

Workshop on Implementation of BAT Conclusions for Waste Incineration

The puzzle of future
environmental permits

Ella Stengler



Confederation of European Waste-to-Energy Plants Operators



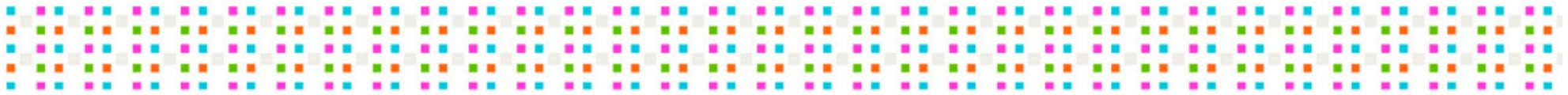
**European Suppliers of Waste-to-Energy
Technology**



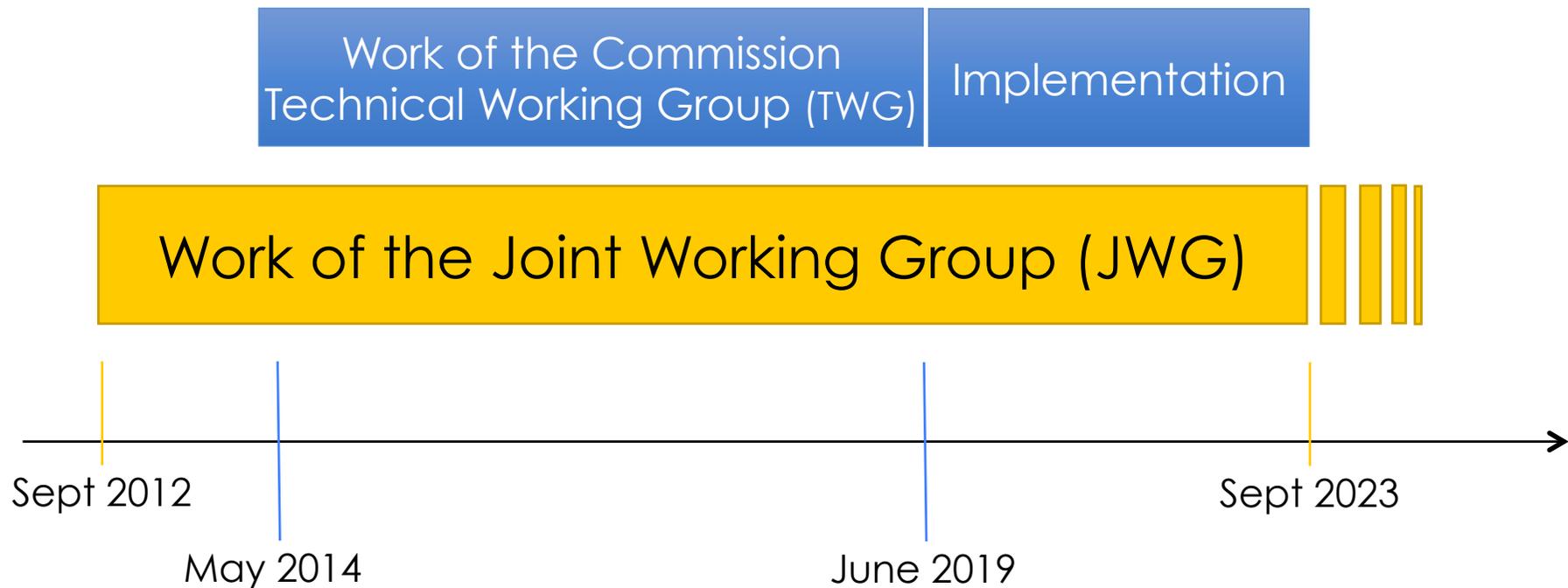
European Federation for Waste Management and Environmental Services



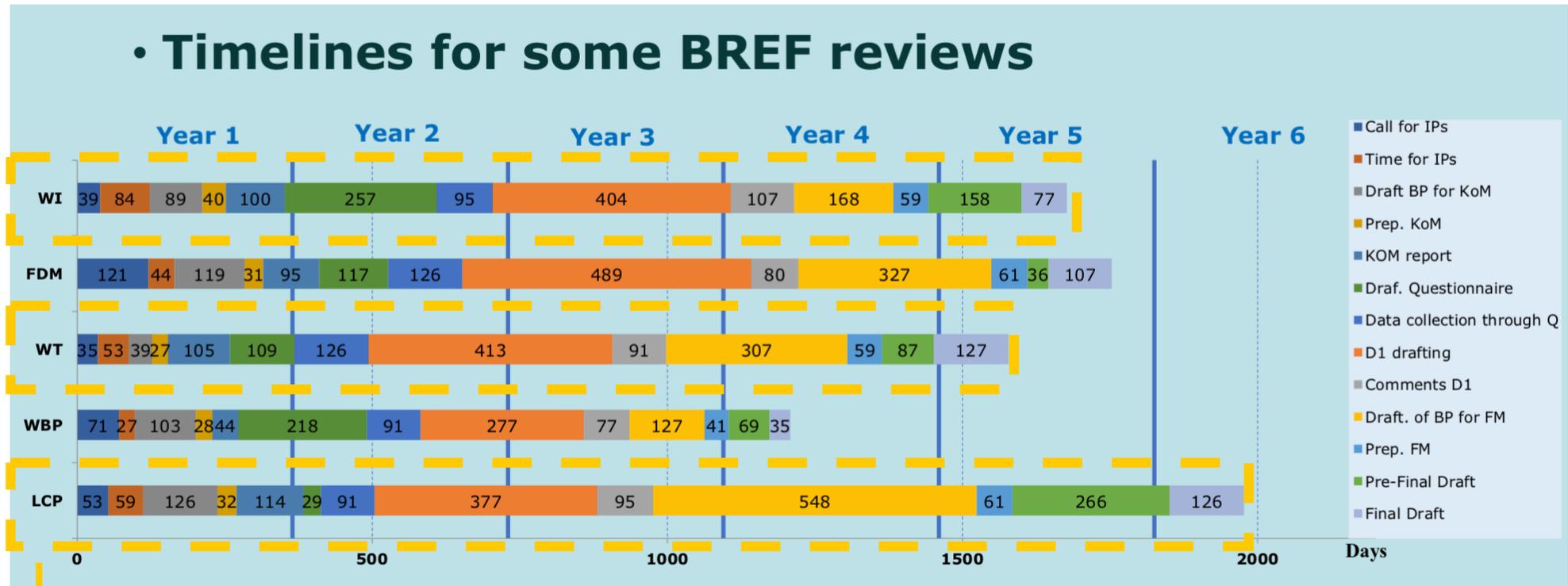
Krakow WtE plant, Poland



A process that started a long time ago...



A process that started a long time ago...



We followed directly the review of 3 BREFs (WI, WT and LCP) and the Reference Report on Monitoring (ROM)



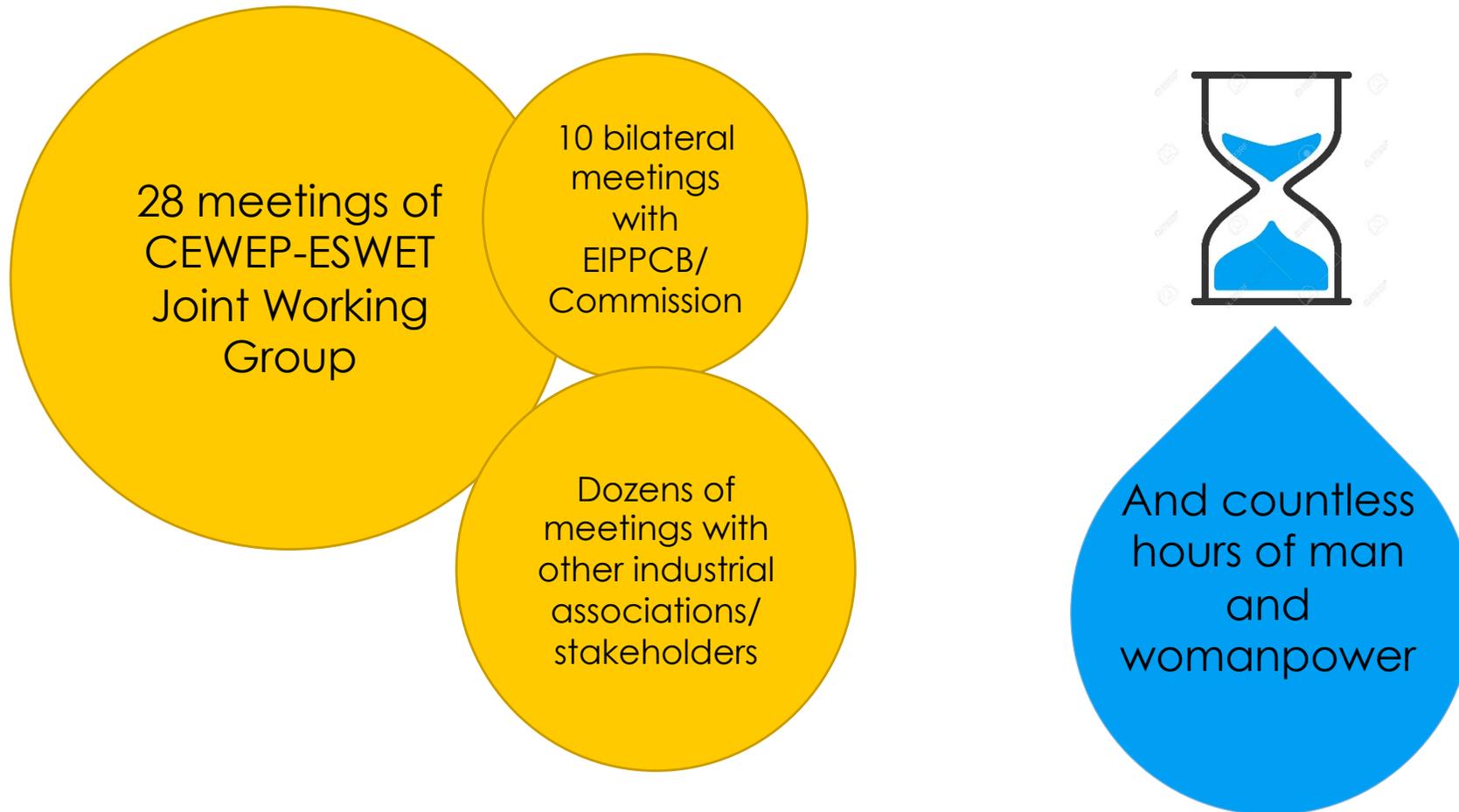
A process that started a long time ago...

The work was mainly undertaken by CEWEP-ESWET JWG on BREF WI Review (around 35 members)

- **Observers:** FEAD, MWE
- **Multidisciplinary approach**, experts of different fields
- **Several subgroups** (BAT for Residues, National/Regional Rules, Measurement and Monitoring, Energy issues, Costs, Questionnaire for operators, Methods to derive BATAELs from data, Emerging Techniques, Emissions to Water)



And after many, many meetings...





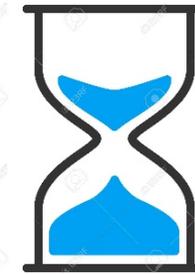
...We are now ready to have more!

Development of
CEWEP-ESWET-
FEAD Explanatory
and Guidance
document

Involvement
of experts
from CEN to
adapt the
standards

Workshops
and
meetings to
provide
implementa-
tion support

Support for
information
exchange
among
members



And countless
hours of man
and
womanpower



Why this workshop?

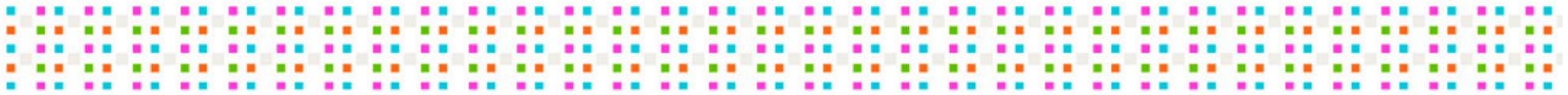
Revised WI BAT Conclusions will be published in Summer 2019

All permits will have to be reviewed after 4 years of the publication

Reviewed WI BAT conclusions will include mandatory requirements e.g. for emissions to air



The Industrial Emissions Directive clearly states that (Art. 15.3) competent authorities shall set Emission Limit Values that ensure that emissions do not exceed BAT - Associated Emission Levels (BATAELs) in Normal Operating Conditions.



Why this workshop?

WI BAT Conclusions are not user-friendly:

A number of information are not given in the WI BAT conclusions because they are included

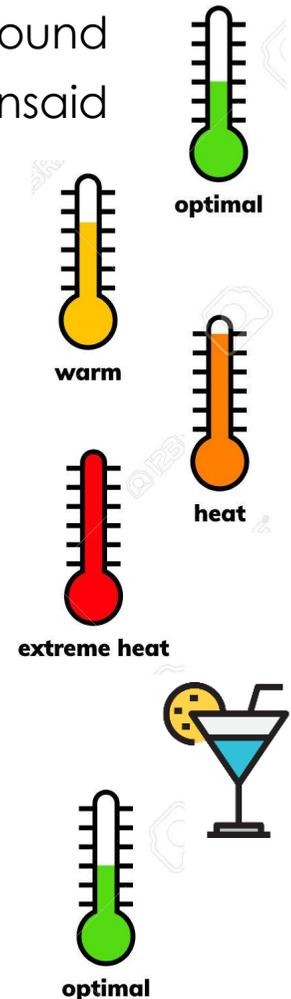
- in other pieces of legislation (no direct reference)
- in other sections of the WI BREF (no direct reference)
- or left as implementation issue for Member States

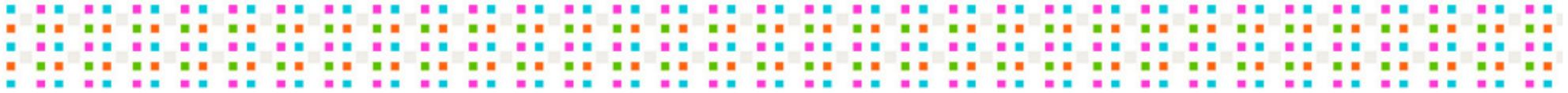
Several issues are complex and open to interpretation

Identify potential problems and possible solutions

Programme of the day

- 11:15 – 11:45 **Panoramic view of the puzzle**: legal framework and background
- 11:45 – 12:30 WI BREF and BAT conclusions: review, content and what is unsaid
- 12:30 – 12:45 **Coffee break**
- 12:45 – 13:30 **Puzzle piece 1**: the NOC/OTNOC issue
- 13:30 – 14:30 **Lunch break**
- 14:30 – 15:00 **Puzzle piece 2**: bottom ash and water emissions
- 15:00 – 15:30 **Puzzle piece 3**: calculation of energy efficiency
- 15:30 – 15:45 **Coffee break**
- 15:45 – 16:30 **Puzzle piece 4**: measurement uncertainty
- 16:30 – 17:00 Presentation of the draft guidance document on WI BREF
- 17:00 – 17:30 Assessment of compliance with examples
- 17:30 – 18:00 Conclusions and feedback
- 18:00 – 19:00 **Cocktail**



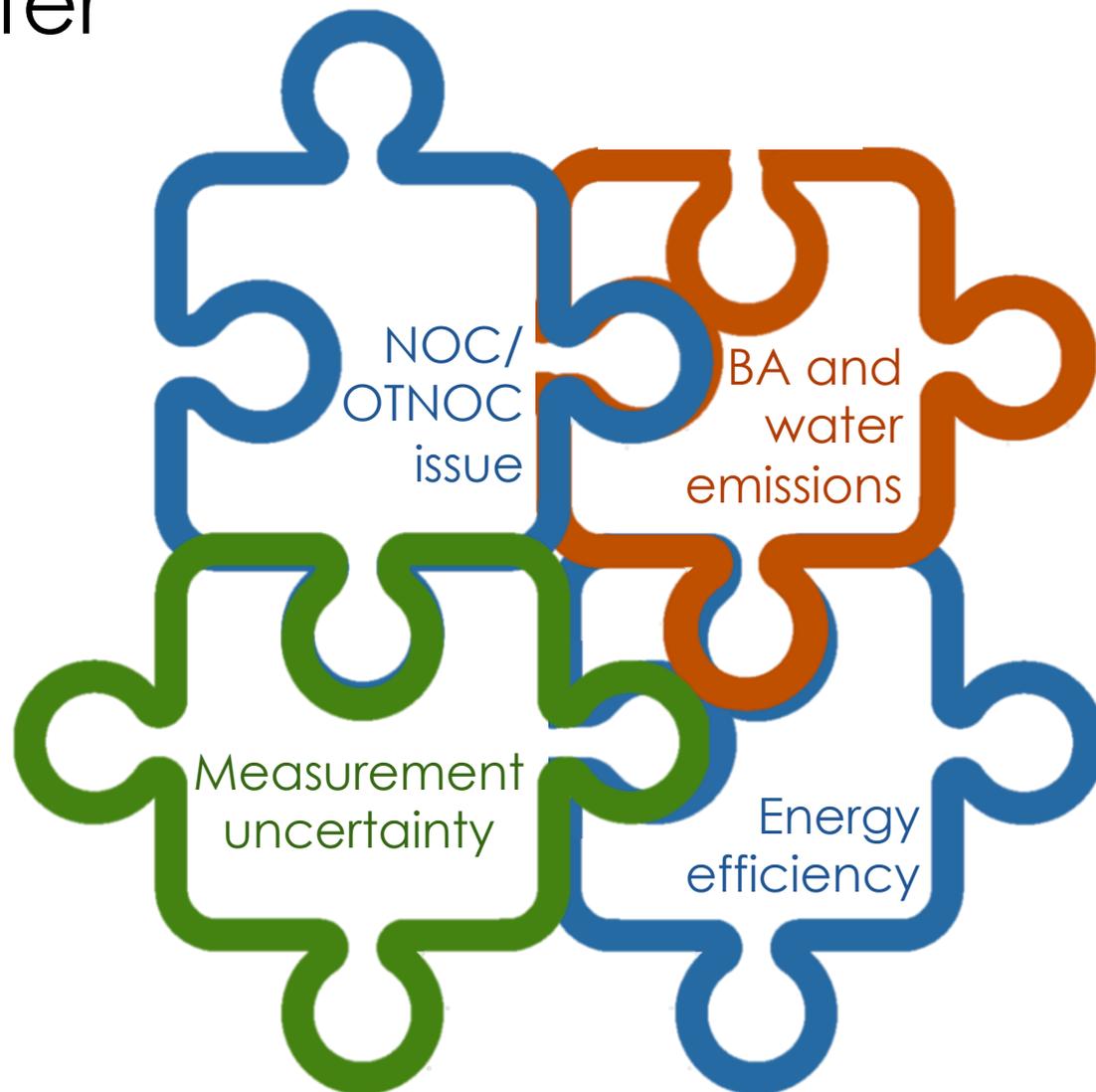


Before...

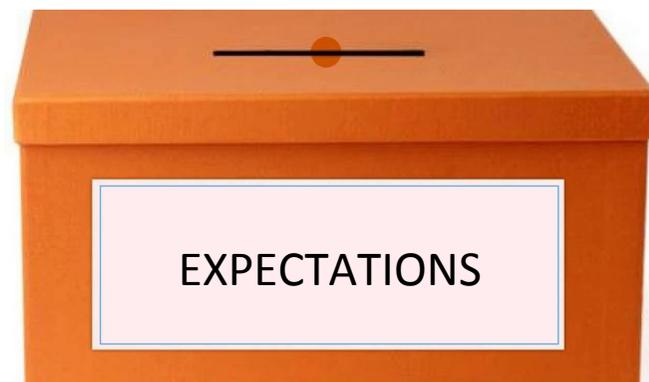
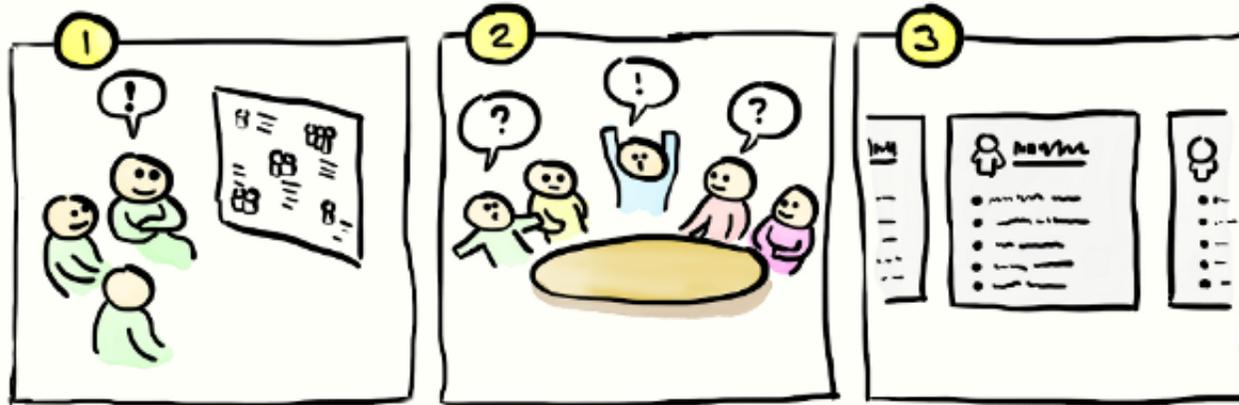


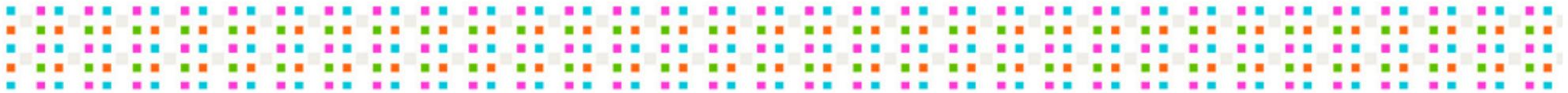


...After



P.S. Expectations





P.P.S. Questions

At the end of every session there will be time for questions. You can ask them directly or use www.sli.do using the hashtag *BREF2019*.

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Every Question Matters.

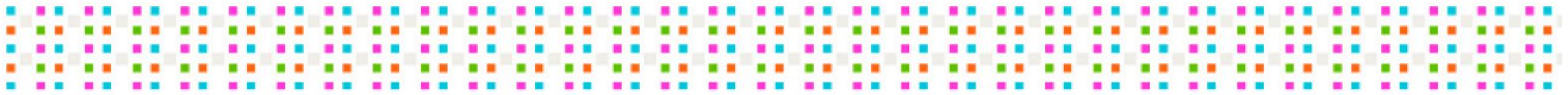
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P.P.P.S. Acronyms and abbreviations

- **IED:** Industrial Emission Directive (2010/75/EU)
- **EIPPCB/JRC:** European IPPC Bureau, part of the Joint Research Center.
- **TWG:** Technical Working Group set up by European Commission to review BREFs
- **BATAELs:** BAT Associated Emission Levels
- **BATAEPLs:** BAT Associated Environmental Performance Levels
- **BATAEELs:** BAT Associated Energy Efficiency Levels
- **ELVs:** Emission Limit Values
- **MSW:** Municipal Solid Waste
- **ONHW:** Other Non Hazardous Waste
- **HW:** Hazardous waste
- **SS:** Sewage sludge
- **NOC:** Normal Operation Conditions
- **OTNOC:** Other Than Normal Operation Conditions
- **EOT:** Effective Operating Time
- **R-EOT:** Relevant EOT (EOT when waste is burning)
- **AMS:** Automated Monitoring System
- **SRM:** Standard Reference Method
- **QAL1:** Quality Assurance Level 1
- **QAL2:** Quality Assurance Level 2
- **AST:** Annual Surveillance Test
- **GUM:** Guidance on Uncertainty Measurements
- **ILC:** Inter Laboratory Comparison
- **DAHS:** Data Acquisition and Handling System





Enjoy the puzzle!

Questions?

