



1. General information about course

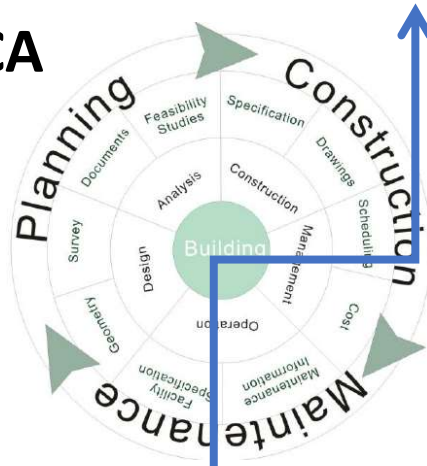
- **Title of the course**
- Sustainability of the building
- **Professor:**
- Merima Šahinagić - Isović (and Amra Šarančić Logo)
- **Institution:**
- UNMO
- **E-mail**
- merima.sahinagic@unmo.ba



2. Description of the course

3. Building assessment → 4. Recording

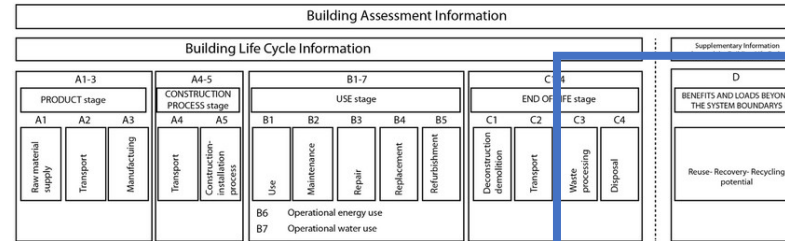
1. LCA



2. Materials

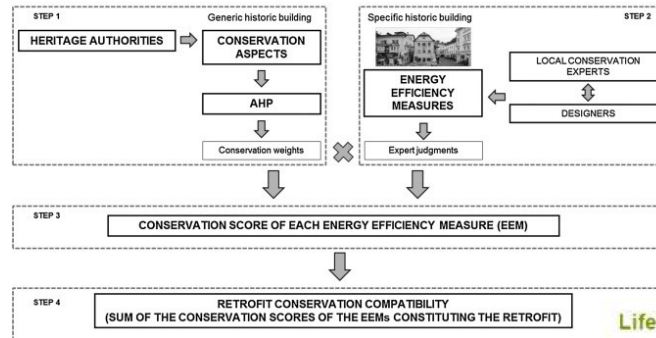
traditional building materials

- Stone
- Brick
- Timber
- Slate
- Lead
- Mud!
- Plaster (gypsum)



5. Retrofit historic buildings

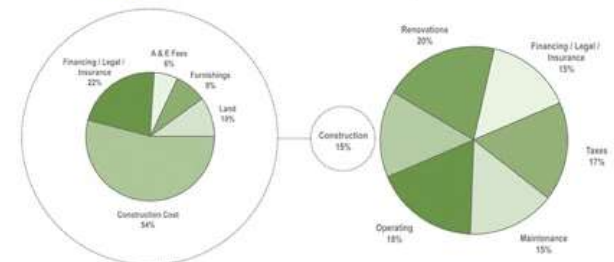
PHASE 2: QUANTIFICATION OF THE RETROFIT CONSERVATION COMPATIBILITY



6. Conclusions

Life Cycle Cost
Analysis

First Costs vs. Life Cycle Costs





3. Target group and prerequisites

Target group/Learners profile

- Students of the II cycle - Faculty of civil engineering and/or architecture
- Architects, civil engineers, conservators.

Prerequisites (required pre-knowledge and experiences)

Understanding of the:

- Building processes and planning of the construction
- Building materials
- Conservation techniques



4. Learning outcomes

The student will be able to:

- understand life cycle of the building in all its phases and processes
- identify and describe crucial points in planning construction and maintenance.
- prepare maintenance plans for new as well as for old (historic) buildings.
- conduct methodological research on the current condition of the building with proposal for future use and needed upgrades,
- apply the concept of sustainability as well as need for sustainable to current civil engineering and economic issues as well as to conservation of historic structures



5. Training and learning methods

- Reading materials (given to students)
- Prepared individual tasks for each student - Individual research (development of learning through practice as well as critical thinking, research and managing data skills) – tasks will be prepared based on student's professional background. Work will be supervised by the professor
- Outcomes of the course: each student will write a project (individual project) (development of learning through argumentation skills) and make posters (and power point presentation)