

New PASLINK Project (Accompanying Measure)

IQ-TEST

Improving
Quality in
Test and
Evaluation
procedures of
Solar and
Thermal
performances of
building components

Thematic Network
Co-ordinated by
PASLINK EEIG

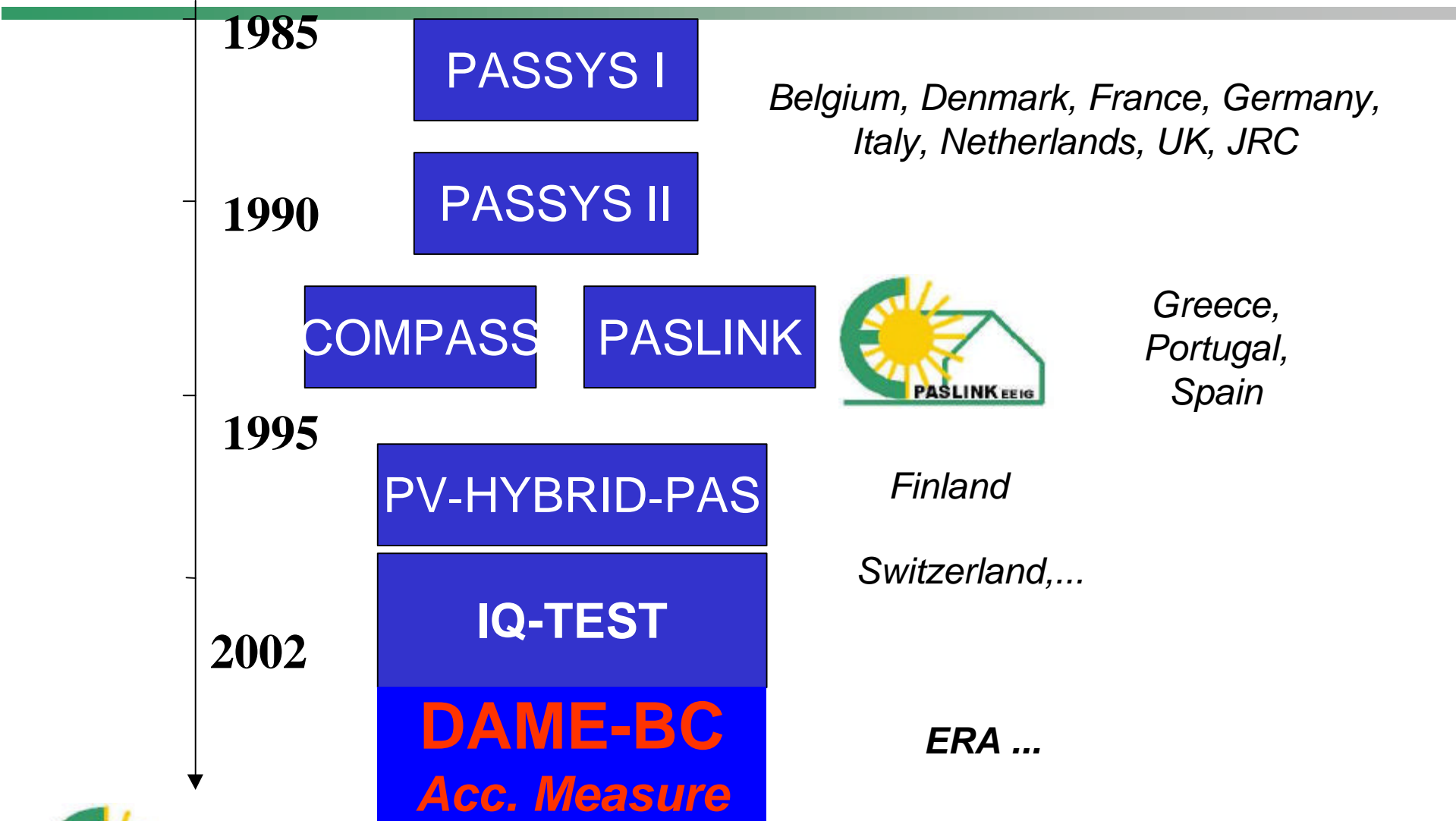
DAME-BC

Dynamic **A**nalysis and
Modelling techniques applied to
Energy Performance Assessment
and Prediction of **B**uildings and
Components,
including Renewables



**European Economic Interest Grouping
of Outdoor Test Centres**

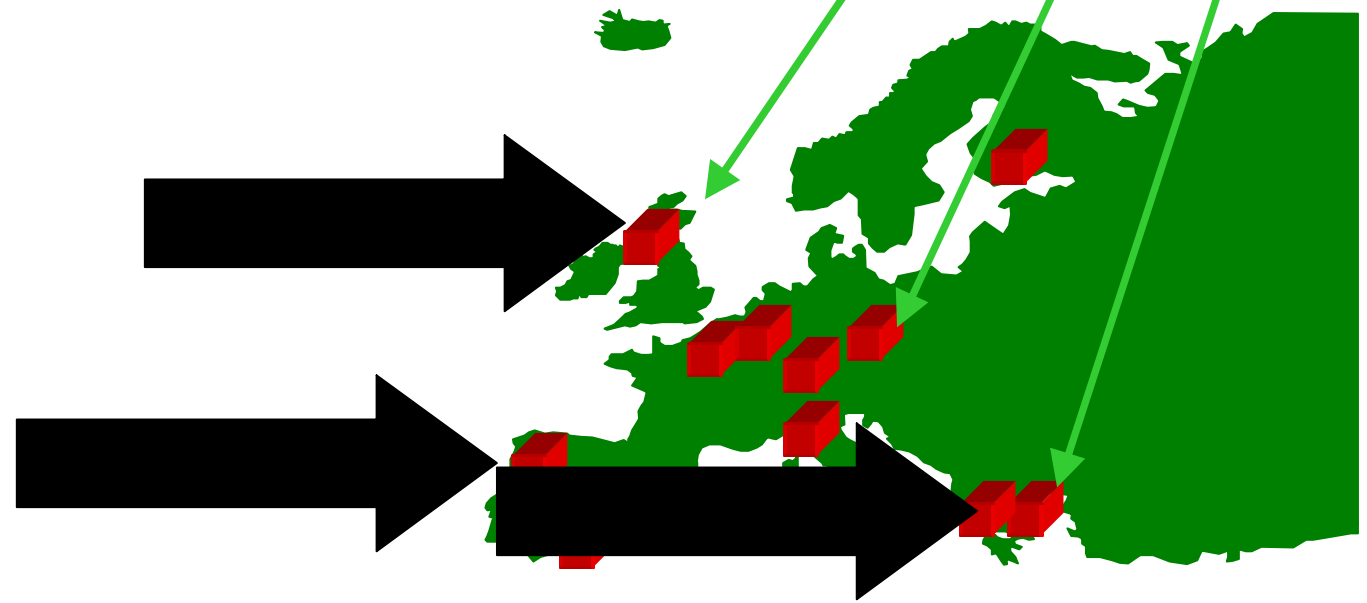
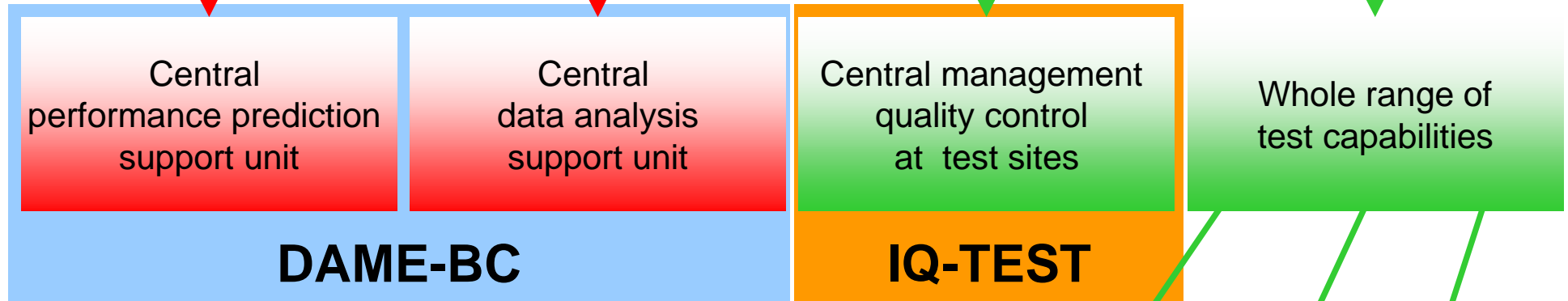
HISTORY



European Economic Interest Grouping
of Outdoor Test Centres

DAME-BC
Accompanying Measure

PASLINK EEIG



PASLINK EEIG

Central performance prediction support unit

Central data analysis support unit

Central management quality control at test sites

Whole range of test capabilities

DAME-BC

Workshop

Website



Make available for all persons/organisations involved in performance assessment

BACKGROUND

- Specific dynamic analysis and modelling techniques require a high level of skill
- Field testing of building components:
 - *simple wall components*
 - *complex PV integrated roof and façade systems*
- Training and guidance tools are required
- Dynamic analysis and modelling techniques are able to deal with non-linear processes



OBJECTIVES

- *Bridge the gap between different expertise*
 - construction industry and design for the built environment
 - mathematical and statistical analysis and modelling expertise
- *Provide the necessary know-how*
- *Initiate collaboration with candidate Member States*
- *Creation of a network on this specific topic*



CONSORTIUM

■ PASLINK (BBRI, BRE, CRES, CIEMAT, VTT)

- *BBRI* *Coordinator*
- *DTU-IMM* *Task leader*
- *ESRU* *Task leader*
- *BTU Cottbus* *Task leader*
- *TNO-Bouw* *Task leader*
- *JRC - IES - RE* *Task leader*



ORGANISATION: Work Packages

- Co-ordination: organisation and linking with existing networks
- Dissemination: Workshop, Newsletter and Web-site
- LORD-PEM: Extension of LORD with the Prediction Error Method
- Guidance Tool: Error and performance analysis
- DASU: data analysis support structure, case study
- PPSU: performance prediction support structure and case study



WP 1 Coordination

- Organisation of the four planned meetings
- Invitations of experts to the workshop
- Contacts with other networks and international organisations
- Preparation of the future network
- Intermediate with Commission



WP 2 Dissemination

■ Event Dissemination

- *Organisation of a 2-day workshop*
- *Newsletter*
- *Brochure*

■ Continuous dissemination

- *Website - www.paslink.org*



WP 3 LORD - PEM

- A user friendly graphical software tool developed by the PASLINK Grouping will be extended with the prediction error method (PEM) to make it more powerful and available to the public
 - *Instructions and*
 - *Data for self training*



WP 4 Guidance tool

- Preliminary estimation of the expected accuracy of an assessment test of the thermal and solar transmittance of a building element
 - *specific features of the element*
 - *the testing infrastructure and*
 - *the test conditions*
- Development of a software guidance tool
- In early phase of the project:
 - *Applied on test at JRC on PV component (used for case study)*



WP 5 Data Analysis Support Unit

- Design of a case study for analysis of experimental data
 - *Physical parameters will be estimated from mathematical parameters*
- Development of procedures for operating the DASU service
- A training centre will be established at the DTU
 - *Guidance*
 - *Quality assurance*



WP 6 Performance Prediction Support Unit (PPSU)

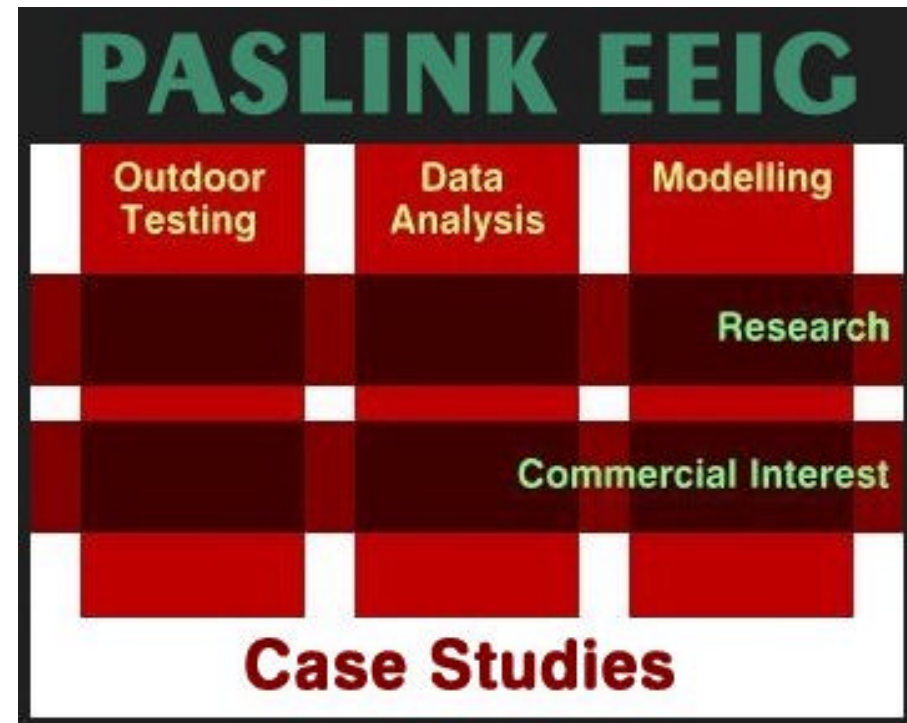
- Demonstration; design a case study
- Prediction of energy performance of buildings and building components: procedures for scaling and replication
- Development of procedures for operating the PPSU service: what can it offer?
- Identify 3-5 building types



WEBSITE

- WWW.PASLINK.ORG

- *by Spider Communication*



European Economic Interest Grouping
of Outdoor Test Centres

DAME-BC
Accompanying Measure

WINDAT

IEA annexes

Networking

PASLINK EEIG
IQ-TEST & DAME-BC

e.g. US

**EUREC,
etc.**

CEN TC 89

