

# Design-based research in music education

An approach to interlink research and the  
development of educational innovation

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*Open Ears – Open Minds. Listening and Understanding Music.*  
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# Design-based research...

... a form of empiric research that takes responsibility for the future by designing an innovative educational intervention and by implementing it into practice.

# Today...

- characteristics and examples
- “design” ?
- chances and challenges

# Today...

- **Design-Based Research / DBR**  
DBRC – Design-based Research Collective 2003  
Anderson/Shattuck 2012
- **Educational Design Research**  
McKenney/Reeves 2012
- **Entwicklungsorientierte Bildungsforschung**  
Reinmann/Sesink 2011  
Reinmann/Vohle 2012  
Reinmann 2013

# Backgrounds...

- **Encouraging students to compose in the music classroom and the social web.**

An educational design research study on the use of digital media for processes of creativity and communication in music education

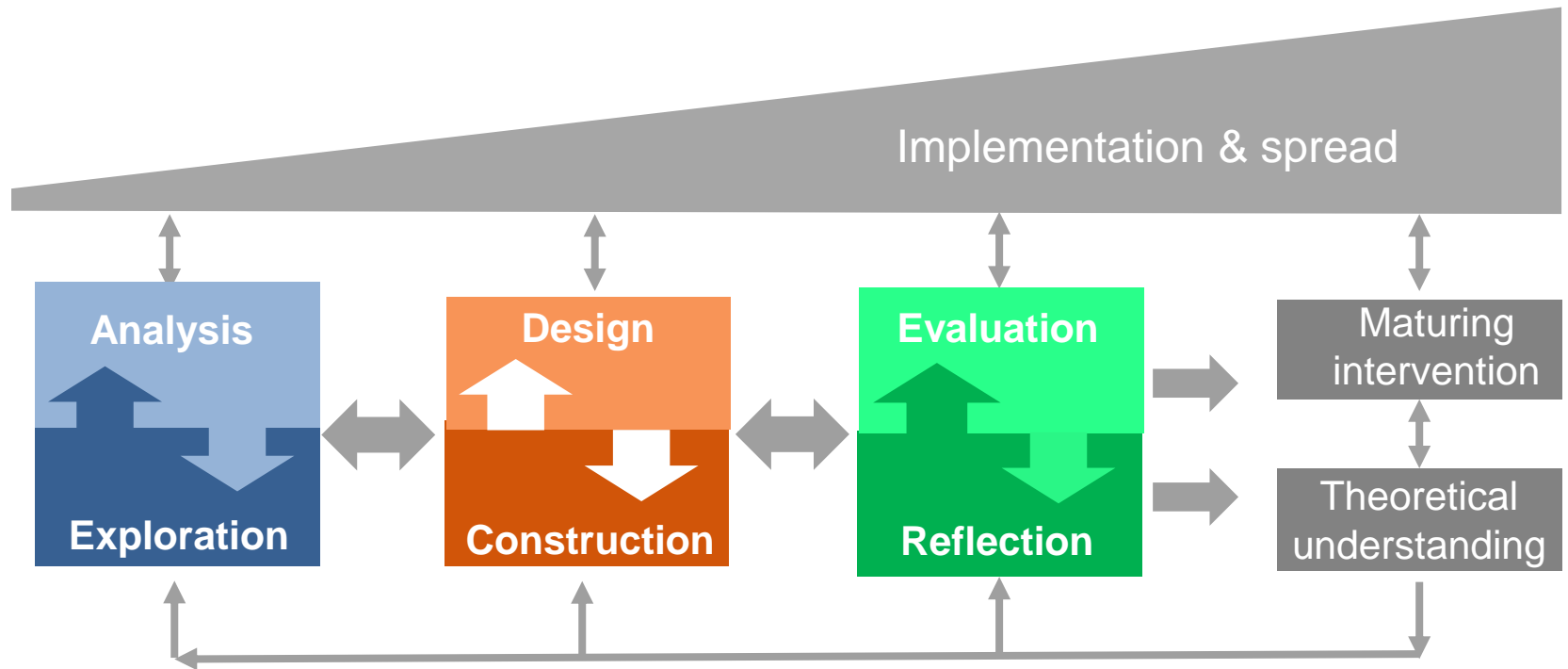
- ***ecompose Austria***

- Teachers, composers, trainees, researcher
- Classroom + web-based music notation + communication
- 2 years, 2 cycles
- 100+ students, 5 classes

# Characteristics...

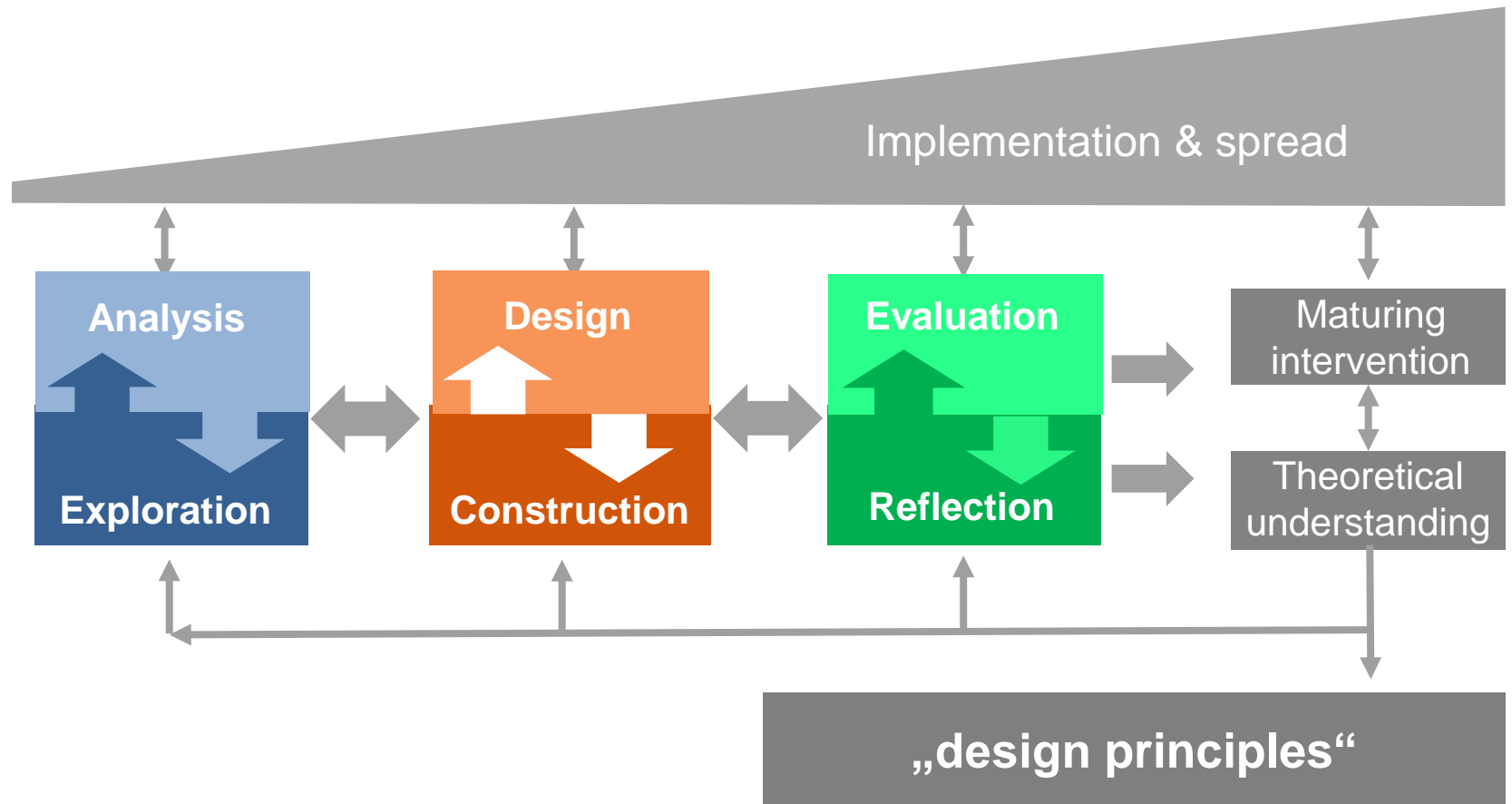
- Collaboration of researchers & practitioners  
→ „research partnership“
- Theoretically oriented – levels of theory
- Iterative, cyclical, explorative  
→ „research by mistakes“
- Aims and results: dual focus, double outcome

# Model for Educational Design Research



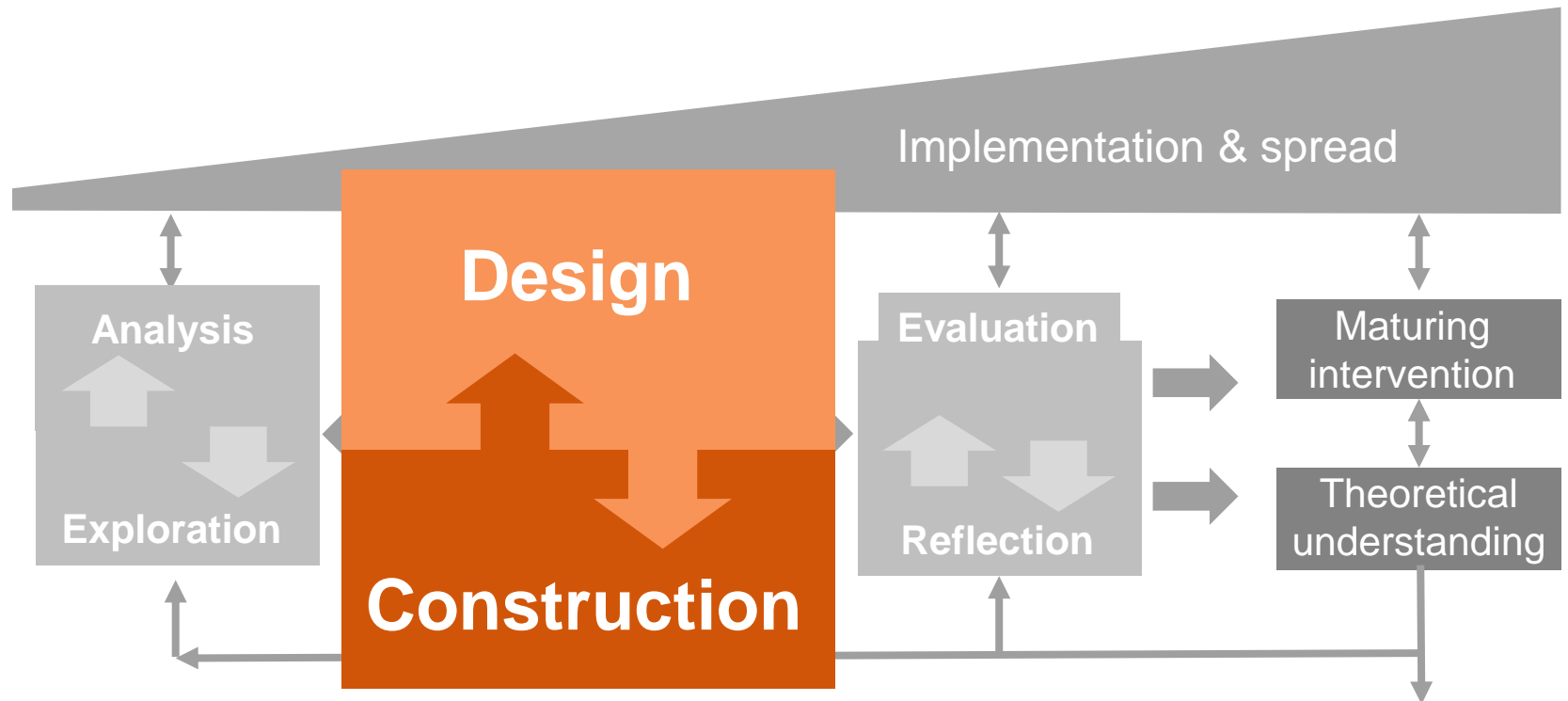
McKenney & Reeves (2012)  
&  
Reinmann (2013)

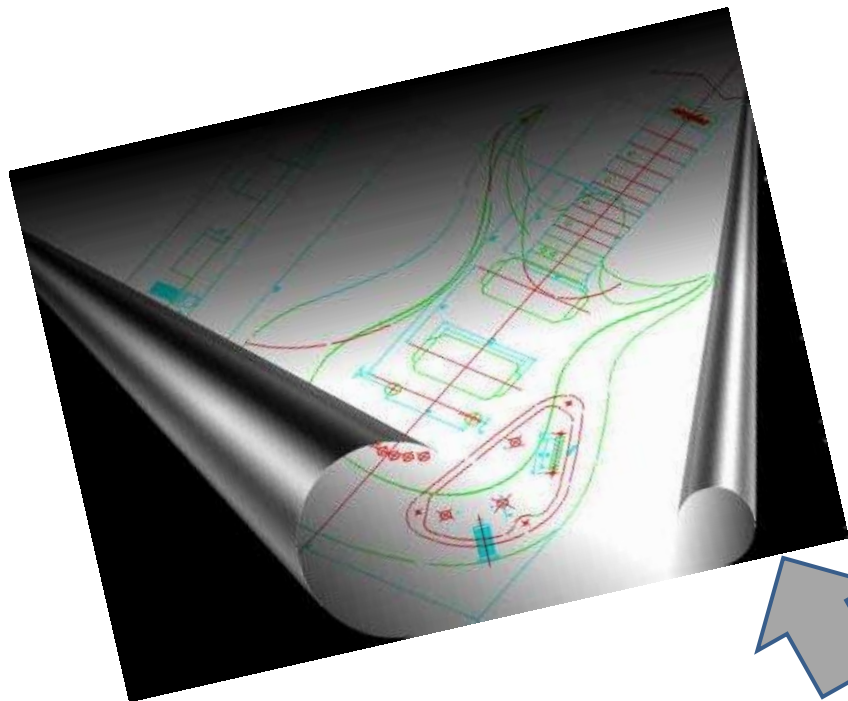
# Model for Educational Design Research





# Model for Educational Design Research

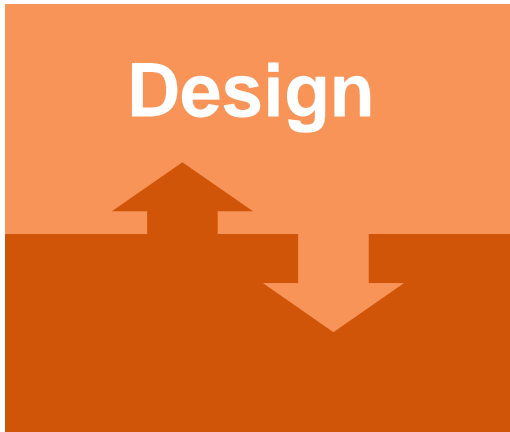




artefact  
*Entwurf*

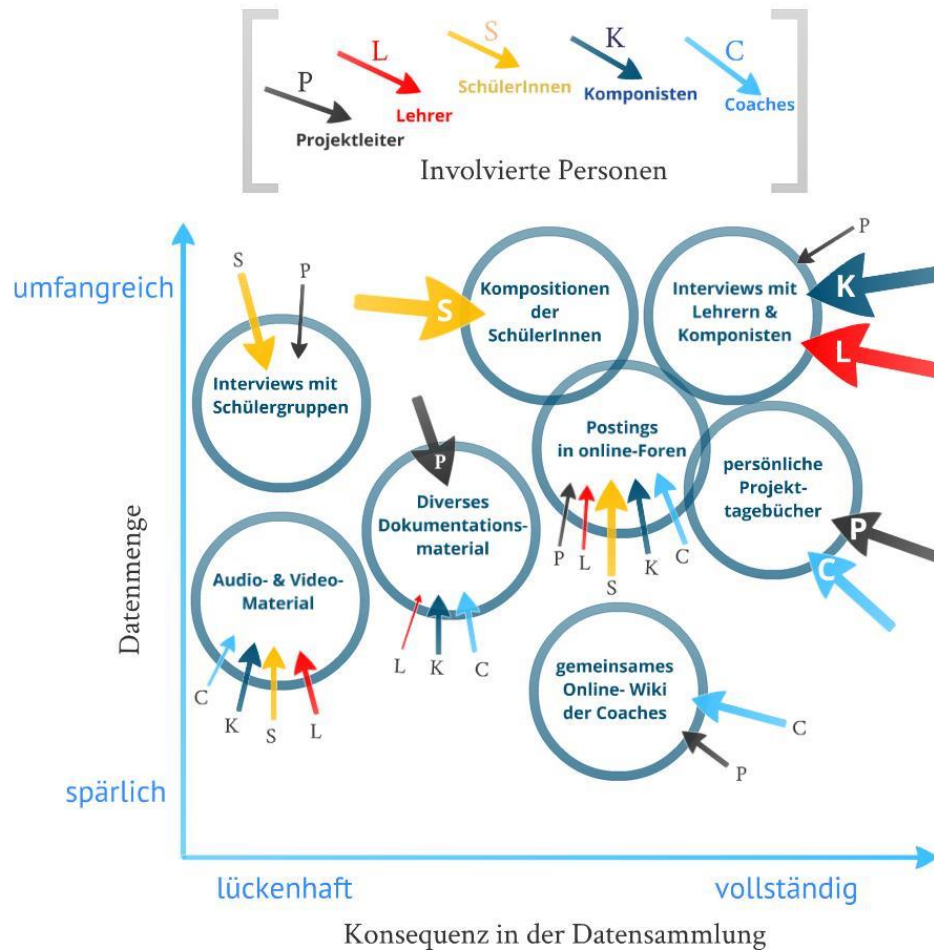


process  
*Entwicklung*



# Chances and Challenges

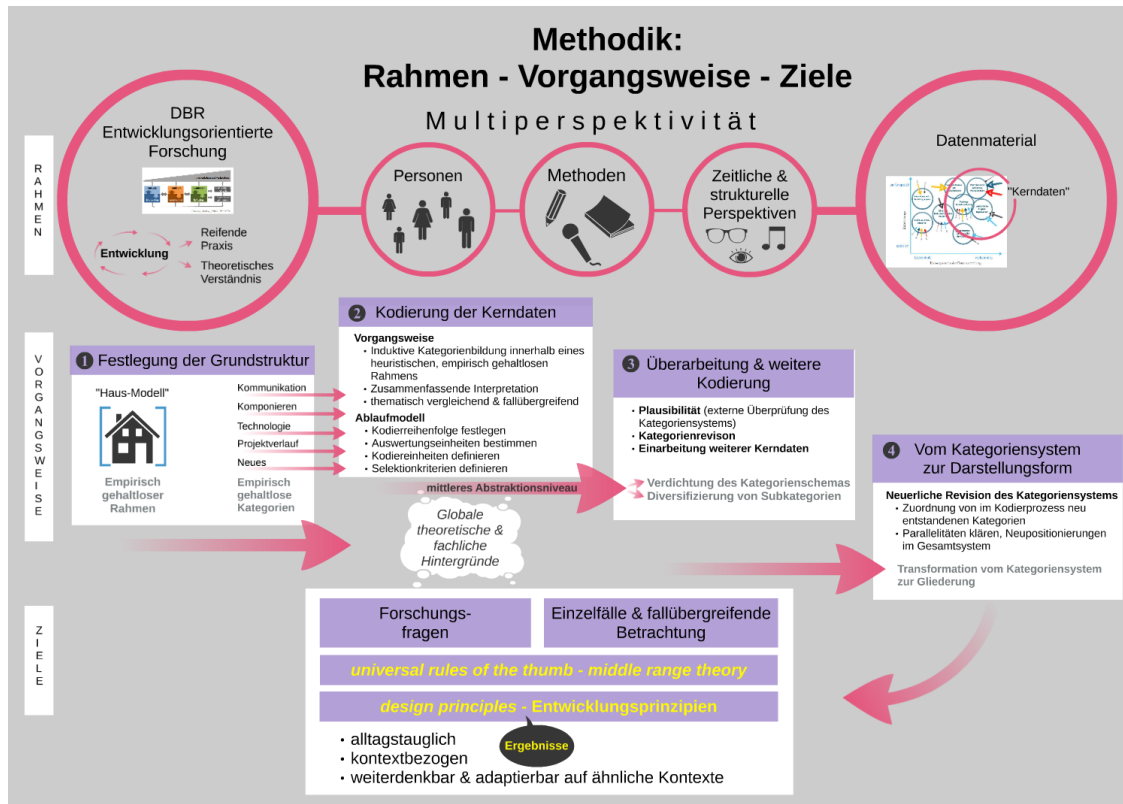
# Chances and Challenges



Data...

(Aigner 2015)

# Chances and Challenges



Methodological proceeding...

(Aigner 2015)

# Conclusions...

- Potential of Educational Design Research: combining a real commitment for future innovation in school practice and research outcomes that provide valid theoretical knowledge.
- DBR in music education: focus should be on design and construction as proceedings (rather than on an object oriented interpretation of “design”).
- DBR can be of use in music education as an educational discipline where there exists creativity and the commitment to try out something new in practice.

# Thank you!

- Aigner, Wilfried: Komponieren zwischen Klassenzimmer und Social Web (*Encouraging students to compose in the music classroom and the social web. An educational design research study on the use of digital media for processes of creativity and communication in music education*). PhD-Thesis, University for Music and Performing Arts Vienna (Austria). Vienna, 2015.
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