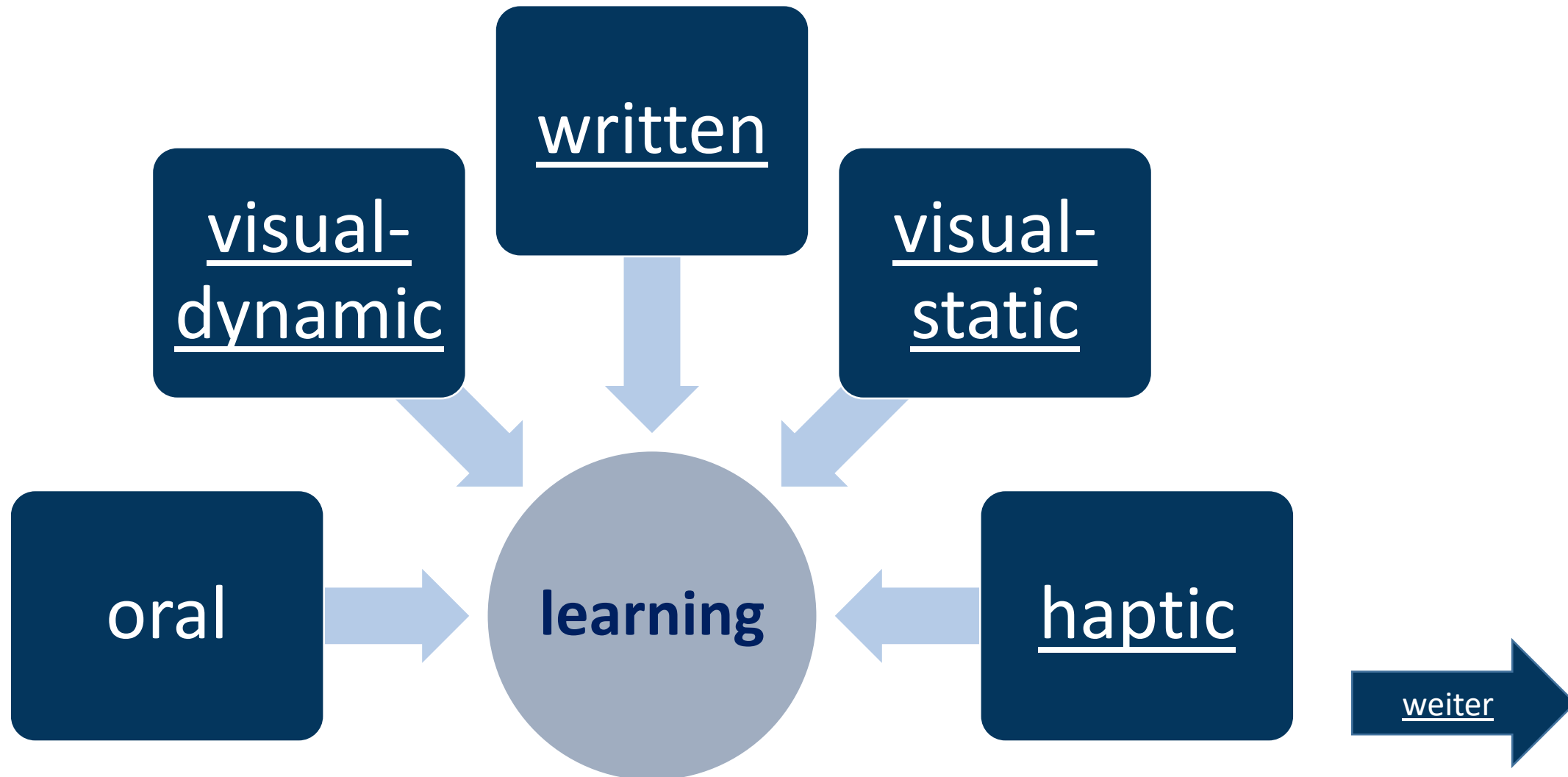


**Language learning with all senses - action-oriented
technical
teaching in language classes**

Research project for language education in technology education
Dr. Katharina Dutz

Five dimensions of the action-oriented concept



Visual - haptic

construction panel

- Presentation of the intermediate results on the workpiece
- Written instructions
- Spoken instructions by using the Anybookreader



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visual-static

construction manuals

- Serve the linguistic and iconic accompaniment of the action
- Bridging the linguistic gaps and guaranteeing a complete understanding of the workflow
- Support independent working out of the workflow
- Promote reading technical drawings



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oral

Anybookreader

- Storage of own voice recordings
- Stickers can be attached not only to texts, but also to objects
- Correct pronunciation can be withdrawn at any time
- Own language exercises can be compared and reflected independently
- Use in the project:
 - Playback of work instructions
 - Designation of tools
 - Practice vocabulary



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written

Step - by - step work instructions

- Serve the linguistic accompaniment of the action
- Are used in different levels as a workbook
- Serve the repetition and securing
- Introduce gradually into new grammatical forms and times



1. Ich spanne _____ ein.
Ich lege _____ auf die
angezeichnete Linie. Ich schlage mit
_____ leicht auf den
Beitel. Ich mache das auf beiden
Strichseiten.

**(das Werkstück / den Beitel / dem
Holzhammer)**

2. Ich lege _____
schräg an das Holz an. Ich
_____ den Beitel mit dem
Holzhammer leicht an. Ich drehe

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visual-dynamic

Video Tutorials

- Reduction of the teaching power in the class by increasing the independence of the pupils
- Work instructions can be reviewed and listened to independently of the instructor



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