



# Preliminary Topics: Innovations in Information Systems, Augmented Reality and the Role of Digital Platforms

Bachelor Seminar WS2018/2019

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# Literature Reviews – Topic 1 (BMs and DPs)

- Differentiate the concepts "Sharing Economy" and "Platform Economy" in form of a literature review
- **Necessary prior knowledge: -**

# Literature Reviews – Topic 2 (BMs and DPs)

- According to which aspects could currently established platform-oriented business models be feasibly categorized?
- **Necessary prior knowledge: -**

# Literature Reviews – Topic 3 (BMs and DPs)

- Survey and classify monetization strategies of established platform business models
- **Necessary prior knowledge: -**

# Literature Reviews – Topic 4 (BMs and DPs)

- Present the main challenges to converting an extant pipeline business to a platform (with help of the Business Model Canvas)
- **Necessary prior knowledge: -**

# Literature Reviews – Topic 5 (BMs and DPs)

- Present the main challenges to establishing a new platform business (with help of the Business Model Canvas)
  
- **Necessary prior knowledge: -**

- What role does privacy play for the use of Augmented Reality (AR) technologies?
- **ToDo:** Conduct a systematic literature review (according to an established methodology) in the human-computer interaction (HCI) domain and analyze the existing research on privacy and AR
- **Necessary prior knowledge:** -

- What role does security play for the use of Augmented Reality (AR) technologies?
- **ToDo:** Conduct a systematic literature review (according to an established methodology) in the human-computer interaction (HCI) domain and analyze the existing research on privacy and AR
- **Necessary prior knowledge:** -



- What role does security play for the use of Augmented Reality (AR) technologies?
- **ToDo:** Conduct a systematic literature review (according to an established methodology) in computer science and AR-specific outlets and analyze the existing research on privacy and AR
- **Necessary prior knowledge:** -

- Define and analyze the concept of the „AR Cloud“ and categorize existing research and practical reports on this topic
- Analyze the role of the AR cloud for the future development of the technology
- **ToDo:** Conduct a systematic review (according to an established methodology) considering theoretical as well as practical work
- **Necessary prior knowledge:** -

# Quantitative Work – Topic 10 (AR)

- Explore the relationship between consumer innovativeness and the use of mobile augmented reality technologies – the case of Pokémon Go
- **ToDo:** Conduct a statistical analysis on this topic based on a given data set of 681 active users of Pokémon Go (data set is provided to you before you start)
- **Necessary prior knowledge:** basic knowledge on statistics and quantitative methods

# Quantitative Work – Topic 11 (AR)

- Explore the impact of privacy concerns and experiences on the use behavior of mobile augmented reality technologies – the case of Pokémon Go
- **ToDo:** Conduct a statistical analysis on this topic based on a given data set of 681 active users of Pokémon Go (data set is provided to you before you start)
- **Necessary prior knowledge:** basic knowledge on statistics and quantitative methods

# Literature Reviews – Topic 12 (DLT and CCs)

- How does the current research landscape on cryptocurrencies look like in the IS domain?
- **ToDo:** Conduct a systematic literature review (according to an established methodology) in the Information Systems (IS) domain and analyze and synthesize the existing research on cryptocurrencies
- **Necessary prior knowledge:** -

# Literature Reviews – Topic 13 (DLT and CCs)

- How does the current research landscape on the distributed-ledger technologies look like in the IS domain (besides cryptocurrencies)?
- **ToDo:** Conduct a systematic literature review (according to an established methodology) in the Information Systems (IS) domain and analyze and synthesize the existing research on DLT (consider all applications except for cryptocurrencies)
- **Necessary prior knowledge:** -

# Literature Reviews – Topic 14

## Theory Reviews

- Analyze and synthesize research based on the Elaboration likelihood model (ELM) in the information systems domain
  - Especially consider research applying ELM in the context of privacy
- **Necessary prior knowledge:** -

# Literature Reviews – Topic 15

## Theory Reviews

- Analyze and synthesize research in the information systems domain which is based on an *experimental research design*
- Discuss experimental designs in contrast to other quantitative methods
- **Necessary prior knowledge: -**



# Literature Reviews – Topic 16

## Theory Reviews

- Analyze and synthesize research based on the Expectation-confirmation theory (ECT) (e.g. Bhattacharjee 2001) in the information systems domain
  - Especially consider different conceptualizations of the included constructs and analyze the specific outcomes of the different articles (meta-analysis)
- **Necessary prior knowledge:** statistical knowledge advantageous for the meta-analysis

(Bhattacharjee, A. (2001). Understanding Information Systems Continuance: An Expectation-Confirmation Model. *MIS Quarterly*, 25(3), 351–370.)

- Critically analyze the Gartner Hype Cycle with respect to the past predictions and current represented technologies
- Method is free to choose: essay, literature review, quantitative analysis of representative cases etc.
- **Necessary prior knowledge:** statistical knowledge needed in case of choosing a quantitative method for analysis



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