

# Brugerinddragelse i Udvikling af IT-Arkitektur (BUITA) og Projekt Portfolio

Intro

February 2 2018

Keld Bødker

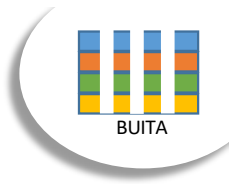




## The BUITA course and project portfolio



## Project Portfolio group establishment



# Teachers

- Magnus Hansen, Assistant professor, PhD
- Niels Jørgensen, Associate Professor, PhD
- Keld Bødker , Associate Professor, PhD

# About me

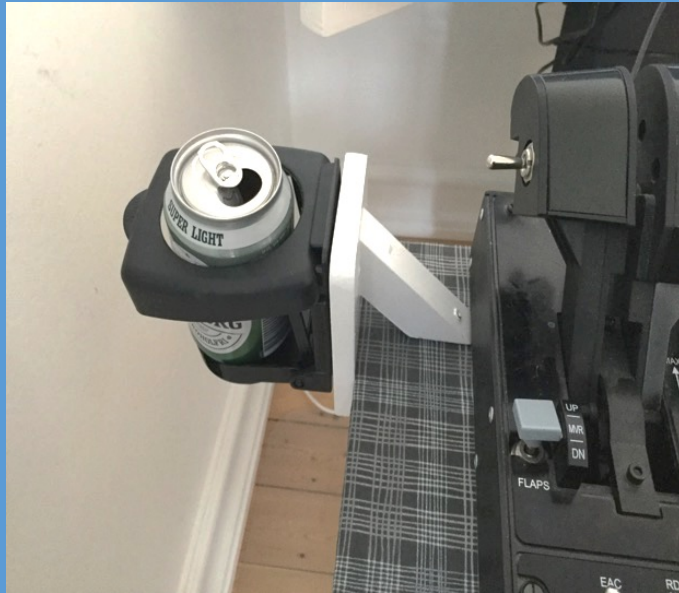
- Research into user's changing expectations
- Practice oriented research
- Focus on designing usable artefacts
- Love to teach:
  - Organizational Systems Development
  - Project Management
  - Process Improvement
  - Practice-based evaluation of technology

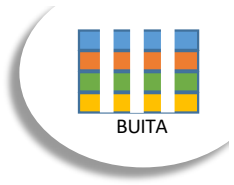


"Love to learn from those I teach"

# Something less known about me







# About me: Niels Jørgensen

- Associate Professor, PhD
- Roskilde University

# About me

Associate Professor, PhD  
Roskilde University, Jan. 1986 –

Research (keywords):  
System development in an organizational context  
Participatory Design processes

Teaching (keywords):  
BUITA  
Portfolio Project  
UXD, AUX



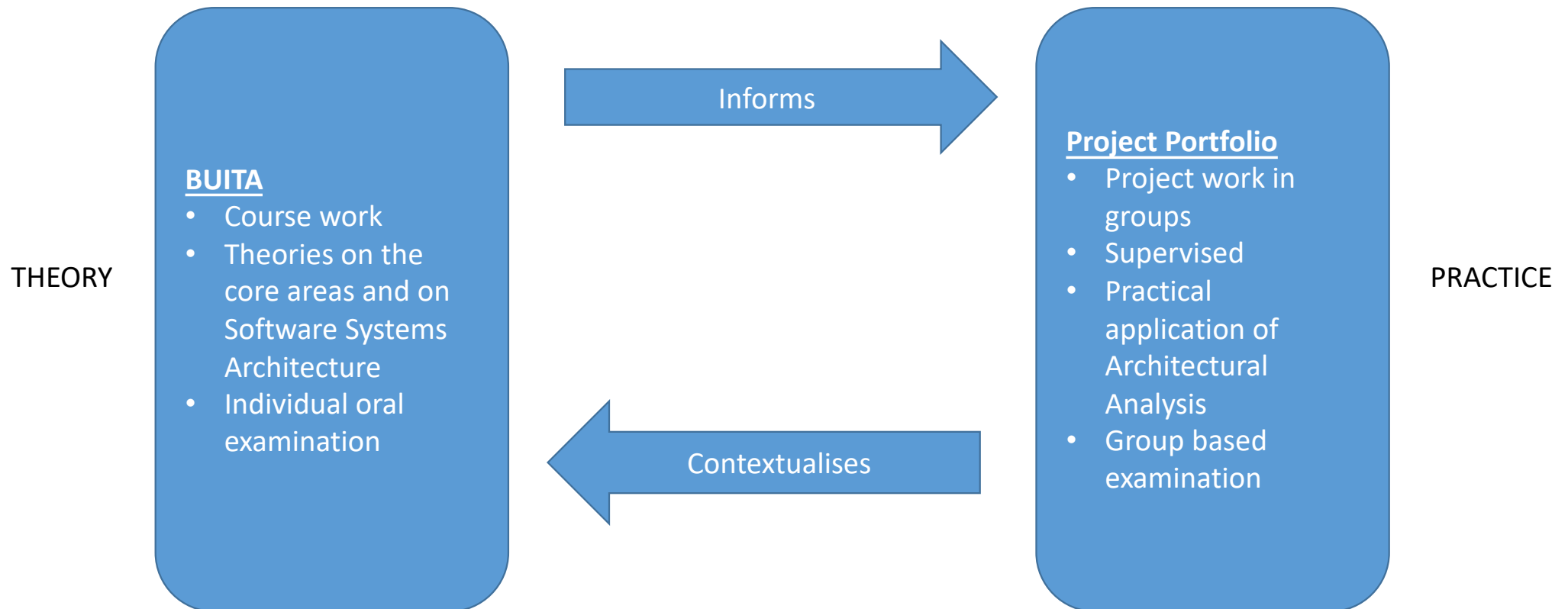
Keld Bødker  
keldb@ruc.dk



# General information

- Official course info: [kursus.ruc.dk](https://kursus.ruc.dk)
  - The "contract" between you and the university
- Further details: [moodle.ruc.dk](https://moodle.ruc.dk)
  - Exact time, learning goals, readings,

# Two concurrent processes



# BUITA at a glance

- 10 ECTS
- 16 weeks
  - twice weekly in February and March (Tuesdays and Thursdays)
  - once weekly in April and May
- 4 core areas of informatics <-- theoretically
  - System development
  - Implementation, including change management
  - Evaluation of IT usage
  - IT security
- Text book and research articles
- Supports the portfolio project work packages

# Project Portfolio at a glance

- 15 ECTS
- You have to find an organisation in need of an architectural analysis
- 7 milestones with associated work packages planned + peer review
- Supervisors:
  - Keld Bødker
  - Magnus R.P. Hansen
- Hand-in Reflection Report based on project portfolio: May 31 at noon
  - [www.eksamen.ruc.dk](http://www.eksamen.ruc.dk)
  - 1 x Architectural Description (template given at BUITA course)
  - 1 x Reflection document (5 pages pr. student in the group)
- 4 core areas of informatics ← practically
- You find your own literature and/or draw on the BUITA literature

# Have knowledge of:

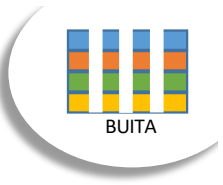
- Systems Development and Design: *Core concepts of the systems architecture definition process, Organizational Systems Development, Paradigms of systems development, Soft Systems Methodology.*
- Evaluation of IT: *Architecture evaluation, Technochange prototyping, summative and formative evaluation.*
- Implementation and Change Management: *Nexus of Change management, Knowledge management systems, Computer-supported Collaborative Work, Diffusion of innovations.*
- IT security: *Privacy By Design, Security technologies, and Identity Management Systems.*

# Skills, to be able to:

- Systems Development and Design: *IT architecture development, including stakeholder analysis, Architecture Viewpoints and Perspectives, and Architecture Skeleton Construction, CATWOE, Rich pictures.*
- Evaluation of IT: *Lifecycle evaluation, Architecture evaluation, Stakeholder evaluation, Pilot implementations, Phased implementation.*
- Implementation and Change management: *Organizational structure assessment, mitigation of technology-derived challenges.*
- IT security: *Privacy Impact Assessment, Risk analysis, Security Planning.*

# Competencies, to be able to:

- Work with IT related problems individually and with a team.
- Account for, identify and analyze challenges related to IT architecture.
- Use tools and techniques for locating and retrieving contemporary IS literature research.
- Critically discuss and reflect on the quality and usefulness of contemporary IS research literature.



# BUITA

Literature, main concepts and lecture structure



Course book: Software Systems Architecture  
- Rozanski, N., & Woods, E. (2012) *Software systems architecture* (2nd ed.). Addison-Wesley

Part I: fundamentals (ch. 2-5)

Part II: the process of software architecture (ch. 6-14)

Part III: the viewpoint catalog (ch. 15-23)

Part IV: the perspective catalog (ch. 24-29)

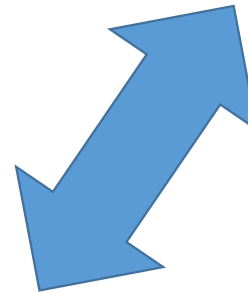
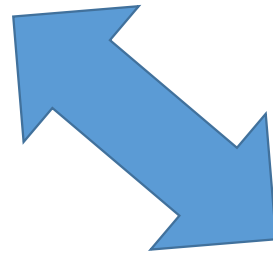
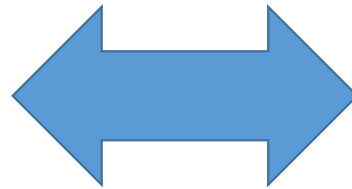
Part V: putting it all together (ch. 30)

Done 8<sup>th</sup> of march.

# Articles

- Find them yourself through REX: <http://kub.kb.dk/c.php?g=202959>
- State-of-the-art articles are used from March and onwards
- They will be related to the four core areas of Informatics

# Architecture?



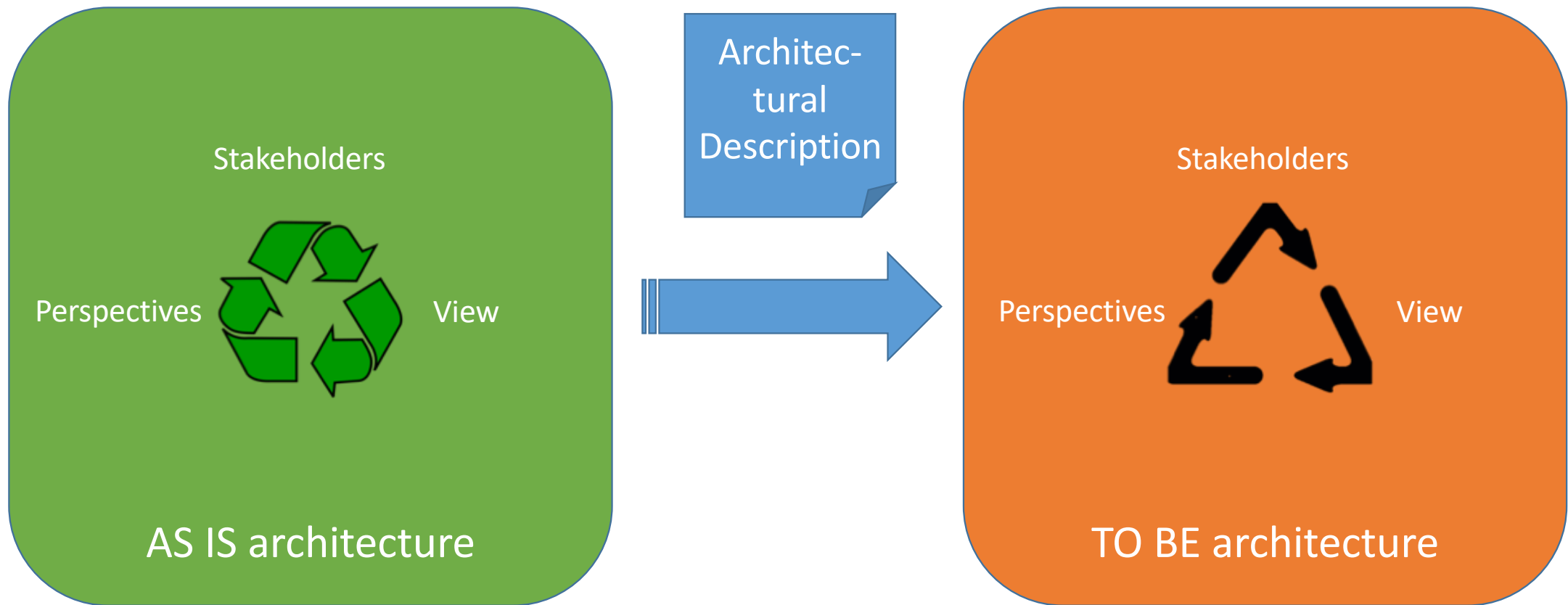
# 3 main concepts regarding architecture



# Main concepts

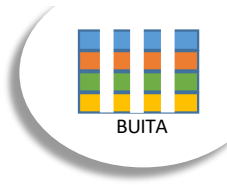
- Stakeholders
  - Those impacted by and with a vested interest in the architecture
  - Owners, architects, customers, users, IT support, legislators etc.
- View
  - Aspect of the information technology in relation to how it responds with stimulus of the real world
  - Contextual, functional, information, deployment, operations etc.
- Perspective
  - A system quality that can be applied across views
  - Usability, concurrency, performance, security

# Your task as an architect



# Lecture structure

- Title of lecture
- Themes of lecture and structure
- Literature: which and why
- Recap of most valuable learning points from previous lecture
- Learning goals explained
- How the lecture relates to the portfolio-project timeline
- How the lecture relates to core areas and IT architecture
- Presentations and exercises
- Recap and outro of lecture

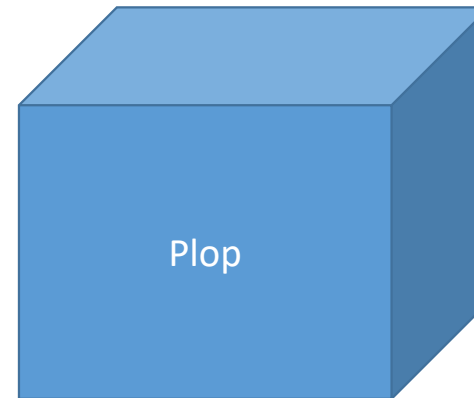


# Project Portfolio



# Work package content

- Project charter
- Stakeholder analysis
- Context viewpoint
- Functional viewpoint
- Information viewpoint
- Security assessment tools
- Many more...



# Seminars

## - feedback on work packages

- February 20
- March 6
- March 13
- April 10
- April 26
- May 15
- May 22
- May 24

# Project Portfolio

- Need to establish groups by the 20<sup>th</sup> of February (or sooner)
  - Hand in a project charter with project team name, purpose, case and project team members
- Relatively autonomous process, so plan to meet each other!
- Today will be the first day where you mingle
- You (may) have mingle time Tuesday as well
  - The next official Project Portfolio meet-up is the 20<sup>th</sup> Feb.
- Divided by who already knows a potential case to work with
  - Short rounds of 20 minutes “speed dating”
  - 5 minutes status updates

# The good case

- Look around for someone you know who works for ‘any company’
- You need access to the company
  - Main stakeholders
  - Access to technological infrastructure, hardware and software
  - Meetings 1 x hour every three weeks for architectural review products
- The company needs to be larger than 10 people
- It’s preferable if the company already has an existing IT architecture
- International company might be preferable if you have international students in your group, otherwise you have to divide up work between you