



Field Benchmarking and Market Development for Audit Methods in Air Conditioning

www.energyagency.at/projekte/auditac.htm



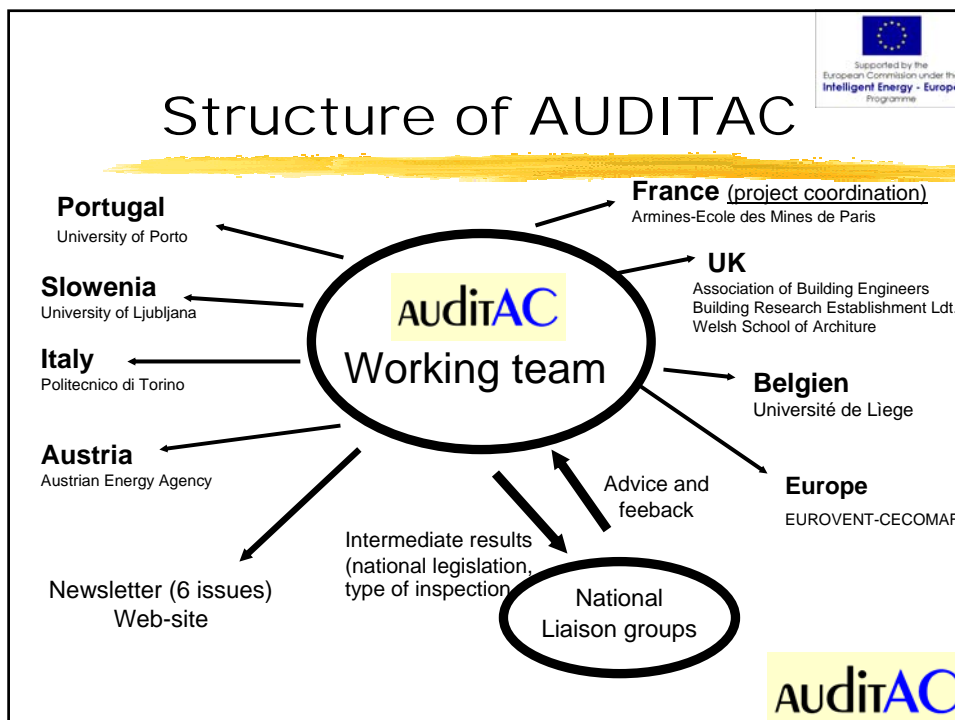
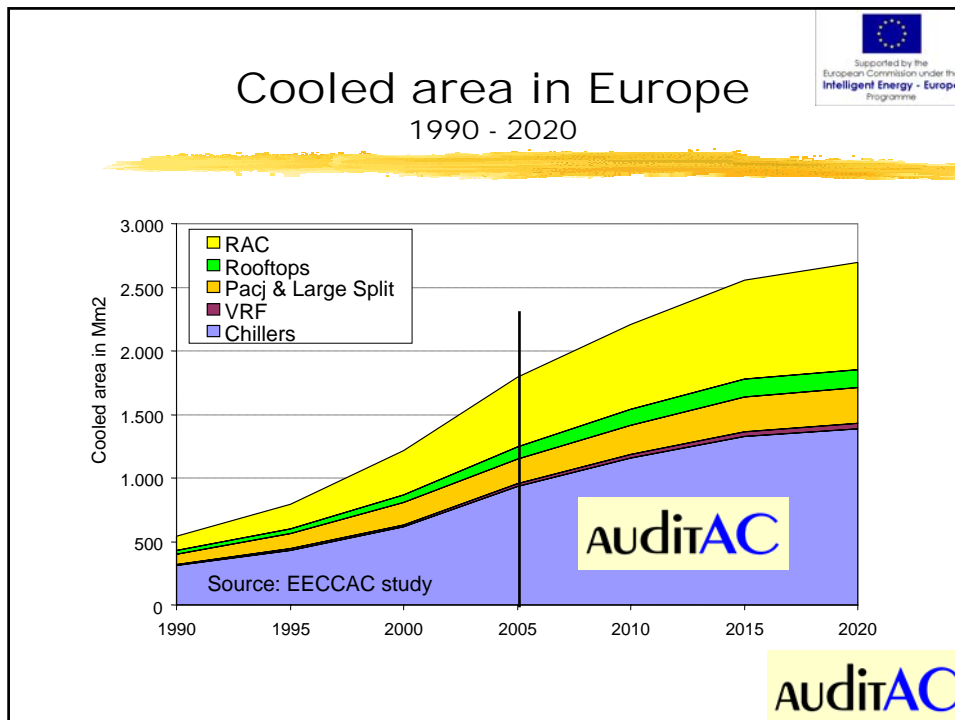
We have seen the baby boom of
A/C and now the ageing problems



- ⌘ Before 2010, early systems will need renovation for the first time (after 10-15 years of operation) and an opportunity exists to introduce higher efficiency systems.
- ⌘ Out of the 2,000 Mm² of air conditioned building area in use in Europe in 2010, 800 Mm² will be more than 15 years and need renewal.
- ⌘ Their average consumption should decrease from 60 kWh/m² through the use of cost-effective technologies down to 30 kWh/m² (from EECCAC study).

☑ 50 % energy saving





AUDITAC does not define EPBD inspection of AC



- ⌘ MS are in charge of implementation of Article 9, EPBD (inspection of AC)
- ⌘ Further efforts are needed “around” or “after” national implementation: How to raise the acceptance of inspections, how to move from inspection to audit, from audit to implementation of improvements, etc..
- ⌘ **auditAC** provides information which makes inspection and audit profitable

auditAC

Inspection : a pre-audit subject to national regulation



- ⌘ Limited time spent by the inspector,
- ⌘ Closed frame of reference (precise list of defects or required improvements),
- ⌘ Reproducibility (the observations does not depend on the quality of the expert),
- ⌘ Obligatory and periodic (marking, dates...).
- ⌘ If measurements are done, they should be mainly non invasive.
- ⌘ There is a CEN draft, not compulsory for MS

auditAC

FOUR MAIN OBJECTIVES

1. To disseminate the measures taken at EU level and **to increase the motivation of the actors** to take advantage of the opportunities created.
2. To accelerate the adoption of **best practice of audit** by generating **success stories**
3. To increase the percentage of inspections (“pre-audit” or walk through audit) followed by **investment grade audits** in AC.
4. To provide tools for an increased acceptability of **audit in real life**, eg. checklists, success stories of audits, PR, ...

auditAC

Deliverables

1. A teaching package on AC inspection, audit and renovation
2. A set of decision trees, leading to each of the systems with corresponding problems of operation
3. Oral and written publications
4. Information on the existing structures for training and reporting in Europe
5. Information on structure of the implementation of article 9 in individual MS
6. A database of case studies and best practice
7. Tool to provide advice following inspections
8. Website
9. Newsletter,
10. Etc....

auditAC