New IEA EBC Annex

Building energy performance assessment based on optimized in-situ measurements

Development of a Network of Excellence

Luk Vandaele, BBRI Belgium – Maria Jose Jimenez, CIEMAT Spain

HISTORY

1985 PASSYS I — *Belgium, Denmark, France, Germany, Italy, Netherlands, UK, JRC*

1990 PASSYS II — *Greece, Portugal, Spain*

1992 COMPASS PASLINK

1994 European Economic Interest Grouping of Outdoor Test Centres — *Finland*

1996 PV-HYBRID-PAS

2000 IQ-TEST — *Switzerland,...*

2002 DAME-BC — *New member states*
New sites in Spain, France, ...

2005 DYNASTEE

2011 Annex 58

PASLINK EEIG → INIVE

DYNASTEE

FULL MEMBERS:

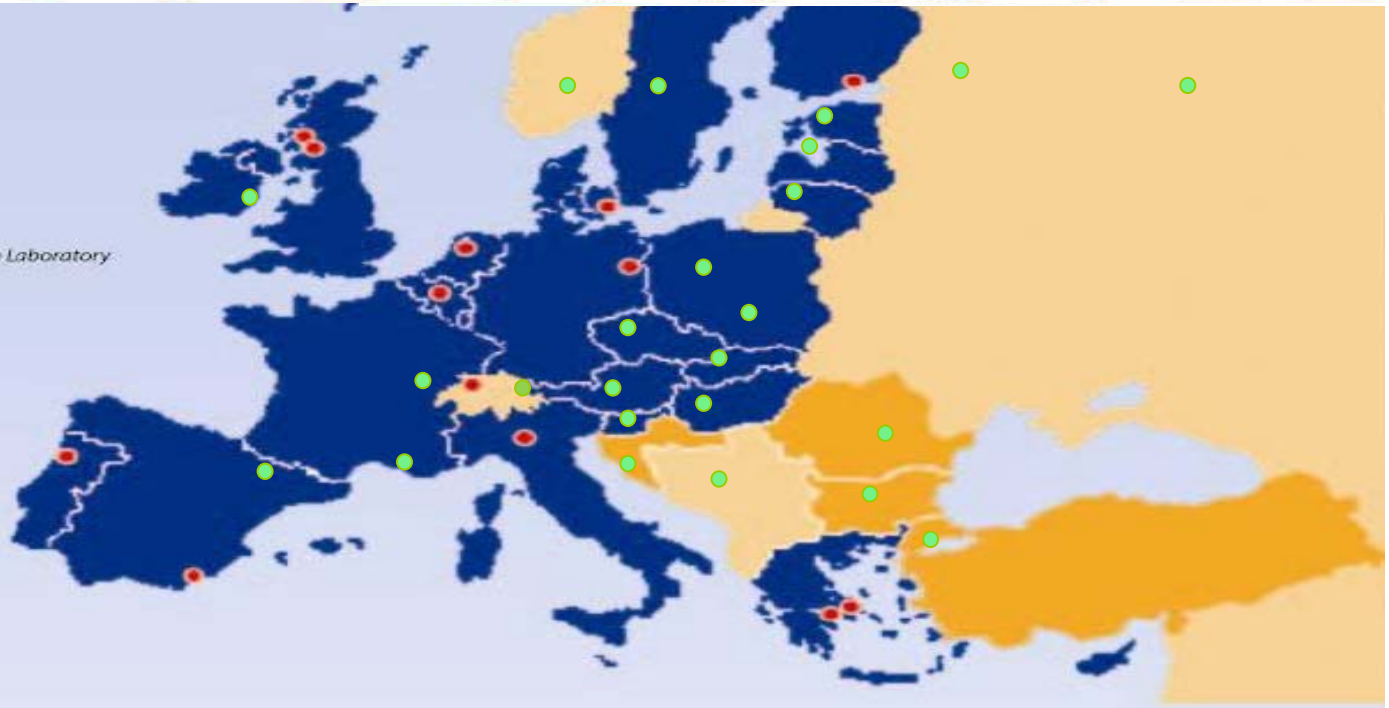
BBRI
Belgian Building Research Institute
Sint-Stevens-Woluwe, BELGIUM

BRE, Scotland
Building Research Establishment Scottish Laboratory
East Kilbride, SCOTLAND, UK

CRES
Centre for Renewable Energy Sources
Pikermi, GREECE

CIEMAT
Plataforma Solar de Almeria (PSA)
Almeria, SPAIN

VTT
VTT Building & Transport
Espoo, FINLAND



EXTERNAL MEMBERS/ASSOCIATED:

BTU
Brandenburg Technical University of Cottbus
Cottbus, GERMANY

TNO
TNO Building & Construction Research
Delft, The NETHERLANDS

ESRU
University of Strathclyde
Glasgow, SCOTLAND, UK

EC-JRC
European Commission –
Joint Research Centre
Ispra, ITALY

DTU-BMM
Technical University of Denmark
Lyngby, DENMARK

EMPA
Swiss Federal Laboratories for
Materials Testing and Research
Zurich, SWITZERLAND

FGT
University of Porto
Porto, PORTUGAL

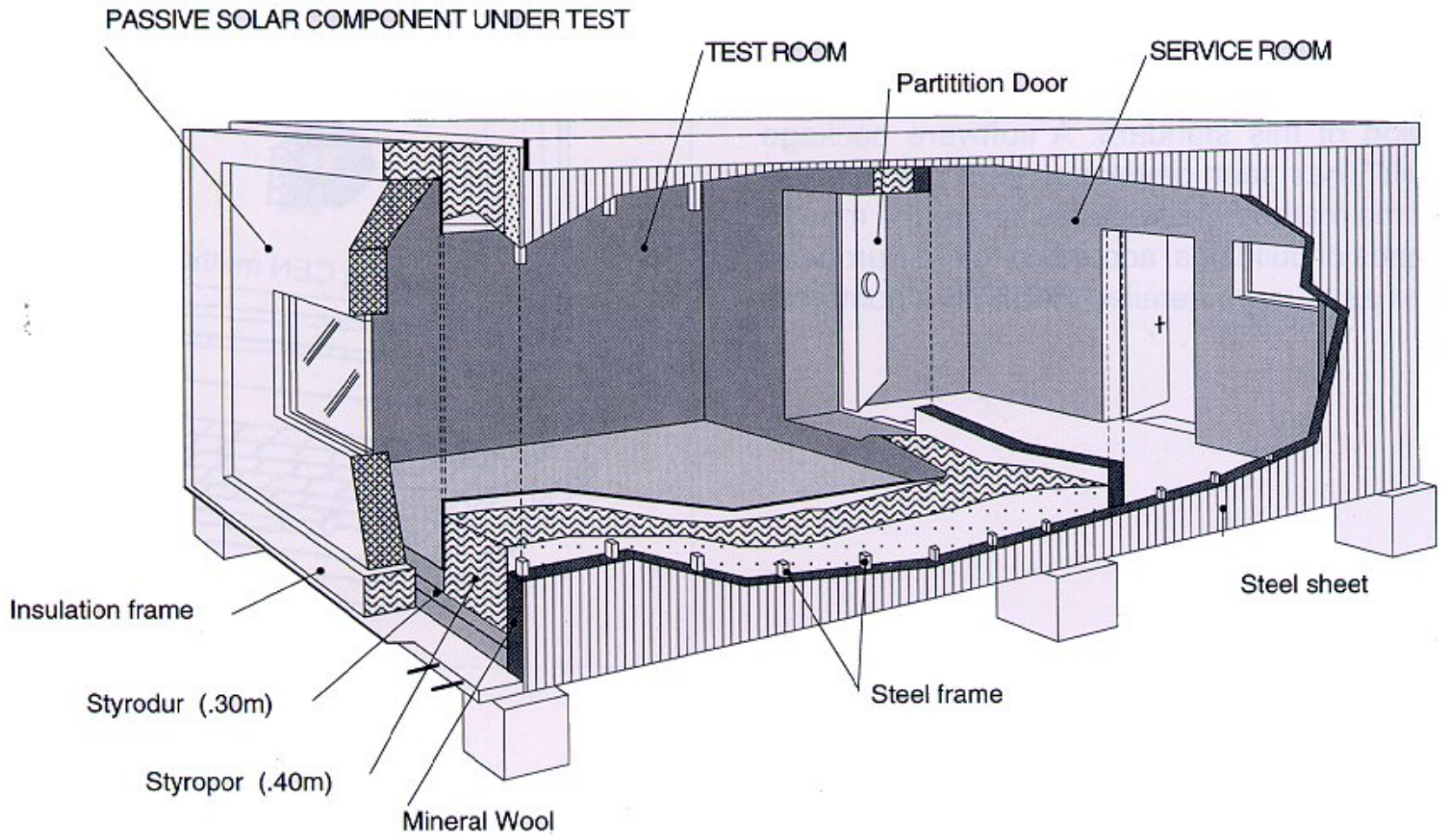
CANDIDATE MEMBERS:

NKUA
University of Athens
Athens, GREECE

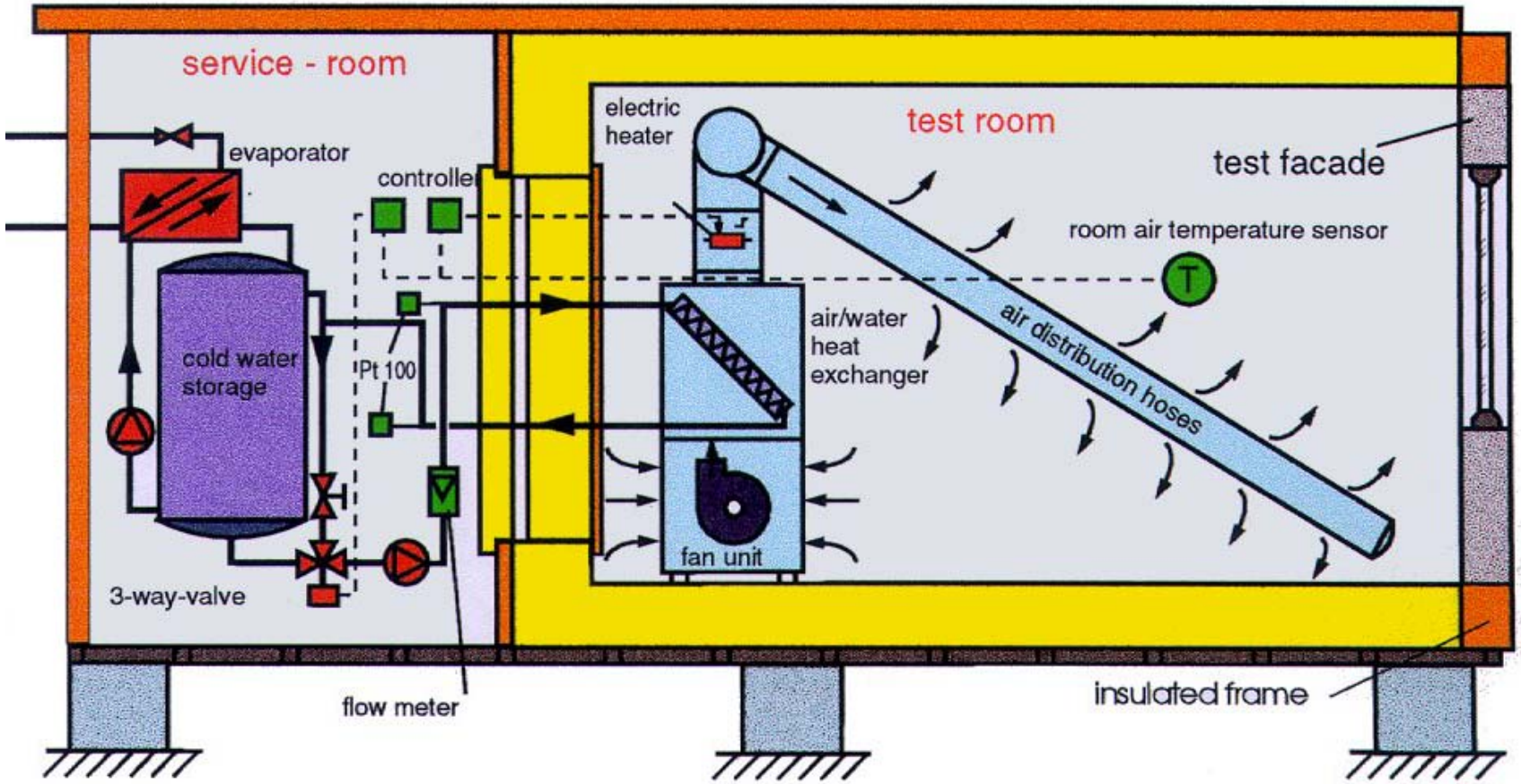
International Network for Information on
Ventilation and Energy Performance

INIVE

The original PASSYS test cell



Indoor climate control…



Different test components

Testing roof components…

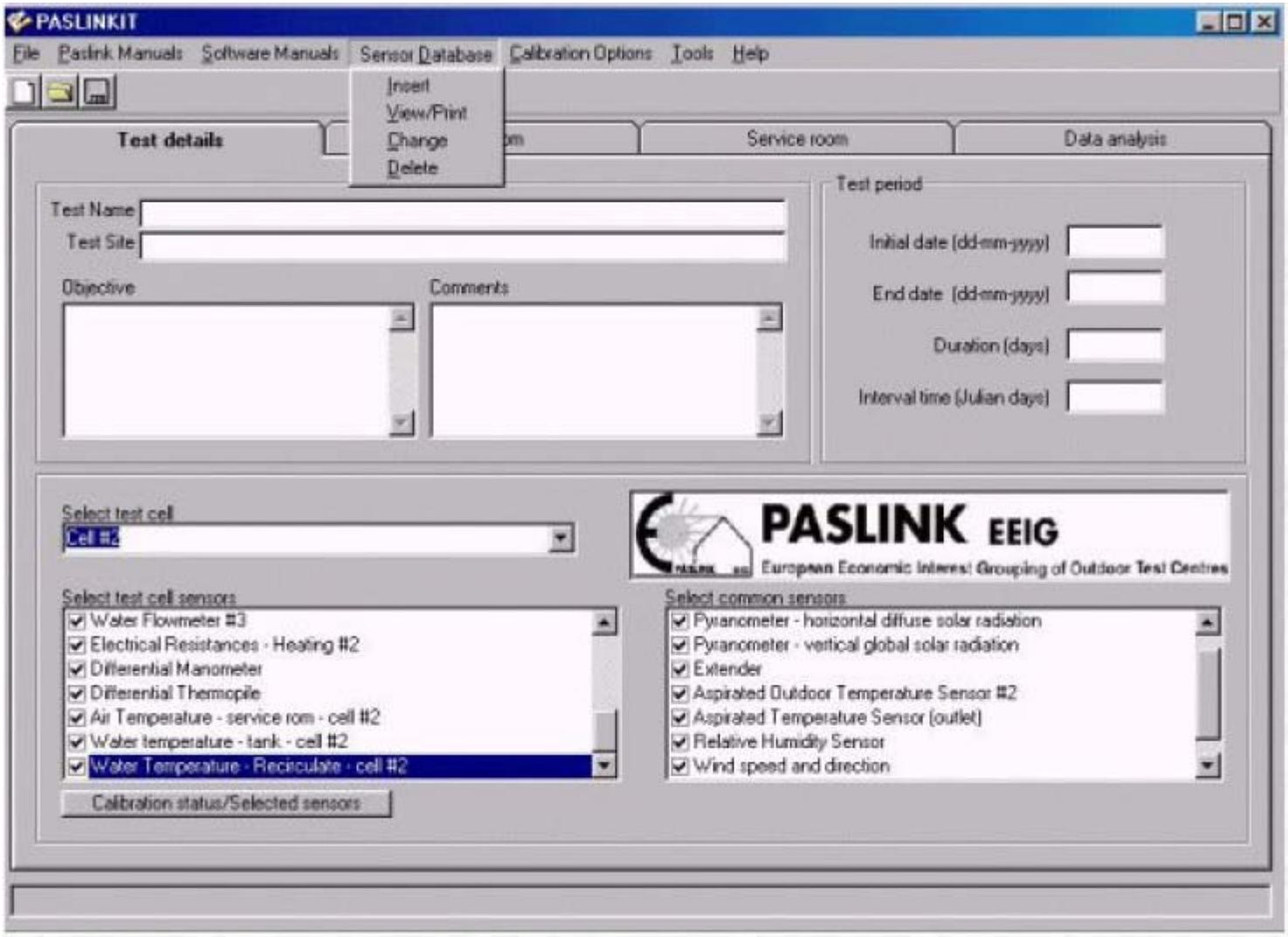
The upgraded PASLINK Test Cell


Hybrid PV wall, ventilated
(VTT site Espoo, Finland)

EBC New Annex

INIVE DYNASTEE

IQ-TEST Quality control



Data analysis

PASSYS I

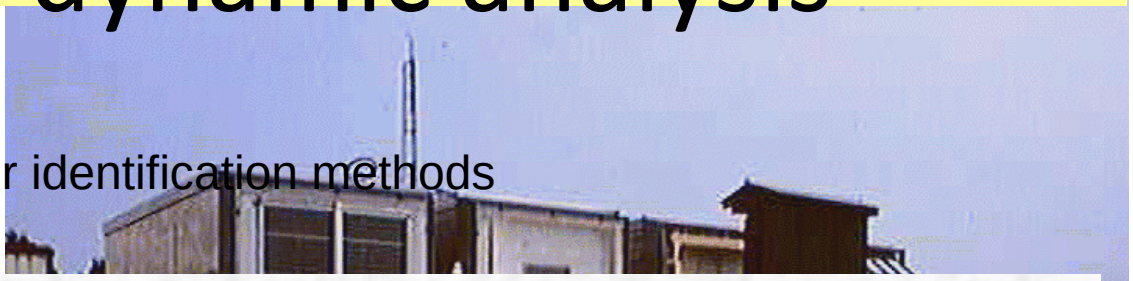
PASSYS II

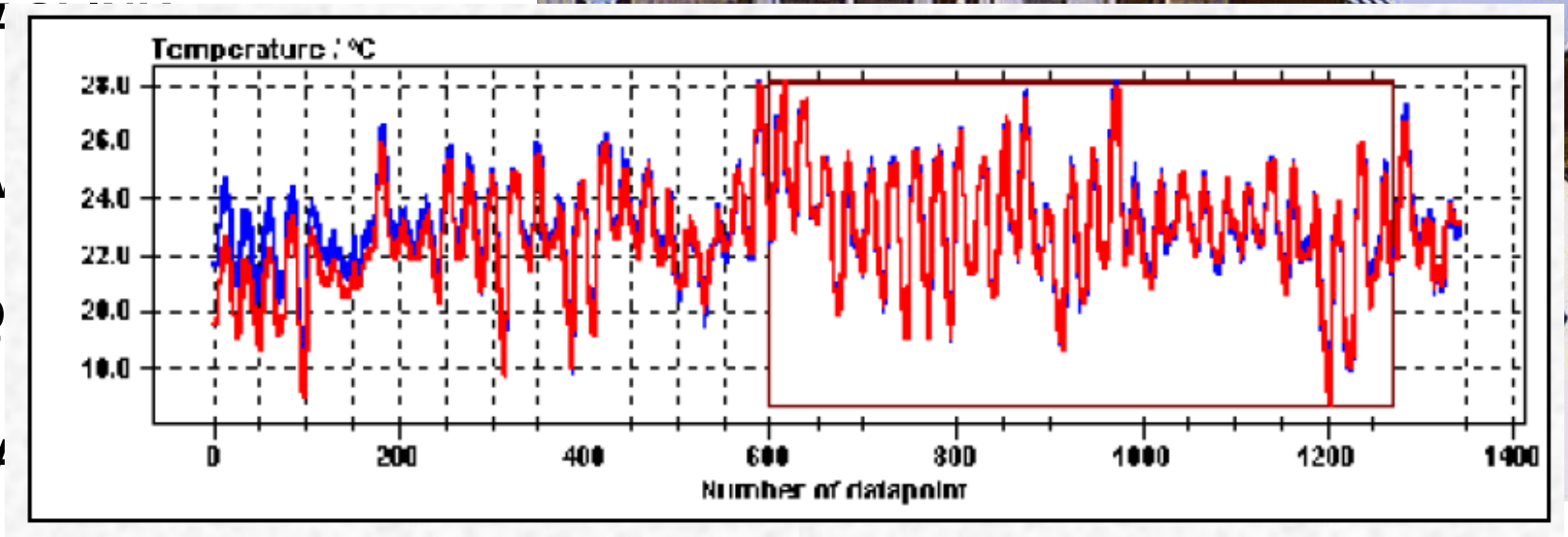
COMPASS

Based on parameter identification methods

From
- **steady-state analysis**
- **pseudo steady-state analysis**
- **no attention for uncertainty & confidence intervals**

….to dynamic analysis





Network for

- DYNamic
- Analysis
- Simulation and
- Testing of
- Energy and
- Environmental performance of buildings

DYNASTEE

- Informal network
- No admission fee
- Functions under the umbrella of INIVE EEIG
- Platform for exchange of information, dissemination, training and expertise
- For researchers, industry, product developers, designers, …
- **Towards a Network of Excellence**

COMMUNICATION

Dissemination by means of

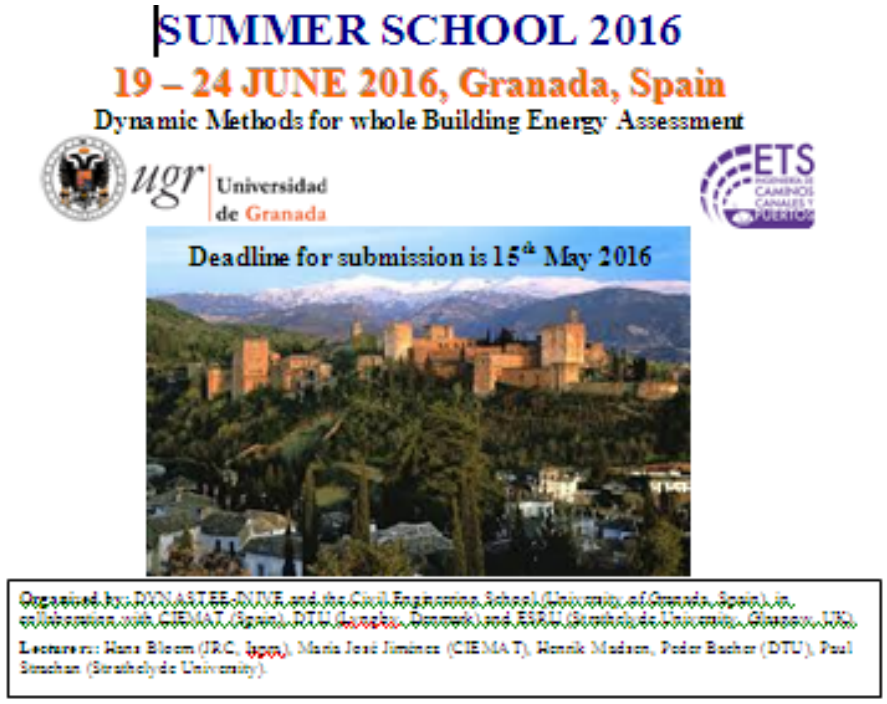
- DYNASTEE.info Web-site
- Newsletters
  - 6 published so far
  - #6 on final results of Annex 58
- Events
  - Webinar
  - Workshops
  - Summer Schools

For the 5th time

DYNASTEE organises a Summer School dedicated to

Dynamic Methods for

Building Performance Assessment



A Network of Excellence

- The expertise developed in the Annex 58 project remains available to the community of builders, designers, industrial developers, scientists and public authorities.

- The DYNASTEE platform will continue to act as the facilitator for information exchange in the new annex

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COST proposal

- To reinforce the Network of Excellence
- Funding for a structured approach
- See Maria Jose Jiménez, Energy Efficiency in Buildings R&D Unit, CIEMAT, Spain, coordinator of the CST action proposal

For more information

and to join the proposal

send an e-mail to:

mjose.jimenez@psa.es