# SUPPORTING MEANINGFUL ASSESSMENT THROUGH BALANCED LEARNING DESIGN

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### BACKGROUND

- For meaningful assessment, assessment methods should be linked to teaching and learning activities (TLA) and learning outcomes (LO), ensuring constructive alignment
- This can be enhanced through learning design (LD)
- Supporting assessment is one of the key ideas of the Balanced Learning Design Planning (BDP) concept and tool (Divjak et al., 2022)

# SUPPORTING ASSESSMENT

### Assessment validity

- Assigning study program and course LOs with relative weights, possibly using multi-criteria decision-making (Divjak et al., 2021)
- At the course level, the relative weights of LOs can be further distributed among chosen **assessment tasks**

#### Assessment planning

### **BDP CONCEPT AND TOOL**

- Comprehensive LD concept and tool implementing contemporary research findings and theory to support balanced LD planning
- Buliding on existing LD approaches: ABC LD, OULDI
- Developed in line with the **design science** methodology
- Support the implementation of various pedagogical approaches

# **INNOVATIVE FEATURES**

- Focus on LOs: alignment of LOs at the study program and course level (vertical alignment), constructive alignment between course LOs, TLAs and assessment (horizontal alignment)
- TLA types: acquisition, discussion, investigation, practice, production, assessment
- Assessment validity: relative weights of LOs
- Student-centredness: LOs and student workload

- Type of assessment (formative or summative)
- Assessment points (if relevant)
- Assessment provider (teacher, peer, self, automated, other)
- Feedback provider (teacher, peer, automated, other)

### Assessment analytics

- Overview of course assessment with respect to the assessment type and the assessment provider
- Analytics of intended LOs' coverage through topics and corresponding assessment tasks
- Comparison of **assessment weights**, based on planned assessment activities, with the relative weights assigned to course LOs

# PRELIMINARY FINDINGS

- Currently: 150 courses, 300 users, 20 countries around the world
- First cycles of validation within international projects (Erasmus+ RAPIDE, eDesk, Teach4Edu4): positive experiences of teachers, learning designers and researchers, input for improvements
  Further development: integration of the BDP tool with a Learning Management System, to complement the planning data with implementation data, as a basis for further learning analytics
- Curriculum analytics: LD planning in line with (innovative) pedagogical approaches

# EXAMPLES OF ANALYTICS

#### Contribution of assessment to LOs (points) vs. ideal LO weights





#### Learner workload per TLA type (in hours)



#### Assessment provider (count)



#### Assessment and learning outcomes

Торіс	Assessment		1.01									
	Formative	Summative		LUZ	LUS	LU4	LUS	LUb	LU7	LUX	LU9	LUIU
Innovative pedagogies	6	30	90%	90%	10%						10%	
Assessment	4	12	10%	10%	90%	100%				100%		
Learning analytics	11	20					100%	100%	90%			20%
Impact	2	20							10%		90%	80%
Total	23	82										
	105		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%



DESIGN LEARNING AND ASSESSMENT WITH THE BDP TOOL! Visit www.learning-design.eu - scan the QR code!

Examples based on the innovative pedagogies and learning

analytics course prepared in the Erasmus+ RAPIDE project



#### **REFERENCES:**

Divjak, B., Kadoić, N., & Žugec, B. (2021). The Use of Decision-Making Methods to Ensure Assessment Validity. 2021 IEEE Technology & Engineering Management Conference -Europe (TEMSCON-EUR), 1–6. https://doi.org/10.1109/TEMSCON-EUR52034.2021.9488580 Divjak, B., Grabar, D., Svetec, B., & Vondra, P. (2022). Balanced Learning Design Planning: Concept and Tool. Journal of Information and Organizational Sciences, 46.