



European Committee for Standardization
Comité Européen de Normalisation
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The need for a second mandate for CEN standards in support of the recast EPBD and update of the current set of EPBD standards.

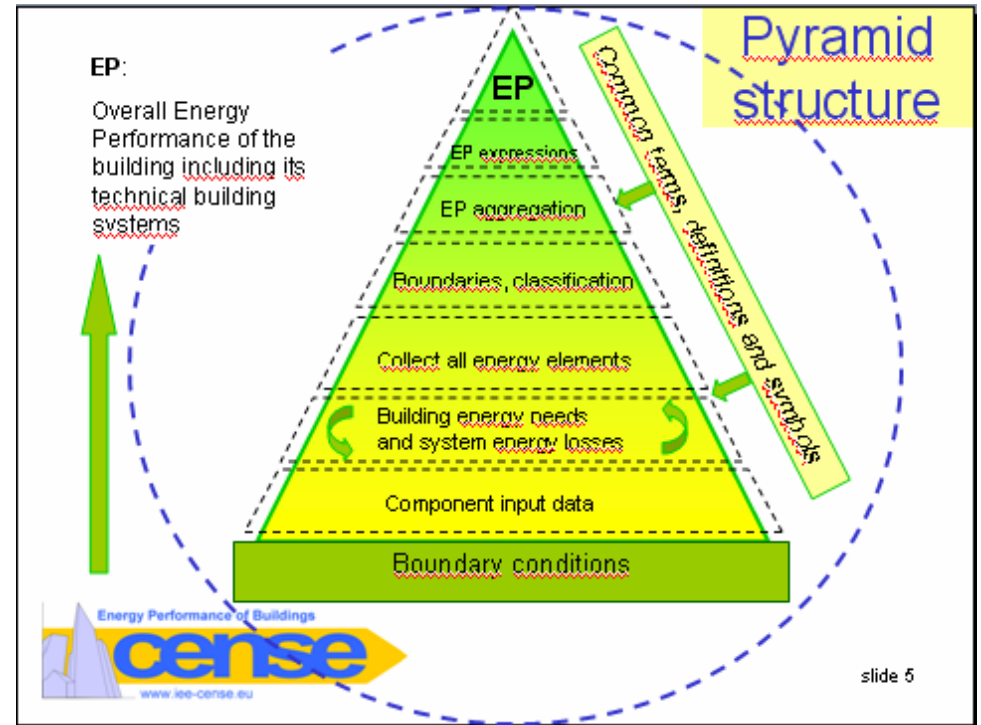
Workplan & Procedures for the development of the 2nd generation CEN-EPBD standards

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Result of the first mandate (2003/2004)

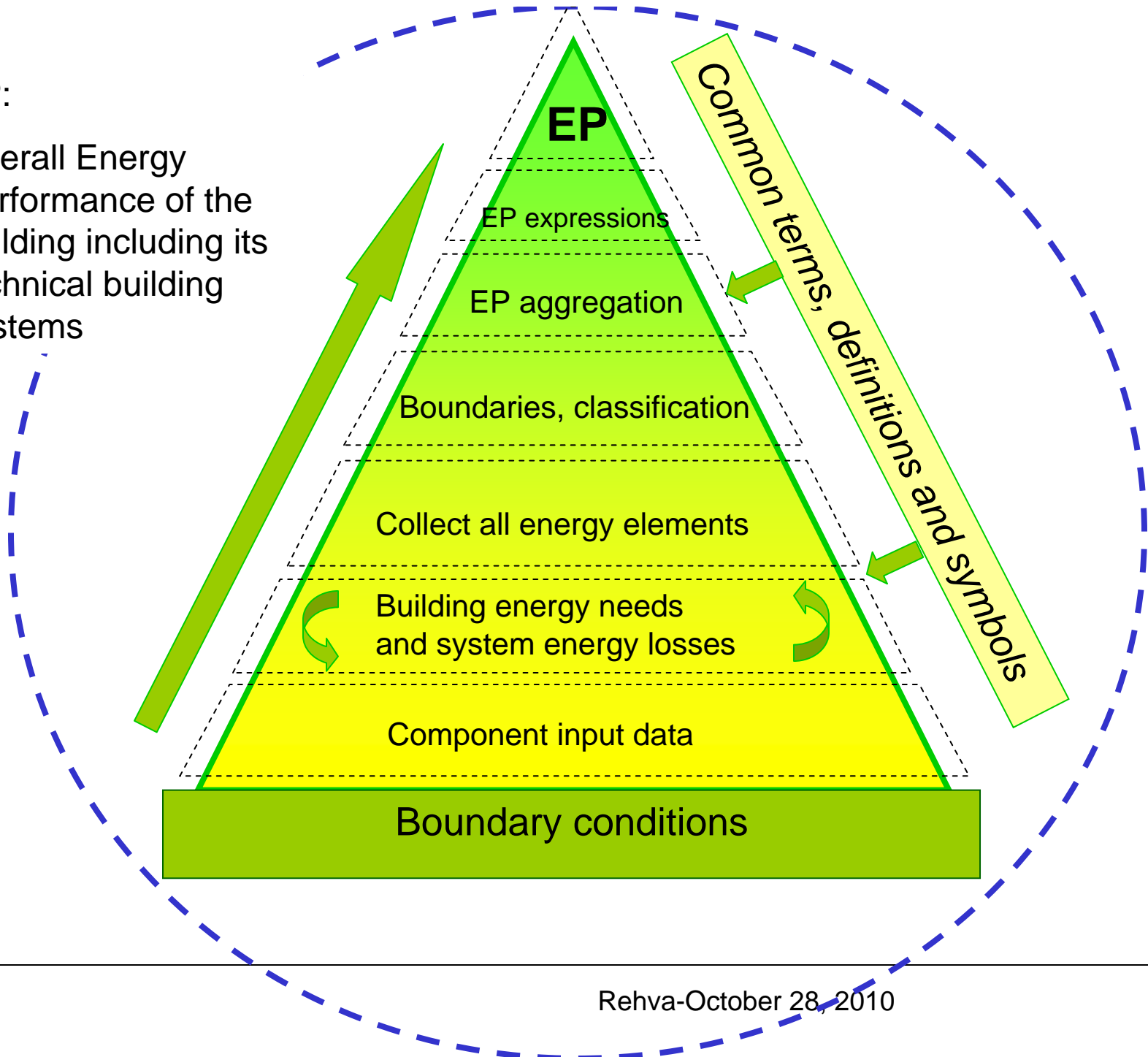
- Over 30 CEN-standards published (2007-2008)
- Forming a pyramid structure



Most are **used** in many MS,
but “in a practical way”

EP:

Overall Energy
Performance of the
building including its
technical building
systems



Quality of first mandate EPBD standards?



- Consistency (structure and levels of detail) not ideal
- Causes:
 - Timeschedule was extremely tight: flying start required (MS req in 2004= start of CEN work)
 - Not all work started from scratch
 - Many MS had, at the time, no or little experience with overall EP requirements → various options needed to accommodate different expectations
 - Subsidiarity principle in EPBD: implementation not mandatory

Some of MS's needed the standards by 2004/5 others 2007/8

Actual situation: How are the CEN-EPBD standards implemented in practice?

Actual situation

- CEN-EPBD standards are used in many EU Member States in a “practical way”: by copying parts of CEN standards into national standards or building codes and adding national elements

Some of the main reasons:

- Phase difference: MS's needed the EN's earlier (Some of MS's needed the standards by 2004/5 others by 2007/8)
- Need at national level for a combined “all in one” document: preference for legislators to refer to one or a limited amount of standards
- Initially (2004-2005): uncertainty & wide variety of requirements from the Member States



Starting point

- Extensive feed back organised within the IEE-CENSE project (2007-2010)
 - Including extensive contacts with persons responsible for EPBD implementation in MS's
 - Report from the Concerted Action-CEN Working group
- Contacts with EC, JRC, CEN, Concerted Action-2, Eurocodes, ISO, et al
- Discussion in EDMC meeting June 3rd 2010 and CEN-CA2-meeting Ljubljana 23rd Sept.



Conclusion on standards

- CEN EPBD standards need to be revised to be fit for more direct use:
 - More modular and unambiguous
 - Clear split common method <versus> national choices e.g. : Climate data, primary energy factors, the expression of ventilation and other legal requirements.
 - Software proof
- More consistent and in line with specifications to be specified by the Member States

Positive Impact of 2nd generation of CEN-EPBD standards (1)



- CEN standards more usable as direct reference & high transparency in national choices
- Easier international knowledge exchange and shared research
- Increased circulation of products, services and property (real estate) data
 - Towards **more** EU product data coupled to EP calculations
 - Towards **less** use of confusing national or non-EU labels...
 - **More** uniform info on quality of building stock

Impact of 2nd generation of CEN-EPBD standards (2)



- Faster implementation of new solutions
 - Better comparable energy performance levels and impact of innovations
- Increased credibility of EU in the world
 - Retaining the initiative in the global arena
- EPBD Recast ready
 - Existing buildings
 - Meet art 8 issues
 - Nearly zero energy buildings
- Ultimate goal: High performance European tools leading to high performance buildings

Stronger position of the EU industry on a global market by using harmonised procedures

- EU producers need harmonised procedures to evaluate the energy impact of their product in EU
- The (improved) CEN EPBD standards make this (better) possible, if applied in a transparent way by all EU-MS
- This harmonisation will lead to a stronger position of the EU-producers on the global market
- By developing ISO standards in parallel, this frontrunner position of the EU producers could even be strengthened

2nd Mandate to CEN

- A second generation EPBD standards is needed
- To achieve this in a reasonable timeframe with active participation of EU experts a 2nd Mandate to CEN is needed
- All parties consulted support this request
- The preparation of a 2nd Mandate to CEN is on track and expected by November 2010!
- A serious involvement of EU MS experts can be facilitated by the proposed structure.



Timing for revision

- Reasonable timescale for implementing harmonized approach?
- Majority of Member States require the total new set of EPBD standards : roughly between 2014 and 2020
- → Phased approach



Essentials

Phase 1 (2010-2011):

- Preparation of format **guidelines** and **common technical rules**
 - Together with MS
 - Based on the overall requirements & expectations on the standards
- Development of an **overall modular structure** (~ basic standard)
- Set up **specific operational procedures** for cooperation with MS, within CEN and with ISO
 - Satisfying the different **roles**, but respecting the formal **rules** (e.g. CEN rules)

This is essential, before decisions can be made on the kind of revisions per standard (2011-2014) →

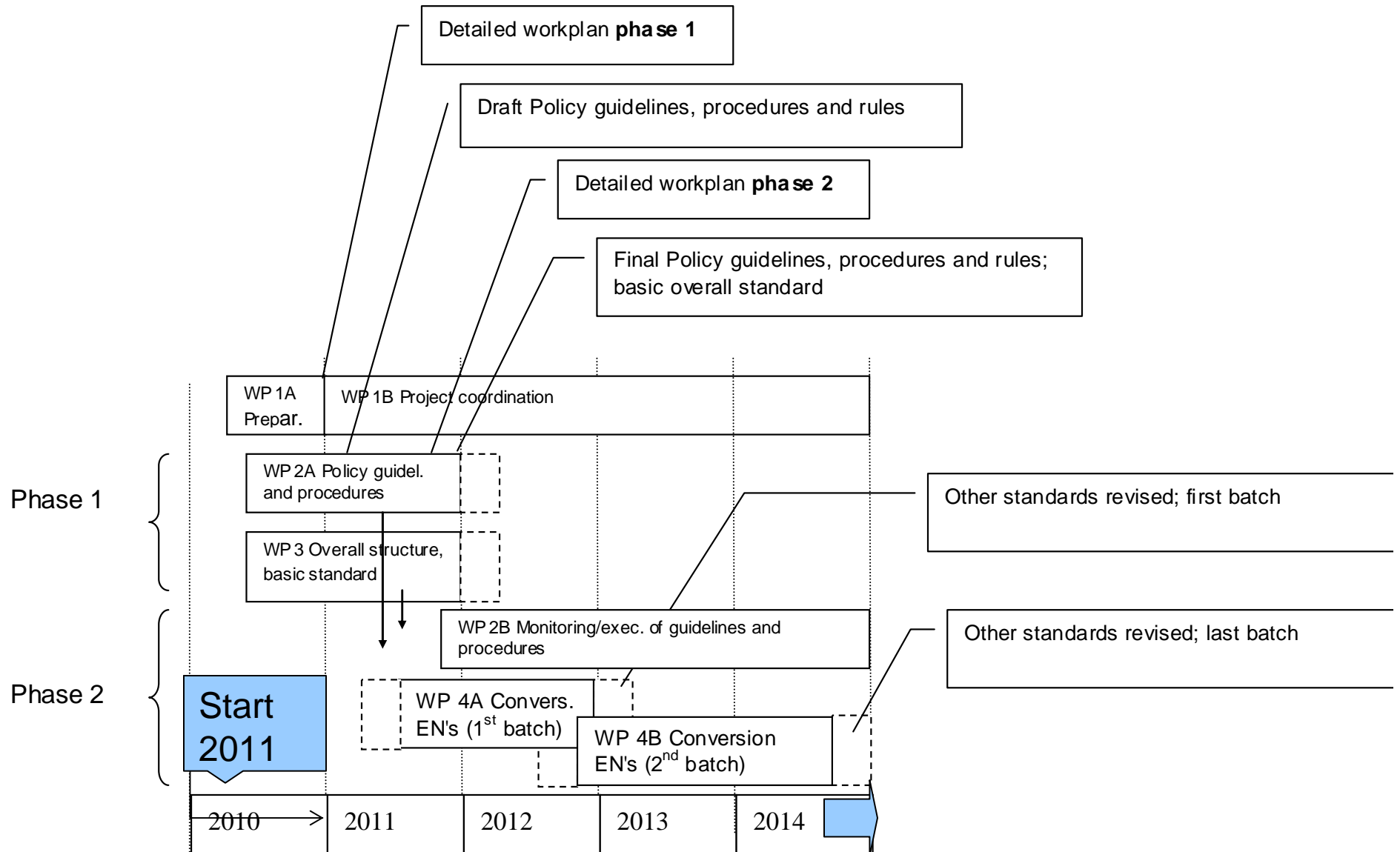
Phase 2 (2011-2014):

- Revision of the existing set of standards
 - In order of priority

Phases / Work packages

- 1A. Set up of organisation and communication
- 1B. Continuous coordination, monitoring and communication
- 2A. To work out detailed guidelines and procedures for revision of the standards
- 2B. Continuing monitoring/execution of guidelines / procedures during the project
- 3. To prepare a continuous but modular structure (e.g. as basic standard)
- 4A&B. Following a scheme with priorities: to convert the existing standards and (where necessary) to add missing ones

Tentative timeschedule



Basic principles and basic standard

- Start with the highest priority with:
 - **Detailed guidelines and procedures** for revision of the standards:
 - e.g. project management, strategic goals, structure of the standards, basic principles and common formats
 - Including rationalisation of options
 - A **basic standard** on the **integrated energy performance of buildings** will provide systematic, clear and comprehensive overall **continuous but modular structure**, re-using the main elements of EN 15603 (Overall energy use and definition of energy rating) and core elements of other key standards, including common definitions, terms and symbols



Organisation

- Central coordination by (small) core team (Chair Advising Panel) of experts in CEN/TC 371 (EPBD coordination)
- Close cooperation with a Liaison Committee from the Member States including experts from the EPBD Concerted Action Initiative
 - Regular expert meetings in connection and organised by CEN/TC 371
- Start with setting up basic principles and rules (see next slide)
 - Learn from e.g. Eurocodes
 - Including a pilot of the conversion of current standards

Central coordination by small team of experts in CEN TC 371

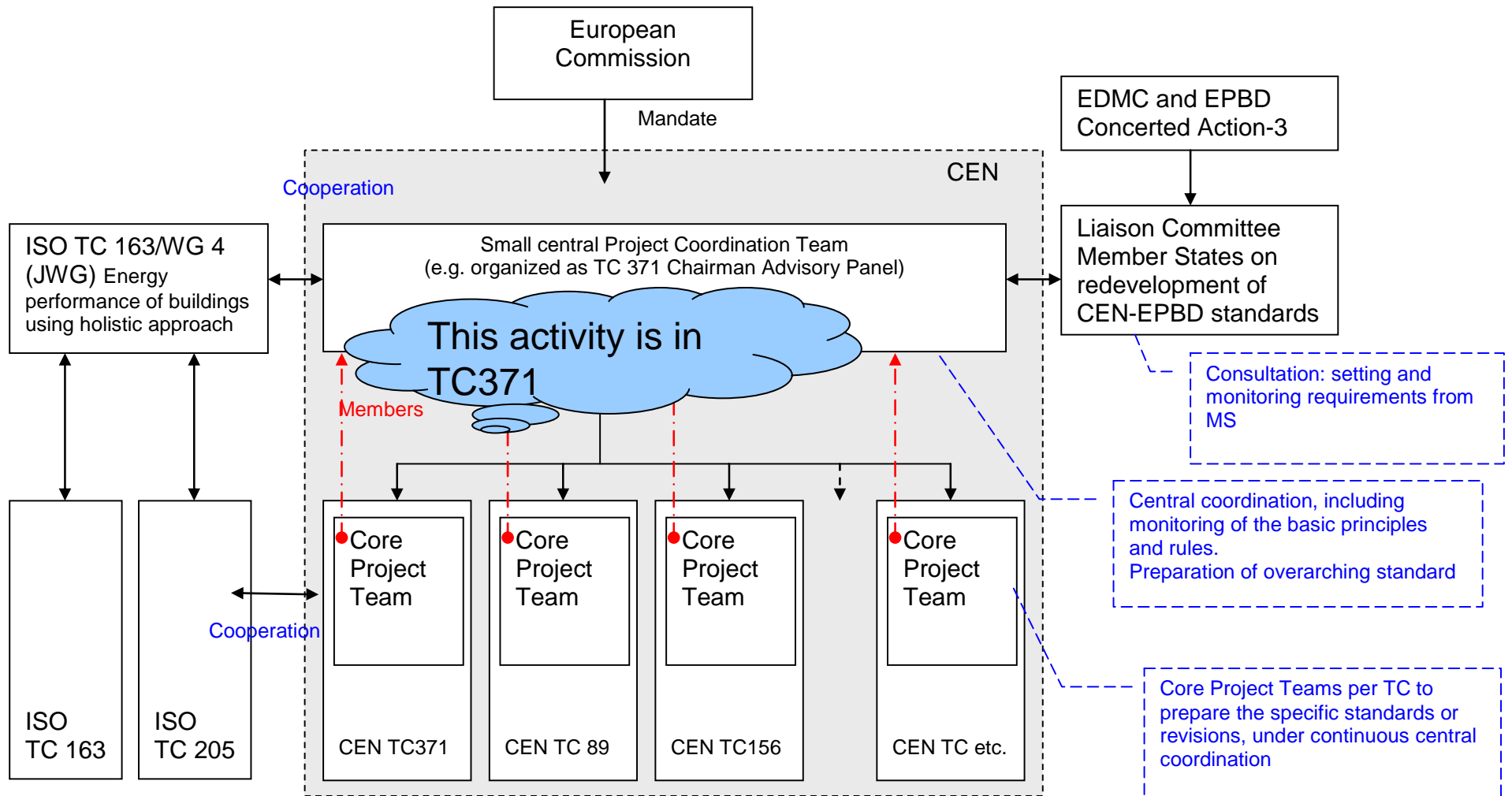
- CEN TC 371 will organise this central coordination team in cooperation with the other relevant CEN TC's
- (small) Core Project Teams on different clusters, related to the various CEN TC's:
 - TC 89, Thermal performance of buildings and building components
 - TC 228, Heating systems in buildings
 - TC 156, Ventilation for buildings
 - TC 247, Controls for mechanical building services
 - TC 169, Light and lighting

Close cooperation with a Steering Committee from the Member States

- With expert representatives from the EDMC
- With expert representatives from CA-3
- Regular expert meetings in connection and organised by CENTC371



schematic operational structure



Coordination with ISO

- As work is carried out under the Vienna Agreement; CENTC371 is in close contact with ISO counterpart:ISO-TC163 WG4 , the JWG of ISOTC 163 and 205: “*Energy performance of buildings using holistic approach*”
- The leadership and secretariat of both groups is overlapping:
 - Combined chair positions
 - CEN TC371 expert team have strategic positions in the ISO groups
 - Secretariat of both groups is held by NEN (NL)



CEN rules

- CEN-TC's have an independent position regarding the standards they prepare and publish for voting.
- With accepting a 2nd mandate on the CEN EPBD standards CEN accepts the coordinating role of the CEN TC371
- Decisions on EPBD standards can only be taken with mutual consent of TC371 and related other TC's: 89, 156, 228, 169, 247



Principles of Cooperation

- CEN TC's agree that the products from the coordinating committee (TC 371) and the horizontal CEN committees will be approved at both levels:
 - TC 371: checking compliance with the basic principles, common format and overall consistency,
 - the horizontal TC: responsible for the quality and adequacy of the technical content.
- A short document (1 or 2 pages) will explain this agreement.



Specific Guidelines

- In a more detailed document these principles are translated into concrete rules on procedures for e.g.
 - participation in the development, the involvement of MS experts (CA) and EC experts without them being nominated by NSB's
 - circulation of documents,
 - consultation of interested parties,
 - parallel enquiry in TC 371 and horizontal TC,
 - parallel approval in TC 371 and in horizontal TC, ..



Overall guidance

- In guidance documents specific procedures will be laid down on the cooperation with the EU Member States (the Steering Committee; within the boundaries of the CEN rules):
 - meet the needs of the EU Member States regulators, the prime users of this set of EPBD standards
- The technical experts meet the regulation experts: standards shall be close to codes (more legislation oriented)



About cooperation CEN – ISO, we already did it, it is not new!



- CEN operates at European level
- ISO operates at the global level
- In many cases EPBD standards have been developed in cooperation → EN-ISO standards (11 of the 43)
- **Already several EN's are EN-ISO**

– Example:

EUROPEAN STANDARD	EN ISO 13790
NORME EUROPÉENNE	
EUROPÄISCHE NORM	March 2008

- Expected intensified cooperation CEN-ISO
 - CEN standards used as basis
 - Taking the recommendations for improvements into account
 - With European experts retaining the initiative



Cooperation with ISO

- The foreseen cooperation with ISO implies that probably most of the work will be done under formal ISO lead, following the Vienna Agreement . For certain standards CEN will have the formal lead.
- Concerning the cooperation in preparation of the standards: CEN experts will be directly involved in the ISO groups preparing the standards and play a prominent role by producing the draft text.
- Concerning the consultation and approval procedures: The ISO drafts will be distributed in CEN for parallel enquiry and parallel approval by the responsible CEN – TC's for which the proposed Specific Operational Guidelines will apply.

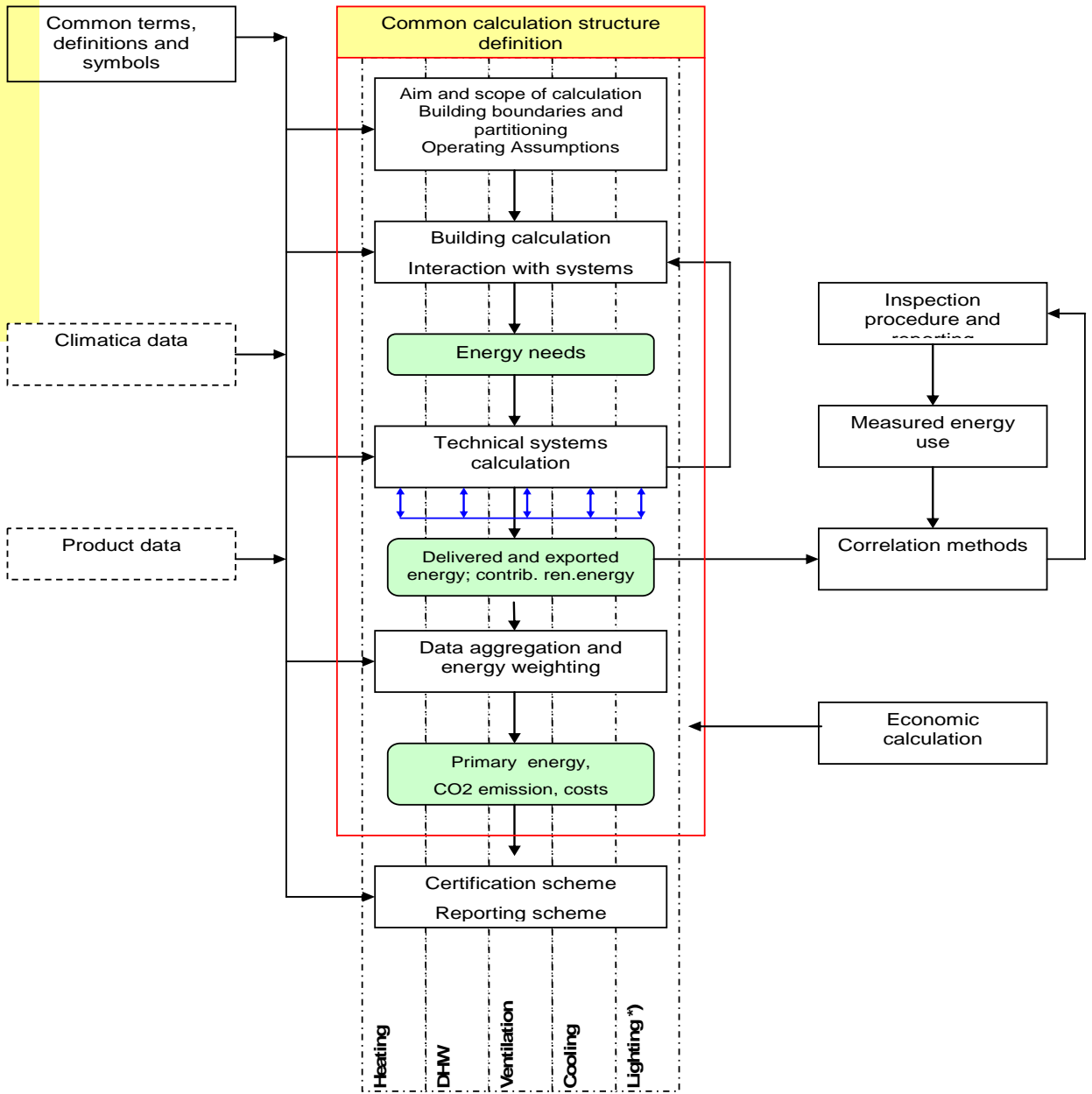


Structure CEN work plan

- Preparing and applying a **common format** for each standard,
 - including a systematic and hierarchic and procedural description of options, input/output variables and relations with other standards, and including:
 - A clear **separation** of the (harmonised) procedures and the choices and data to be provided at national or regional level;
 - A common structure of easily accessible and comparable **national annexes** to each standard, containing the national or regional choices, boundary conditions and input data.
 - An **informative technical report**, accompanying each standard, This will strongly reduce the volume of the standards and strengthen their focus, thus facilitating the adoption (including translation) in national/regional regulations.
- (National annex: a standardized format in which national choices are presented)

Tentative main structure

To be refined in consultation with the Member States



Formalization of collaboration between CEN and CA3

- Establish the EPBD Steering Committee in cooperation with the EDMC
- Ensure participation of MS-experts on CEN level:
 - through official nomination by the national MB's of CEN
 - through official acceptance as invited experts in CEN committees



Conclusion

- Two phase approach:
 - **First phase** to define the *basic requirements* (principles) and a *modular overall structure* for the 2nd generation of CEN standards to support the EPBD
 - **Second phase** to revise the set of standards
- This is a highly **dynamic process**
 - → Continuous feed back and **mechanisms for adjustments** needed
 - → **Transparent, practical procedures** for exchange of views and principles, cooperation and feed back of all interested parties
 - → Continuous central **coordination** and **monitoring** of the progress in terms of consistency, efficiency and efficacy



Thank you for your attention