

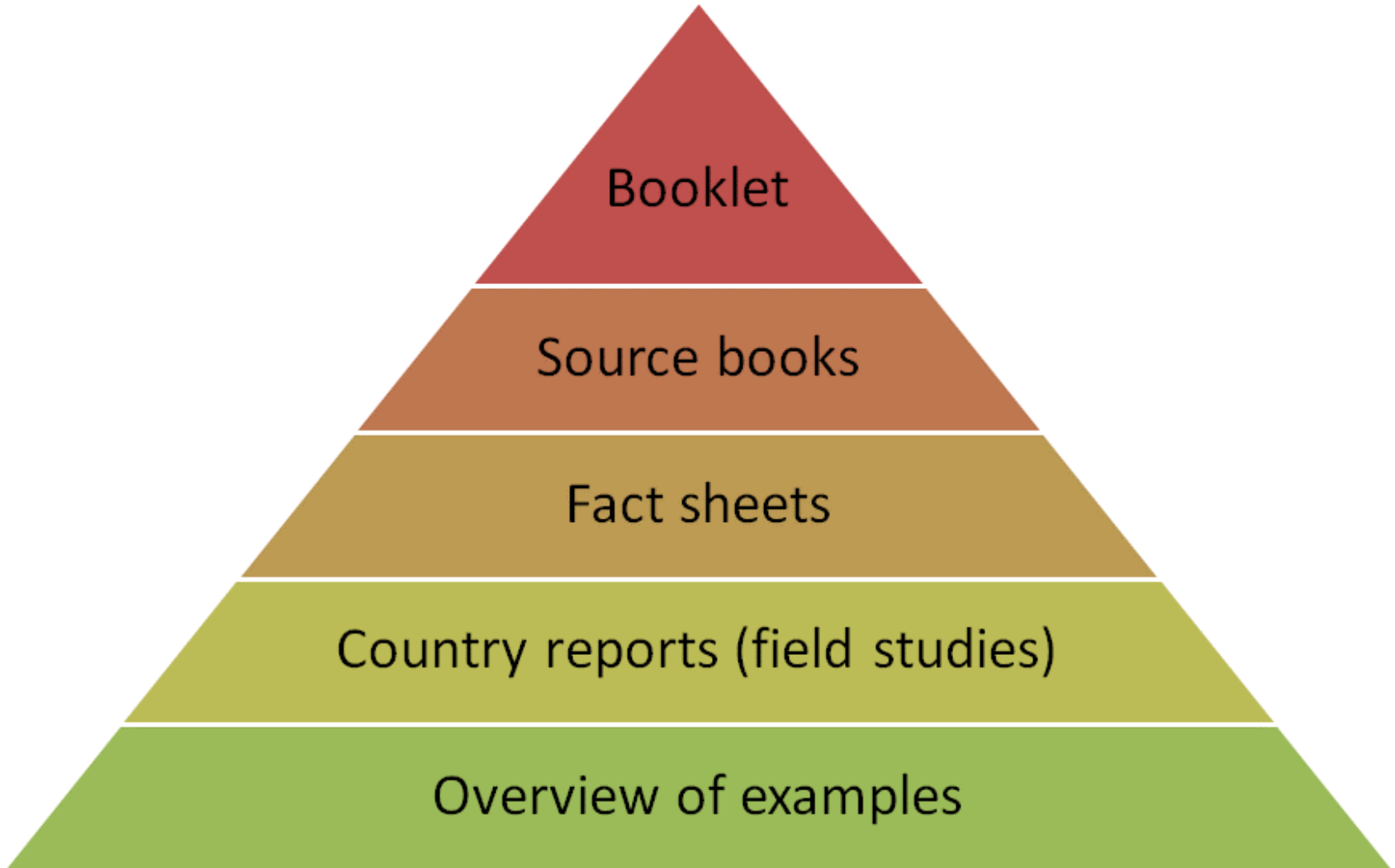
Source book on EPC compliance

Overall approach

François DURIER



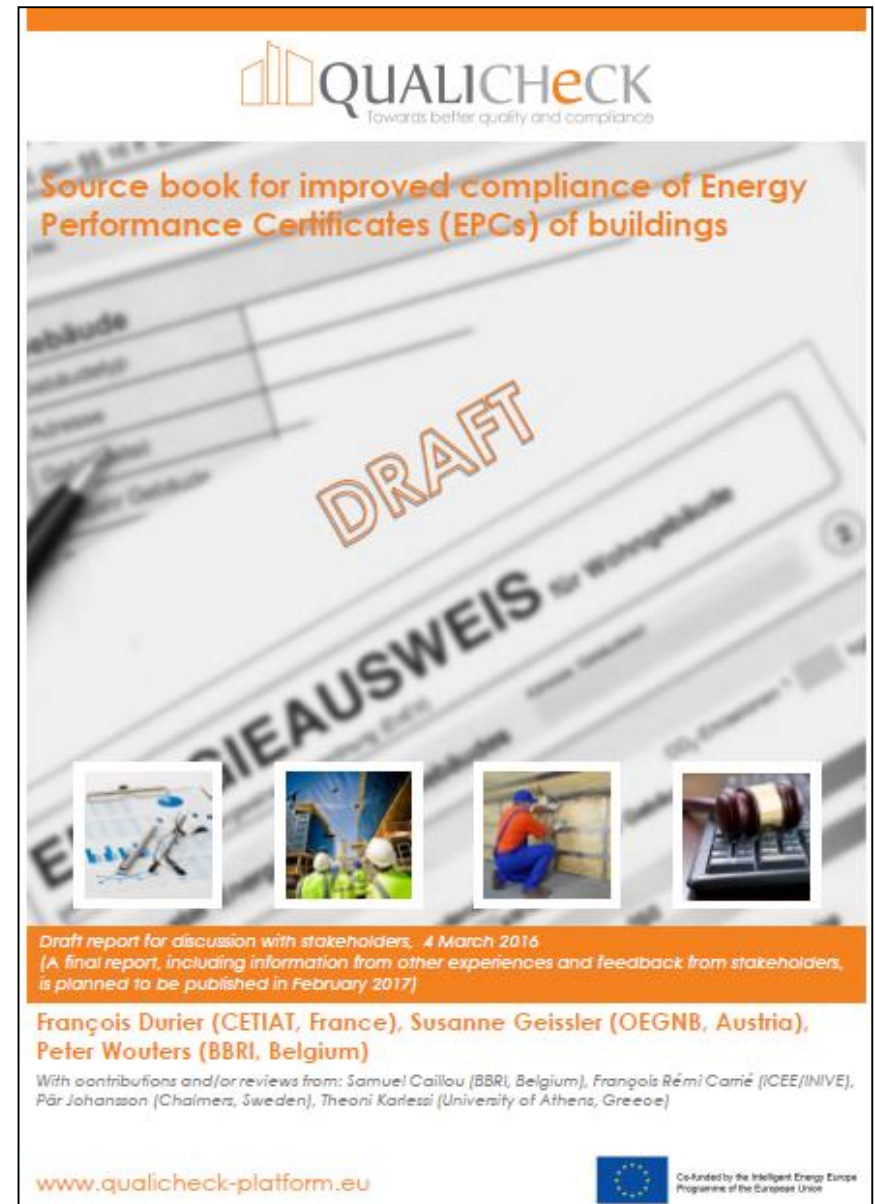
QUALICHeCK documentation



Source book for improved compliance of Energy Performance Certificates of buildings

Draft version March 2016

Final version February 2017

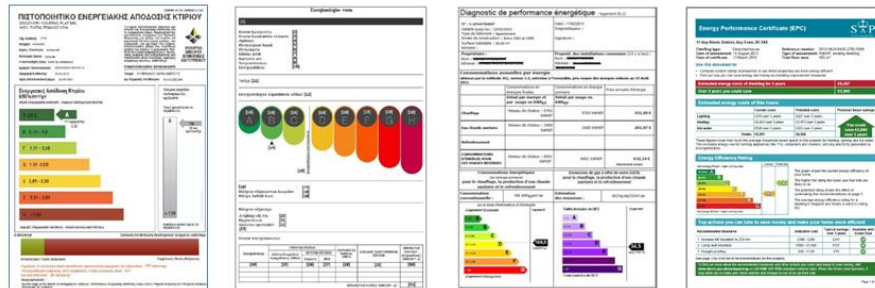


Compliance?

- **Compliant** = in accordance with the procedures of the applicable legislation

✓ How to make sure that the EPC of a building is compliant?

If so, minimum energy performance requirements are met
and consumer is well informed



EPBD requirements

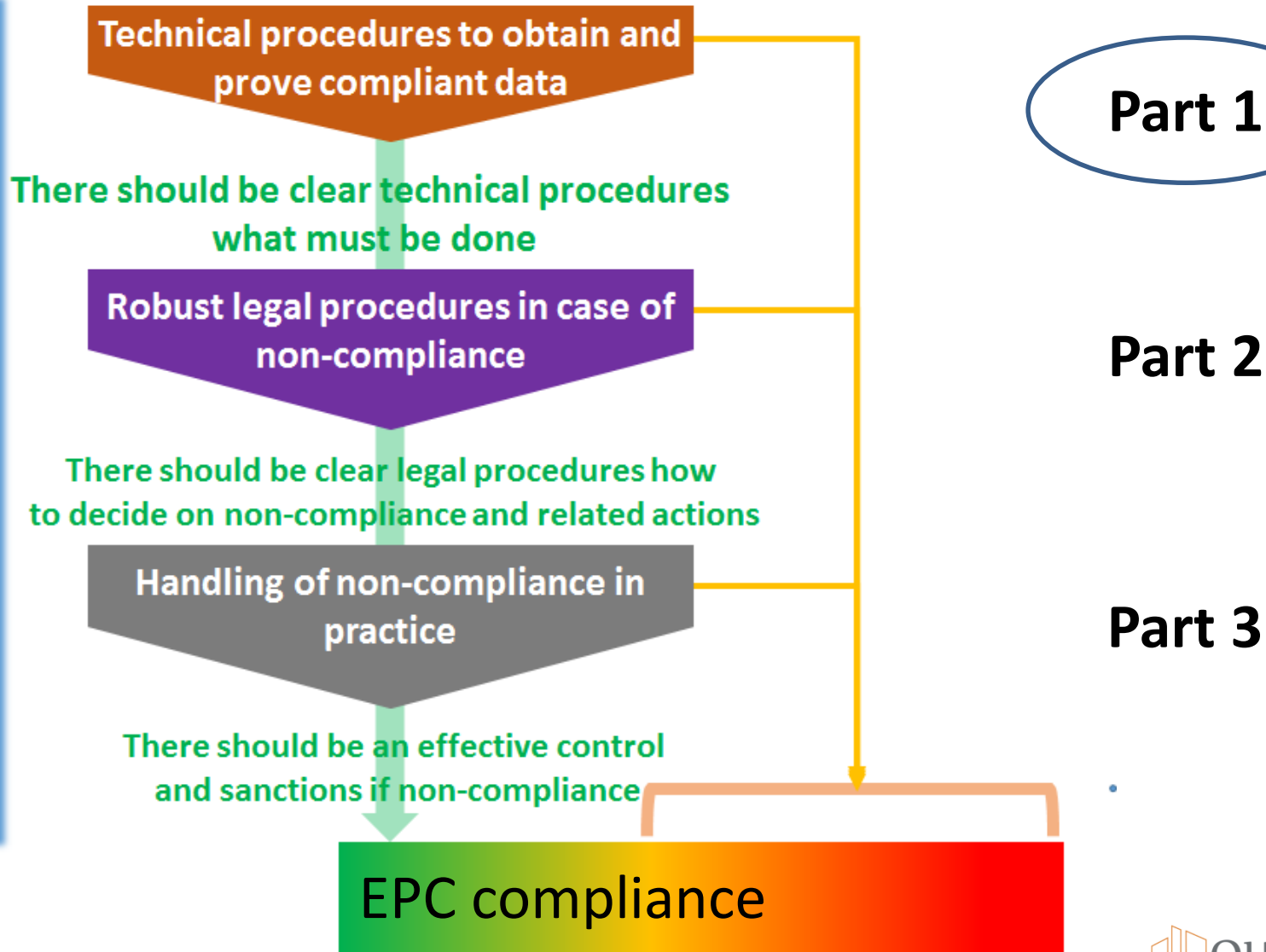
- **Directive 2010/31/EU (EPBD)** requires that:
 - ✓ Member States establish an **independent control** of the EPCs, in which a significant sample of all the EPCs issued annually is verified (art. 18), including a check of the results and of the input data (annex II)
 - ✓ Member States lay down **penalties** applicable to non-compliance. Penalties must be effective, proportionate and dissuasive (art. 27)

Compliance of the EPCs must be checked!
There must be penalties in case of non-compliance!

How to achieve compliance of EPC

Source book

! Societal support !



Part 1: Procedures for determining EPC input data

- Clear **technical** procedures
 - how to determine the data (quantity, unit, method)
- Clear **organisational** procedures
 - for example:
 - need that the data is controlled or certified
 - way to declare the data
 - need for competence of the expert
 - ...
- Clear procedures for **evidence of compliance**
 - set of elements to prove compliance

Part 1: Ways to prove compliance

The **evidence** that EPC input data has been obtained according to the procedures can rely on:

- **Control by an independent third-party**
- **Declaration**
 - the one involved in determining the data states that applicable procedure has been followed
 - relies on honour of the one who declares, self-control procedure, final verification, quality insurance scheme...
- **Proven competence**
 - persons or companies
 - certification, qualification, accreditation, label...
 - shown by a certificate

Part 1: Evidence of compliance

	Ways to prove compliance		
	Independent third-party control	Declaration that procedure has been followed	Proven competence of persons/companies
Input data			
Made available by manufacturer	X	X	X
Found into database	X	X	X
Recorded	X	X	X
Measured on site	X	X	X
Fixed by legislation (default values, fixed average values, pre-calculated values)	X	X	X

Only if foreseen by the applicable legislation

Part 1: Easy access to EPC input data

For example:

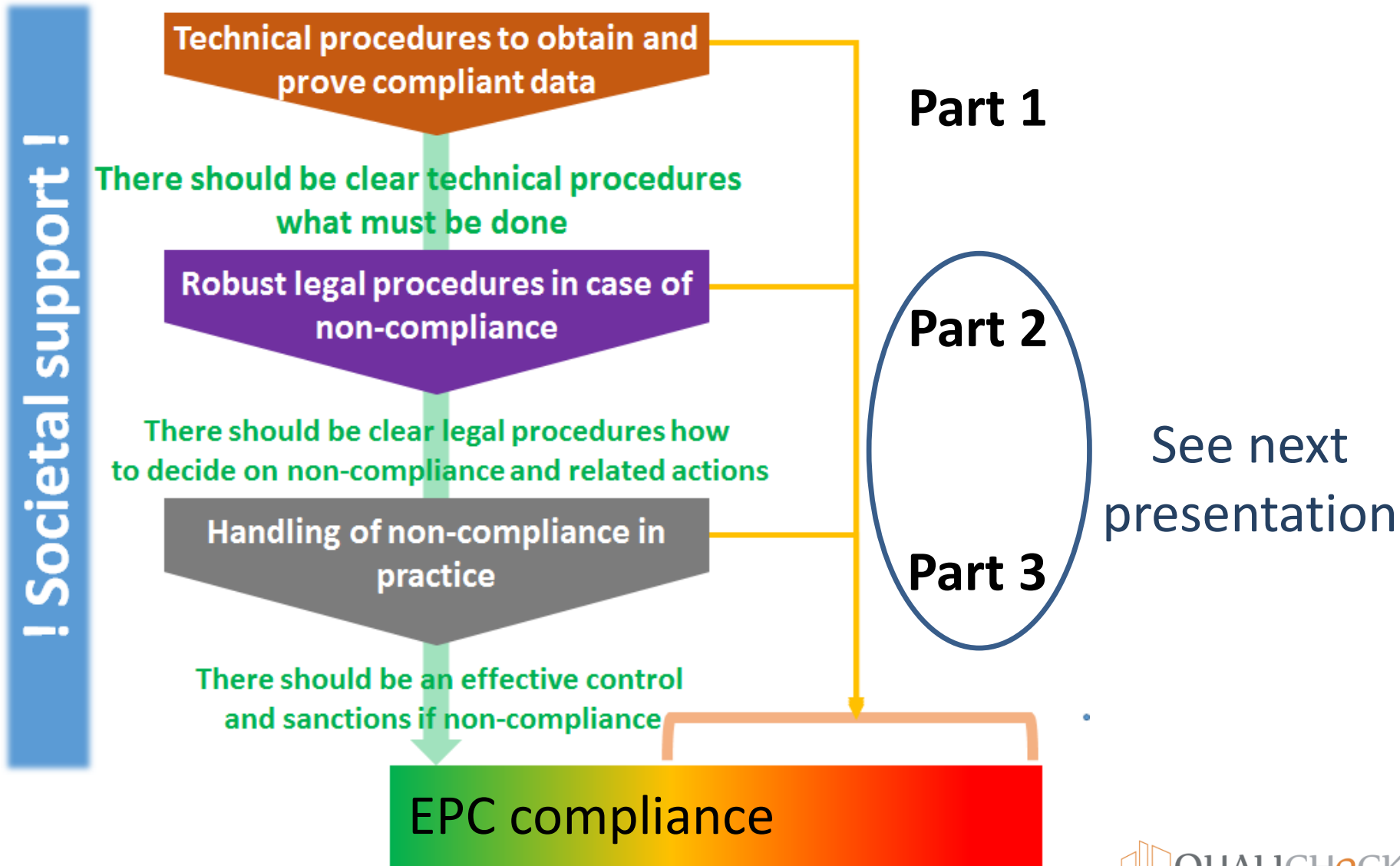
- Easy access to description of building and systems
- Documentation about products and systems
- Database of product and system characteristics
- Easy access to on site measurement results
- Easy access to the actual energy consumption of the building
- ...

Important role of information and communication technologies, BIM, database...

Part 1: Other issues for compliant EPC input data

- Data accuracy vs. **effort** to determine data
- Calculation accuracy vs. **number/complexity** of data
- Automatic control of data by software, **embedded database**
- Specificities for **execution related data**, existing buildings
- Data for **innovative** products/systems
- Procedures in line with **other legislations**:
 - Treaty on the functioning of the EU
 - Construction Products Regulation
 - Ecodesign and energy labelling Directives
 - RES Directive
 - ...

Structure of the source book



The source book also includes...

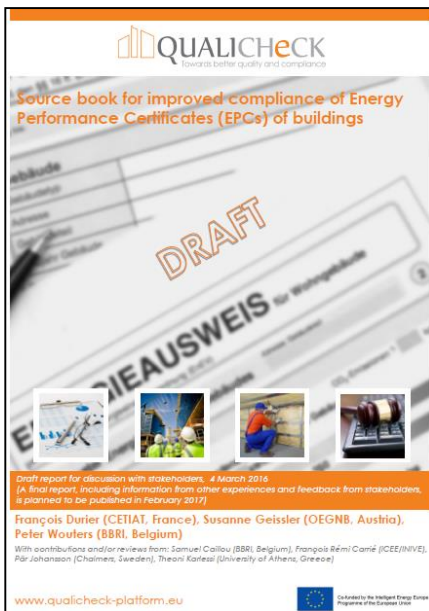
- Thoughts about **societal support**
 - Why is social support absolutely needed?
 - Societal support for the procedures
 - Societal support for the practical handling of non-compliance
- Considerations about **innovation**:
 - Procedures should not be a barrier for innovation
 - Procedures should allow to cover innovative technologies
- Considerations on **economics** of compliance
 - Costs for compliance?
 - Costs in case of non-compliance?
 - Who pays?

- Draft version of the source book available at:

<http://qualicheck-platform.eu>

Comments and contributions are welcome, before 31/10/2016

Next presentation about the contents of Parts 2 and 3 of the source book



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