



The proposed activity aims to meet the following objectives:

- Support dialogue between the competent authorities implementing the EPBD and the BUILD Up Skills Consortia
- Encourage discussions about mismatches (if any) in legislative implementation and skills development
- 3. Ensure that EPBD recast implementing measures and their timing are accounted for in BUILD UP Skills
 - → status-quo and roadmaps
- Collect interesting examples of BUILD UP Skills roadmap measures which facilitate EPBD implementation
- 5. Share interesting examples of EPBD recast implementation linked to qualification measures for the on-site workforce
- Evaluate if, and how, the buildings related aspects of the Energy Efficiency Directive have implications for skills development of the on-site workforce

EPBD Article 8.1 Technical building installations

Member States shall, for the purpose of optimising the energy use of technical building systems, **set system requirements** in respect of

- the overall energy performance,
- the proper installation,
- the appropriate dimensioning, adjustment and control of the technical building systems

which are installed in existing buildings.

Member States may also apply these system requirements to **new buildings**.

EPBD Article 27 Penalties

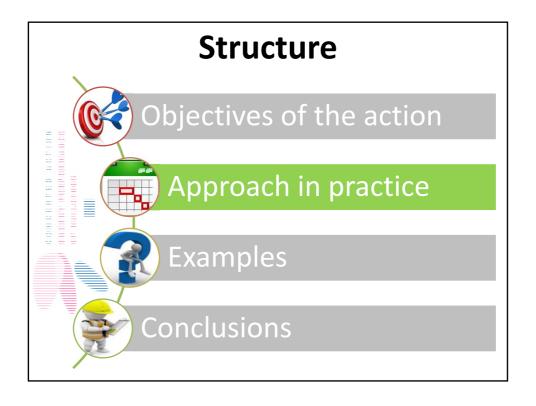
- Member States shall lay down the rules on penalties applicable to infringements of the national provisions (...).
- The <u>penalties</u> provided for must be <u>effective</u>, <u>proportionate</u> and <u>dissuasive</u>.

EED article 4

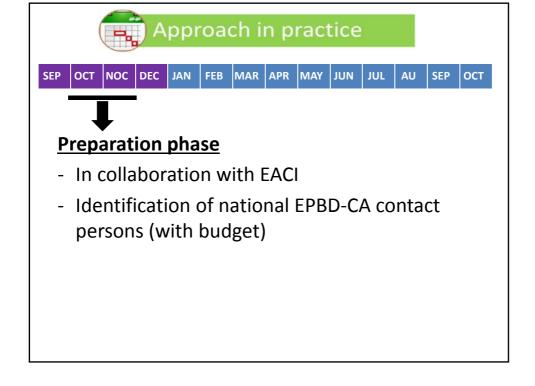
Member States shall establish a long-term strategy for mobilizing investment in the renovation of the national stock of residential and commercial buildings, both public and private.

This strategy shall encompass:

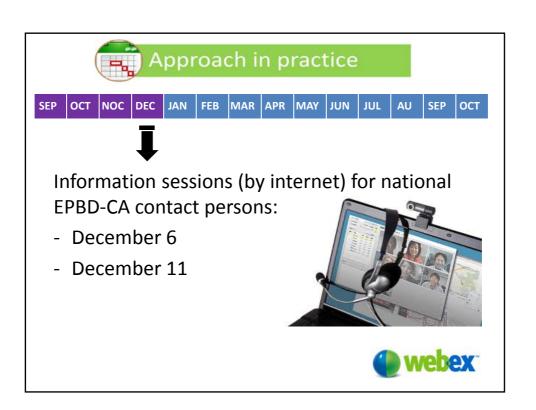
- An overview of the national building stock based, as appropriate, on statistical sampling;
- an identification of cost effective approaches to renovations relevant to the building type and climatic zone;
- policies and measures to stimulate cost-effective deep renovations of buildings, including staged deep renovations;
- a forward looking perspective to guide investment decisions of individuals, the construction industry and financial institutions;

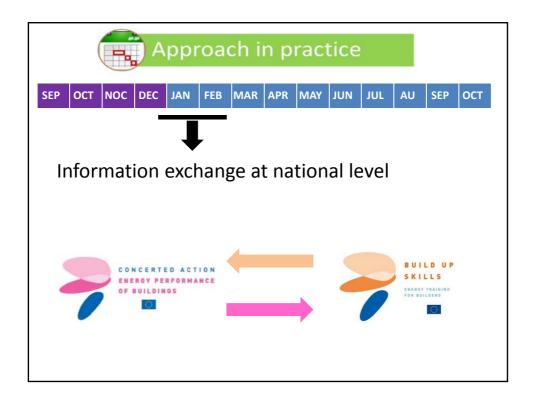












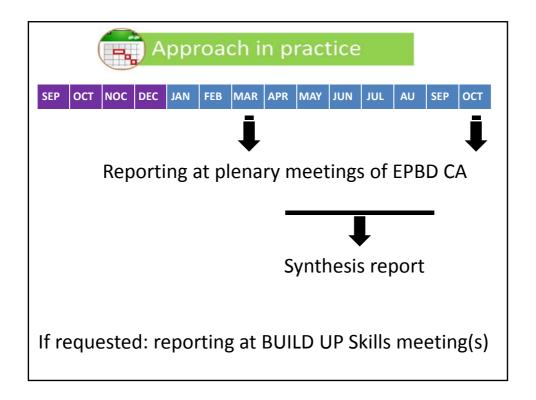
Information exchange at national level

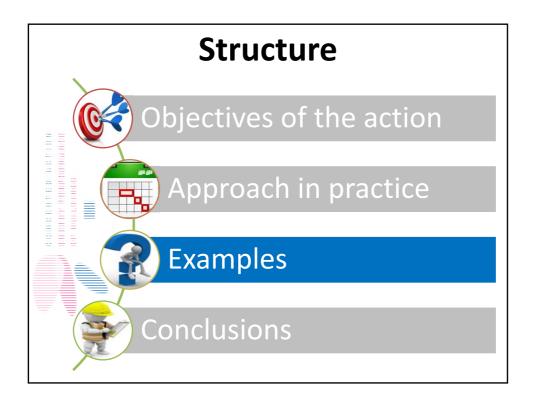
Belgian approach?

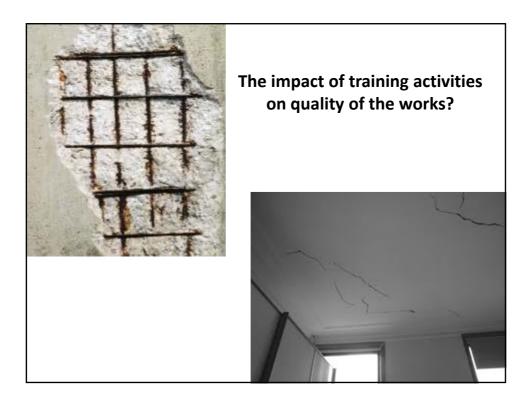
We will organise a meeting in January between all Belgian participants from:

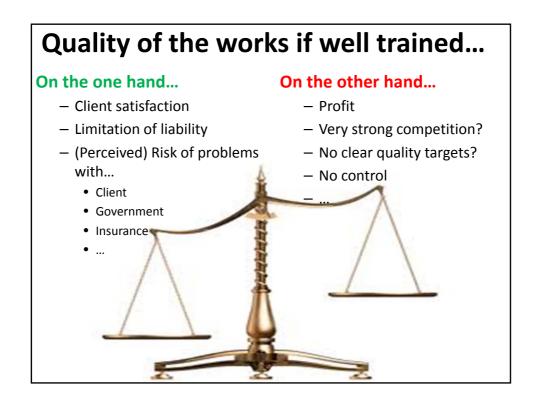
- RES Concerted Action
- EPBD Concerted Action
- BUILD UP Skills

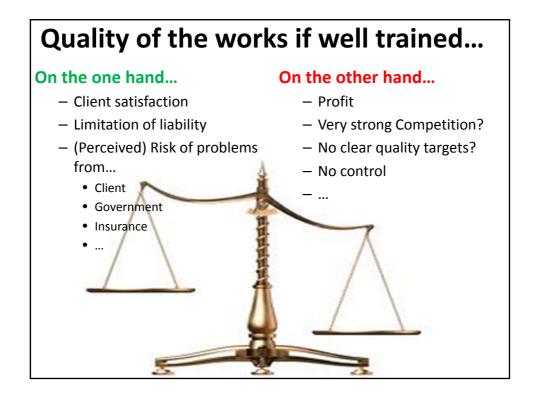


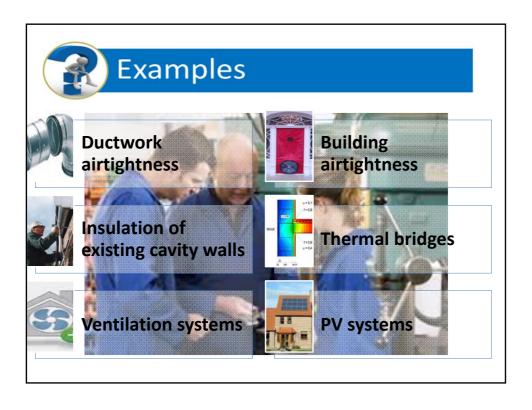


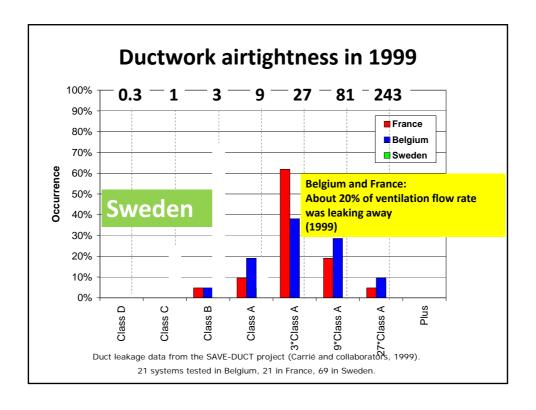




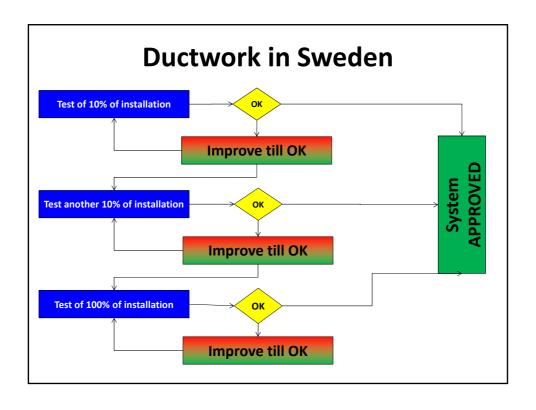




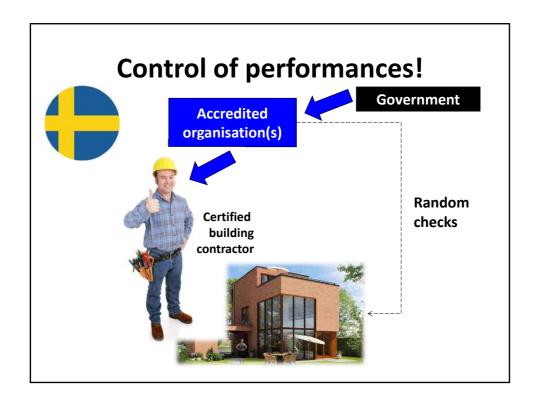






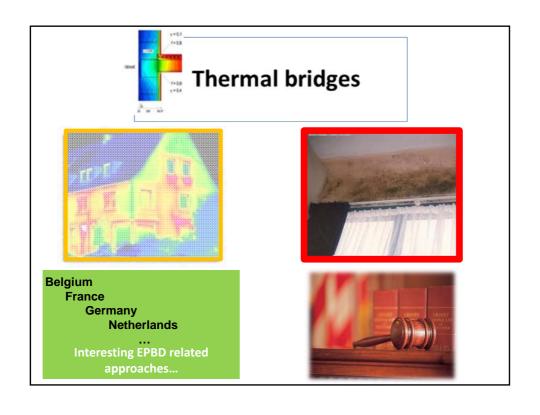




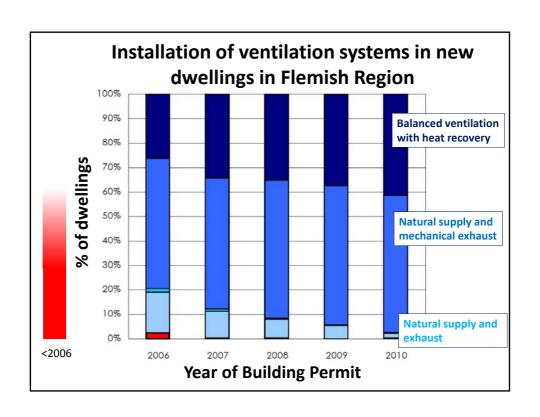














Sweden: Building law requiring ventilation control

- 1991: compulsory system for ventilation control (OVK)
 - Aim: control and improve function of ventilation installations
 - Ventilation in most types of buildings has to be controlled
 - before the installations are taken in to operation and
 - then regularly at recurrent inspections.
- According Swedish environmental legislation:

In 2020 all buildings shall be healthy & good indoor environment

- One of intermediate goals :
 - "all buildings where people stay often or during a longer time shall 2015 at the latest have been proven to have a functioning ventilation system".

AIVC Brussels 2012 - Johnny Andersson (Ramboll)



PV systems

Heavy storms in Belgium January 2012

- 3 January:
 - Middelkerke, 104 km/h Uccle (94 km/h) Deurne (90 km/h).
- 5 January:
 - Gembloux 122 km/h Wavre 108 km/h Koksijde101 km/h.

9 Beauforts - Return rate of 3 years



PV systems

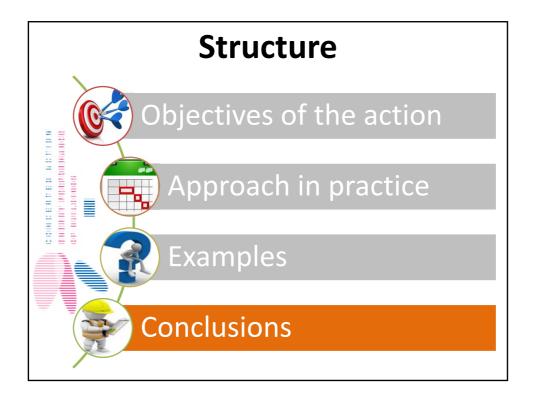
Results for 1 insurance company

- 5% of installations with insurance were damaged
- 700.000 € of damage
- More than 100 installers were involved

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Conclusions

- Good quality of the works is essential but not an evidence!
- This activity aims to optimise interaction between BUILD UP Skills related activities and the EPBD Concerted Action