DALICO
Data Literacy in Context

IO3 DaLiCo LEARNING SPACE CANVAS

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IO3 DaLiCo LEARNING SPACE CANVAS

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ABSTRACT

Within the process of work in IO3 learning space the DaLiCo Learning Space Canvas Model was developed. This template can be used to analyse existing data literacy learning environments or to support the design process for new learning spaces.

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Introduction

Within the process of work in IO3 learning space the DaLiCo Learning Space Canvas Model was developed. The Canvas is used to compile an overview of existing infrastructure and resources (physical and virtual). For this as-is analysis a specific method and format was created based on the Business Model Canvas (Osterwalder 2010) and using the Open project management canvas[1] as a blueprint. This gives a detailed overview which learning programs/formats for data literacy are already known and in use at the universities.

Figure 1: Structure of DaLiCo Data Literacy Learning Space Canvas

The canvas enables a structured approach divided into a proposed set of aspects. These aspects are detailed by questions. These questions are to be seen as propositions, which can be adapted, they enable more comprehensive descriptions to gain illustrative insights what is exactly meant by the topics.

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[1] OpenPM Canvas, https://www.openpm.info/display/openPM/Canvas

Structure and Features

LEARNER SEGMENTATION • Who are the possible learners (class)? • What are their requirements? • What will be their benefits? • Do they have to accredit it?	Focus on Learning: These questions serve to describe the background and situation of the learner.
LEARNING PROCESS • What kind of learning activities take place? • What kind of assessment is possible? • How can formal learning be integrated? • Do we address to different learning styles?	Focus on Learning: These questions analyse the didactical design and concept.
DATA LITERACY COMPETENCIES • Which competences are addressed? • Which knowledge levels will be addressed? • Classification according the dimensions "knowledge", "skills", "attitude", "behavior"?	Focus on Learning: The data literacy competences and deriving topics can be explained in depth.
SPACE & DESIGN • Is it virtual or physical? • How is it conceived/designed? • How can flexibility be integrated? • Can we find different scenarios? • How is it promoted and announced? •	Focus on setup: Aspects of physical and virtual design are specified.
DATA APPLICATION & TOOLS • Which specific applications are needed? • How is the access to data granted? • How to practice a variety of tools? • How is security preserved? • How do we evaluate user itinerary?	Focus on setup: Data specific demands for system environments are taken into account

MANAGEMENT • Which department of the University is responsible? • How is performance and evaluation measured? • How are user demands collected? • Is it sustainable?	Focus on setup: Aspects of the management background of the offers/products are analysed.
SERVICES & HARDWARE • What kind of support structures exist? • Which services are added? • What kinds of instruction material is offered? • Which hardware equipment is needed? • How to integrate and adapt BYOD practices	Focus on organisation: These aspects describe the organisational context.
STAKEHOLDERS • Who are the Stakeholders? • What are the stakeholders' roles? • What are the teachers' roles? • How is the LS certified? • How are students going to be certified?	Focus on organisation: This focus is to take into account the variety of perspectives of different stakeholders.

Within the project this format was also tested in the design phase, as this structure can also serve as a starting point for conceptional development and design of a learning space.

The shown template in Figure 2 is made available as an open document and can be downloaded from the DaLiCo repository provided by the partner University in Debrecen (Gläser, C. 2022).

Figure 2: DaLiCo Data Literacy Learning Space Canvas

Sources

Gläser, C. (2022). DaLiCo Learning Space Canvas. https://doi.org/10.48428/ADATTAR/AHLP1Y

Osterwalder, A., Pigneur, Y., Clark, T. (2010). Business Model Generation: a Handbook for Visionaries, Game Changers, and Challengers. John Wiley & Sons, Hoboken, NJ