

Towards a trans-disciplinary understanding of CAPS

Looking behind the “magic” of the network effect...

Structures and dynamics of application contexts

- constraining possibilities for sustainable development

A

Group communication effects

- governing processes of self-configuration of communities

B

ICT Design

- influencing awareness and self-organization

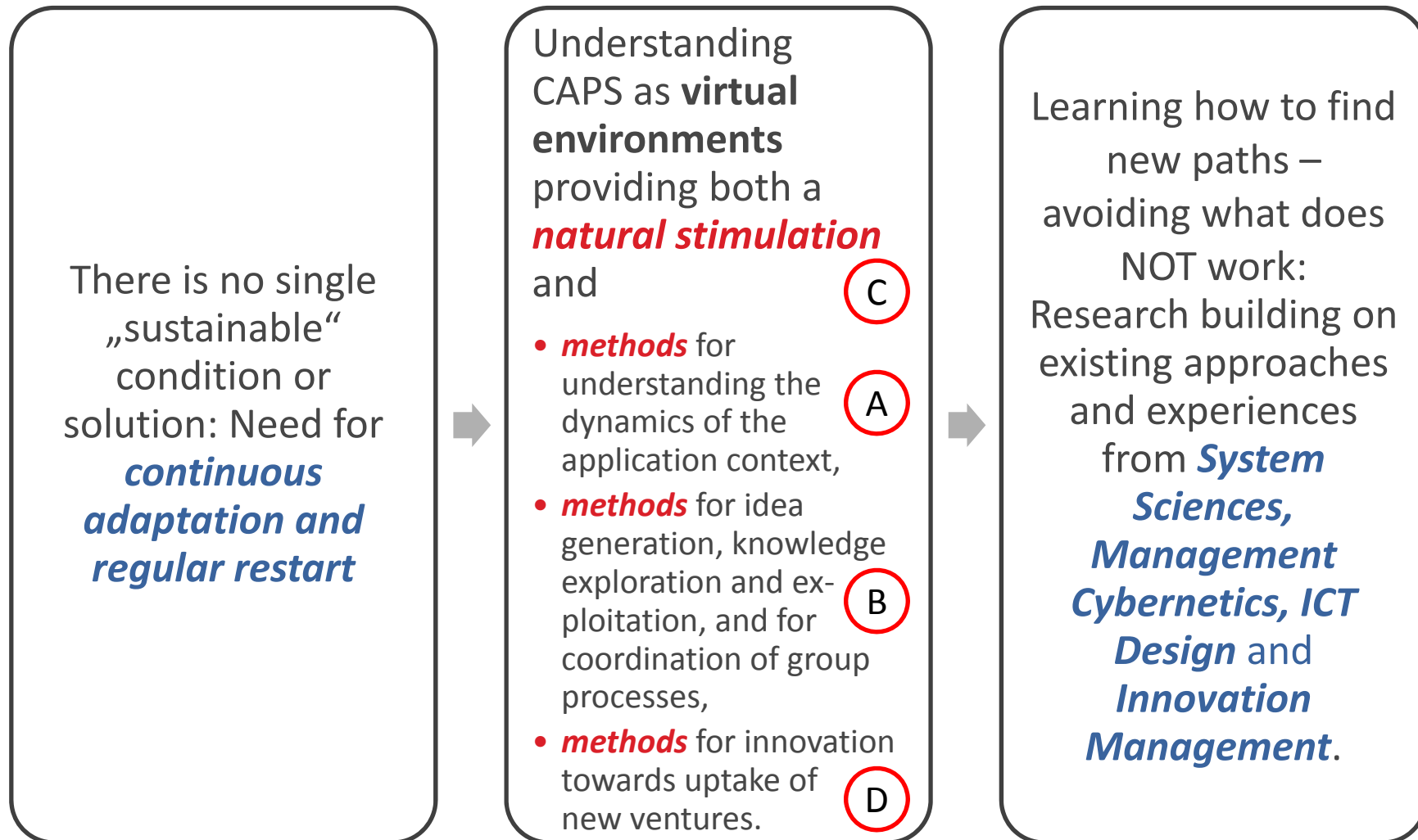
C

Economic boundary conditions

- limiting sustainable and non commercially driven collective behaviours and uptake of new ventures with regard to value creation



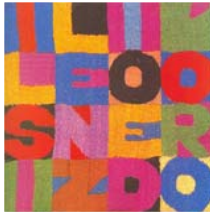

D

Governing emergence in collective processes



Open issues and approaches

System Sciences, Management Cybernetics, ICT Design and Innovation Management

- A**  **methods for understanding the dynamics of systems**
- What factors provide for the **dynamics** of a particular context?
 - What are the **consequences** of individuals or group actions?
- B** **mechanisms for systematic self-configuration of communities** 
- What kind of **complementary knowledge** needs to be acquired?
 - How can **group conversation mechanisms** help utilizing collective intelligence?
- C**  **informational designs fostering emerging processes from collective intelligence**
- How are coordination and decision-making **influenced** by informational design?
 - How can informational design actively and **effectively nurture** these emergent processes?
- D** **methods supporting new innovation mechanisms** 
- Which innovation methods can help to **systematically develop ideas** emerging within large groups?
 - How can economic constraints opposing the uptake of initiatives be overcome by **new models of sustainable ventures**?

I would be happy to share with you further thoughts within the CAPS initiative and beyond.

Further partnering opportunities

ICT Design: virtual worlds, semantics-enhanced hybrid wikis

Application contexts: green IT/ internet, health, smarter transport



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