Organizational Project Management (OPM) and Artificial Intelligence

Prof Ralf Müller
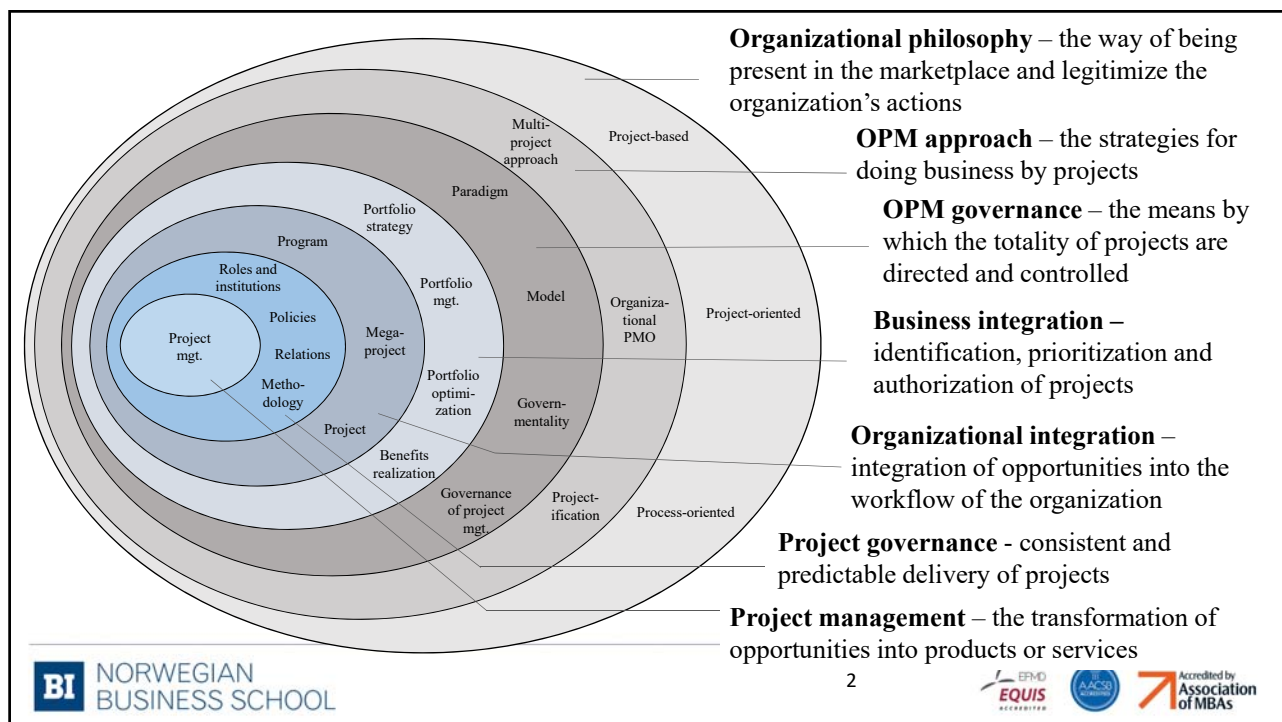*BI Norwegian Business School, Norway*
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Organizational philosophy – the way of being present in the marketplace and legitimize the organization's actions

OPM approach – the strategies for doing business by projects

OPM governance – the means by which the totality of projects are directed and controlled

Business integration – identification, prioritization and authorization of projects

Organizational integration – integration of opportunities into the workflow of the organization

Project governance - consistent and predictable delivery of projects

Project management – the transformation of opportunities into products or services

Labels within the diagram: Multi-project approach, Project-based, Paradigm, Portfolio strategy, Program, Portfolio mgt., Model, Organizational PMO, Project-oriented, Roles and institutions, Policies, Mega-project, Project mgt., Relations, Methodology, Portfolio optimization, Governmentality, Project, Benefits realization, Governance of project mgt., Project-ification, Process-oriented
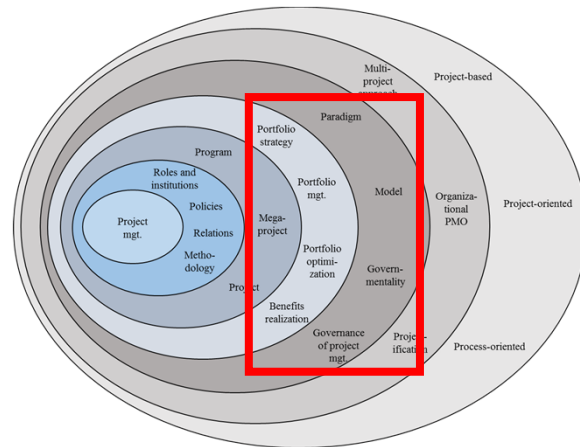
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2

Starting-up a study on AI/ML in governance of projects

Joint study between BI, UTS, and Silicon Valley-based Internet service provider
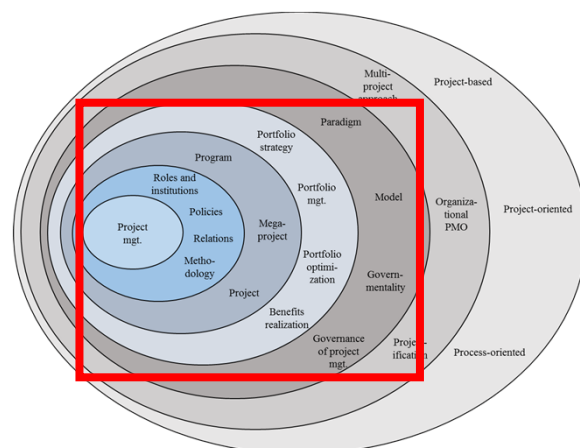
Step 1:

1. Investigate the current level of AI/ML use in governance of projects/portfolio management

2. Identification of the key governance-related questions that can be answered using AI/ML

3. Identification of areas that can benefit from implementing or migrating towards the use of AI/ML

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AI/ML at a large Internet service provider

Step 2:

1. Investigate a feature representation of projects

2. Investigate early warning prediction algorithms for projects or entire portfolios of projects.

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Investigation

- Investigate the current level of AI/ML use in the governance of projects.
  - Assess organizational unit on the use of AI/ML in their daily practices, using interviews and questionnaires.
  - Aim: identify one or several exemplary applications of AI/ML in the governance of projects.
  - Provides the required understanding of current practices
- Identification of the key governance-related questions that can be answered using AI/ML in the context of governance of projects.
  - Investigate the most important data required for efficient governance of projects
  - Provides for an improvement in governance practices.
- Identification of areas that can benefit from implementing or migrating towards the use of AI/ML.
  - Expanding the learning to other elements of governance of projects for potential improvement.
  - Provides a potential roadmap for future development of the governance system.

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Method

- Approximately 20-30 semi-structured interviews

- Followed by an analysis workshop

- Analysis will be done through established qualitative and quantitative analysis techniques

- The results will be communicated to the management of the participating organizations and published as academic research articles, with no reference to organizations or individuals.

- Timeframe: approximately 6 months

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Interested?

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