

Assessing the Energy Performance of Buildings

The position of EN15251 “Indoor environmental input parameters for design and assessment of EPB addressing IAQ, thermal environment, lighting and acoustics”. EN16798-1 (=15251) or future ISO52008-1

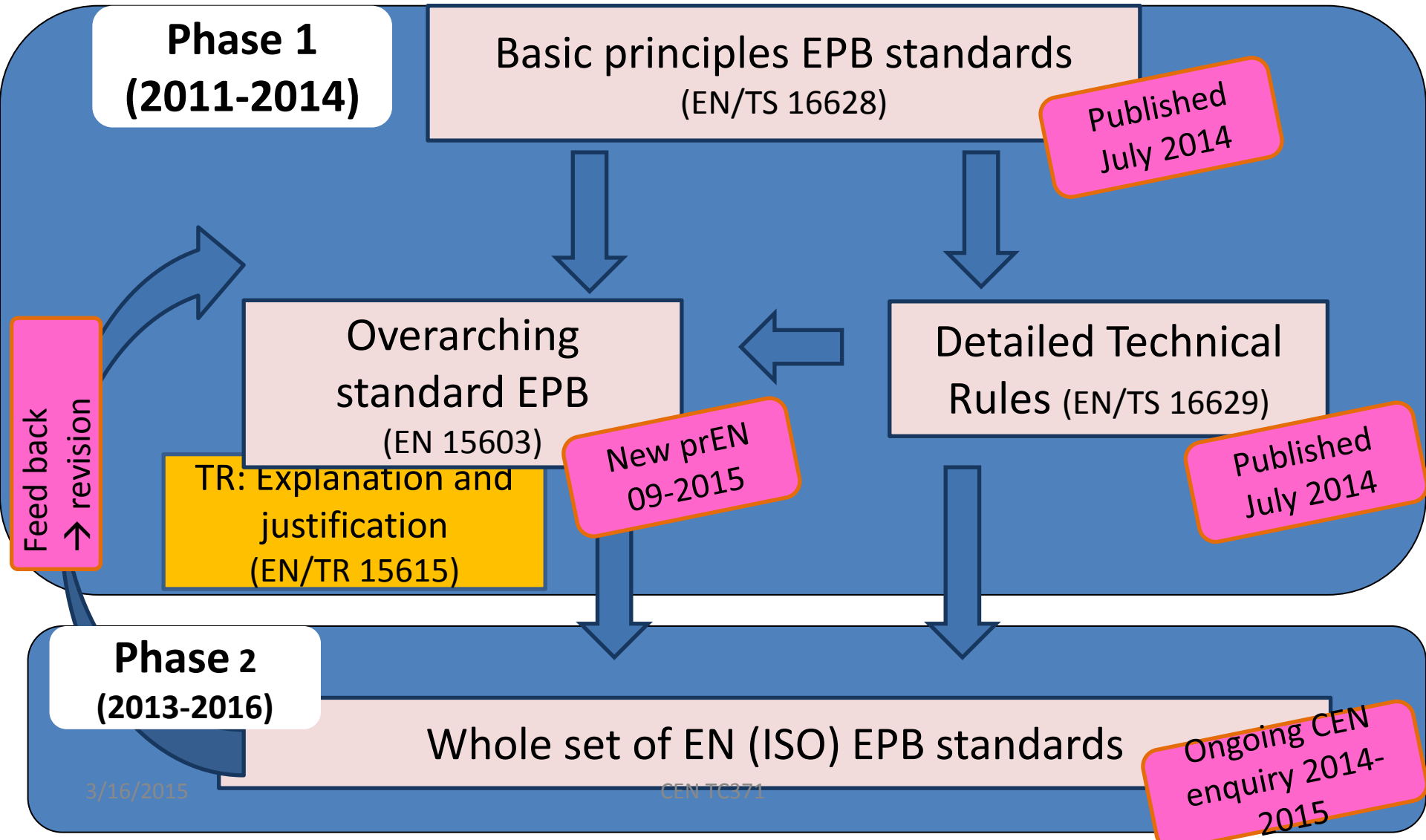
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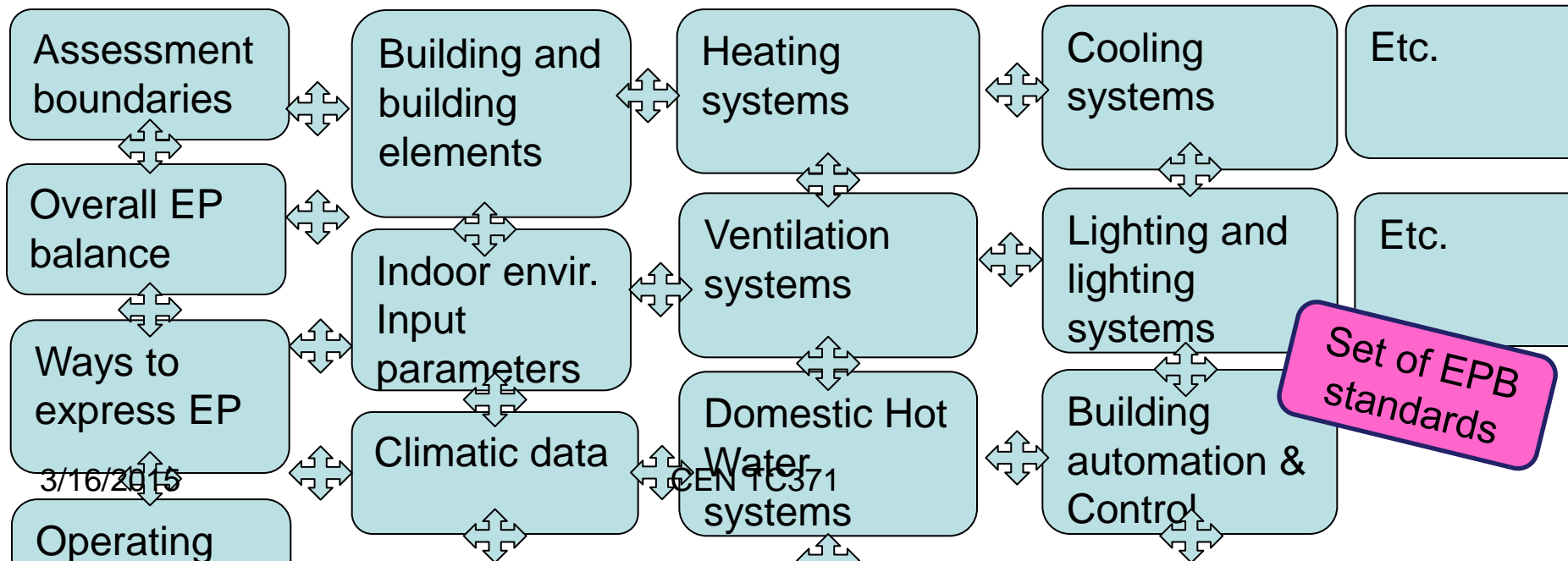
CEN project on EPB standards development





Overarching modular structure

- Matrix of modules and sub modules
- Common terms, definitions and interactions between the modules
- Overall energy performance



Set of EPB standards: unambiguous but flexible

(allowing national choices, boundary conditions and input data)

→ Each EPB standard contains:

- **Annex A (normative): template for choices and input data needed for using the standard**
- **Annex B (informative): informative default choices and input data**
- In general:
 - Each individual user of the EPB standard is free to create his/her own data sheet according to the template of Annex A
(~ replace the default choices and values of Annex B)

Explained in a note in Annex A and Annex B

“

NOTE

In particular for the application within the context of EU Directives to be transposed into national legal requirements.

These choices (either the default choices from Annex B or choices adapted to national/regional needs), but in any case following the template of this Annex A, can be made available as National Annex or as separate (e.g. legal) document.”



In the EPB standards will have:

- **National cover page and the Introduction text in the EPB standards:** this text allows the NSB's (MS's) to include information regarding the position of the EPB standard in their national regulation, version indication etc...
- NSB's can publish a National Annex to each EPB standards where they make use of the Annex A template.
- A National Annex **is not** an Annex A.
- A NA could include more additional information! More National Annexes could be developed, e.g. for different building functions etc...

how to interpret the use of national defaults or options according Annex A?

- this can be done by just filling in all choices and defaults
- there is all freedom to refer to procedures that will produce these values
- By just providing a single default value (in Annex B in the OAS) on a certain issue doesn't mean that the (National) Annex couldn't include or refer to a procedure to assess this value
- Annex A allows that default values are derived from national protocols/legislation
- There could be more completed (filled in) Annex A : for different use (EP-certificate, funding schemes, etc.)

normative references

- no references to EPB standards in chapter 2 "Normative references", (apart from OAS and most non-EPB standards)
- All references by the modular number of the standards. Example: "as calculated according to M8-3";
- In Annex B (informative) is a full list of the default EPB standards referenced by using these modular numbers.
- In Annex A (normative) there is a template, with empty list to show that these have to be filled in with appropriate references when using the standard.
- The resp. authorities for the EP assessment are expected to fill in the tables as shown in annex A. They can use all the EPB standards in Annex B, but can also replace one or more by another standard (e.g. a National Standard).

Accompanying informative Technical Report prEN16789-2

- As for all **EPB standards**, standards shall only deal with **normative text**; explanations, considerations, justifications and background information shall be included in a **Technical Report (TR)**
- the TR is the place where we can elaborate on the fact that default values can be derived from national protocols/legislation,
- example cases to illustrate the usability of the standard will be included in the **TR**





The CEN ISO interaction



- An active process of interaction for the **Overarching Type of standards** through the **JWG of ISO TC 163 & 205**
- for the other standards via the different WG's of ISO TC 163 and 205, Sharing early prelim draft texts
- Sharing experts in the ISO and CEN teams working on these standards, with the ultimate goal to agree on ISO standards
- A challenge given the geographic and other differences in the building sector, given the very tight time scale at CEN level, for EPB standards under some of the CEN TC's the cooperation with ISO is for the time being informal (no parallel voting).
- In ISO a series of numbers has been reserved for all EPB standards (52000----52150)



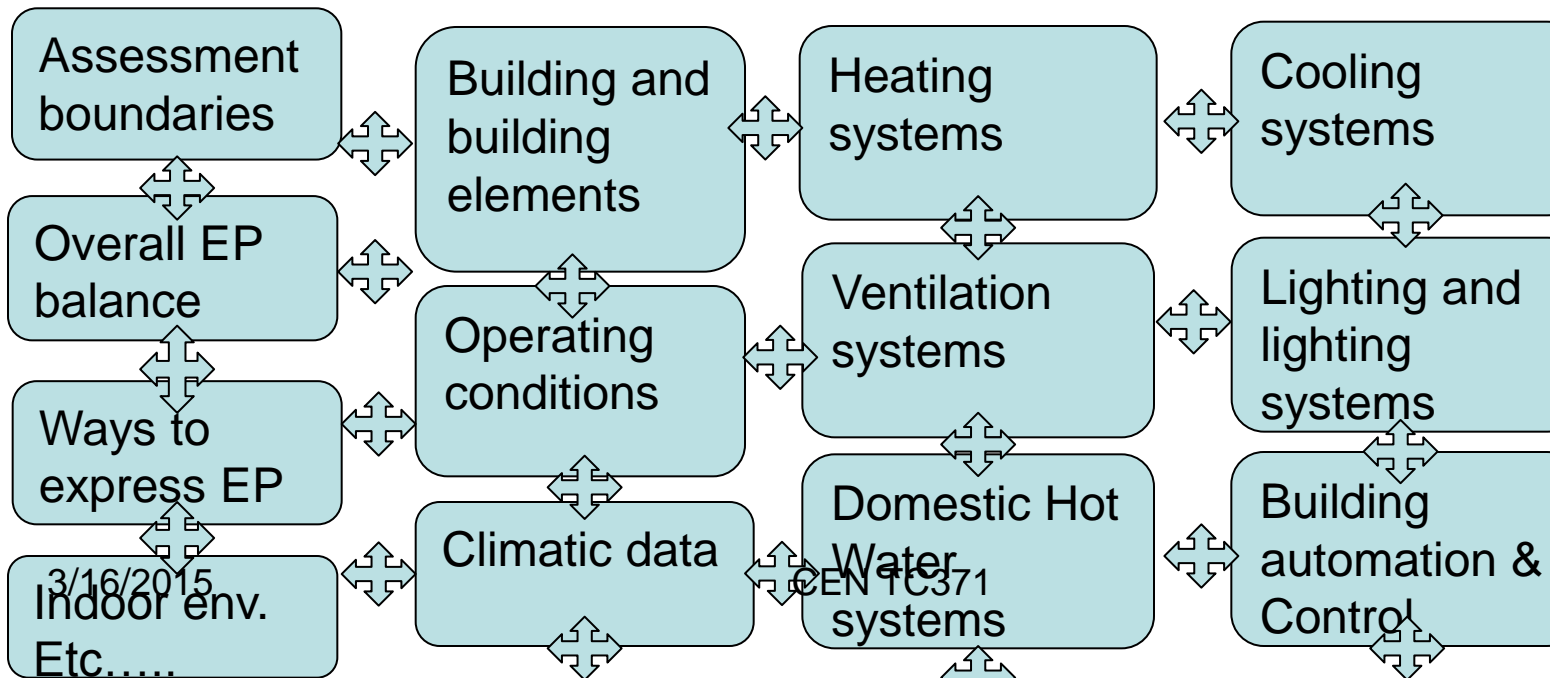
workshop



Future prospects

Global set of standards on Energy Performance of Buildings (EPB)

- ISO 52000
- ISO 52001
- ISO 52003
- ISO 52004
- ...
- ISO 52007
- ISO 52008
- ..
- ISO 52015
- ISO 52016
- ISO 52017
- ISO 52018
- ISO 52019
- ISO 52020
- ISO 52021
- ISO 52022
- ...
- ISO 52145
- ISO 52146
- ISO 52147
- ISO 52148
- ISO 52149



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