BASICS OF PROJECT MANAGEMENT BME/BUTE – Faculty of Architecture Department of construction technology and management István Vidovszky PhD Building Project Management

BMEEPEKT601: theory 2 credits OR
BMEEPEKK601: theory + practice 4 credits
BMEEPEKK602: practice 2 credits (only together with T601)

Lecturers
Adrienn Lepel PhD
István Vidovszky PhD
Guest lecturers
Requirements
Two mid-semester tests (30-30 min.) 16.03.2016 and 11.05.2016

Exam
Semester Project (only for 2+2 or 4 credit courses)

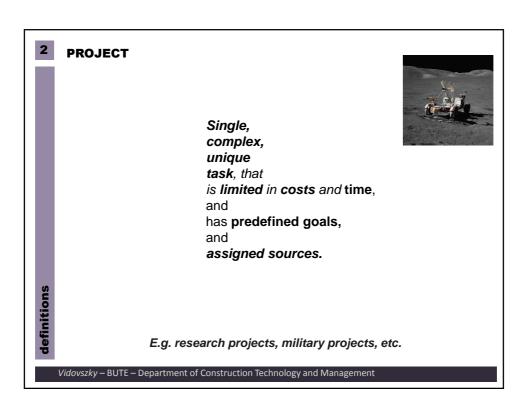
1. definitions

2. history of project management

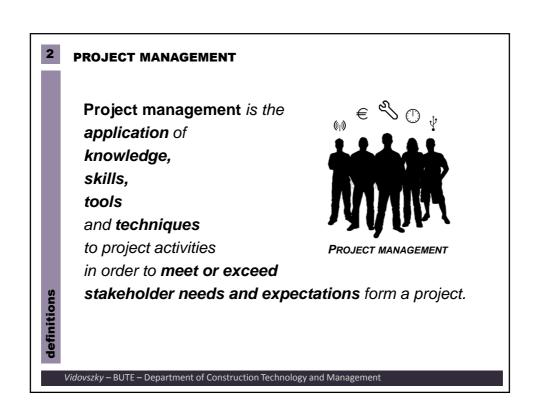
3. project management

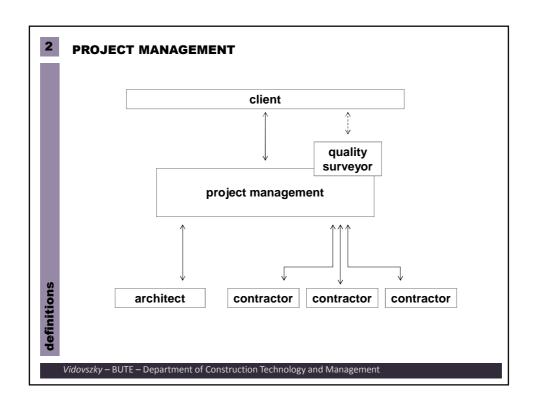
4. tools of project management

5. construction management











2 PROJECT MANAGEMENT

What is the role of a project manager?

BOSS? LEADER? ...COORDINATOR?

efinitions

history of project management

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BRIEF HISTORY OF PROJECT MANAGEMENT

1941 the first PM documentation: Manhattan Engineering District Project

1956 the first PM documentation and handbook: C/SCSC (Cost/Schedule Control System Criteria) – **US Air Force** AFSCM375 (**Air Force System Command Manual**)

1958 the first PM planning method: **US-Navy PERT** (Program Evaluation and Review Technique) – part of the Polaris Missile Program

 ${\bf 1959}$ Paul Gaddis uses the expression "project manager" in the Harvard Business Review

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3 BRIEF HISTORY OF PROJECT MANAGEMENT

1960-s civil building and oil industry began to use the PM methods of the US-Air Force, US-Navy and NASA PM $\,$



new independent discipline in universities and business schools

1965 formation of IPMA (International Project Management Association)

1981 APM (Association of Project Management) - publication of the "Body of Knowledge" PM system

1985 PMI - publication of the "Guide to the Project Management Body of Knowledge"

IPMA – publication of the "International Competence Baseline"

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4 PROJECT MANAGEMENT SYSTEMS

Systems and standards for PM

history of project management

- 1. PMBOK Guide by PMI (Project Management Institute)
- books of the FIDIC (Fédération internationale des ingénieurs-conseils = International Federation of Consulting Engineers)
- 3. ISO standards

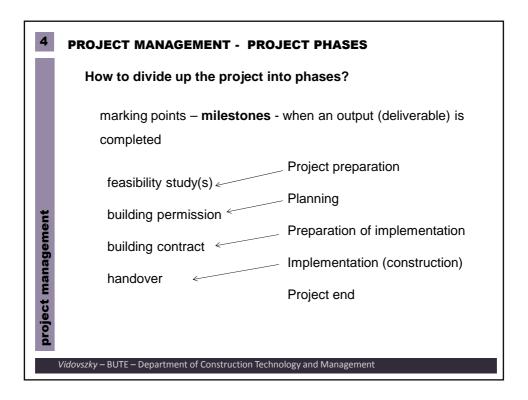
project management

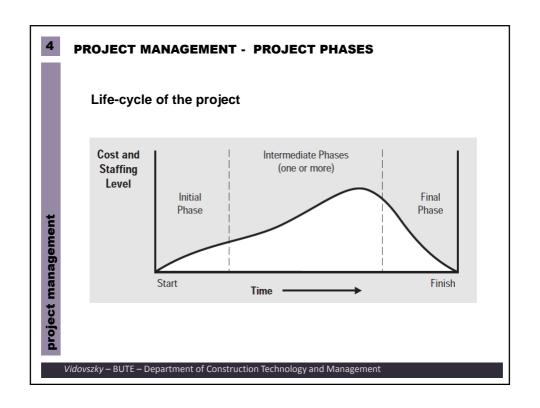






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Process is a series of actions bringing out a result.

1. project management processes

initiating processes

planning processes

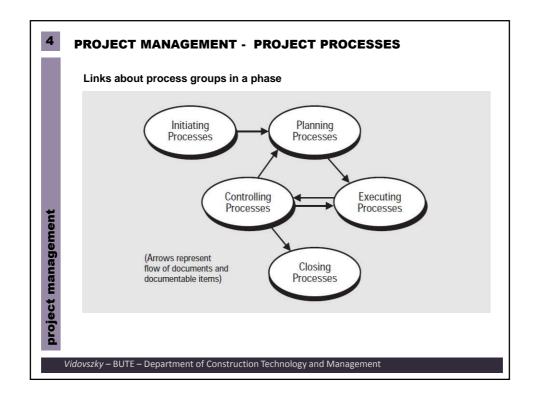
planning processes

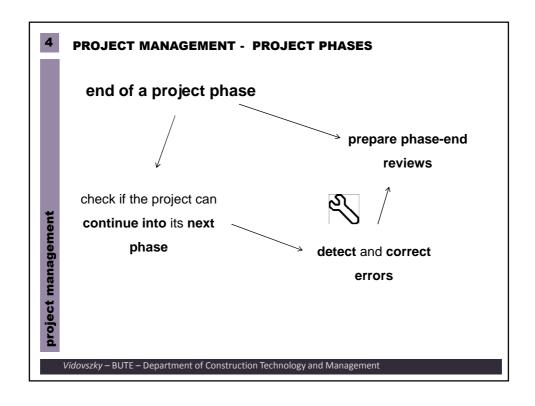
controlling processes

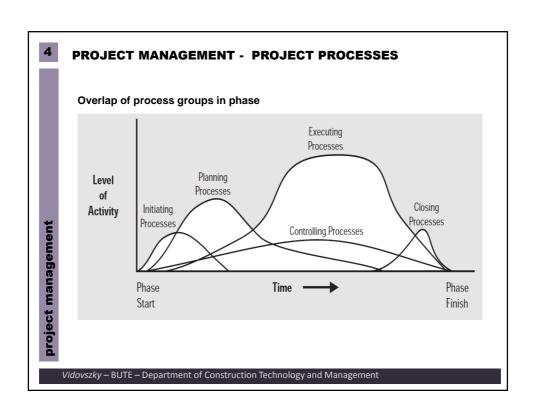
closing processes

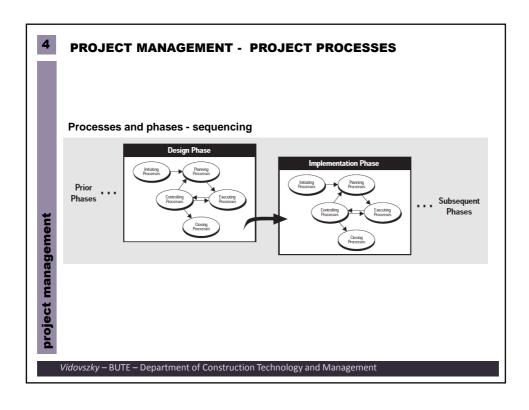
closing processes

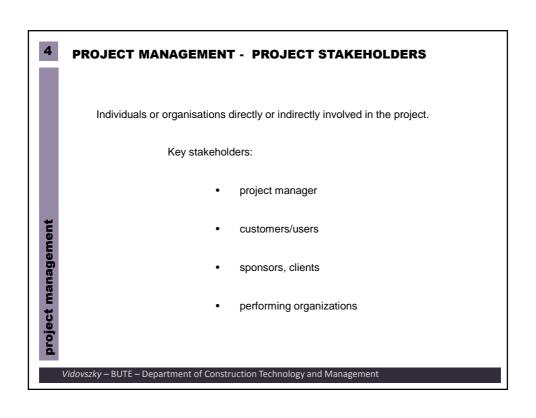
product-oriented processes

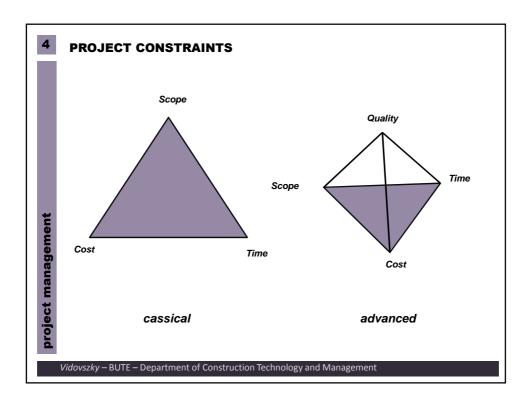


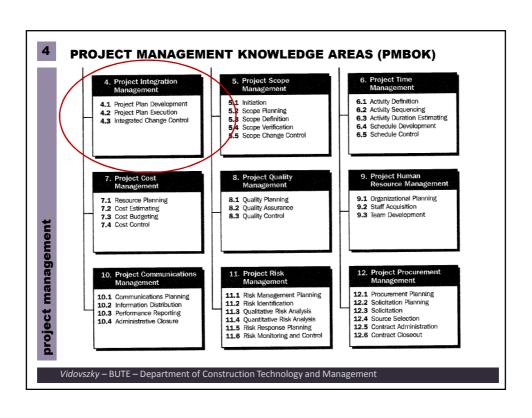


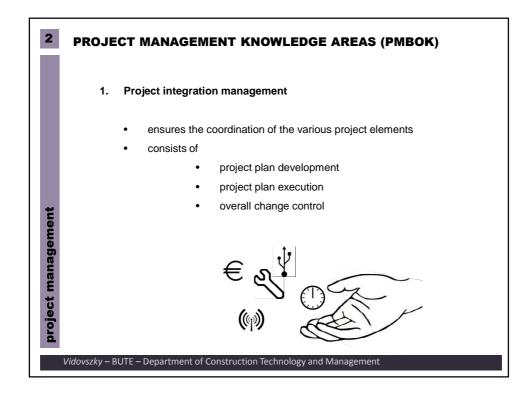


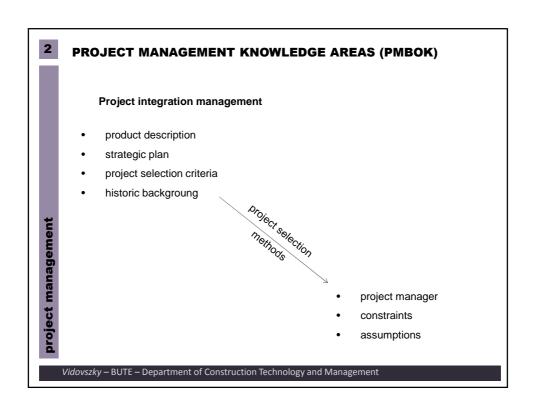


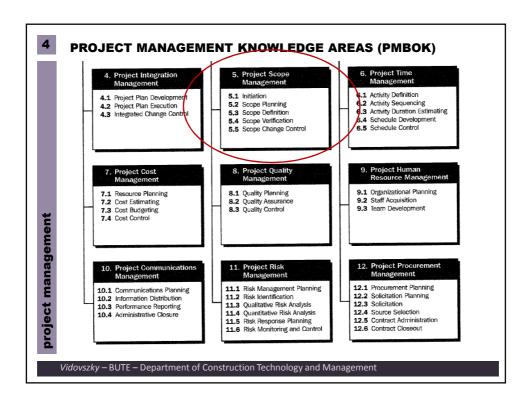


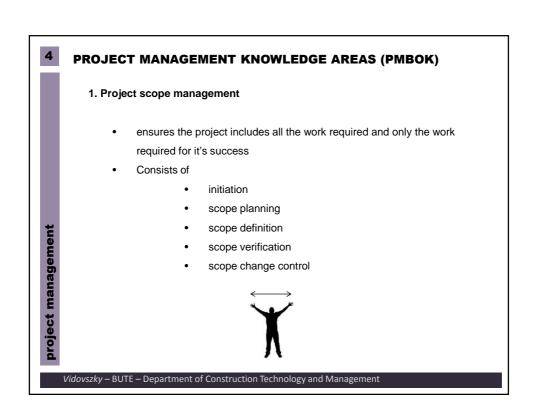


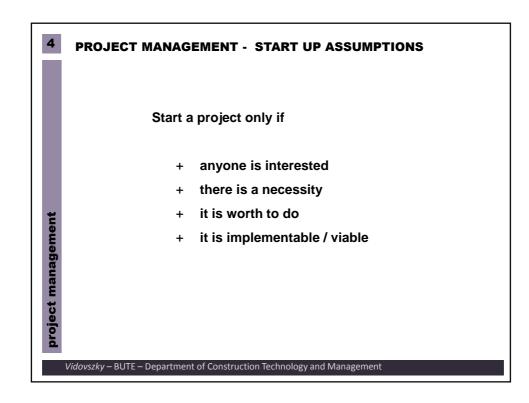


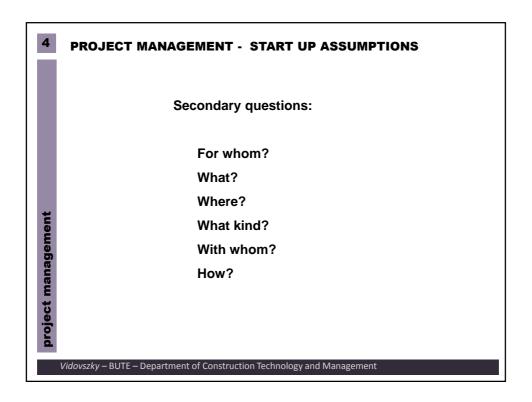


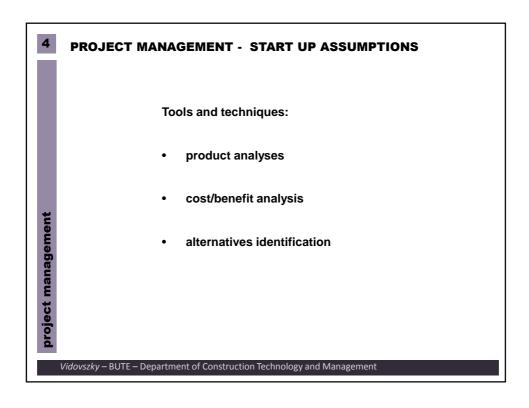


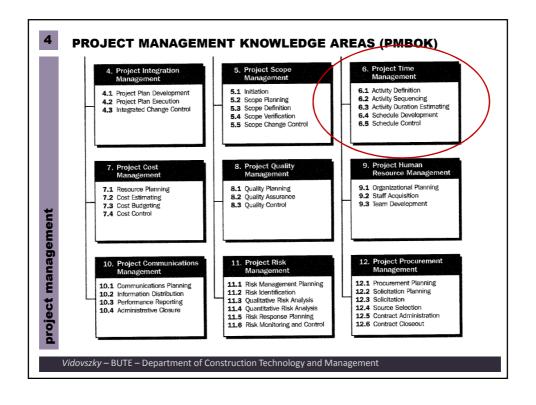


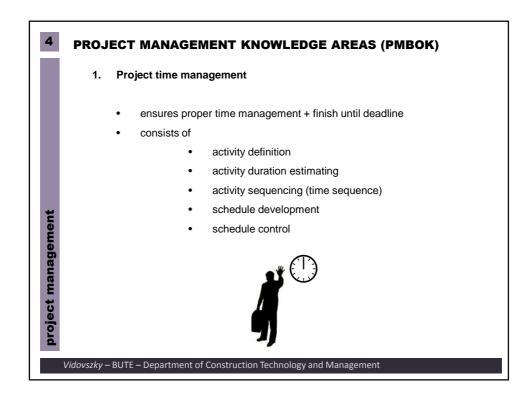


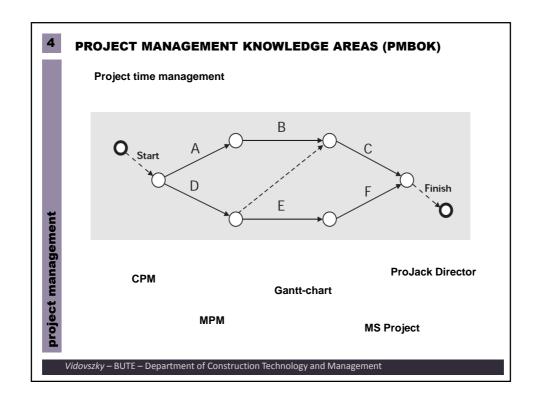


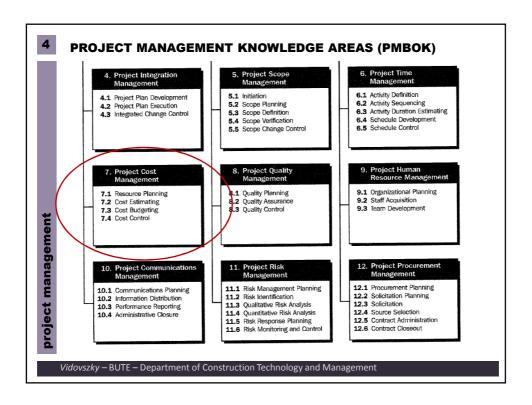


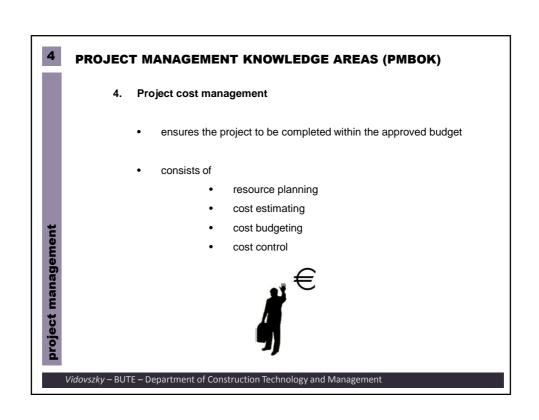


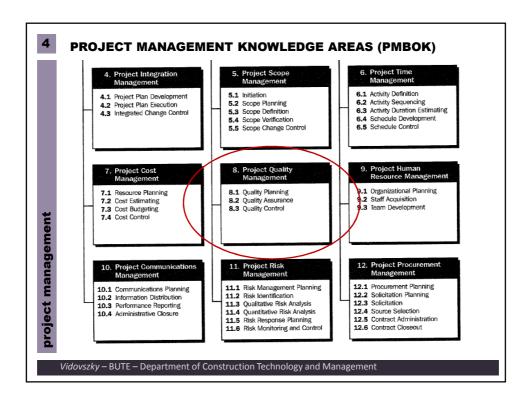


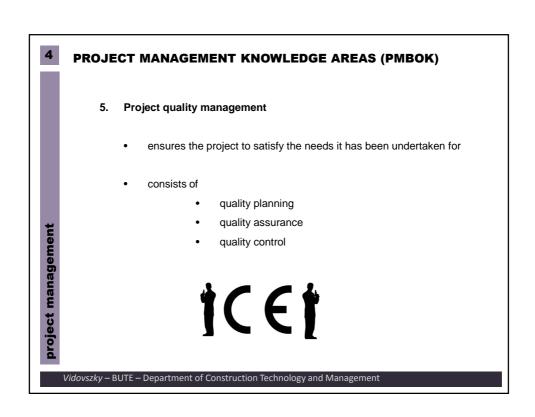


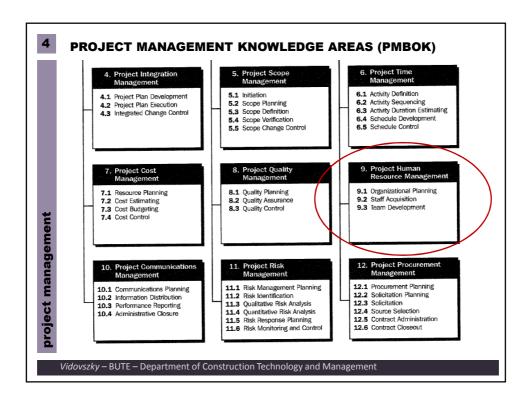


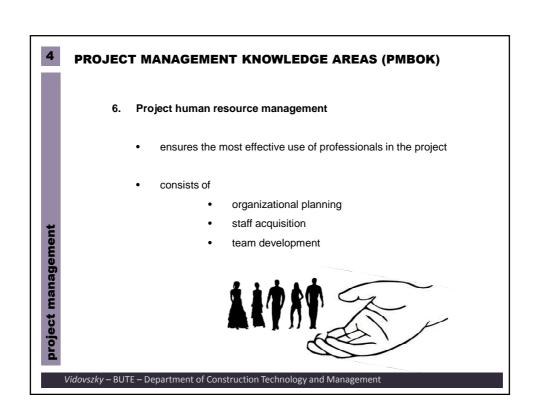


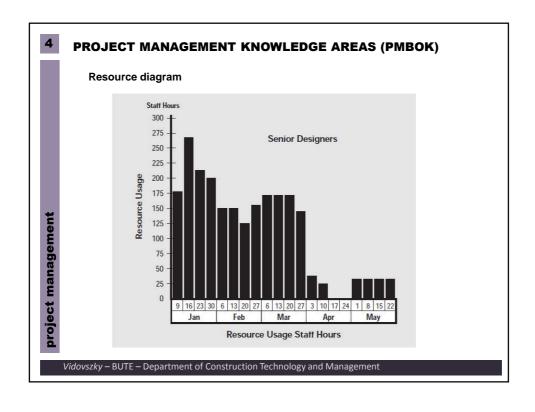


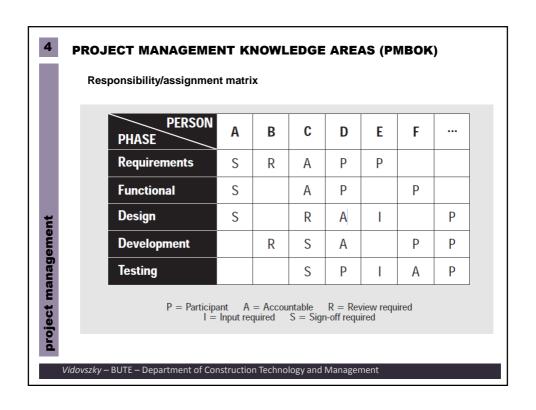


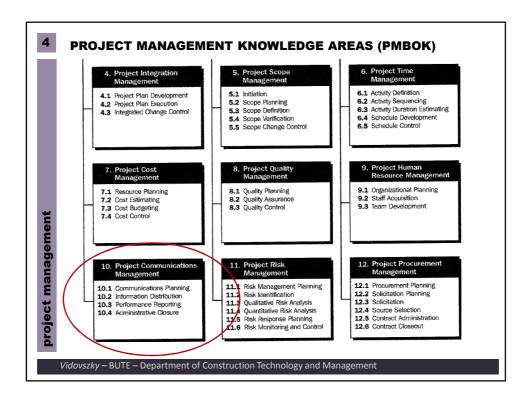


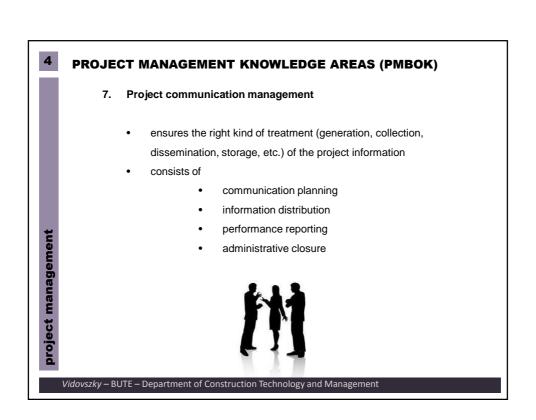


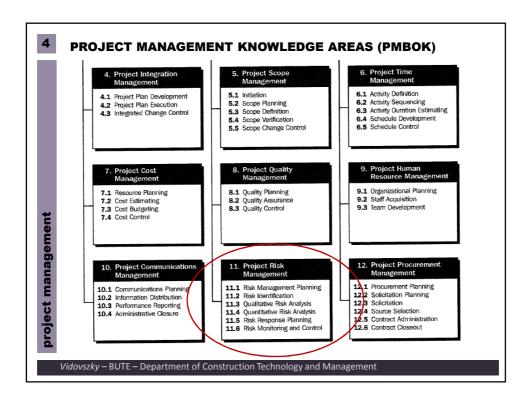


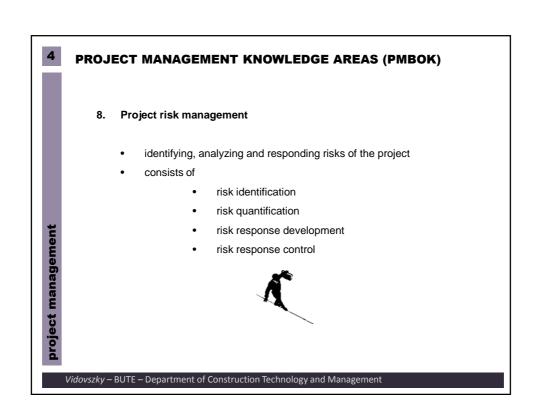


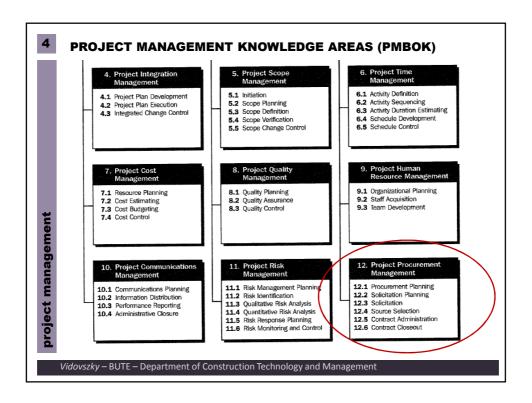


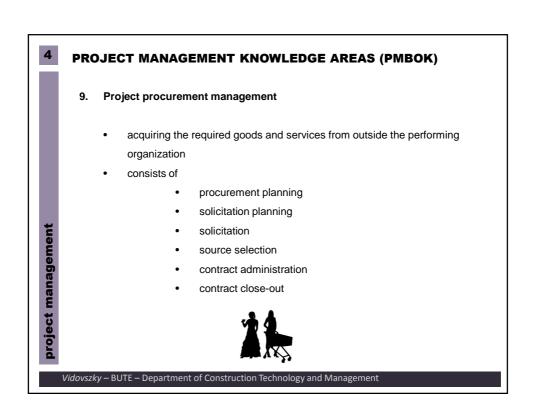




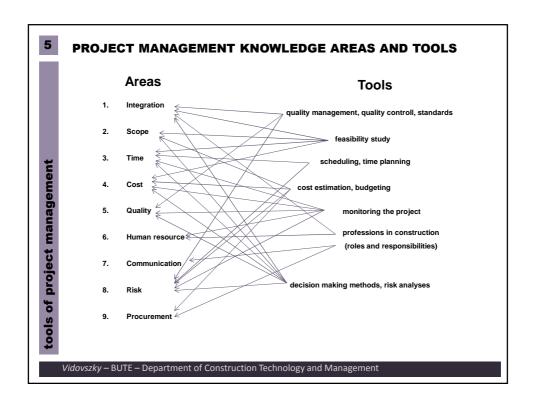








PROJECT MANAGEMENT ISO STANDARDS General standards ISO 9001:2000 - Quality management systems - requirements - Environmental management systems. ISO 14001:2004 Requirement with guidance for use OHSAS 18001:2007 - Occupational health and safety management systems. - requirements - Information Technology – security techniques of practice for information security system ISO/IEC 27001:2005 Code project management **Functional standards** ISO 10006:2003 - Quality management systems - guidelines for quality management in projects ISO 10015:1999 - Quality management - guidelines for training - Guidelines for quality and/or environmental ISO 19011:2002 management systems auditing Vidovszky – BUTE – Department of Construction Technology and Management



6 CONSTRUCTION PROJECT

- most cases single, unique, project-like investment
- relative high investment **costs** from altering financial sources
- high demands on professionals
- predefined quality
- directly (e.g. cultural segment) or indirectly (e.g. industry, agriculture) satisfies social **claims**
- aiming a well functioning building with low operation cost

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