Learning Communities for the transformation to the Bioeconomy: innovation by dialogue between partners

The ICA Community of Practice Bioeconomy Education

Ingar Janzik

ICA CoP Bio-Edu

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The ICA Community of Practice Bioeconomy Education

European Community of Practice for Bioeconomy Education

- ➤ **Share** experiences and good practices
- ➤ **Consult** with stakeholders
- ➤ **Develop** projects
- ➤ **Utilise** the network

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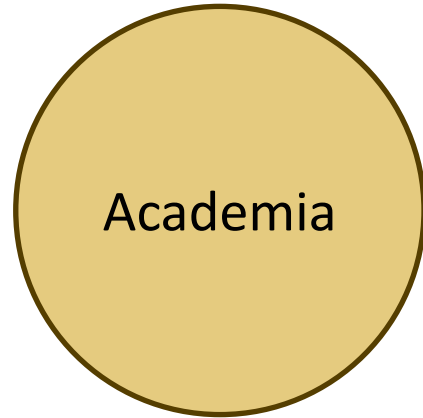ICABio

What is needed for the success of Bioeconomy?

Why?

Climate, Ressource and Societal challenges
can be reduced to or only solved by circular, sustainable, biobased solutions

Who and how?

What is needed for the success of Bioeconomy?

Academia

Why?

Climate, Ressource and Societal challenges
can be reduced to or only solved by circular, sustainable, biobased solutions
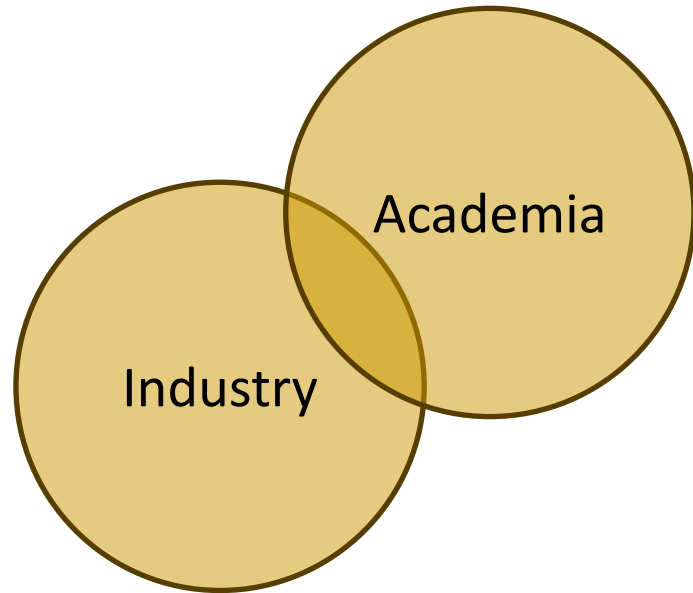
Who and how?

Sharing experiences

- Workshop Ghent 2021: Embedding the mindset

Interdisciplinary Education for the Bioeconomy: embedding the mindset of the bioeconomy in the curricula of Bachelor degree programmes

What is needed for the success of Bioeconomy?

Industry

Academia

**Climate, Ressource and Societal challenges
can be reduced to or only solved by circular, sustainable, biobased solutions**
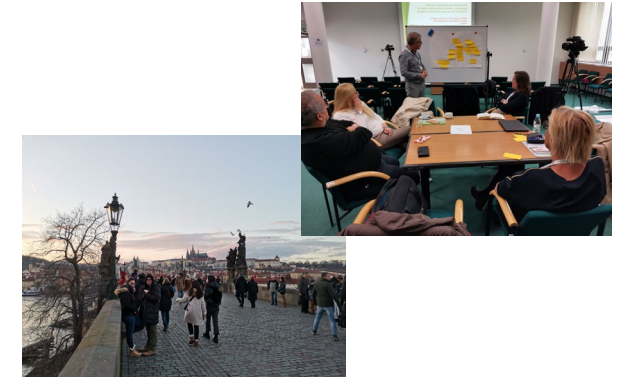
How?

Sharing experiences

- ## Workshop Ghent 2021: Embedding the mindset

  Interdisciplinary Education for the Bioeconomy: embedding the mindset of the bioeconomy in the curricula of Bachelor degree programmes
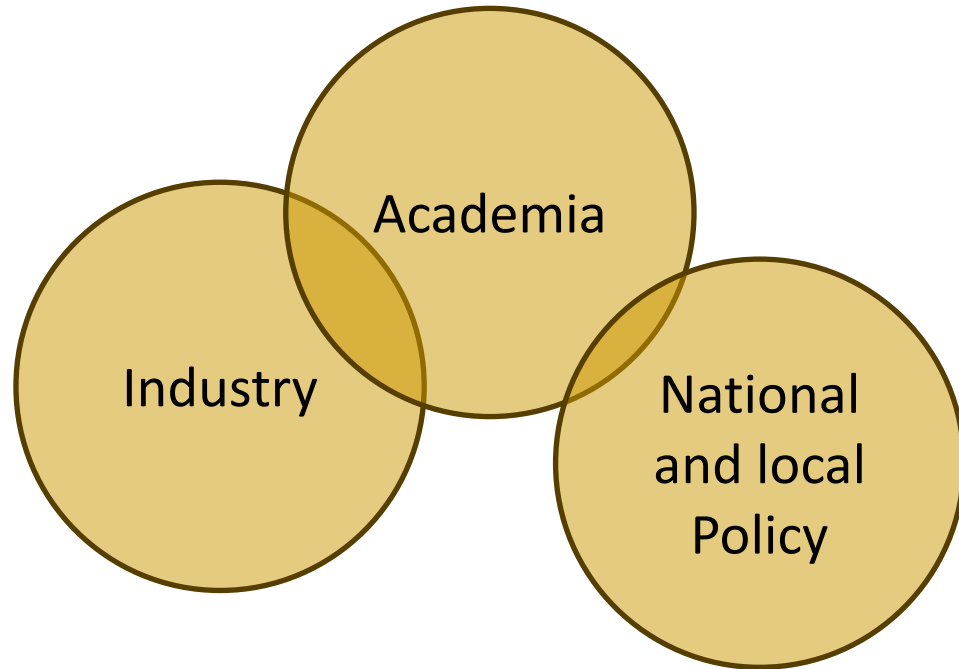
- ## Workshop Warsaw 2022: Engaging with industry

  Engaging with industry to ensure that graduates and professionals are well prepared for (future) employment in the Bioeconomy

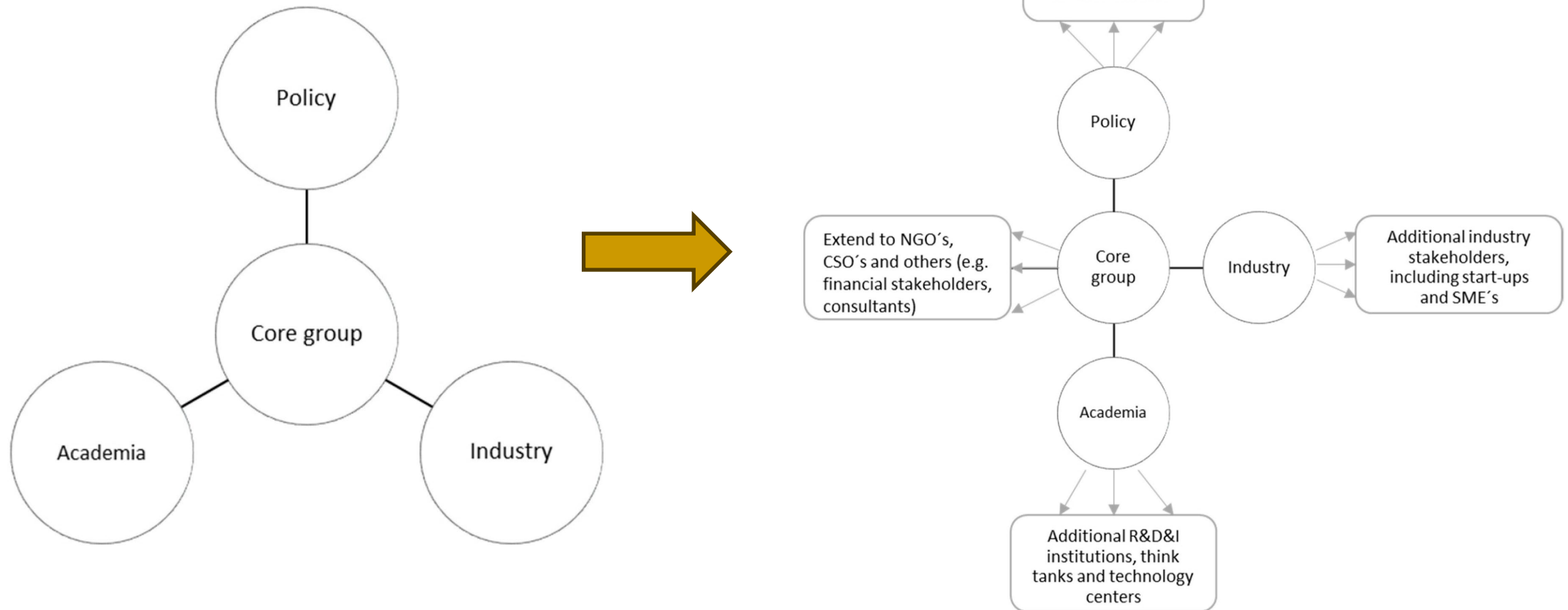# What is needed for the success of Bioeconomy?

Industry

Academia

National and local Policy

Climate, Ressource and Societal challenges
can be reduced to or only solved by circular, sustainable, biobased solutions
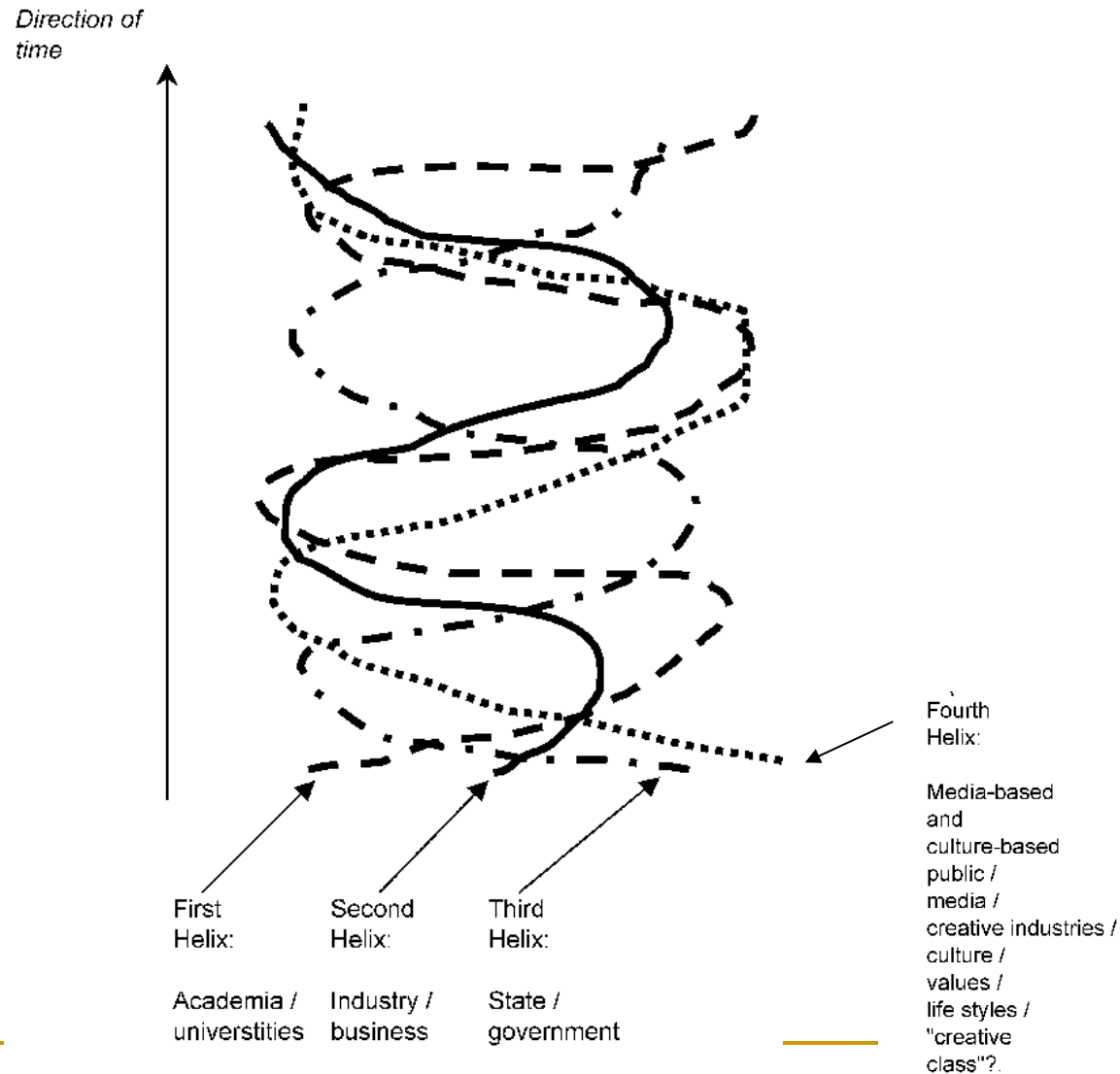
How?

"Stakeholder Engagement in the Co-Design of Regional Bioeconomy Strategies"
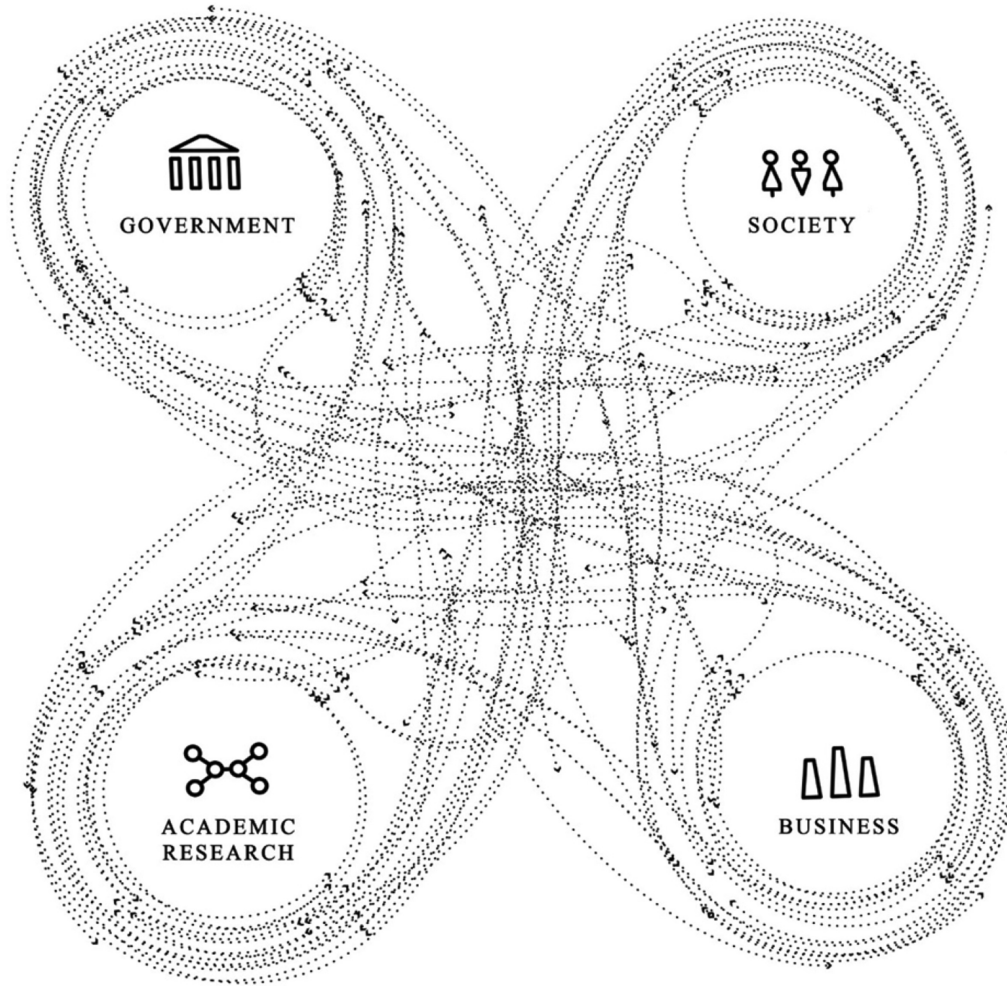
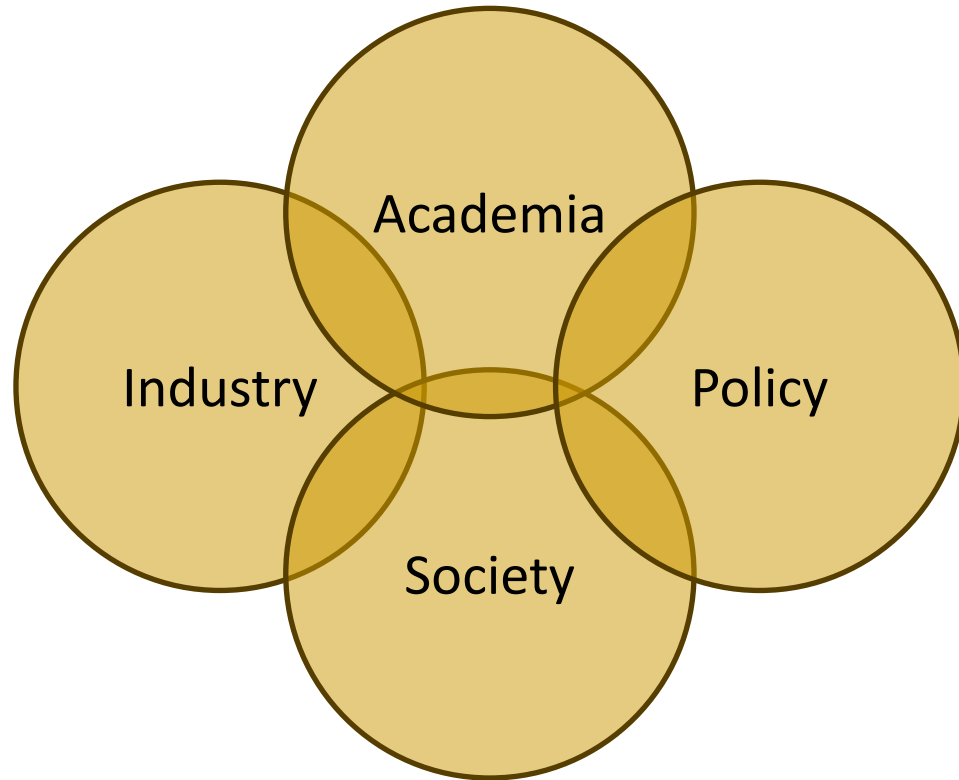# Members of the Quadruple Helix for Innovation

Carayannis, Elias & Campbell, David. (2009). 'Mode 3' and 'Quadruple Helix': Toward a 21st century fractal innovation ecosystem. Doi: 10.1504/IJTM.2009.023374.

Complexitiy of the Quadruple Helix

Florian Schütz et al.
Co-shaping the Future in Quadruple Helix Innovation Systems:
Uncovering Public Preferences toward Participatory Research and Innovation,
2019,
https://doi.org/10.1016/j.sheji.2019.04.002.

What is needed for the success of Bioeconomy?

Climate, Ressource and Societal challenges can be reduced to or only solved by circular, sustainable, biobased solutions

How?
Life Long Learning?
Learning communities?

Sharing experiences
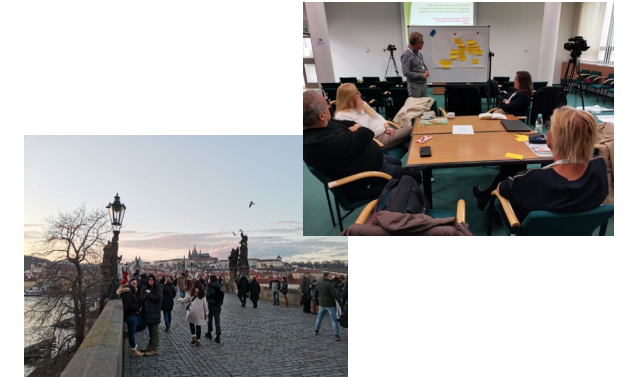
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- Workshop Warsaw 2022: Engaging with industry

  Engaging with industry to ensure that graduates and professionals are well prepared for (future) employment in the Bioeconomy

- Workshop Zagreb 2024: Life Long Learning

  Engaging with the corporate world to enhance the provision by life science universities and faculties of lifelong learning for professionals in the Bioeconomy
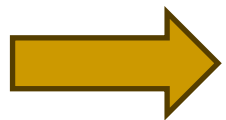
Prerequisites: How Learning works

**Key processes and preconditions of
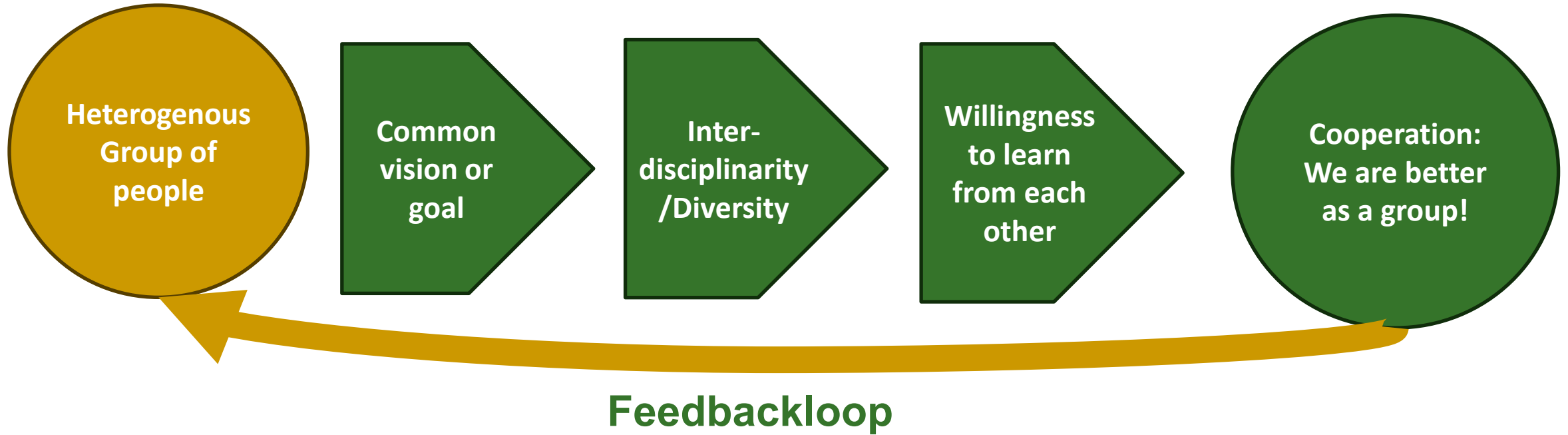organizational hearing, listening, and learning capabilities:**

Capability	Processes	Preconditions
Hearing	Detection of back talk	• Network outside of cluster boundaries
Listening	Interpersonal generation of meaning	• Hearing • Meaningful relationships with outsiders
Learning	Reflection and implementation of required adaptations	• Listening • Ability to share knowledge across and beyond cluster boundaries • Organizational memory

Not exchange of results, but co-creation of results

Starting point: What is a Learning Community?

Heterogenous Group of people → **Common vision or goal** → **Inter-disciplinarity /Diversity** → **Willingness to learn from each other** → **Cooperation: We are better as a group!**

Feedbackloop

to adjust the goals!
to adjust the way how to achieve it!
to take action!