



LIFETIME ENGINEERING of Buildings and Civil Infrastructures

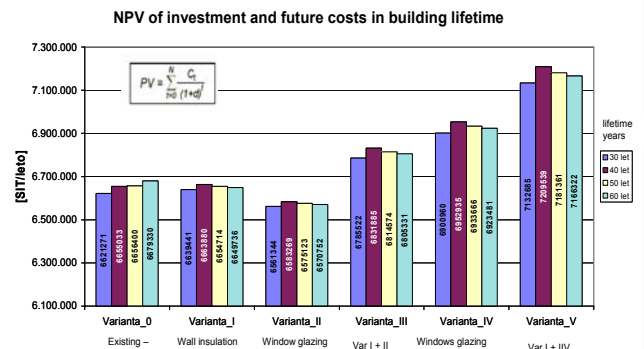
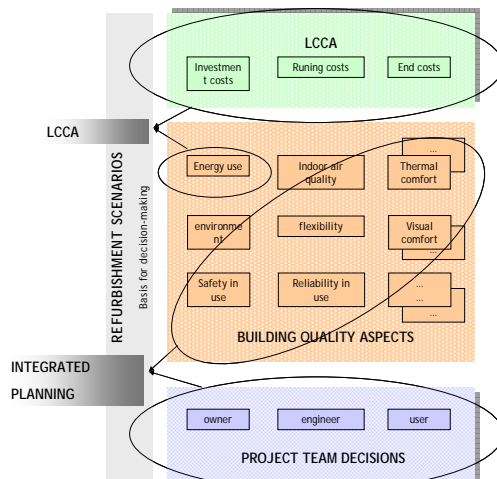
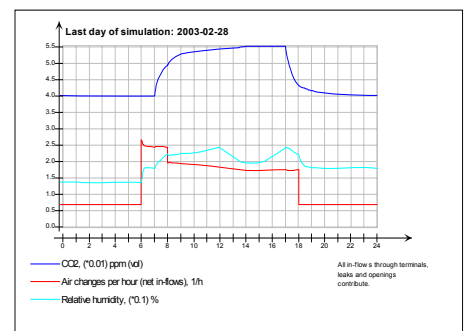
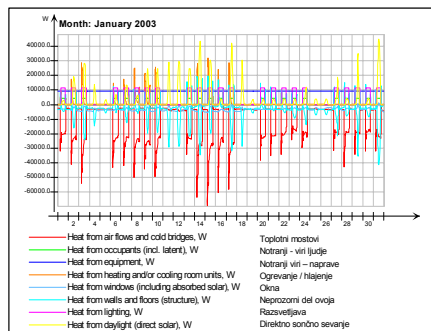
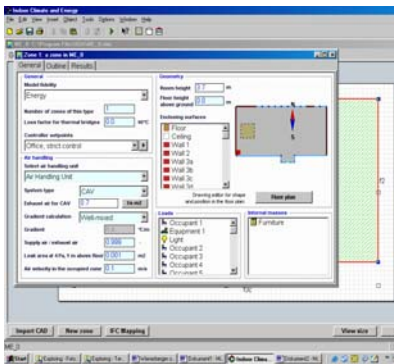
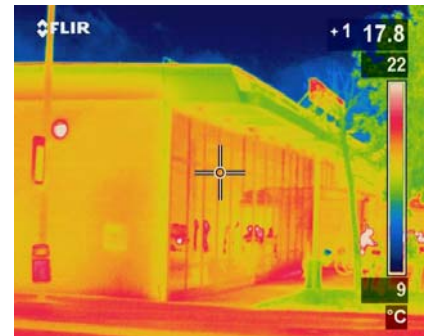


Objectives of NATIONAL DISSEMINATION GROUPS in Thematic Network Lifetime:
National information, demonstration, education and training of lifetime engineering

Demonstration project of lifetime engineering in **SLOVENIA** :

RETAIL TRADE SHOP MERCATOR

IP (Integrated Planning) and LCCA (Life Cycle Cost Assessment) of refurbishment scenarios
Marjana Šijanec Zavrl, Roko Žarnić (BCEI ZRMK, UL FGG)



**Project SAVE
LCC-REFURB**



University of Ljubljana

Mercator owns 1000 retail shop buildings
Scope of refurbishment based on LCC and IP:
Building envelope
HVAC systems
Alimentary retail trade technology

Tools:
IDA ICE (Equa, Swe); LC-Profit (Statsbygg, Nor)

Principal contractors of Thematic Network LIFETIME:

- VTT Technical Research Centre of Finland, FI
Coordinator Prof. Dr. Asko Sarja, asko.sarja@vtt.fi
- Taylor Woodrow Construction Ltd, UK
- CSTB Centre Scientifique et Technique du Bâtiment, FR
- Imperial College of Science, Technology and Medicine, UK
- Universität Karlsruhe (TH), TMB/Facility Management, DE



Thematic Network LIFETIME in figures:

- Working period: 1/6/2002 - 31/5/2005
- Participation: 96 partners from 28 countries
- Plenary workshops: 2002 Norway, 2003 Finland and 2005 France
- 25 National Dissemination Groups
- Funding from 5th Framework Programme:
Competitive And Sustainable Growth (GROWTH) Programme