
- Freiburg: Felis: Barbara Koch, Ines Gavrilut, and Markus Hofmann,
- Basel: Prof. Burger
- Karlsruhe: DFIU: J. Rimbon, P. Jochem, K. Seddig, J. Schäuble;  
ECON: Kay Mitusch, Eckhard Szimba
- Landau: Oliver Frör, Melanie Ströbel, Stefan Jergentz
- Europäische Hochschule für Humanökologie: Markus Hofmann

### ■ Industry

- Parkraumgesellschaft Baden-Württemberg (PBW, car park operator)
- FreshMile (charging station operator)
- Swarco (charging station provider)
- Associated partners: Network GmbH, KVV, Pfalzwerke, Energieagentur Rheinland-Pfalz, KIT-Eifer, Énergies de Strasbourg
- Optimistic Scenario: Start in January 2018 (until December 2020)

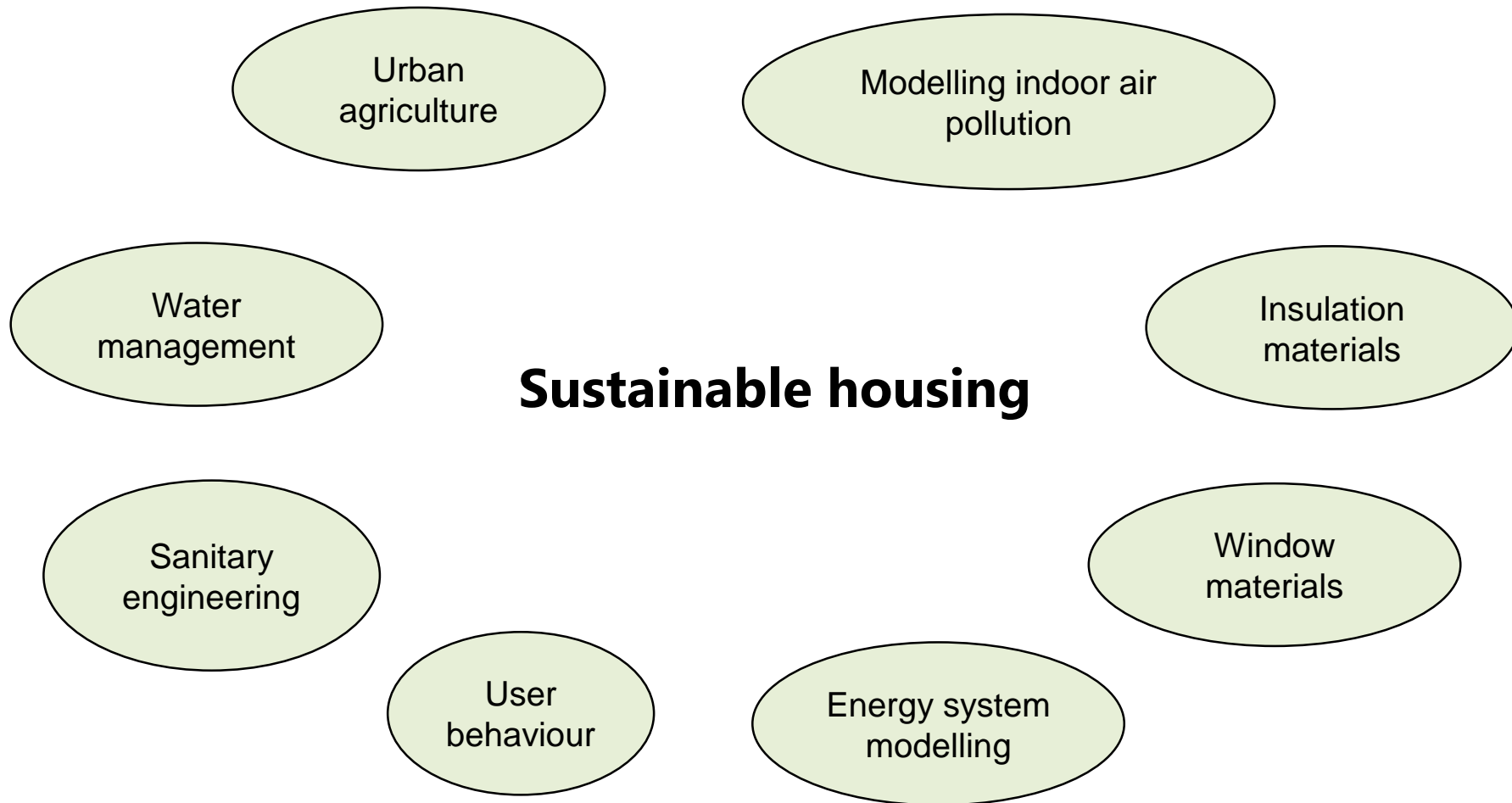
# Sustainable Housing

Axis 2 Energy, infrastructure & social change

# Group members

- Nadège Blond (Strasbourg)
- Emmanuel Dufrasnes (Strasbourg)
- Mourad Elhabiri (Strasbourg)
- Helmut Lehn (Karlsruhe)
- Rebekka Volk (Karlsruhe)
- Russell McKenna (Karlsruhe)
- Franka Steiner (Karlsruhe)
- Patrice Wira (Mulhouse)
- Gueladio Cissé (Basel)
- Lena Bloemertz (Basel)
- Adnan Yousaf (Freiburg)
- Ado Ampofo (Landau)



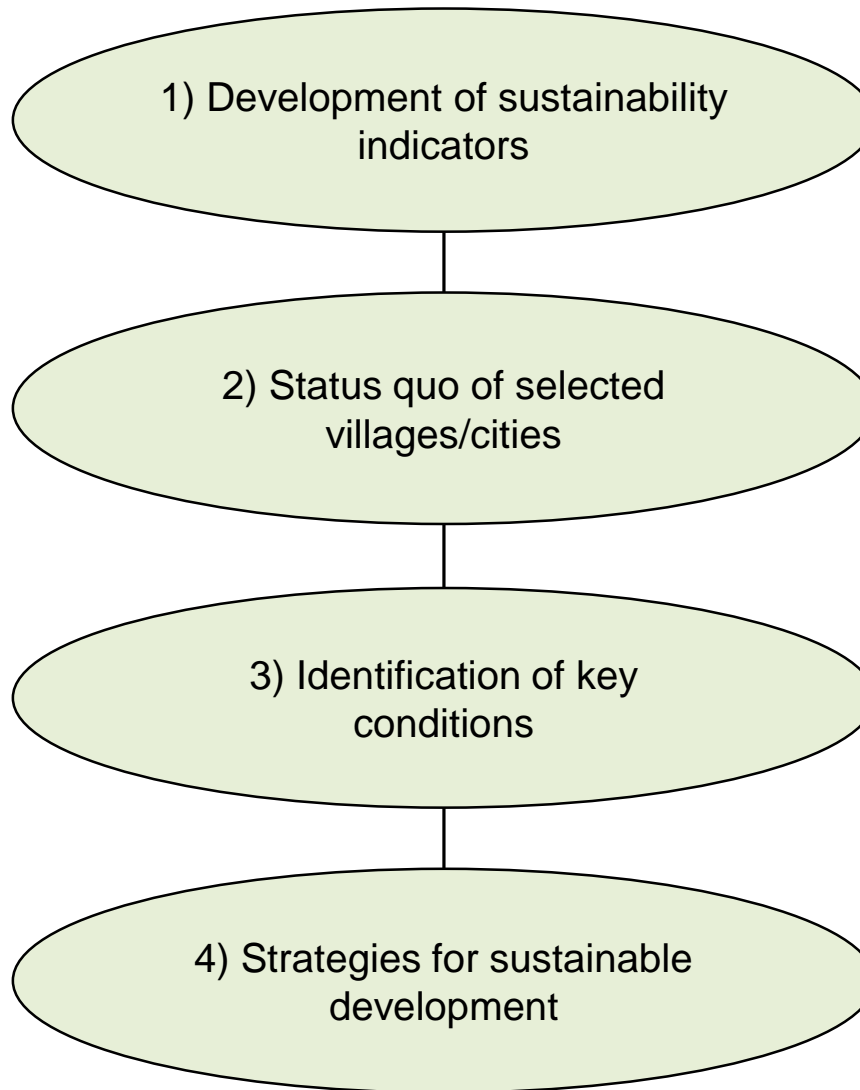


→ Differences in scales and levels of detail

# 1st small workshop in February 2017



Stakeholder involvement from the beginning on



Shared platform for data exchange

# Proposal for COST action

- Life Cycle Assessment as a tool for urban building stock sustainability assessment (LIAISON)
- Working group members from Strasbourg and Karlsruhe
- Submitted in September 2017
  - Harmonise assessment approaches used across Europe
  - Develop integrated approach to enhance LCA of built environment
  - Common guideline and practical examples of integration

# URCforSR

Trinational Workshop of Axis 2

“Energy, Infrastructure and Societal Change”



Working group on:

## TriProsumer for Management and Sharing Energy

~~Micro-grids for self-consumption~~

29 September 2017

Freiburg, Germany

- Project name
  - Tri-national technical and economic modelization of **Prosumers** for Management and Sharing Energy
  - ~~Tri-national technical and economic modelization of micro-grids for self-consumption~~
- short title :
  - **TriProsumer for Management and Sharing Energy**

# Persons, who have expressed their interest to get involved in the proposed topic

## **UHA**

- Ould Abdeslam Djaffar, [djaffar.ould-abdeslam@uha.fr](mailto:djaffar.ould-abdeslam@uha.fr)
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- Colicchio Bruno, [bruno.colicchio@uha.fr](mailto:bruno.colicchio@uha.fr)
- Dieterlen Alain [Alain.dieterlen@uha.fr](mailto:Alain.dieterlen@uha.fr)

## **KIT**

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- Wache Holger, [holger.wache@fhnw.ch](mailto:holger.wache@fhnw.ch)

## **Uni Freiburg**

- Ortolf Christian, [ortolf@informatik.uni-freiburg.de](mailto:ortolf@informatik.uni-freiburg.de)

## **Uni Landau**

- Ampofo Ado, [ampofo@uni-landau.de](mailto:ampofo@uni-landau.de)



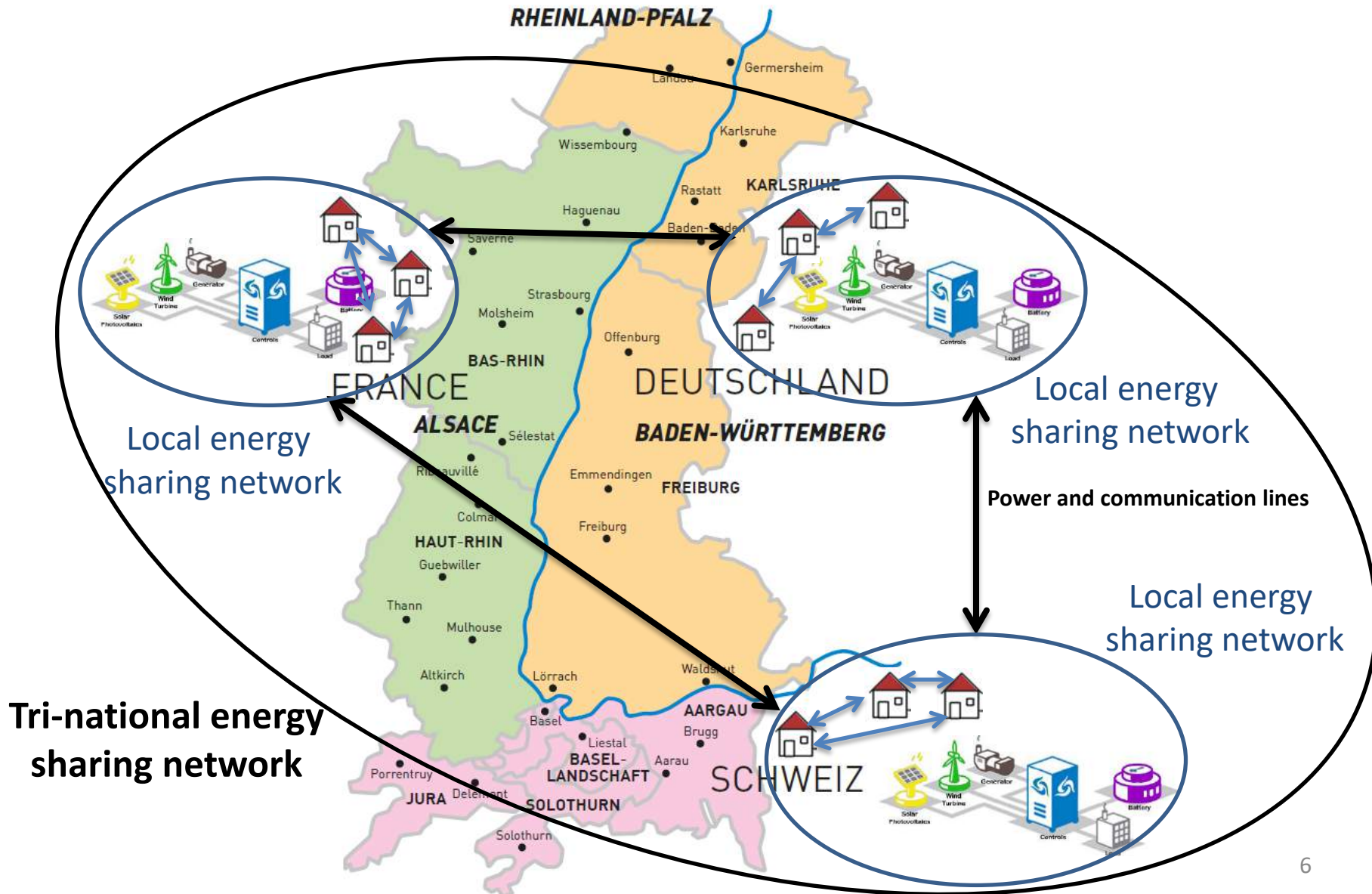
# Preamble

- **Prosumer** : a “consumer” and a “producer
- Produce and share surplus energy with grid and other users
- The term was used for the first time in 1980  
(*Alvin Toffler, “Third Wave”*)
- Industrial or residential prosumers

# Aim of the project

- Mapping prosumers in the Upper Rhine Region.
- Analyzing the impact of prosumers in grids.
- Improve Home Energy Management System (HEMS).
- Propose techno-economic, environmental, and social optimization of prosumers.
- Establish the Prosumer Models for local and tri-national energy sharing network, considering the specific constraints of the three countries.

# TriProsumer for Management and Sharing Energy



# Benefits of the TriProsumer model

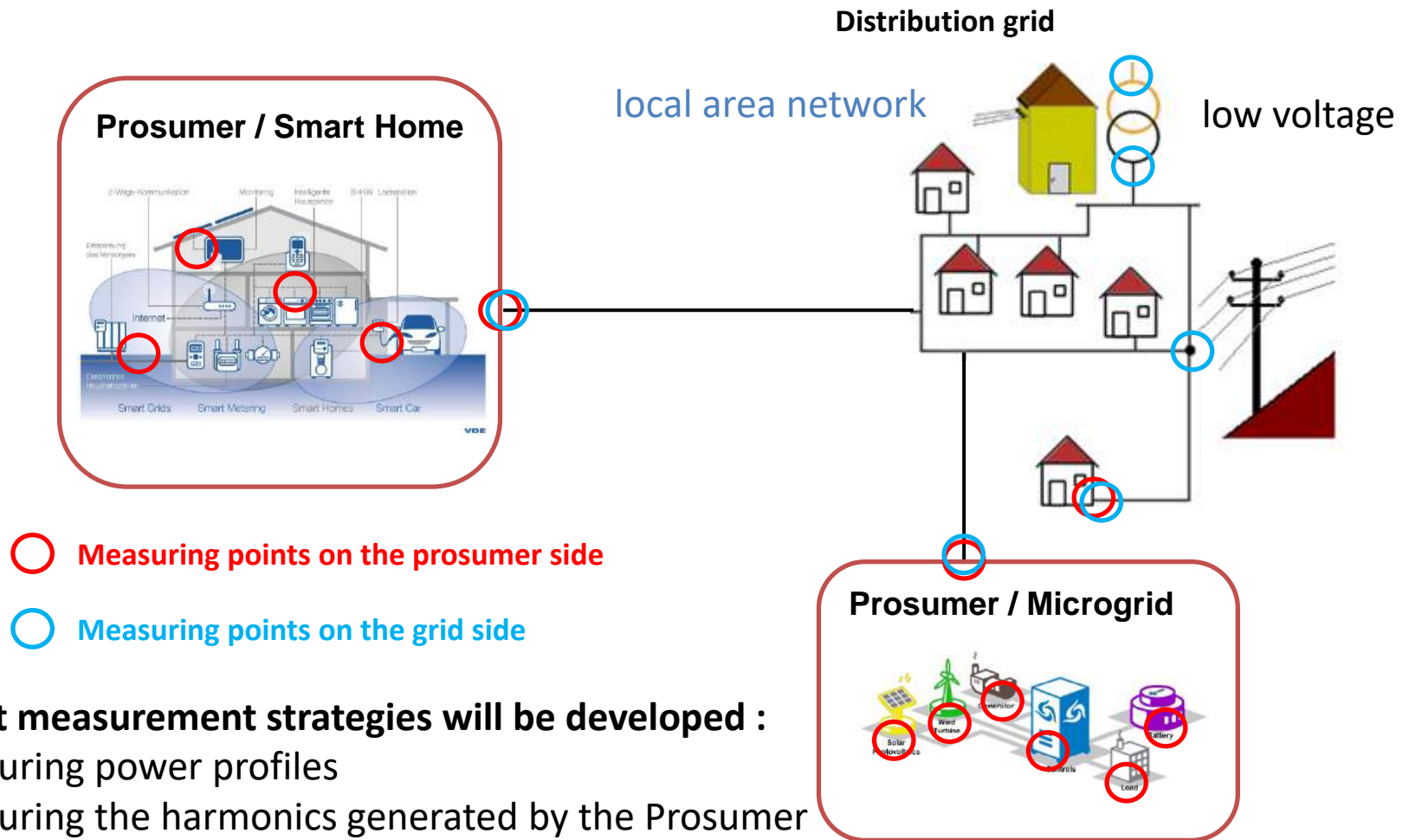
- Increase the autonomy of the green energy production (while increasing the economic interdependence of the grid).
- Control of the stability and the quality of the power grid including prosumers.
- Improve the local use of the produced or stored energy.
- Improve the peak demand management.

# Sketch of content

- Mathematical and economic modelling of the Prosumer as an autonomous system.
- Mathematical and economic modelling of the interaction between the Prosumer and the grid.
- Electrical signal measurements and analysis with advanced techniques.
- Control and optimization techniques.
- Communication technologies.
- Data analytics (statistics, machine learning, ..)
- Economic, environmental, and social optimization.
- ...

# Data Acquisition – First steps

## Overview of possible measuring points

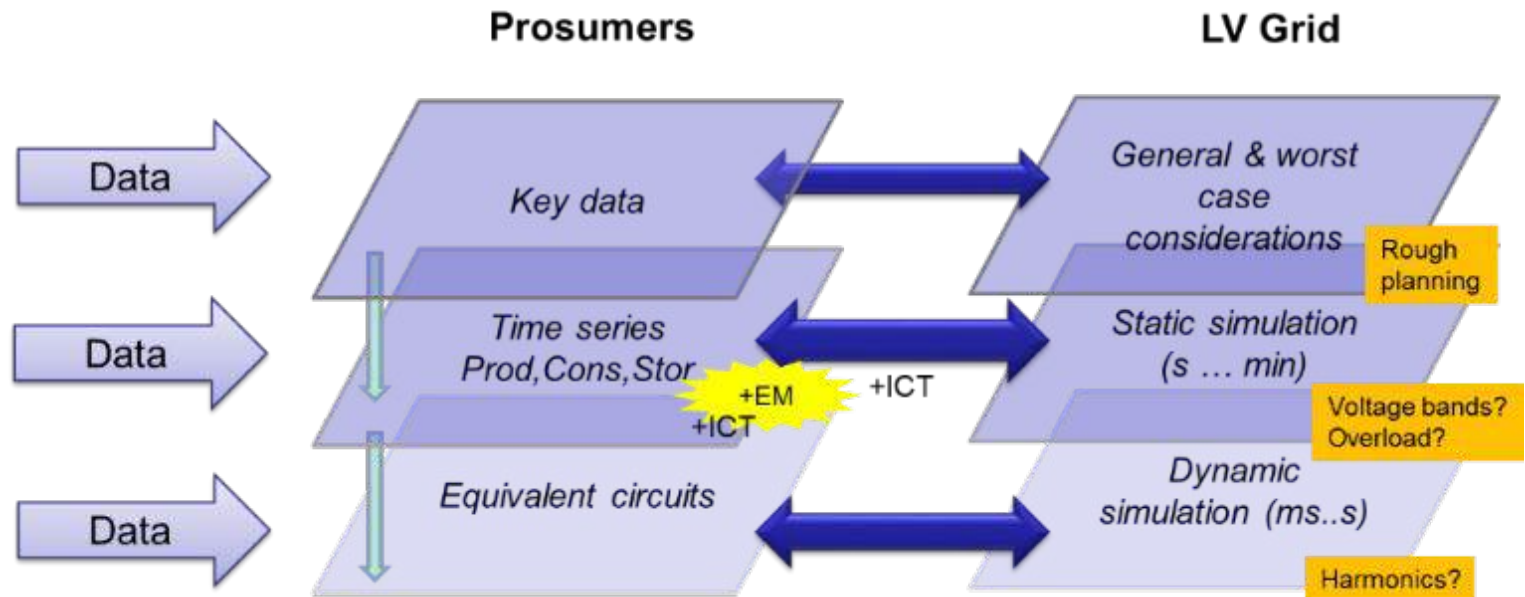


**Different measurement strategies will be developed :**

- Measuring power profiles
- Measuring the harmonics generated by the Prosumer
- Measuring energy flows
- ...



# Multi-scale time model

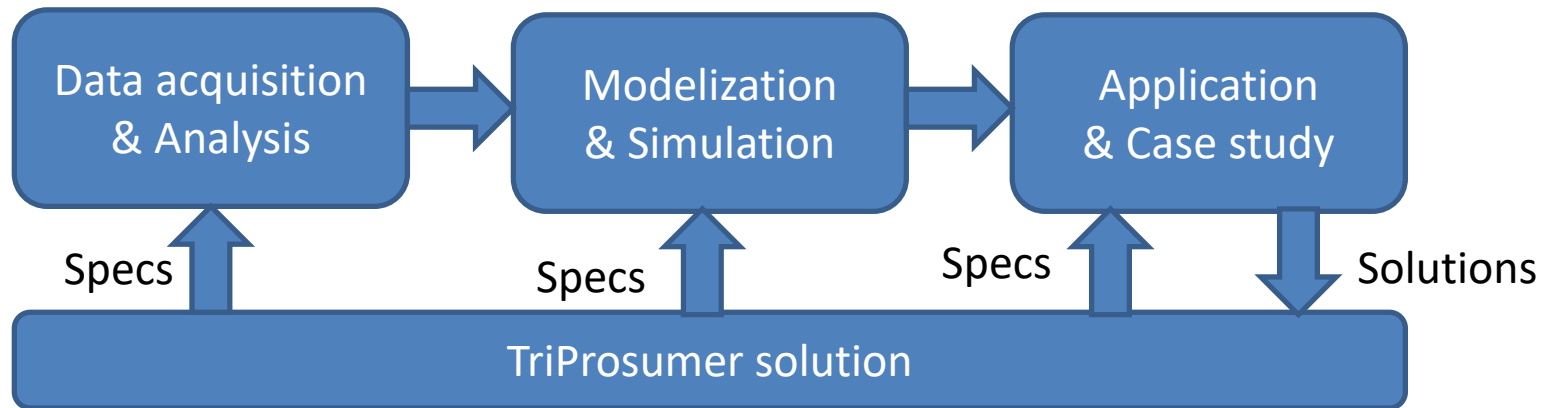


Data on the behavior of the Prosumer and its interaction with the electricity grid will be collected, in cooperation with the project partners in the three countries.

## These data will include:

- Aggregated measures from the power grid.
- Time series with high resolution of active and reactive power.
- Frequency spectra of the individual components of the system, or of the Prosumer.


# General Scheme of the approach



# Existing experimental micro-grids

- Ottmarsheim (Enedis, France),
- Freiamt (Netze, Germany)

# Area of competence (Core competencies)

- FHNW (CH)
    - Application of power electronics in smart grids, physical modeling of energy res. & grid modeling
    - Economics and IT of grid / consumer interaction, Thermal building simulation
  - HSO (D)
    - Grid simulation & stability analysis
    - Variability & uncertainty of RES, RES & Microgrid modeling & -management, numerics & model reduction
    - INES Microgrid/Smartgrid with SmartLink (project with DSO)
    - Storage Technologies, Aging, Battery/grid interaction
  - UHA (F)
    - Signal processing, Artificial Networks, smart metering, pattern recognition & event detection, Power quality
    - Non-intrusive load-monitoring
  - KIT (D)
    - PERSEUS-NET or PowerAce models
    - Modeling the investigated grid/distribution system and provide simulation of energy generation and exchange in/between households of a grid
    - Optimising the use of renewable energy within a grid
  - Uni Landau ...
  - Uni Freiburg ...
-  **To be specified**

# To do:

- Consultation between the partners to better concretize the concept and the original contributions of each.
- **Funding programs**
  - **Offensive Sciences 2018.** Interreg V Upper Rhine, Specific Objective 6  
"Reducing the environmental impact in the development of the economy and urban planning in the Upper Rhine".
- Look for the concrete and real interest of **companies** in the project?
  - We have to contact the companies and check their needs: are they interested in the results of the project? What would be their contribution? What would the project bring them?
- Cooperation with **economists** (impact of a change in business model).

A night photograph of the Three Countries Bridge (Huningue, Weil-am-Rhein, Basel) with its illuminated arch and pedestrian walkway reflected in the water.

**Thank you**

**Contact:**

**Ould Abdeslam Djaffar, (UHA)**

**[djaffar.ould-abdeslam@uha.fr](mailto:djaffar.ould-abdeslam@uha.fr)**

*Three Countries Bridge (Huningue, Weil-am-Rhein, Basel)*





## Axis III) Transformation Processes & Technologies



# Update on Ecohealth Group

Guéladio CISSÉ, Swiss TPH, UniBasel, Switzerland

Mourad ELHABIRI, Unistra, France

Mireille DEL NERO, Unistra, France

Karine PHILIPPE, Unistra, France

Jérémy RIMBON, KIT, Germany

Stéphane VUILLEUMIER, Unistra, France

Renaud TOUSSAINT, Unistra, France

# Outline



- Background
- Objectives
- Achieved actions
- Highlights COST Action submitted application

# Background



- URCforSR
- Meeting in Freiburg (October 2016)
- Set-up of an Ecohealth Group
- Coordination: CH
- Enabler: FR

ICPR 2016

# Actions



ICPR 2016

- 1<sup>st</sup> meeting of Ecohealth Group in Strasbourg (March 2017)
- 2<sup>nd</sup> meeting of Ecohealth Group in Strasbourg (June 2017)
- Submission of a COST ACTION application (September 2017)

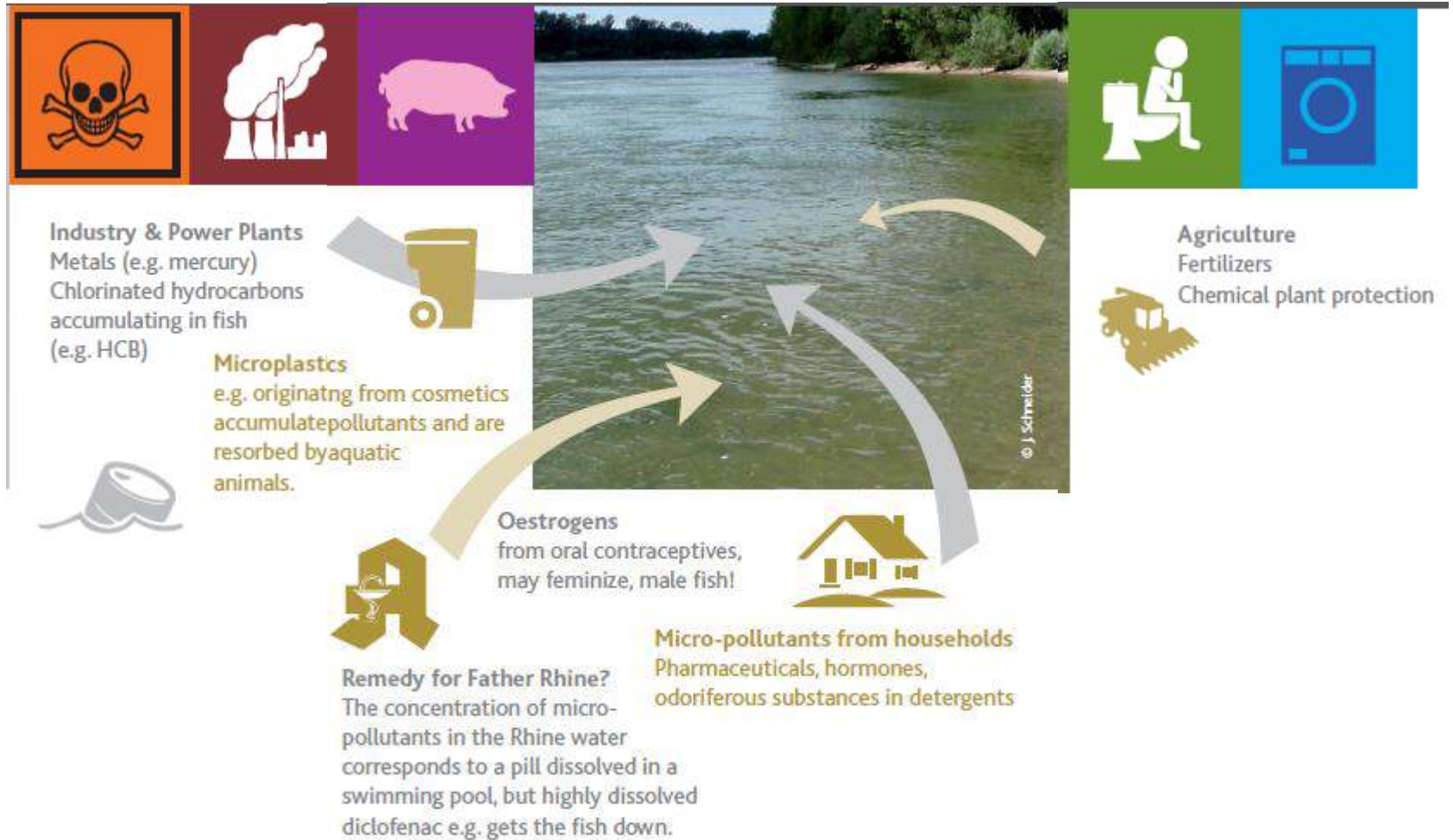
# Highlights

## COST Action Application

### Submitted September 5, 2017



# Background



ICPR 1966

International Commission for the Protection of the Rhine

# COST Action - Ecohealth Group

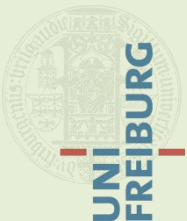
European network

## ***Impact of pollutant transfers and transformations on river basins: an Ecohealth perspective***

Acronym: Ecohealth\_RiBa



**Submitted for the collection date: 7 September 2017, 12:00 noon**



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra



Fonds Européen de Développement Régional (FEDER)  
Europäischer Fonds für Regionale Entwicklung (EFRE)  
Dépasser les frontières : projet après projet  
Der Oberrhein wächst zusammen, mit jedem Projekt



# Justification

- Diffuse pollution
- Europe's river water bodies
- River ecosystems at large
- Several actors
- Health of both ecosystems and humans
- Ecohealth approach

## Impacts of pollutants transfers and transformations on river basin ecosystems and human health

Considering more than only Rhine River

# Objectives



- Share of interdisciplinary knowledge across Europe about the **impacts** of multiple pollutants on
- **ecosystems** (e.g. eutrophication, ecotoxicological effects, others impacts on fauna and flora) and on
  - **human** health
  - from different perspectives including those of all the **relevant stakeholders** living in selected river basins

# Working groups



- *Working group 1:* Physical and chemical pollutants (pesticides, metallic, agro-chemical...)
- *Working group 2:* Biological pollutants (bacteria, parasites, vectors...)
- *Working group 3:* Epidemiological dimensions (impact on ecosystems and human health)
- *Working group 4:* Social, economic and institutional dimensions (perceptions, legislation, management)

# 24 Countries, 50 co-applicants



France

Germany

Switzerland

Bulgaria

Italy

Latvia

Sweden

Finland

Russia

Morocco

Croatia

Egypt

Greece

Hungary

Israel

Netherlands

Norway

Romania

Serbia

South Africa

Sweden

Tunisia

United Kingdom

Estonia



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Der Oberrhein wächst zusammen, mit jedem Projekt





# Thank you very much for your attention

**Ecohealth Group contacts:**

[gueladio.cisse@unibas.ch](mailto:gueladio.cisse@unibas.ch)

[elhabiri@unistra.fr](mailto:elhabiri@unistra.fr)

[kphilippe@unistra.fr](mailto:kphilippe@unistra.fr)



## Axis IV) Resource Management

## Synergies from an Integrated Renewable Energy Supply and Storage System in the Upper Rhine Region (URR): An Interdisciplinary Perspective

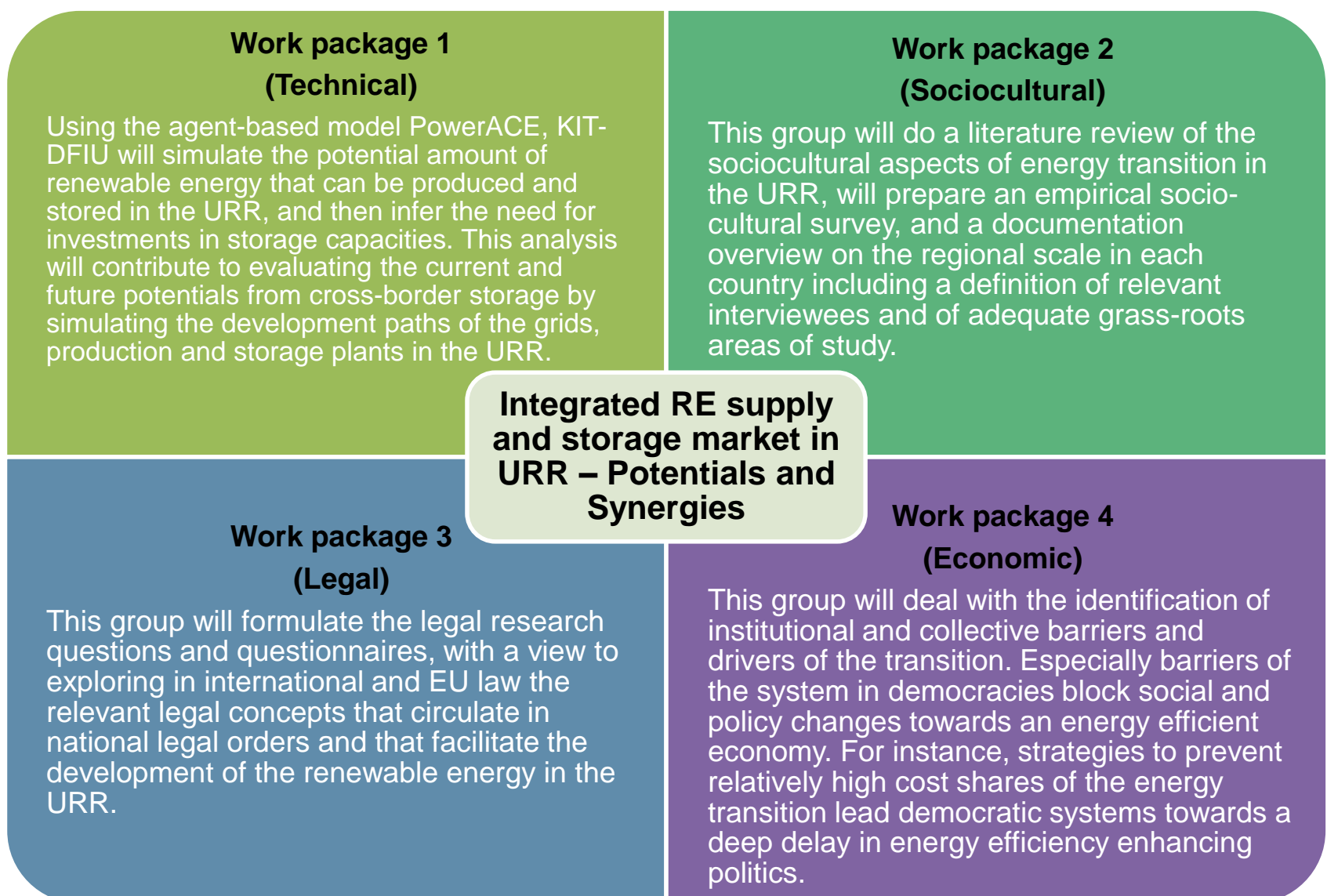


### Axis 4 Resource Management

**Group members:** Barbara Koch (Freiburg), Philippe Hamman (Strasbourg), Sophie Gambardella (Strasbourg), Elisabeth Lambert (Strasbourg), Jens Köhrsen (Basel), Jérémy Rimbon (KIT), Jens-Peter Schneider (Freiburg), Bernhard Neumärker (Freiburg).

**Thematic focus:** The Working Group 'Energy Transformation' in Axis 4 is exploring from at least four different perspectives (technical, economic, legal, sociocultural) the synergies and potentials that would result from an integrated renewable energy supply and storage system in the Upper Rhine Region (URR).

**Aim:** In a first phase, the group will submit a proposal for Eucor Seed-Money (October 2017 call) to fund the concept phase of this project. In a second phase, a full project proposal will be developed. The funding target here is a Horizon 2020 call (Societal challenges) or the LIFE Programme of the European Commission.



**Status Quo:** One group meeting took place on 20 September 2017. Inputs for the Eucor Seed-Money proposal have been delivered by the partners and the joint proposal has been put together.

**Barriers:** Integrating the different perspectives into a coherent project proposal.

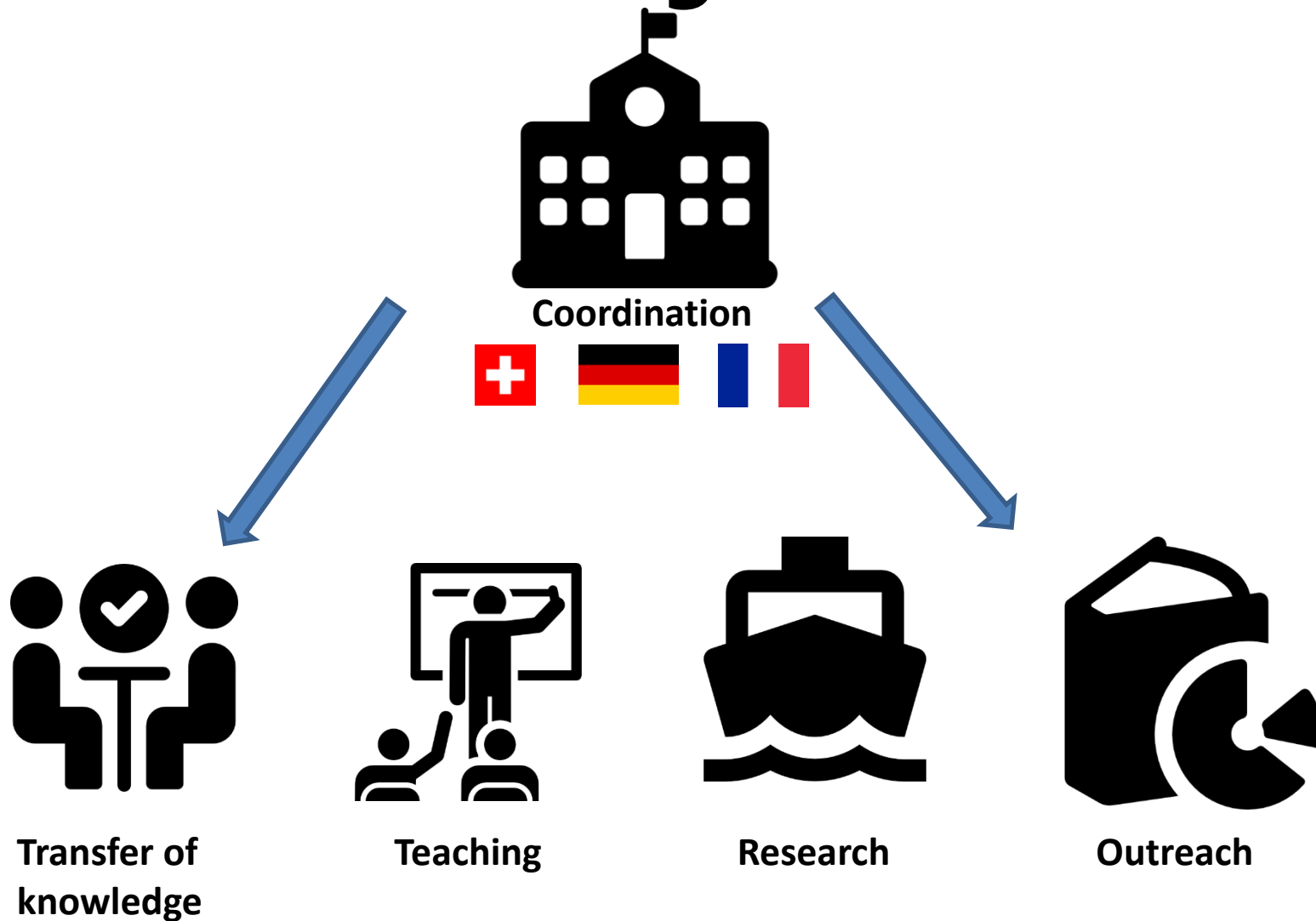
**Contact:** ines.gavrilit@felis.uni-freiburg.de

# Think Tank Rhine River Ecosystems

## Axis 4: Natural Ressource Management

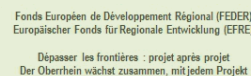
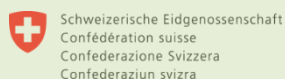


# Main goals



# L'Observatoire de la Recherche du Rhin - Structure

Coordination	Teaching	Knowledge transfer Research & Outreach
Coordination of workshops, stakeholder and expert meetings	European Campus activities	Database + Website (Former projects and current monitoring)
Facilitation of bilateral projects	German-French master modules	Monitoring „cross-view“ management-academic
Screening for funding	Summer/Winter schools „Technical days“	Citizen Science
Provide database of experts	Lecture series „Continuous training“	Conferences (including international)
Analytical Platform → Effective use of laboratories and other research facilities	German-french master/Phd theses (SERIOR)	Transfer studies: Rheinauen bei Rastatt → Rohrschollen → Taubergießen → Petite Camargue
Initiate pilot studies	Student funding for bilateral theses (EUCOR)	ORRS Report on the State of the Upper Rhine





# Next steps:

- **Transfer workshop  
«Taubergießen», 2nd November  
2017**
- **Seed money application**
- **Interreg application (preproposal)**
- **Next workshop: December 2017**

# Members



Prof. Dr. Laurent Schmitt  
(Strasbourg)



Prof. Dr. Frank Preusser  
(Freiburg)



Prof. Dr. Mathias Wantzen  
(Tours/Strasbourg)



Dr. Christian Damm  
(KIT)



Sebastian Brackhane  
(Freiburg)



Prof. Dr. Laurent Schmitt  
(KIT)



Prof. Dr. Carmen de Jong  
(Strasbourg)



Prof. Dr. Thomas Meier  
(Freiburg)



Dr. Claire Rambeau  
(Strasbourg)



Ines Gavrilut  
(Freiburg)



Ines Imbert  
(EIFER/KIT)



Dr. Benoit Sittler  
(Freiburg)



Prof. Dr. Rüdiger Glaser  
(Freiburg)



Mathilda Erfurt  
(Freiburg)



Arjan Conijn  
(Heidelberg)



# Lecture series



Upper Rhine Cluster for Sustainability Research in Zusammenarbeit mit dem Studium generale • Organisation JProf. Dr. Evi Zemanek, Sebastian Brackhane, M.Sc., und Ines Gavrilut, M.Sc.

## Der Rhein: Natur- und Kulturraum

Montag • 20 Uhr c.t. • HS 1010

- 6.11.17 Dr. Irene Haberland (Kunsthistorikerin und Kuratorin, Bonn)  
**„Quod vidi pinxi“ – Rhein-Landschaft und künstlerisches  
Bildgedächtnis**
- 13.11.17 Prof. Dr. Sebastian Brather & Prof. Dr. Alexander Heising  
(Archäologie, Uni Freiburg)  
**Römer und Germanen. Der Oberrhein in der Antike**
- 20.11.17 Prof. Dr. Hanns-Heinz Kassemeyer (Staatl. Weinbauinstitut Freiburg)  
**Nachhaltiger Wein am Oberrhein**
- 27.11.17 Prof. Dr. Achim Aurnhammer (Deutsches Seminar, Uni Freiburg)  
**Der Rheinfluss als Ort der Inspiration**
- 4.12.17 Prof. Dr. Werner Frick (Deutsches Seminar, Uni Freiburg)  
**„Deutschlands Strom“ und Deutschlands Dichter:  
Stationen einer (nicht nur) romantischen Liaison**
- 11.12.17 Prof. Dr. Frank Preusser (Sedimentologie, Uni Freiburg)  
**Der Rhein und seine Entwicklung im geologischen Kontext**
- 18.12.17 Prof. Dr. Albert Reif (Standorts- und Vegetationskunde, Uni Freiburg)  
**Zurück zum wilden Rhein? Auenrenaturierung am Oberrhein**

Peter Birmann: Blick vom Isteiner Klotz rheinaufwärts gegen Basel, um 1819, Öl auf Leinwand, 88,5 x 124,5 cm, Kunstmuseum Basel, Foto: Kunstmuseum Basel, Martin P. Bühler. Gestaltung: Carolin Gluchowski



Studium generale



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
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Der Oberrhein wächst zusammen, mit jedem Projekt





# Transfer workshop

- Where: Taubergießen
- When: 2nd November 2017
- hosted by Jochen Paleit (Mayor of Kappel-Grafenhausen)
- Speaker: Mrs. Schulte-Wülwer-Leidig (Managing Director International Commission of the Protection of the Rhine)



# SCIENCE TRAILS

## UPPER RHINE

**...developing a learning app to transfer knowledge from the class room into the real world.**



Prof. Dr. Barbara Koch  
(Freiburg)



Prof. Dr. Patricia Holm  
(Basel)



Prof. Dr. Laurent Schmitt  
(Strasbourg)



Prof. Dr. Pierre Fluck  
(Mulhouse)



Study points: Low-energy houses GPS



**Sustainability Trail Freiburg**

**Summary:**  
The sustainability trail introduces important examples of sustainable architecture, renewable energy and green industry in the Upper Rhine Region.

**Tasks:**

1. Please find the Heliotrop, a low-energy house in Freiburg, using the following coordinates: 48°00'13.16" N, 7°51'02.07"

Low-energy house  
A low-energy house is any type of house that from design, technologies and building products uses less

Germany Lemorte Account France

Low-energy houses: Heliotrop Freiburg GPS

**Low-energy house**  
A low-energy house is any type of house that from design, technologies and building products uses less energy, from any source, than a traditional or average contemporary house.

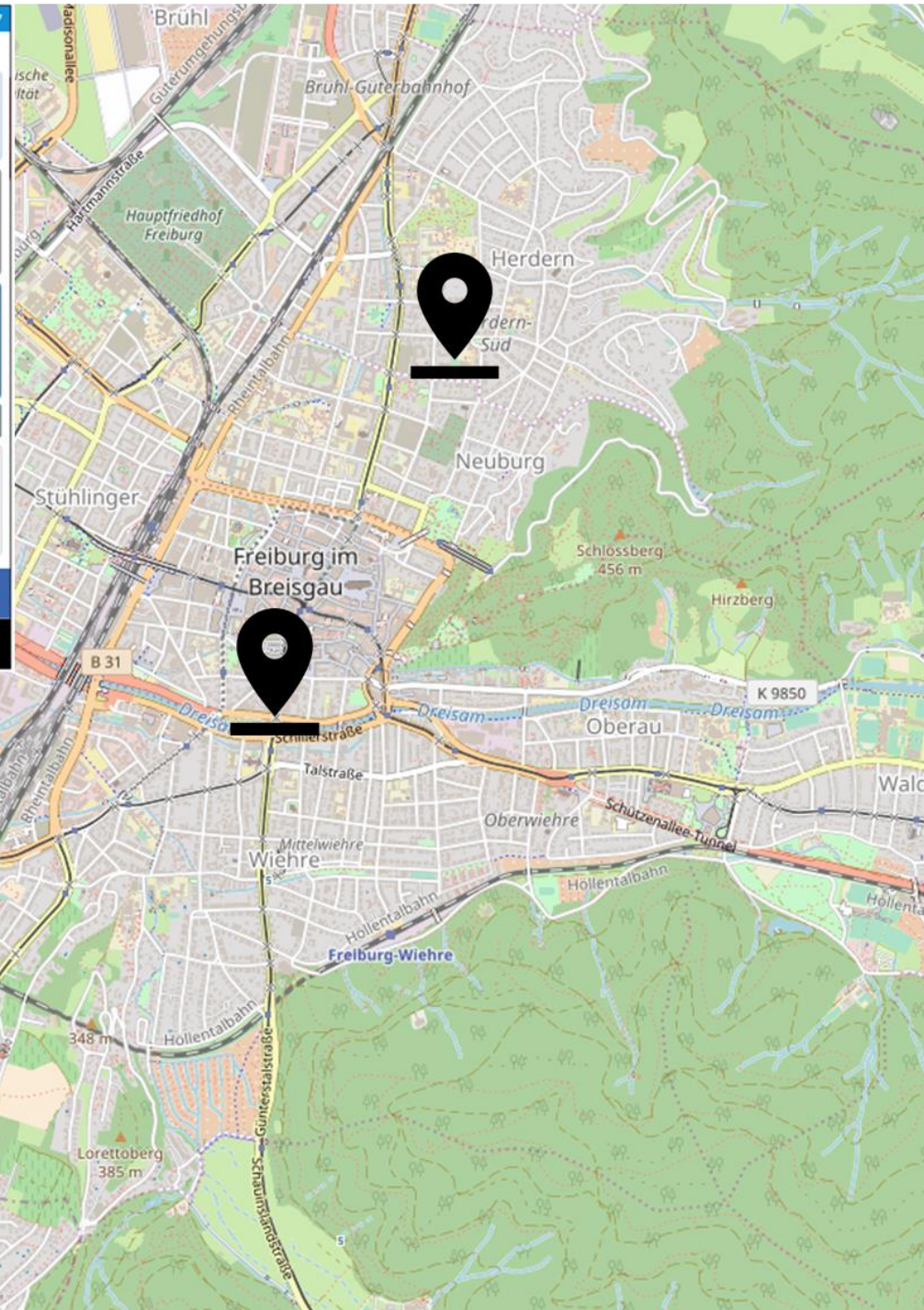
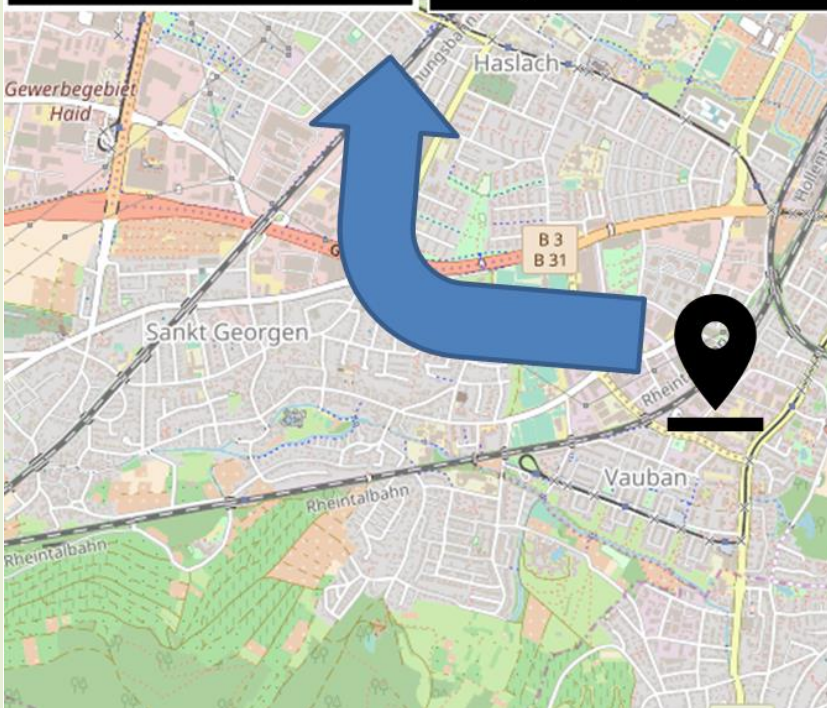
**Video:**  
A short documentary showing the functional principle of low-energy houses.  
Please click to enlarge

**Heliotrop:**  
The Heliotope is an environmentally friendly house designed by the German architect Rolf Disch.  
Please click to enlarge

**Audio guide: Vauban**

**Multiple-/ Single-Choice Test:**  
What is the energy consumption of the Heliotrop?  
120 Watt.....  
20 kWh.....  
The Heliotrop produces energy (EnergyPlus).....  
0 energy consumption.....

Germany Lemorte Account France





Merci! Thanks! Danke!

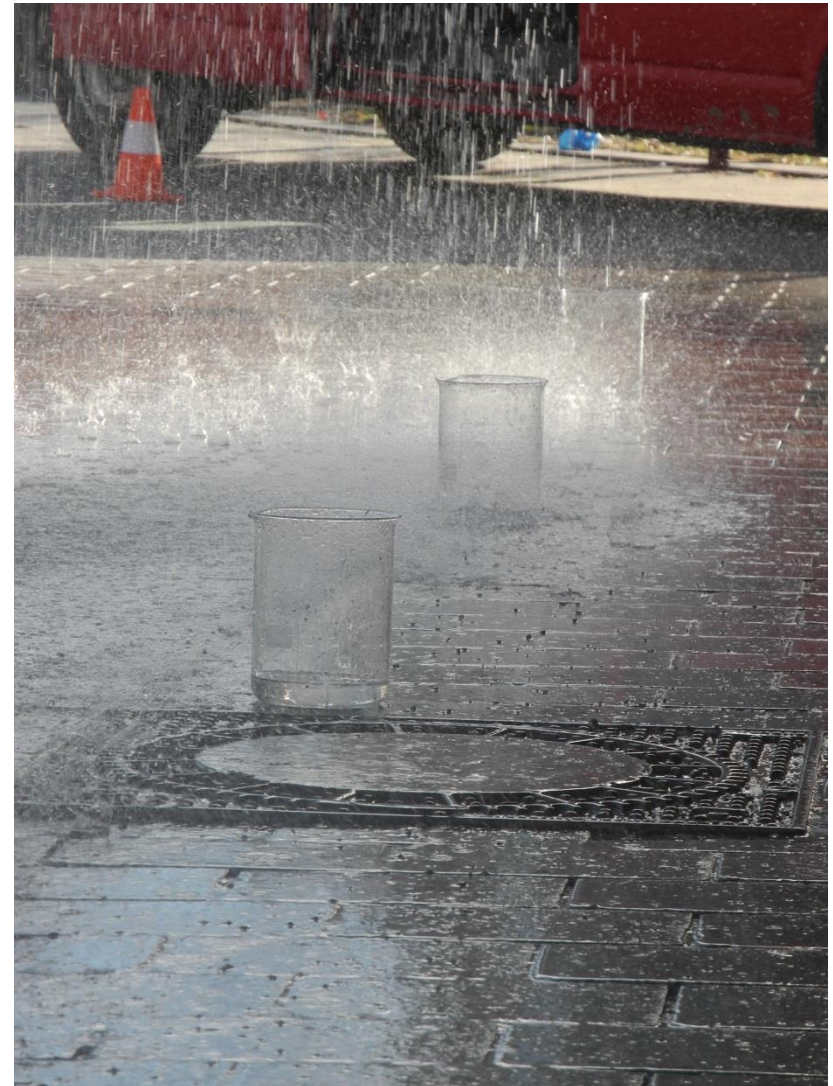




## Réduction de l'apport de biocides dans les eaux souterraines du Rhin supérieur/ NACHHALTIGE VERRINGERUNG DES BIOZIDEINTRAGS IN DAS GRUNDWASSER AM OBERRHEIN (Axis IV: Natural Resource Management)



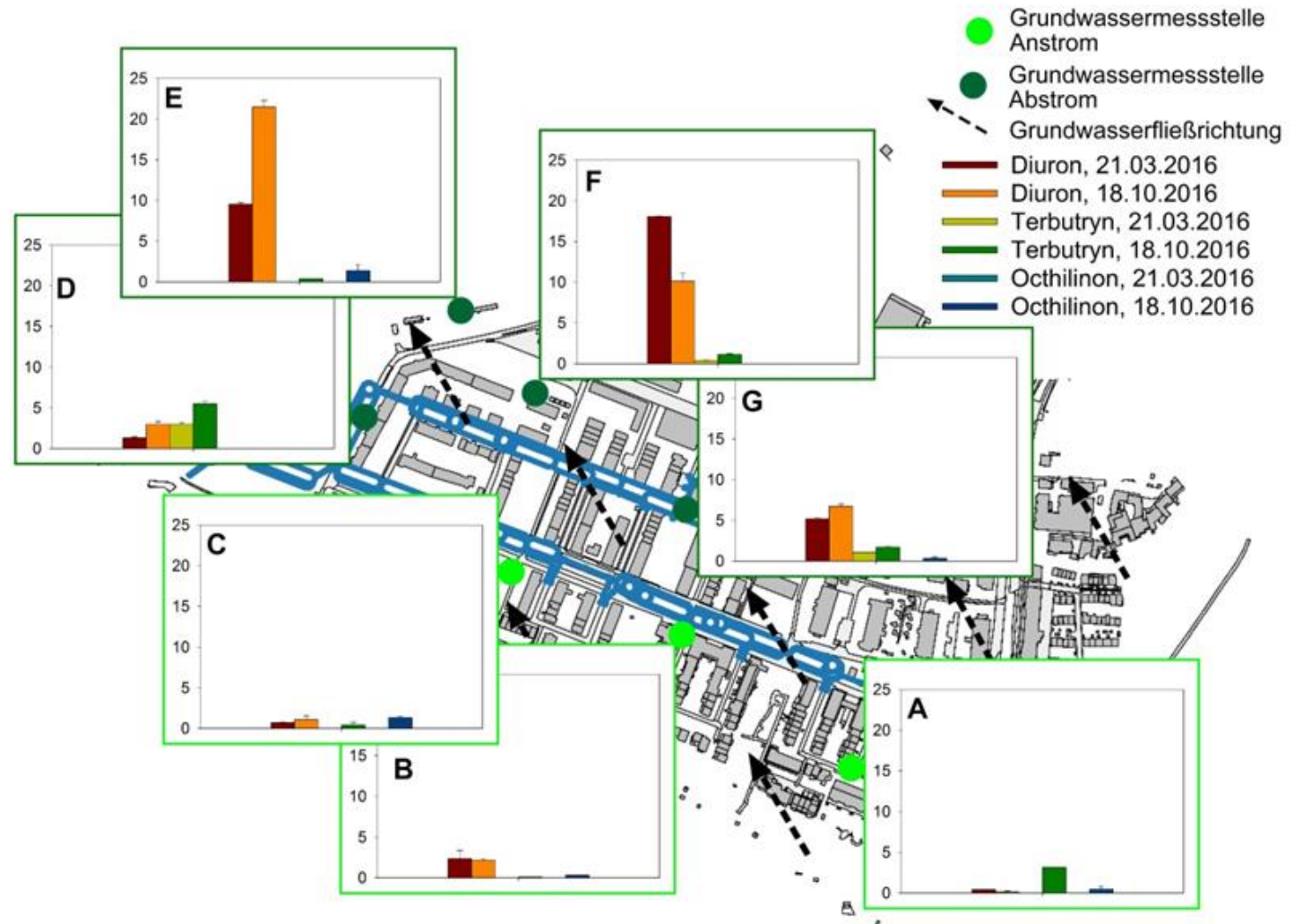
# The input of biocides from urban facades into groundwater was proved in Freiburg



*Sprinkling experiment of an urban facade*



# The input of biocides from urban facades into groundwater was proved in Freiburg



*Results of the groundwater monitoring*

## Project aims

- Reduction of the biocide use in building facades by actions deduced from actor analyses in France and Germany.
- Identification of transfer and transformation hotspots by monitoring campaigns and laboratory/field experiments.

## Outreach

- Risk assessment and implementation of practical measures in the cities of Strasbourg and Freiburg.

# Team



Prof. Dr. Jens Lange\*  
(Freiburg)



Prof. Dr. Gerhard Schäfer  
(Strasbourg)



Prof. Dr. Frank Preusser  
(Freiburg)



Prof. Dr. Maurice Wintz  
(Strasbourg)



Dr. Gwenaël Imfeld  
(Strasbourg)



Dr. Sylvain Payraudeau  
(Strasbourg)



Dr. Oliver Olsson  
(Lüneburg)

# Funding: INTERREG-V

Submission of the Preproposal: asap  
(October 2017)

Merci! Thanks! Danke!





## Axis V) Multiculturalism & Multilingualism

# Axis 5

## Sustainability Discourse

Presentation at URCforSR Workshop  
29 September 2017, Freiburg

Dr. Melanie Ströbel (Enabler, Universität Koblenz-Landau)

## Discourse Group

Oliver Frör	(Landau)
Philippe Hamman	(Strasbourg)
Jens Köhrsen	(Basel)
Jürgen Kopfmüller	(KIT)
Tobias Schlechtriemen	(Freiburg)
Melanie Ströbel	(Landau)
Maurice Wintz	(Strasbourg)

### Heads

Prof. Dr. Oliver Frör (Universität Koblenz-Landau)  
Florence Duchêne-Lacroix (Université Haute-Alsace)

### Enabler

Dr. Melanie Ströbel (Universität Koblenz-Landau)  
Axelle Lutz (Université Haute-Alsace)

## Activities and future plans

February 2017    Small Workshop

March 2017        Big Workshop

June 2017         Small Workshop

October 2017      Small Workshop

March 2018        Submission of Proposal to DFG-ANR  
Social Sciences Call

Heads  
Prof. Dr. Oliver Frör (Universität Koblenz-Landau)  
Florence Duchêne-Lacroix (Université Haute-Alsace)

Enabler  
Dr. Melanie Ströbel (Universität Koblenz-Landau)  
Axelle Lutz (Université Haute-Alsace)

## Project details

Key theme: Sustainability - understandings, pathways, and alternatives in the French-German context

Five themes:

- Cultural Perceptions
- Sustainability Aspects and Cultural Preferences
- Alternatives to the 'Sustainable Development' Paradigm
- Post-Growth
- Future Scenarios

Heads

Prof. Dr. Oliver Frör (Universität Koblenz-Landau)  
Florence Duchêne-Lacroix (Université Haute-Alsace)

Enabler

Dr. Melanie Ströbel (Universität Koblenz-Landau)  
Axelle Lutz (Université Haute-Alsace)

# Axis 1 & 5

## Household Energy Consumption

Presentation at URCforSR Workshop  
29 September 2017, Freiburg

Dr. Melanie Ströbel (Enabler, Universität Koblenz-Landau)



## Group

Paul Burger	(Basel)
Mehdi Farsi	(Neuchâtel)
Oliver Frör	(Landau)
Iljana Schubert	(Basel)
Annika Sohre	(Basel)
Melanie Ströbel	(Landau)

Heads  
Prof. Dr. Oliver Frör (Universität Koblenz-Landau)  
Florence Duchêne-Lacroix (Université Haute-Alsace)

Enabler  
Dr. Melanie Ströbel (Universität Koblenz-Landau)  
Axelle Lutz (Université Haute-Alsace)

## Activities and future plans



July 2017      Small Workshop

October 2017      Small Workshop

Aim      Submission of DACH Proposal

Current status      Working paper  
Proposal outline



Heads  
Prof. Dr. Oliver Frör (Universität Koblenz-Landau)  
Florence Duchêne-Lacroix (Université Haute-Alsace)

Enabler  
Dr. Melanie Ströbel (Universität Koblenz-Landau)  
Axelle Lutz (Université Haute-Alsace)



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Confederaziun svizra

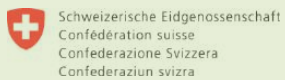


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# THANK YOU!



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Der Oberrhein wächst zusammen, mit jedem Projekt



# „Meeting points for a cultural sustainability in Upper Rhine“

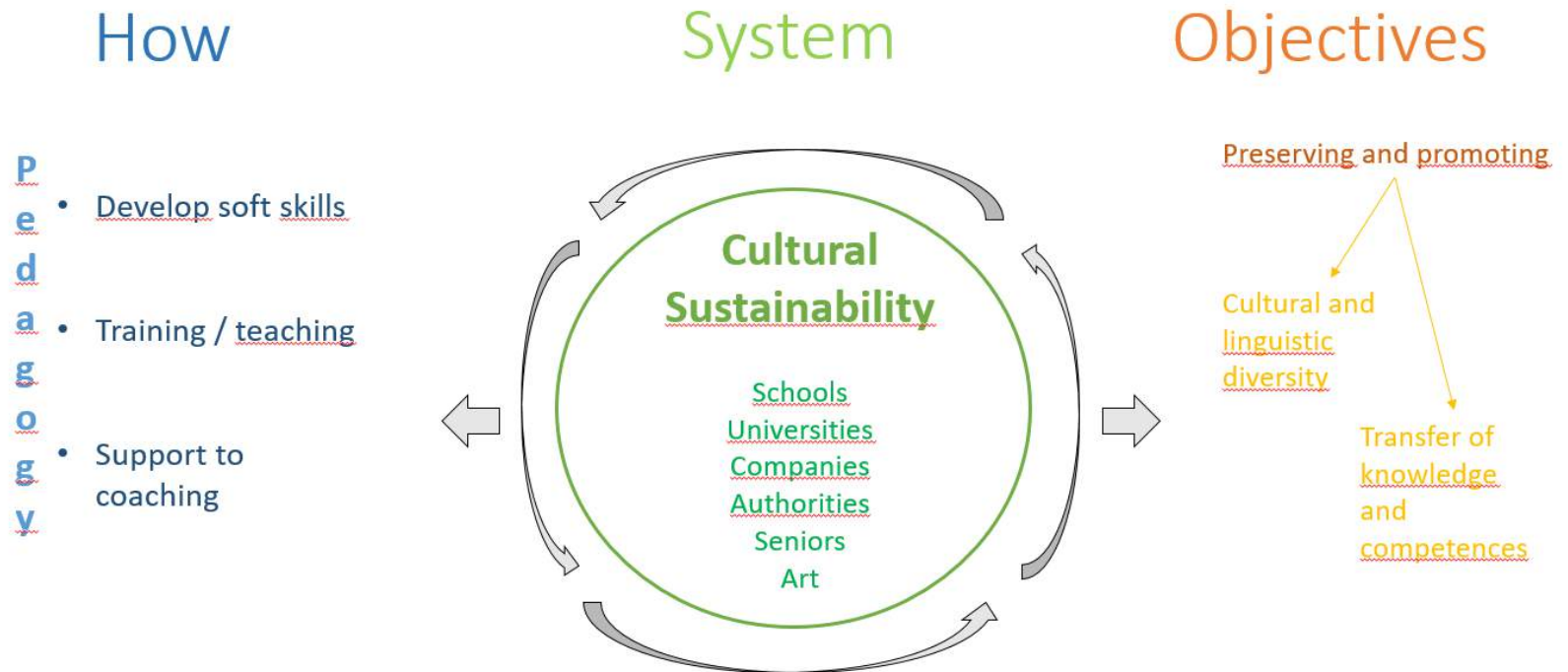
## Axis 5 – Multiculturalism and multilingualism

Sabine Diao-Klaeger – French linguistics, UNIKOLD

Sophie Wodociag – CREGO, UHA

Johann Chalmel – NovaTris, LISEC, UHA

# First idea





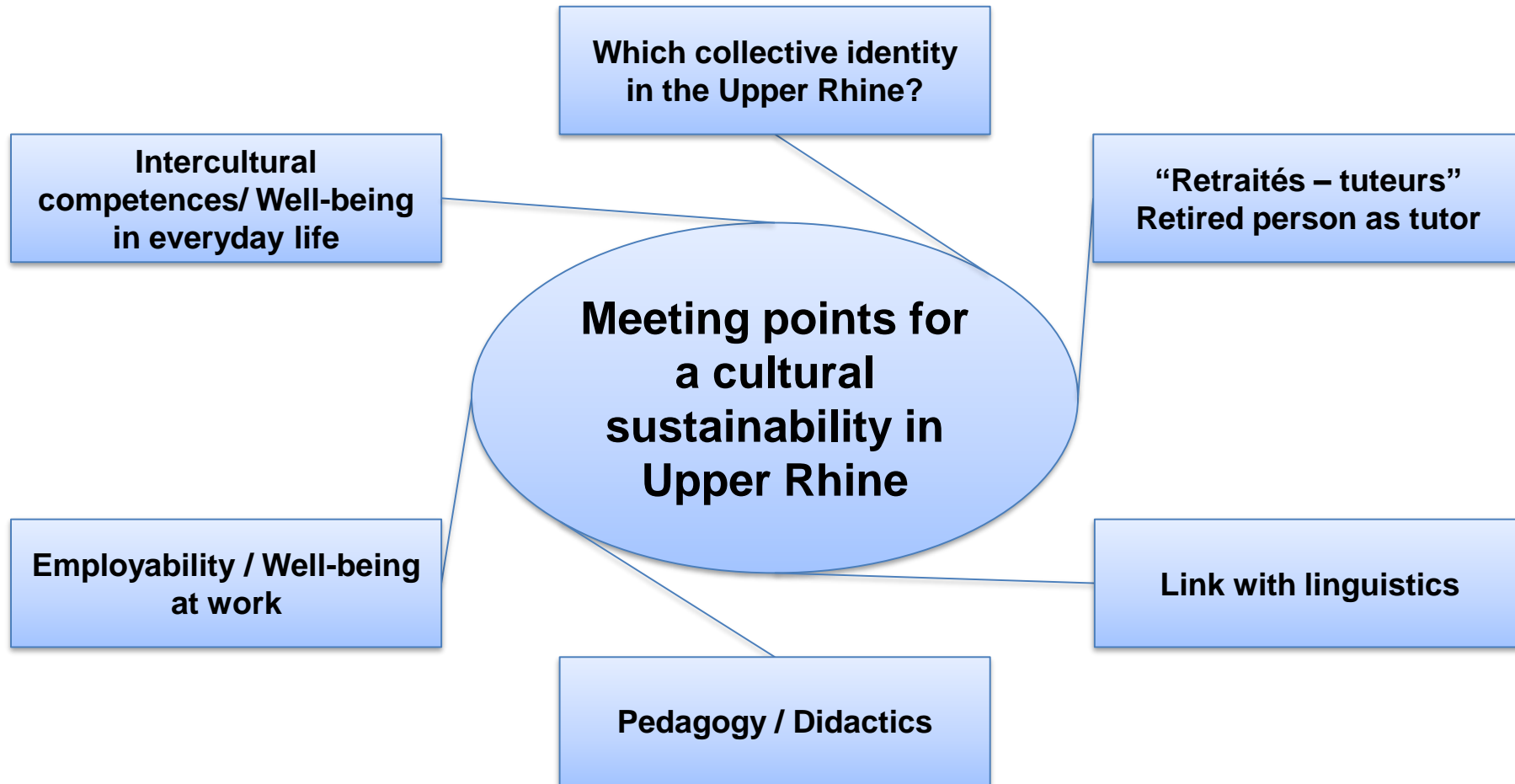
# *First steps*

Definition – cultural sustainability

Working group with a lot of disciplines:

- Management
- Social sciences
- Linguistics
- Education / pedagogy
- Historical science

# Today

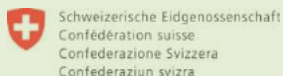


# Next Steps...



## Research and studies in progress

- Meeting Points in the Upper Rhine: Identity and Cultural Convergences and Divergences. Exploratory and qualitative study (interviews, 90 participants, 30% Swiss, 30% French, 30% German). Translation and analysis of the collected material in progress
- Retired Employees - Tutors Project (in progress)
- Competences, Intercultural Competences and Employability in the Upper Rhine: Which stakeholders and which expectations ? Exploratory and qualitative study (interviews, 47 participants, 13 students, 13 employees, 13 employers, 8 institutional actors). Wodociag, Lutz, Ghislieri, "*Les compétences interculturelles au cœur des attentes du marché de l'emploi du Rhin Supérieur* », VIIème International Congress AFMI ATLAS, Madagascar, 2-5 May 2017



# ***Next Steps...***

## **Research and studies in progress**

- Cross boarder Employees in the Upper Rhine: Career and Work conditions. Exploratory and qualitative study (interviews, 70 participants). Analysis of the collected material in progress. Sub-research group already obtained a NovaTris funding

## **Specific action proposal**

- Pedagogical proposals / Didactical proposals
- Link with linguistics
- New colleague working in the History field of study
- Conference and publications

**You are all welcome if you are  
interested in this project !**

**Thank you for your attention**





### III) Financing & North America

# Eucor – The European Campus

## Financial opportunities and more

## Eucor - The European Campus

the European future of the universities on the Upper Rhine

Emergence of a clearly profiled science and research area

- Enhanced visibility at the national and international level
- Establishment of strong partnerships for long-term collaborations in research, instruction and doctoral training.



# The 5 member universities

**Eucor – The European Campus:** the first European Grouping of Territorial Cooperation (EGTC) founded solely by universities  
*A European legal entity – “on the path to the first European university”*



**UNIVERSITÄT BASEL**  
Founded in 1460  
14.000 students  
[www.unibas.ch](http://www.unibas.ch)



**KARLSRUHE INSTITUTE  
OF TECHNOLOGY**  
Founded 1825  
25.000 students  
[www.kit.edu](http://www.kit.edu)



**ALBERT-LUDWIGS-  
UNIVERSITÄT FREIBURG**  
Founded in 1457  
25.000 students  
[www.uni-freiburg.de](http://www.uni-freiburg.de)



**UNIVERSITÉ DE  
HAUTE-ALSACE**  
Founded in 1975  
8.000 students  
[www.uha.fr](http://www.uha.fr)



**UNIVERSITÉ DE STRASBOURG**  
Founded in 1621  
50.000 students  
[www.unistra.fr](http://www.unistra.fr)

# The European Campus in numbers

- **2.300.000.000 €**  
Total budget of the 5 universities
- **115.000**  
Students
- **15.000**  
Researchers
- **11.000**  
PhD candidates

A “critical mass” on the European and international scale





# Vision and long-term goals

- The European Campus is a **cross-border university alliance** that preserves the autonomy of the partner universities, while at the same time enabling them to submit **joint funding proposals** in Germany, France, Switzerland, and Europe as an autonomous entity.
- The European Campus means **joint professorships**, joint administrative personnel, joint service departments, joint doctoral candidates and students, joint research projects, and dual degrees
- The European Campus has **common research infrastructures** and will serve as a magnet for attracting the best young academics and international students
- The European Campus is a **pioneer** that can be emulated by other cross-border regions

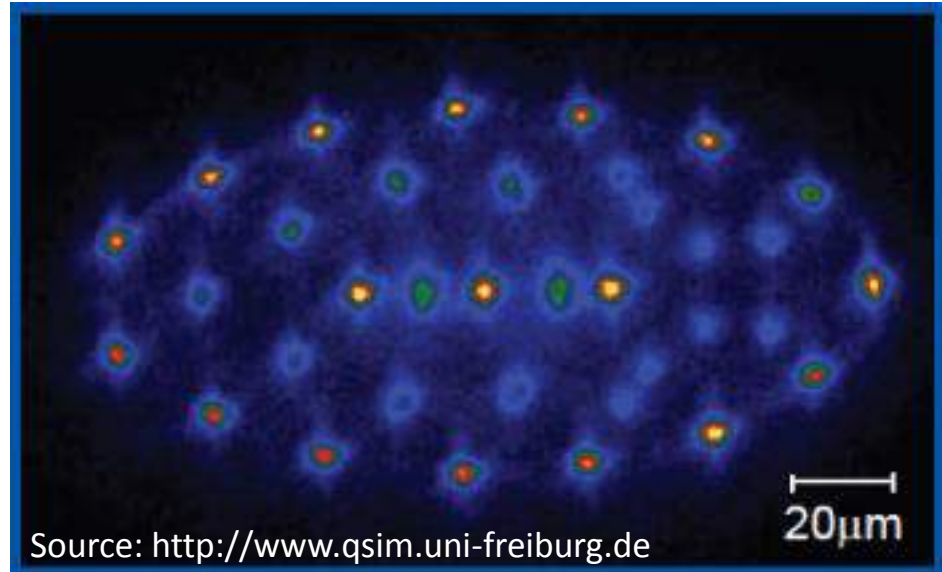
## Workpackages of the EU-financed Interreg Project (2016-2018):

- Establish a **common strategy** and development plan for the European Campus (emerging fields in research, smart specialization)
- Work out conditions for **joint appointments** of academics (co-options and/or cross-appointments)
- **Common fund-raising** for collaborative research projects (mapping, joint science support centre...)
- Develop new, innovative **international degree programs** (Liberal Arts and Science Programs, Fast-track-PhDs)
- Strengthen the **regional connections to the labour market** (career opportunities and links to enterprises)
- Improve the **intercultural competencies** of the academics and the admin staff
- Develop a common **internationalization** strategy

## Recent example for successful European Campus cooperation

### **“QUSTEC”: “QUantum Sciences and Technology at the European Campus”**

- Graduate Academy based on 4 member universities + IBM
- Proposal submitted within the H2020 MSCA “Cofund”
- Up to 50 joint PhD students
- Shared core facilities
- Business partners (sensing); total budget of 10 Mio EUR (if proposal accepted)



### **Added value of the European Campus**

- Common strategic lobbying towards the European Commission: Lol by the PIs and the President of the European Campus to participate in the Upcoming Flagship Initiative de l'Union européenne
- The legal entity of the EGTC can be used for joint applications

# Seed Money for the European Campus

## Initiate new and innovative collaborations

- Annual budget of 300,000 EUR provided by the member universities to the EGTC for 3 years (2018, 2019, 2020)
- Main eligibility conditions for collaborations
  - Between at least 2 member universities,
  - Of at least 2 countries,
  - In Research, Innovation and Education.
- Maximum amount per project: 60.000 EUR for a total duration of maximum 18 months



## Call for proposal 2017:

- Deposal deadline : **2 October 2017**
- Earliest starting date for the funding: 01/01/2018

→ **For more informations**  
[www.eucor-uni.org/seed-money](http://www.eucor-uni.org/seed-money)  
[seed-money@eucor-uni.org](mailto:seed-money@eucor-uni.org)

## Interreg VA Upper Rhine: **3 main funding possibilities**

### 1. **Science Offensive of the RMT/TMO**

- 3rd call for proposals will come in 2018
- Total volume up to 7 Million Euros (in 2016)
- Project lead has to be in the French or German parts of the Upper Rhine
- Cofinanced by Interreg (50%) and regional partners (25%)
- Max. 1 Mio. total budget per project
- Competitive call based on excellence (peer review)
- Eligible research topics
  - Renewable energies, Technologies in the field of energy and environment, rational resource management, green economy
  - Sustainable mobility, automotive construction, transport and logistics
  - Information and Communication Technologies, Green IT, smart products
  - Health and Care, medical technologies, better living and better ageing



## Interreg VA Upper Rhine: **3 main funding possibilities**

### 2. Call for interest within the axis A “intelligent growth”

- The participation to the Call of interest is the **last opportunity** to still pretend funding within the ongoing Interreg VA Programme (besides the possibility to participate in the Offensive Science).
- 50% cofinancing of the Interreg-VA-Programme
- 3 specific objectives of this axis:
  - Objective 1 : Increase the cross-border capacities for a top level Research and Innovation in the Upper Rhine
  - Objective 2 : Increase the participation of companies in cross-border projects in Research and Innovation in partnership with Higher Education and Research Institutions
  - Objective 3: Increase the number of applications and innovations developed by the cross-border consortia of the Upper Rhine
- Final deposit date for the templates within the call for interest : 3 April 2018, 12.00 am

## Interreg VA Upper Rhine: **3 main funding possibilities**

### **3. Call for interest within the axis D “Cooperation of public administration and the civil society”**

- 50% cofinancing of the Interreg-VA-Programme
- 2 specific objectives of this axis:
  - Objective 11 : Improve the cross-border services of the administrations and institutions
  - Objective 12 : Increase the identification of the citizens with the cross-border Upper Rhine Region
- Final deposit date for the templates within the call for interest : 15 January 2018, 12.00 am

**Thank you for your attention!**

**Janosch Nieden**  
**Director of the Coordination Office**  
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Tél.: +33 3 68 85 82 93

# Funding Options

## URCforSR Annual Workshop

September 29, 2017 in Freiburg

**Dr. Björn Goldammer**

University of Freiburg

Freiburg Research Services

Science Support Centre

Albert-Ludwigs-Universität Freiburg



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FREIBURG

## General remarks

### Freiburg Research Services

- International Graduate Academy (IGA)
- EU-Office
- Transfer-Coaching
- [Science Support Centre](#)

↳ support for national and non EU international funding schemes

### Dr. Björn Goldammer

- Faculty of Environment and Natural Resources
- Faculty of Economics and Behavioral Sciences
- Faculty of Law





## Outline

- DFG – ANR / DFG – SNF Funding
- Funding by the German Government
- Foundations
- Startup-Funding
- Freiburg Funding Database
- Contact



## Joint Proposal Submission with Austria and Switzerland (D-A-CH): DFG and SNF

### Research Grants

- "Lead Agency" process
- 3 years funding
- Swiss deadlines: April 1st and October 1st

### Research Units (Forschergruppen)

- 2x3 years
- < 9 PIs (sub-projects)
- **up to two Swiss sub-projects** or participations in German sub-projects (for exceptions please contact DFG)

## Joint Proposal Submission with Austria and Switzerland (D-A-CH): DFG and SNF

- Lead Agency: organization where the higher funding amount is requested. In unclear or borderline cases, the funding organisations involved must be contacted prior to submission.
- In projects in which only a very small proportion of the work is carried out in Germany or Switzerland, funding can be fully covered by the agency (DFG or SNF) with the larger financial burden ("Money Follows Cooperation Line").
- Neither DFG nor SNF make special funds available for the funding of those cooperation projects. Proposals compete with all other proposals in the same programme. → **After peer review proposals have to pass the national review boards.**

→ talk to your DFG contact

## **DFG – International Research Training Group (Internationales Graduiertenkolleg)**

- joint doctoral training programme between a German university and a university abroad
- About 20 doctoral researchers from each University; 10-15 funded by DFG
- 4,5 years (9 years if funding is continued on evaluation)

## **SNF: National Research Programmes (NRPs)**

- Participaton of German partners is possible
- e.g. National Research Programme "Sustainable Economy"

## International Cooperation DFG-ANR

### ANR-DFG Funding Programme for the Humanities and Social Sciences

- There are no specifications as to research topics.
- Proposals for projects with components of data-related infrastructures are also possible.
- up to three years
- No open call (deadline was March 15, 2017)

### ANR-DFG Cooperation in Natural, Life and Engineering Sciences

- (deadline was October 27, 2016)
- No open call

## (Again:) **DFG – International Research Training Group (Internationales Graduiertenkolleg)**

- joint doctoral training programme between a German university and a university abroad
- About 20 doctoral researchers from each University; 10-15 funded by DFG
- 4,5 years (9 years if funding is continued on evaluation)

## **Open Research Area (ORA) for the Social Sciences**

- ORA is an agreement between ANR, France, DFG, Germany, the Economic and Social Research Council (ESRC, UK) and the NWO, Netherlands.
- Deadline for Outline Proposals was: 5 July 2017



## Project funding by the German Government

- Energy Transition
  - Sustainable development
  - Green Economy
  - Bioeconomy
  - Environment and Climate
  - Electromobility
  - Social-Ecological Research
  - ...
- ➔ Look for calls for applications



Bundesministerium  
für Bildung  
und Forschung



Fachagentur Nachwachsende Rohstoffe e.V.



Bundesamt  
für Naturschutz



Bundesanstalt für  
Landwirtschaft und Ernährung

<https://www.bmbf.de/foerderungen/>

## Project funding by the German Government

### BMBF: Junior Research Groups in Sustainability Research

- 5 years
- team of up to 5 young researchers
- deadline for draft proposals: April 27 (once a year)



### BMBF: Junior Research Groups "Bioökonomie als gesellschaftlicher Wandel"

- 5 years
- team of up to 5 young researchers
- deadline for draft proposals: January 17, 2018



## **Franco-German Fellowship Programme on Climate, Energy and Earth System Research Funding of research groups within the framework of the implementation of the Paris Climate Agreement**

- Researchers from all over the world to cooperate with German and French partners to advance sustainability research:
  1. Research on climate change
  2. Research for the energy transition
  3. Research to understand the Earth system.
- 4 years, up to 1 million euros for juniors and up to 1.5 million euros for senior researchers
- staff (including position of the applicant), consumables, materials
- Application deadline for statement of interest: 13 October 2017 (full proposals: February 15, 2018)

## Deutsche Bundesstiftung Umwelt (DBU - (German Federal Environmental Foundation)

### Project funding

- exemplary and solution-oriented model projects for the protection of the environment
- sustainable development in its ecological, economic, social and cultural aspects, with special consideration of small- and medium-sized businesses in their dynamic diversity
- “normal” project + grant size: 3 years





## Europe and Global Challenges

(Riksbankens Jubileumsfond / VolkswagenStiftung /  
Welcome Trust)

- International research group with non-European partners
- 500,000 – 900,000 Euros for up to four years of research.
- No open call.

## Belmont Forum

- 2017: Transformations to Sustainability
- 2016: Sustainable Urban Global Initiative (SUGI):  
Food-Water-Energy Nexus
- 2015: (1) Mountains as Sentinels of Change;  
(2) Climate Predictability and Inter-Regional Linkages
- 2014: (1) Arctic: Call for Proposals  
(2) Scenarios of Biodiversity and Ecosystem Services
- 2013: (1) E-Infrastructures and Data Management  
(2) Food Security and Land Use Change
- 2012: (1) Coastal Vulnerability  
(2) Freshwater Security



## Preparatory Workshops & Travel

### DFG Initiation of International Collaboration

- Trips abroad (max. three months) or guest visits in Germany (max. three month);
- Exploratory workshops (up to 15 participants abroad: up to 30 in Germany); DFG supports with standardized allowances
- The modules may be combined
- All activities must be carried out within a period of 12 months

### Wissenschaftliche Gesellschaft Freiburg

- Preparatory Workshops
- deadlines 2017; May 26, October 27
- Travel Grants for Conference talks
- up to 1.500 €
- deadline: 5 weeks before journey

## University of Freiburg - FRIAS

### **FRIAS Project Groups 2018/19**

- 20,000 € for workshops, travel, guests
- deadline: October 31st

### **FRIAS COFUND Fellowship Programme 2018/19**

- deadline: October 10th

### **FRIAS internal Junior+Senior Fellowships 2018/19**

- deadline: October 31st
- Senior: 10 months, 50% reduction of teaching load,
- Junior: 10 months, 100% reduction of teaching load, 5,000 € consumables/month

## University of Freiburg - FRIAS

### **FRIAS Junior Researcher Conferences 2018/19**

- up to 5 workshops, 8,000 € each
- deadline: October 31st

### **FRIAS Alumni-Programme**

- for researchers who had a research stay at FRIAS to „come back“
- 2 to 6 weeks without interruption
- work space at the institute and, after the research stay at FRIAS, will reimburse economy travel costs and accommodation costs
- No deadline

## **EUCOR Seed Money**


- 60,000 EUR
- up to 18 months
- minimum 3 cooperation universities
- deadline October, 2nd

## **University of Freiburg: Research Innovation Fund**

- Start-up-fundig for new research projects
- priority given to young researchers
- Deadlines: March 15, September 15

## Freiburger Förderportal

<https://www.ffp.uni-freiburg.de/ffp/>



### Freiburger Förderportal

SSC  
Science Support Centre

Übersicht Förderprogramme (Aktuell 1039 aktive Förderprogramme)
 Kontakt FAQ RSS-Feed (neue Programme)

Suche: 
 Aktualität: 
 Förderarten: 
 Fachbereiche: 
 Fördergeber: 
 Geltungsbereiche: 
 Karrierestatus:

Frist	Programmname	Fördergeber
30.09.2014	<b>NEU:</b> Ernst Haage-Preis für Chemische Energiekonversion	MPI - Max
15.10.2014	<b>NEU:</b> Förderung der Zusammenarbeit im Bereich Sauberes Wasser und Gesundheit zwischen Europa und Indien im Rahmen des europäisch-indischen Netzwerkes INNO INDIGO	BMBF - B
27.10.2014	<b>NEU:</b> SPP 1679: "Dynamische Simulation vernetzter Feststoffprozesse"	DFG - De
01.11.2014	<b>NEU:</b> Förderung von ausgewählten Schwerpunkten der naturwissenschaftlichen Grundlagenforschung auf dem Gebiet "Physik der kleinsten Teilchen"	BMBF - Bundesministerium für Bildung und Forschung
28.11.2014	<b>NEU:</b> Förderung von Batteriematerialien für zukünftige elektromobile und stationäre Anwendungen	BMBF - Bundesministerium für Bildung und Forschung
25.02.2015	<b>NEU:</b> SPP 1803: "EarthShape: Earth Surface Shaping by Biota"	DFG - Deutsche Forschungsgemeinschaft
31.08.2014	Capes-Humboldt-Forschungsstipendium	AvH - Alexander von Humboldt-Stiftung
31.08.2014	Fritz Thyssen Stiftung Tagungen	Fritz Thyssen Stiftung





## Contact

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University of Freiburg  
Freiburg Research Services  
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Phone: +49 761 203-4858

E-mail: [bjoern.goldammer@frs.uni-freiburg.de](mailto:bjoern.goldammer@frs.uni-freiburg.de)

For further information, see <https://www.frs.uni-freiburg.de/>

**Thank you for your interest!**

# **Workshop URCfSR Financial Booster Horizon 2020**

Freiburg, 29.09.2017

# Horizon 2020 Pillar Structure

Albert-Ludwigs-Universität Freiburg



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**I. Excellent  
Science**

**II. Industrial  
Leadership**

**III. Societal Challenges**

Widening Participation, Science with and for Society

European Institute of Innov. and Tech.  
(EIT)

Joint Research Centre  
(JRC)



## **I. Excellent Science**

- ERC
- FET (Future and Emerging Technologies)
- Marie S. Curie Actions
- European Research Infrastructures

# Horizon 2020 Pillar Structure

Albert-Ludwigs-Universität Freiburg



UNI  
FREIBURG

## **I. Excellent Science**

- ERC
- FET (Future and Emerging Technologies)
- Marie S. Curie Actions
- European Research Infrastructures

## **II. Industrial Leadership**

- ICT
- Nanotechnology
- Materials
- Biotechnology
- Manufacturing Technologies
- Space
- Innovation in SMEs and Access to risk finance

# Horizon 2020 Pillar Structure

Albert-Ludwigs-Universität Freiburg



UNI  
FREIBURG

## I. Excellent Science

- ERC
- FET (Future and Emerging Technologies)
- Marie S. Curie Actions
- European Research Infrastructures

Mainly bottom up funding

## II. Industrial Leadership

- ICT
- Nanotechnology
- Materials
- Biotechnology
- Manufacturing Technologies
- Space
- Innovation in SMEs and Access to risk finance

Top down funding

## III. Societal Challenges

- Health, demographic change and wellbeing
- European Bioeconomy Challenges
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Europe in a changing world
- Secure societies



# Horizon 2020 – What is in it for you?

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## 1. Money

100% of direct costs plus 25% overhead

## 2. Science

Scientific exchange and collaboration with international partners

# Horizon 2020 – How to participate?

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Any institution may participate either as a **Partner** or as a **Coordinator**!

## ➤ Responsibilities of the Coordinator:

- Submits the proposal and (generally) leads the project.
- Reporting responsibilities
- Receives payment from the Commission and distributes to partners
- Acts as a 'hub' for queries between Partners and Commission

## ➤ Resources and Benefits?

- Coordinator receives adequate funding for resources to manage the consortium. Costs are claimed as incurred and cannot lead to a profit.
- Closer links to Brussels
- Prestige (?)

# Horizon 2020 – Who can participate?

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Open to almost any entity....

- ✓ EU Member States (28)
- ✓ Candidate Countries
  - e.g. Turkey, Serbia
- ✓ Associated Countries
  - e.g. Switzerland, Norway, Israel
- ✓ International Co-operation Partner Countries (ICPC)
  - e.g.: 3rd world countries

- ✓ Industry
  - Multinationals to SMEs
- ✓ Research organisations
- ✓ Universities & other HEIs
- ✓ Public bodies
  - e.g. NHSTrusts
- ✓ Trade Associations
- ✓ International Bodies
  - e.g. Red Cross, etc

# Horizon 2020 – Participation Rules

Albert-Ludwigs-Universität Freiburg

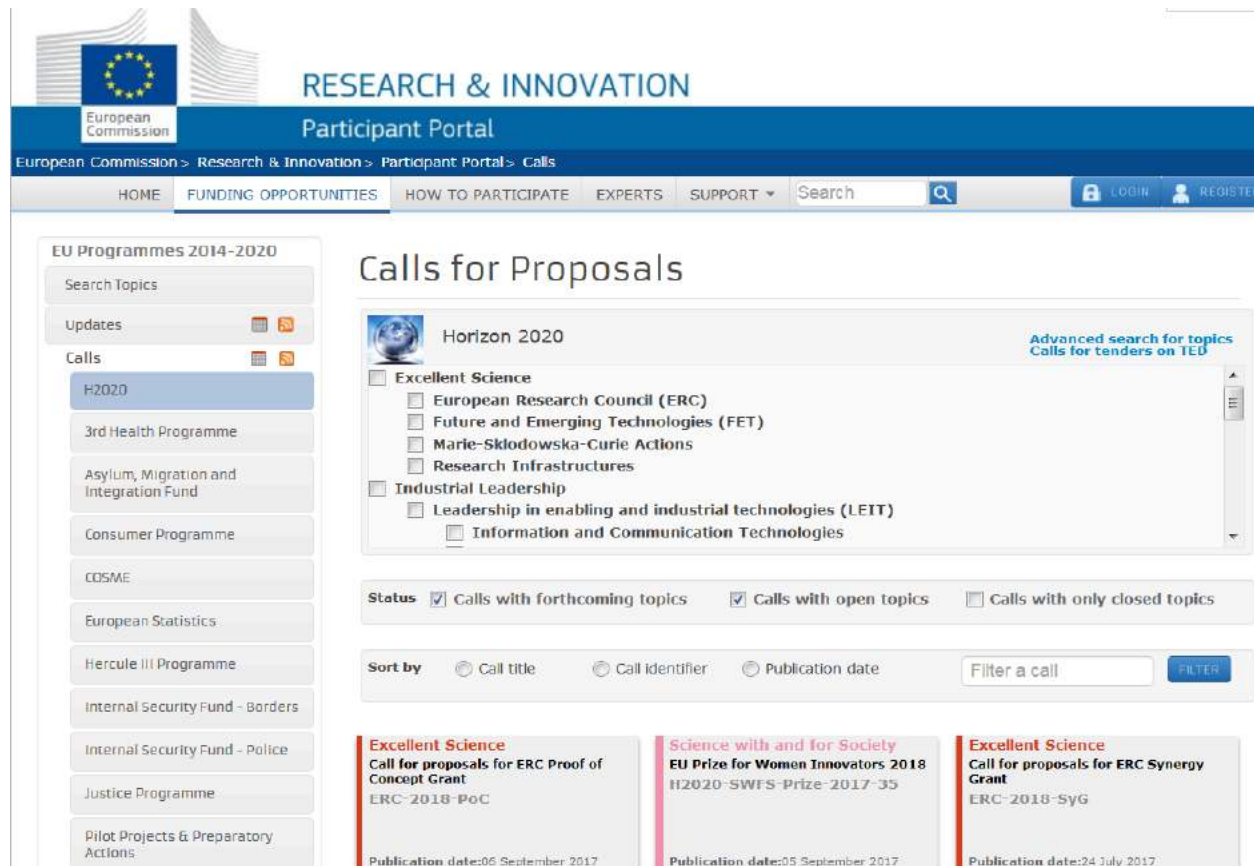


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- Most of the EU funded projects are collaborative projects with at least 3 organisations from different EU Member States or Associated countries.
- Calls are top-down, describing a specific challenge, the scope of the call, and the expected impact.

# Horizon 2020 - Calls

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The screenshot shows the Horizon 2020 Participant Portal. The header includes the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". The breadcrumb trail is "European Commission > Research & Innovation > Participant Portal > Calls". The navigation bar has links for HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, and SUPPORT, along with a search bar and LOGIN/REGISTER buttons.

On the left, there is a sidebar for "EU Programmes 2014-2020" with a search box and a list of updates. The "Calls" section is expanded, showing a list of programs including H2020, 3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, European Statistics, Hercule III Programme, Internal Security Fund - Borders, Internal Security Fund - Police, Justice Programme, and Pilot Projects & Preparatory Actions.

The main content area is titled "Calls for Proposals" and features a "Horizon 2020" section. It includes a list of call categories with checkboxes: Excellent Science (European Research Council (ERC), Future and Emerging Technologies (FET), Marie-Sklodowska-Curie Actions, Research Infrastructures), Industrial Leadership (Leadership in enabling and industrial technologies (LEIT), Information and Communication Technologies), and a link for "Advanced search for topics Calls for tenders on TED".

Below the categories, there are filters for "Status" (Calls with forthcoming topics, Calls with open topics, Calls with only closed topics) and "Sort by" (Call title, Call identifier, Publication date). A "Filter a call" button is also present.

At the bottom, there are three call cards:

- Excellent Science**: Call for proposals for ERC Proof of Concept Grant, ERC-2018-PoC, Publication date: 05 September 2017.
- Science with and for Society**: EU Prize for Women Innovators 2018, H2020-SWFS-Prize-2017-35, Publication date: 05 September 2017.
- Excellent Science**: Call for proposals for ERC Synergy Grant, ERC-2018-SyG, Publication date: 24 July 2017.

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

# Horizon 2020 – Topic Information

Albert-Ludwigs-Universität Freiburg



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Search Topics

Updates

Calls

H2020

3rd Health Programme

Asylum, Migration and Integration Fund

Consumer Programme

COSME

European Statistics

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Pilot Projects & Preparatory Actions

Promotion of Agricultural Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship Programme


Union Civil Protection

## TOPIC : ERC Proof of Concept Grant

**Topic identifier:** ERC-2018-PoC  
**Publication date:** 06 September 2017

**Types of action:** ERC-POC Proof of Concept Grant  
**DeadlineModel:** multiple cut-off  
**Opening date:** 06 September 2017

**Cut-off dates:** 16 January 2018 17:00:00  
18 April 2018 17:00:00  
11 September 2018 17:00:00  
Time Zone : (Brussels time)

 Horizon 2020 [Call budget overview](#)

### Topic Updates

**15 September 2017 15:33**

The submission session is now available for: ERC-2018-PoC (ERC-POC).

### Topic Description

**Scope:**

**Objectives**

### Topic conditions and documents

Please read carefully all provisions below before the preparation of your application (for more detailed information please refer to the [Information for Applicants to the Proof of Concept Grant 2018 Call](#) , the ERC-2018-PoC HTML5 instructions guide and the [Frequently Asked Questions -FAQs](#)).

### Submission Service



# Horizon 2020 – Where to get information?

Albert-Ludwigs-Universität Freiburg



- **EU Office at your University**

<http://www.frs.uni-freiburg.de/abteilungen/eu/team>

Dr. Georgia Wessels

Tel.: +49 (0)761 203-6820

[georgia.wessels@zv.uni-freiburg.de](mailto:georgia.wessels@zv.uni-freiburg.de)

- **National Contact Points (NCP)**

[https://ec.europa.eu/research/participants/portal/desktop/en/support/national\\_contact\\_points.html](https://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html)

- **European Liaison Office of the German Research Organisations (KoWi)**

<http://www.kowi.de/en/kowi.aspx>



# Thank you!

# Sustainability Research

*Pathway to a conceptual research marketing*

*North America & Europe 2018-2020*



## Who?

Upper Rhine Cluster for Sustainability Research (URCforSR) engages the Universities of:

Eucor – The European Campus' in Basel, Freiburg, Karlsruhe, Mulhouse and Strasbourg, the University of Koblenz and Landau as well as various universities of applied sciences and research institutes as associated partners.

= the convened competence is a great value for any cooperation with North America on this very field.

## What?

Long-term objective: establishment of a research association with at least European significance and an influence on North America.

Development of joint excellent, cross-border and interdisciplinary research activities and the realization of a beacon of knowledge for the society(ies).

The research activities are geared to the comprehensive subject matter “Governance of Sustainable Growth“, which is subdivided in five fields of investigation, all of which are meant to contribute to the overall topic and might lead to solutions. (some quotes taken from the website)





## Opportunity in North America

- Sustainability is seen as a strong European topic
- Need to achieve goals in the US & Canada while meeting problems
- Existing sustainability strategies and policies among a bunch of US federal states

## Facts to be reflected

- Climate challenges are obvious
- Requirement to re-think growth & economy
- Demand within societies and cities to find alternatives for the future world of work, life, economy and society

## Offerd issues by the Eucor Cluster

- Governance
- Energy, infrastructure & social change
- Transformation & innovation
- Resource management
- Multiculturalism & multilingualism

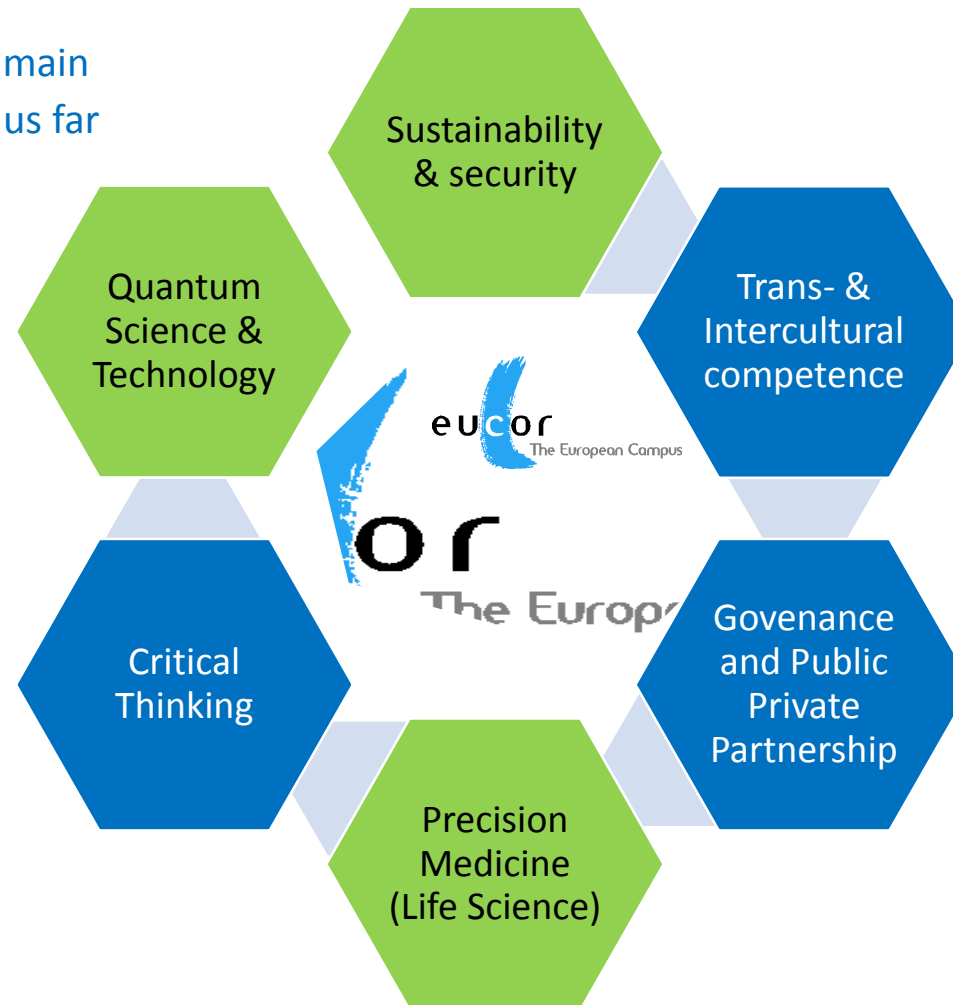
? How to differentiate Eucor in a competitive landscape of Higher Education and Research in North America

? Why might we have a chance to get an awareness

- ☐ We understand the trends and demands e.g. in the USA and Canada (target region of the Liaison Office).
- ☐ We synchronize external expectations (USA/Canada) with internal (Eucor) visions and competences.
- ☐ We establish Science & Humanities in an European (critical thinking) tradition with natural born links to the future.
- ☐ We demonstrate the scientific impact on social and economic developments and the contribution of Eucor research outcomes with strong solutions.



**Green** = the main  
Eucor topics (thus far  
decided)



**Blue** = areas of competence  
to be associated with by our  
partners in North America

# Structure of Eucor's work on Marketing North America



## Stage: „Discussion“

- We screen research projects and results.
- We reflect formats for promotion in North America.
- We prioritise projects, formats, communication.

## Stage: „Messages“

- We offer 1,2,3..!
- We create good messages!
- We practice a convincing research marketing!





## Stage: „Reflection“

- What are our goals?
- How to focus?
- What is the pathway to promote „sustainability“ as one of Eucor's core areas?

## Stage: „Awareness“



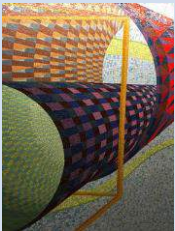
- We evaluate impact.
- Do we get real awareness?
- Do our offers, research results and transfer ideas convince partners?



Goals for USA and Canada	 Universität Basel	 UNI FREIBURG	 UNIVERSITÉ HAUTE-ALSACE	 KIT Karlsruhe Institute of Technology	 UNIVERSITÉ DE STRASBOURG	Further partners
Sub goals ↓	Main Topic →	Sustainability Research				
Governance						
Energy, infrastructure & social change						
Transformation & innovation						
Resource management						
Multiculturalism & multilingualism						

Example – how to map the competences?

# ? Which marketing and communication formats might work

Formats	What	When	Where
 <p>General Public Event</p>	Up to 150 participants come together; a research topic will be discussed by Eucor scientists and counterparts from Canada and/or the USA; a moderator leads the evening followed by a networking reception	Time for preparation 8 months: either March-May or October-November are good slots in North America	German Mission to the UN, location of the Liaison Office, New York
 <p>Talking Eucor Labs</p>	Focused academic format, scientists (PIs and junior scientists) work together within partner labs; collaboration in a specific time frame – e.g. 3-5 days followed by a stakeholder talk (public partners, government and/or media)	Could work best after getting results to a specific sub topic which might be reflected with scientific partners – this format is an option anytime; run up to a „Lab week“ could take 6 months	Hosts are Eucor Partners e.g. Fraunhofer Society USA, Northwestern University Boston or swissnex, Boston
 <p>Funnel and Transform</p>	Workshop(s) with scientists and the heads of the Knowledge and TT-Technology Transfer Offices to draft a process how to identify promising research outcomes and their capability for impact on societies and the finding of solutions	Each meeting might need a day: <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. One on one meetings</li> <li>3. Summary and transfer pathways</li> <li>4. Networking</li> </ol>	Following a mapping of sub topics and potential partners we might identify regions and cities in North America step by step

## Summary of the milestones:

- Fact finding: which goals, themes, which choice of „products“?
- Reflection and priority setting: which top messages should be delivered by Eucor to North America on sustainability research?
- Definition of tasks: who is in charge for which topic among the Eucor Alliance?
- Timeline for activities: schedule 2018-2020



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We are grateful for all contributions and appreciate our readers' attention.

Should you have any questions, comments or suggestions, please let us know.

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[www.sustainability-upperrhine.info](http://www.sustainability-upperrhine.info)