Hinweise

Performance by Lucie Strecker https://vimeo.com/351072684



From Societal Impact Strategy to Implementation and Execution

Interactive workshop: Possibilities to enhance interdisciplinary knowledge exchange with special regards to the arts

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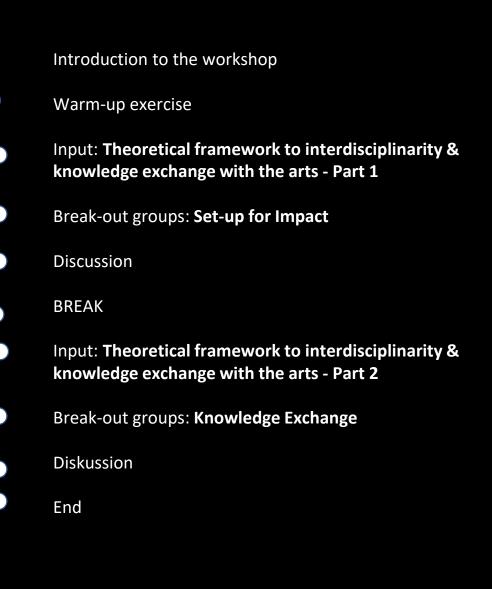
WARM UP

Pleased to meet you...

Workshop agenda

Focus on...

- Theoretical frameworks and examples of interdisciplinary KE in the arts
- Break-out room discussions on how methods of KE and evaluation can be used to ensure and document impact
- Recommendations and conclusions with participant input



PRACTICE

THEORY Renaissance Polymath (Leonardo da Vinci)

> **Enlightenment** Alexander von Humboldt, Johann Wolfgang Goethe

20th century Cubism, Surrealism, Bauhaus

1967 E.A.T. Experiments in Art and Technology (e.g. Billy Klüver & Robert Rauschenberg; collaboration with the Bell Institute, later MIT)

> 2000 Symbiotica A by Oron Catts

Enlightenment & 19th century Separation of the disciplines; Wilhelm Dilthey (1833-1911)

1979 Bruno Latour & Steve Woolgar 'Laboratory Life. The Social Construction of Scientific Facts'

21th century STEM to STEAM **ARTS** Visual arts, dance, music, film, design, literature, theater, fashion, etc.

SCIENCE Natural and social sciences, humanities, technological science, etc.

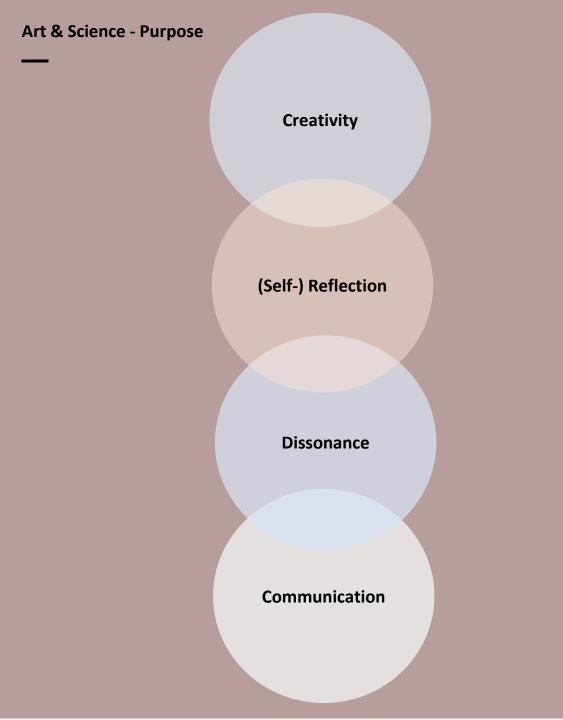
Art & Science

Research projects, exchange formats (residencies), artistic research, science communications, etc. Art & Science - Purpose

"I think one of the fundamental strengths of art is not only to raise awareness, but to really, really, really be critical of each material, each sociological constitution and each institutional challenge."

Jens Hauser

Hybrid Encounters in the arts and sciences. A dialogue.



Schnugg, Claudia: Creating ArtScience Collaboration. Bringing Value to Organizations.

- interdisciplinary collaboration
 e.g. mutual learning processes
- theory of contextualization
 e.g. ethical reflections, disciplinary assumptions
- theory of liminality
 e.g. unexpected results, enabling changes
- theory of social networks
 e.g. potential of new connections
- sense making
 e.g. allows for new ways of understanding
- aesthetics
 e.g. sensory perception as means of new insights
- communication e.g. outreach
- creativity theory
 e.g. fostering creativity and new perspectives

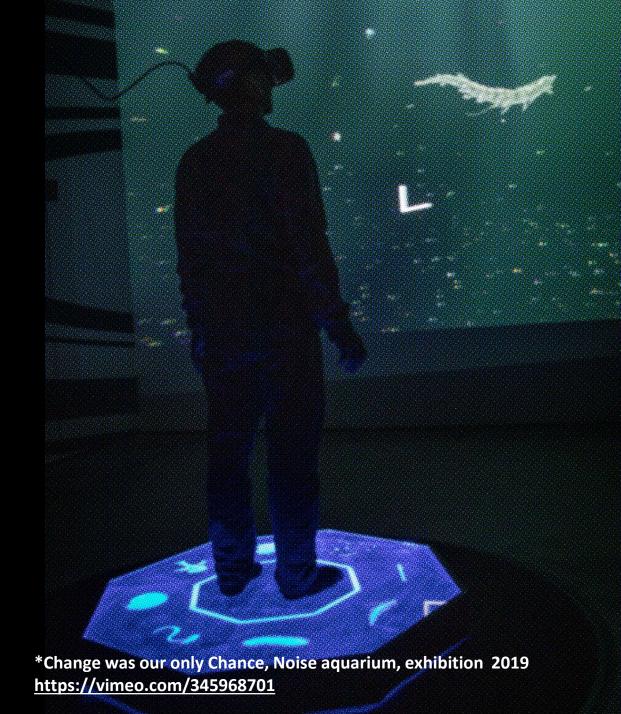
Knowledge is being fragmented and isolated; art and science are treated as separate spheres that are more concerned with the development of their own discipline or sub-discipline than with the development of society.

> Gerald Bast, Rektor Uni für angewandte Kunst

From Theory to Practice...

Art & Society - Towards Knowledge Exchange in Practice

- generate awareness for the exchange between society, science and art
- a dialogue is being developed through art (with sciences and society)
- using sciences to gain inspiration and seeking contact (new technologies)
- inviting scientists to become an active part of artistic discourse
- opening up towards other disciplines to share artistic strategies
- setting up the demand for artistic research opportunities
- use art and their way of communication to connect to wider public



Art & Society - The Angewandte and AIL approach

- other disciplines are invited to become part of the curriculum and interdisciplinary artistic research from the beginning
- Foundation of Angewandte Innovation Lab (AIL): creates a level above the curriculum, offering a safe space for practical and new work, discussions on eye level, and mediation of internal topics towards a public audience
- AIL reaches out to external collaborators of all fields connecting them with players within the university (Uninetz etc)
- create formats of communication through art to transfer knowledge



Art & Science - Examples

Change was our only Chance:

- over 100 collaborators from all fields
- main goal: create outreach/impact to public
- generated tons of research
- exhibition as final product that works like a theatre play without actors



Art & Science - Examples

In practice...

Aims are rather vague

- harness the knowledge, methods and approaches of the different disciplines
- gain new insights and broaden the understanding of the subject
- produce innovative outcomes

Challenges are plentiful

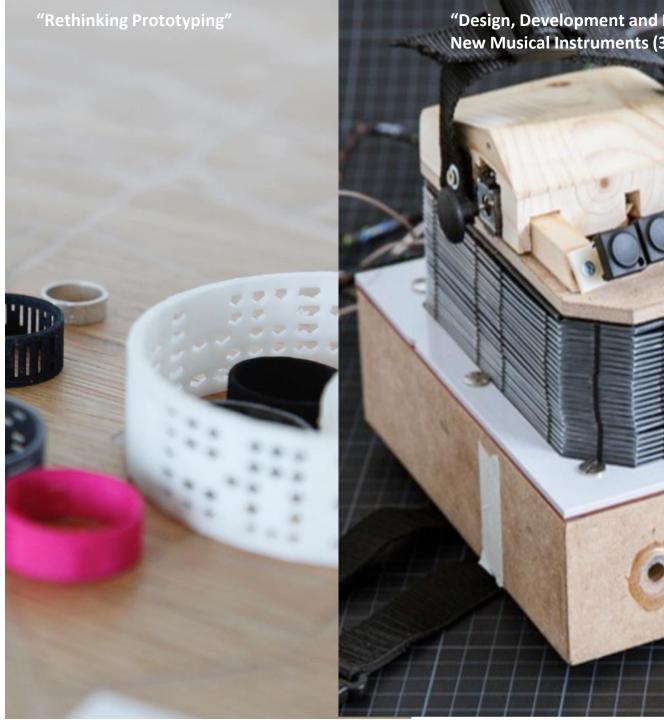
- different time scales
- lack of time for the time intensive exchange
- difficulties in merging the knowledge and findings
- ..

Outcomes are not ground-braking

- rather mono-disciplinary
- not much appreciation of the collaborative process

Impact is achieved but not captured

- (disciplinary) self-awareness / level of reflection
- (transdisciplinary) communication skills
- mainly individual level



Set-up for IMPACT

Breakout Groups

Picture the beginning of your collaboration: how would you set up parameters for a project evaluation with a focus on society (group 1), the organisation (group 2), science (group 3), arts (group 4)?

Long Term - Short term - Milestones - Sustainability

BREAK (video as entertainment...)

Art & Science - Outcome and impact

The problem, though, is that the very venture of trying to link these two spheres of human creativity is often regarded by advocates as intrinsically worthy, so that Sciart risks being received like a school play: it is the effort, not the execution, that matters.

Ball, Philip. 2017. #postARTandSCIENCE: a symposium at the Wellcome Collection. In Interdisciplinary Science Reviews 42(4): 395-398.

Recommendations:

- Define the impact area (content-wise and on which level it should be achieved)
- Consider the fitting formats to gain the impact wanted
- Set up adequate impact measurements and tools

• ...

Formats of knowledge exchange:

- (artist) residencies
- artistic interventions
- (maker) labs
- exhibitions
- research
- teaching
- events

Methods can be mixed - if the aim is clear...

But: how are the results of the different methods integrated and knowledge transferred?

TABLE 1: Comparison of arts-based methods with quantitative and qualitative methods (Leavy 2015, p. 294).

QUANTITATIVE	QUALITATIVE	ARTS-BASED
numbers	■ words	 stories, images, sounds, scenes, other sensory inputs
data discovery	data collection	data or content generation
measurement	meaning	evocation
tabulating	writing	 (re)presentation
value neutrality	value non-neutrality	 political/emancipatory consciousness
reliability	process	authenticity
validity	interpretation	truthfulness
■ proof	■ proof	 compelling/moving/ aesthetic power
generalizability	transferability	resonance
disciplinarity	interdisciplinarity	transdisciplinarity

"Comparison of arts-based methods with quantitative and qualitative methods" (Leavy 2015, p. 294). in: Harald Heinrichs: Sustainability Science with Ozzy Osbourne, Julia Roberts and Ai Weiwei. The Potential of Arts-Based Research for Sustainable; Development | GAIA 27/1(2018): 132 –137 |



CONVERGING ART | SCIENCE | TECHNOLOGY



In theory*...

Impact of the learnings and results can be distinguished in three fields:

- inspiration
- insights and/or
- opportunities for innovation.

Moreover, the collaborations might envision to have impact on different levels (depending on the questions and kind of partnership addressed):

- individual,
- organisations and
- societal level

*Source: https://www.starts.eu/agenda/starts-collaboration-toolkitlaunch/detail/

HOW TO OVERCOME THE BOUNDERIES ?

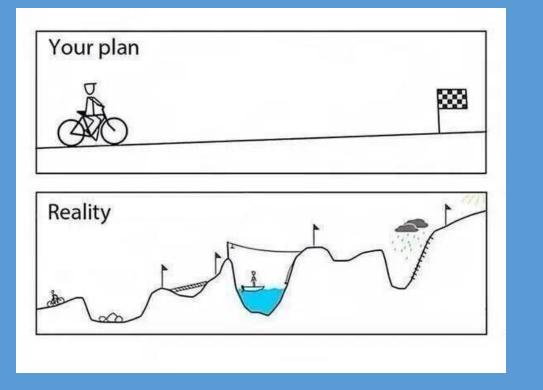
Boundary Object

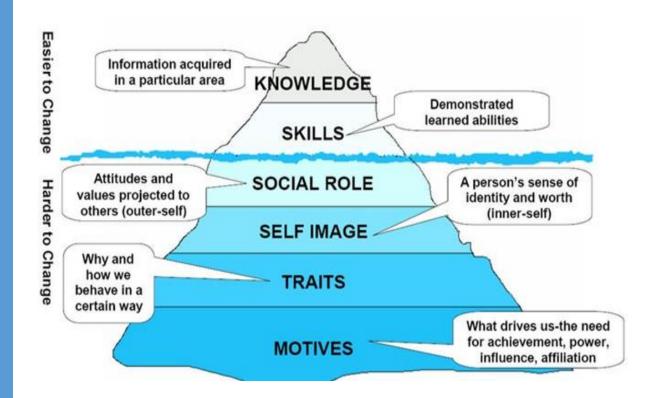
Boundary objects occupy an intermediary space between imagination and reality and between the present and future. Since interdisciplinary work is not possible without boundary objects the method offers a tangible point of interaction with actors in the arts.

*See for an example of an exercise around boundary objects a recent blog post on <u>https://www.shapeid.eu/preparing-for-productive-inter-and-transdisciplinary-research-involving-the-arts/</u>.

KNOWLEDGE EXCHANGE (KE)

How to facilitate knowledge transfer between the close collaborators? How to secure KE on a wider range (public)?





UniNetz:

- collaboration of nearly all Austrian universities to generate report on SGD recommendations for Austrian government
- Angewandte only art university with task to help transfer knowledge of report to wider public
- difficulties in including the arts on both sides
- second phase will follow

Sustainability Hub:

- Initiative of Ludwig Boltzmann Institute
- interdisciplinary board working on laying grounds for Call
- Goals: project application open for everyone, setting up a basis that allows maximum impact for initiatives as well as for projects

Public / Outreach / Longterm Influences

Institution / Framework for project management / contextualisation / work culture / transfer of skills

Idea / Project proposal / collaborators / personal experience

Thank you!

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Reading

Schnugg, Claudia (2019): *Creating Artscience Collaboration. Bringing Value to Organziations*. Basingstoke: Palgrave Macmillan.

Horstmann, Nina (forthcoming - also in English, 2021): *Kunst und Wissenschaft* In: Schmohl, Tobias / Philipp, Thorsten (eds.): Handbuch *Transdisziplinäre Didaktik*, Bielefeld: transcript Verlag

Horstmann, Nina und Christina **Landbrecht** (2019). *Hybrid Encounters in the arts and sciences*. *A dialogue*. Download: https://www.hybrid-plattform.org/services/publikationen.

Vesna, Victoria (April 2019): Toward a Third Culture. Researchgate.

Schnugg, Claudia (2019): *An Organizational Perspective on ArtScience Collaboration: Opportunities and Challenges of Platforms to Collaborate with Artists.*

Terkessidis, Mark (2010): Interkultur. Suhrkamp.

Further resources:

https://www.starts.eu/resources/ https://vimeo.com/user34364055