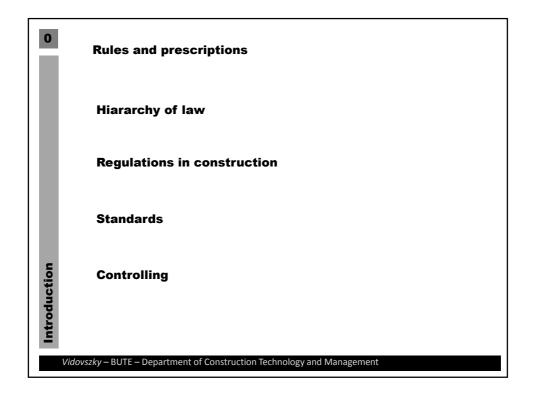
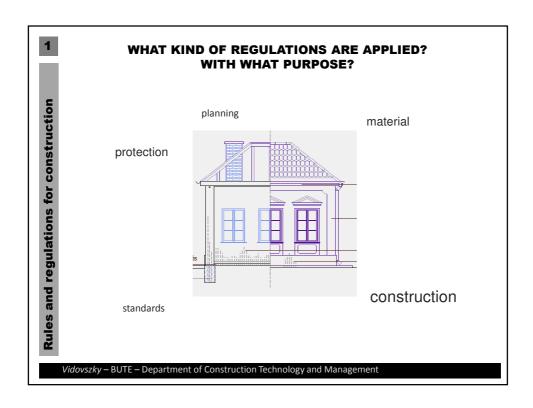
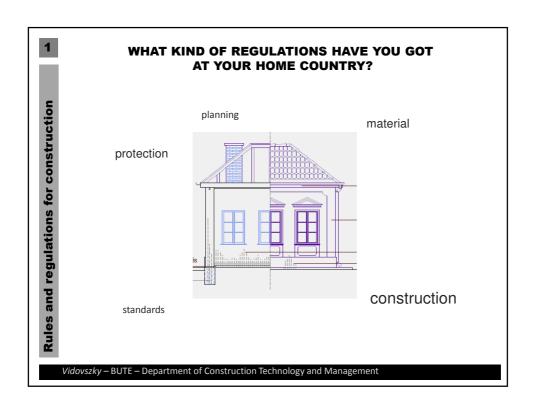
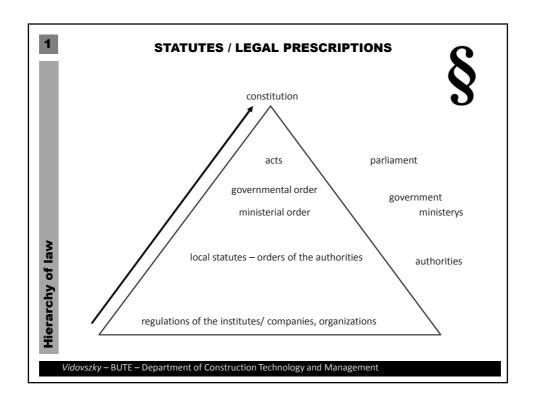
Regulations
concerning to the
construction

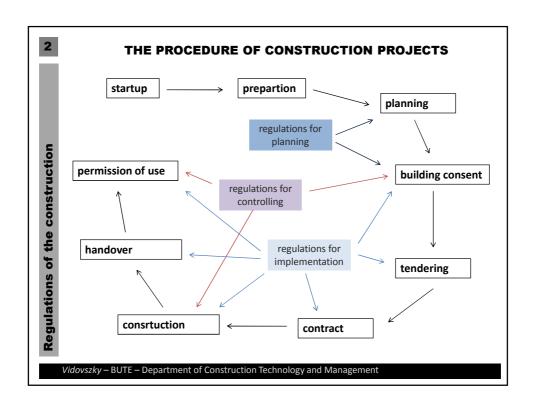
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Department of construction technology
and management
István Vidovszky PhD
Controlling of construction technology











2

ARCHITECTURAL PLANNING PROCESS WHAT IS REGULATED?

Limitations:

- building height
- gross built area
- minimum green surface
- functional limitations building areas

Technical requirements:

- use performances (light, air, etc.)
- energy consumption
- endurance requirements
- material quality

Process

- documentation requirements
- process protocol

Heritage protection

- · world heritage sites
- national listed monuments
- local listed buildings
- protected heritage area

Safety rules

- fire protection
- safeguarding
- work and use safety
- load bearing capacity
- weather resistance

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2

Regulations for planning

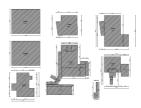
Regulations for planning

LIMITATIONS

Limitations:

- building height
- gross built area
- minimum green surface
- functional limitations zones of utilization
 - •urban (U1-Ui)
 - industrial
 - agricultural



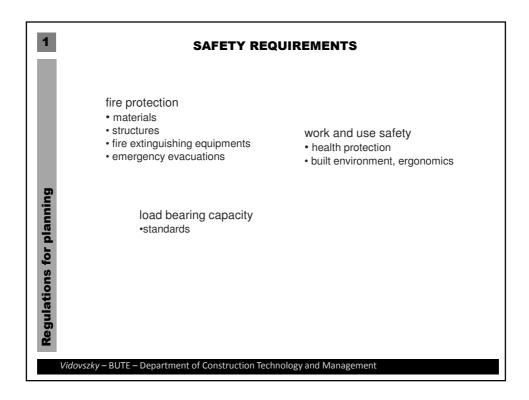


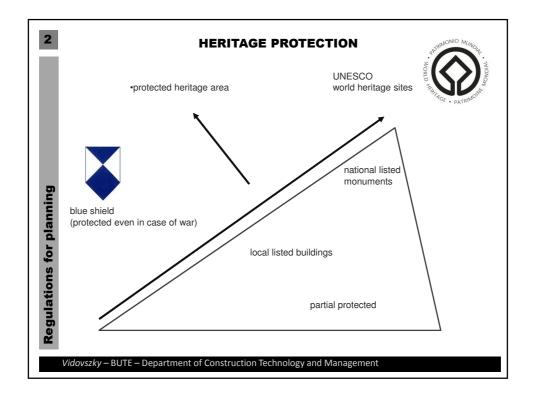
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2 **TECHNICAL REQUIREMENTS** use performances • light (windows, artificial light) • air stairs • room areas • universal design (for disabled people) parking spaces • standards for utilization (special Regulations for planning functions) material quality (performance) • certified product (by the producer / energy consumption supplier) • heat insulation • thermal envelop • building installation system • energy consumption of the building/ of the equipment / of the production of the applied material

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documentation requirements •What kind of documentations are required? In what form? •What kind of consent/ permission are required? •What kind of drawings are required? In what form? process protocol Which authority is responsible for what? What institutes/offices have to be involved? What is the prescribed timing? What are the cost? Who is responsible for the controlling? Who is responsible for the controlling?





2 REGULATIONS FOR ARCHITECTURAL PLANNING IN HUNGARY (EXAMPLES)

acts e.g.:

- 1997 LXXVIII. Act On the build environment
- 2001 LXIV. Act On the protection of the cultural heritage

governmental orders e.g.:

 $\, ^{\circ} 253/1997$ governmental order – On the national requirements of construction and shaping of settlements

ministerial orders e.g.:

- •37/2007 Order of the Ministry for Authorities On the procedures of the local authorities and the content of the architectural documentation
- $\ensuremath{\,^{\circ}}\xspace28/2011$ Order of the Ministry for Home Affairs On the regulation of fire protection

local orders e.g:

Regulations for planning

Regulations for the construction

• 47/1998 Order of the General Assembly of Budapest City – On the frame regulations about the building process and the urban shaping of Budapest

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2 REGULATIONS FOR CONSTRUCTION PROCESS

Technical requirements:

- environmental requirements (waste management)
- use of standards

Safety rules

- fire protection
- work safety
- environment protection

Process

- documentation requirements
- process protocol
- protocol of controlling

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construction management
environmental requirements (lifecycle of the applied materials)
temporary structures (standards, duration)

material quality
use of standards
certifications
performance

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CONSTRUCTION PROCESS documentation requirements • construction logbook • to provide certifications by the producers or the suppliers • statement of completeness • permission of use process protocol • tender contract Regulations for the construction •site arrangement – territories of responsibility cooperation with quality surveyor/client/architect • hand over process control protocol • application of standards • controlling methods quality surveyor • to demand certifications from the producers or the suppliers BUTE – Department of Construction Technology and Management

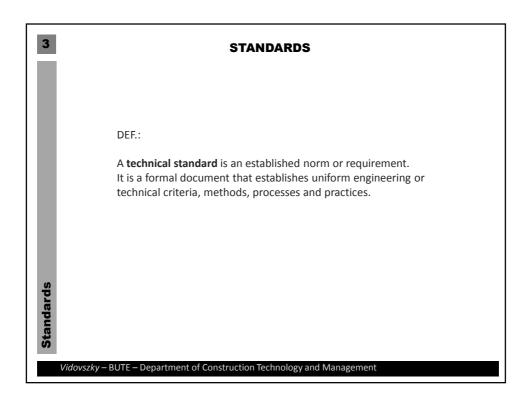
environmental tasks
• treatment of chemicals / waste managament

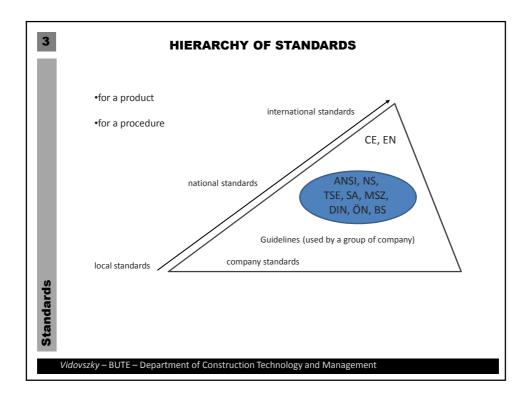
fire protection
• on the site

work safety
• protective equipment - PPE (mechanical/chemical harm/radiation)
• organizational tasks (site management)

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acts: • 1997 LXXVIII. Act – On the build environment • 2001 LXIV. Act – On the protection of the cultural heritage • 2011 CVIII. Act – On the public procurement governmental orders: • 191/2009 governmental order – On the construction process Vidovszky – BUTE – Department of Construction Technology and Management

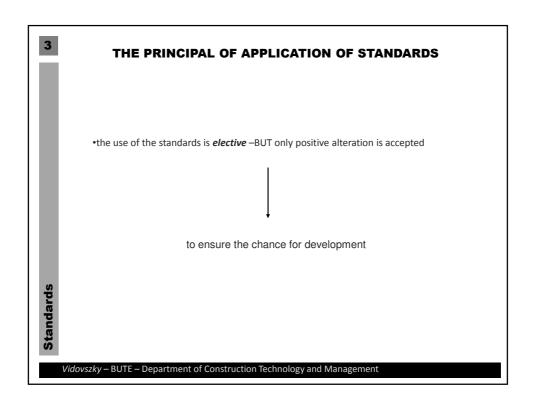




*with name and date -> a specific standard (the latest version) is compulsory

*with name and date -> a specific standard (the cited version) is compulsory

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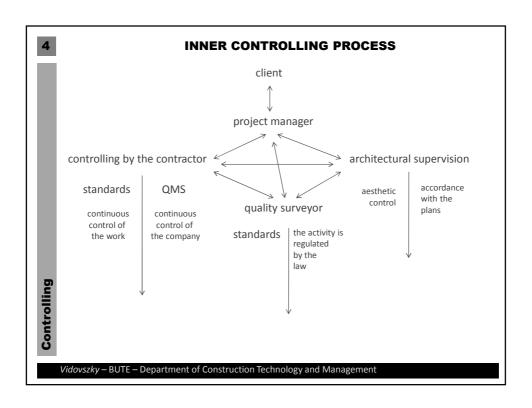


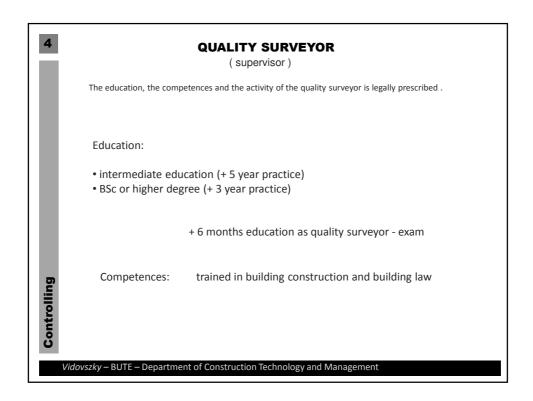






participant	contolling process	contolling aspect	
client	quality surveyor	evéry aspect	
designers	architectural supervision	aesthetical quality/ accordance with the plan	
contractor	daily controlling routine	every aspect	
authority	before construction,after hand over	accordance with the plan	
state	during the construction	every legal aspect	— ON THE OWN







QUALITY SURVEYOR

(duties)

1. ensure professionalism

- •control of the plans in accordance with the standards and the legal prescriptions
- •proposing alteration of the plan for the client, if it is technically or financially reasonable
- •control of the assignment of the building
- •ensure the prosecution of the prescribed tests (e.g. soil mechanics)
- •controlling quality prescribed by the standards

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QUALITY SURVEYOR

(duties)

2. following and controlling the construction work

- •continuous control of the construction logbook
- •note all failures (deficiencies and faults) in the construction logbook
- $\hbox{-}controlling \ hidden \ structures \ and \ volume \ of the \ completed \ work \ before \ getting \ covered \ (e.g. \ reinforcement)$
- •control of the conformance of the applied material (CE, etc.)
- •controlling volume of the completed work
- •informs the client if the completed work is according to the contract (volume, standards, prescriptions, etc.) (Is it suggested for the client to pay all the bills or not?)
- •take part in the hand over process

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