



EELA Stakeholder Forum – EmPowering Efficient Appliances for Greater Livelihoods in EAC and SADC

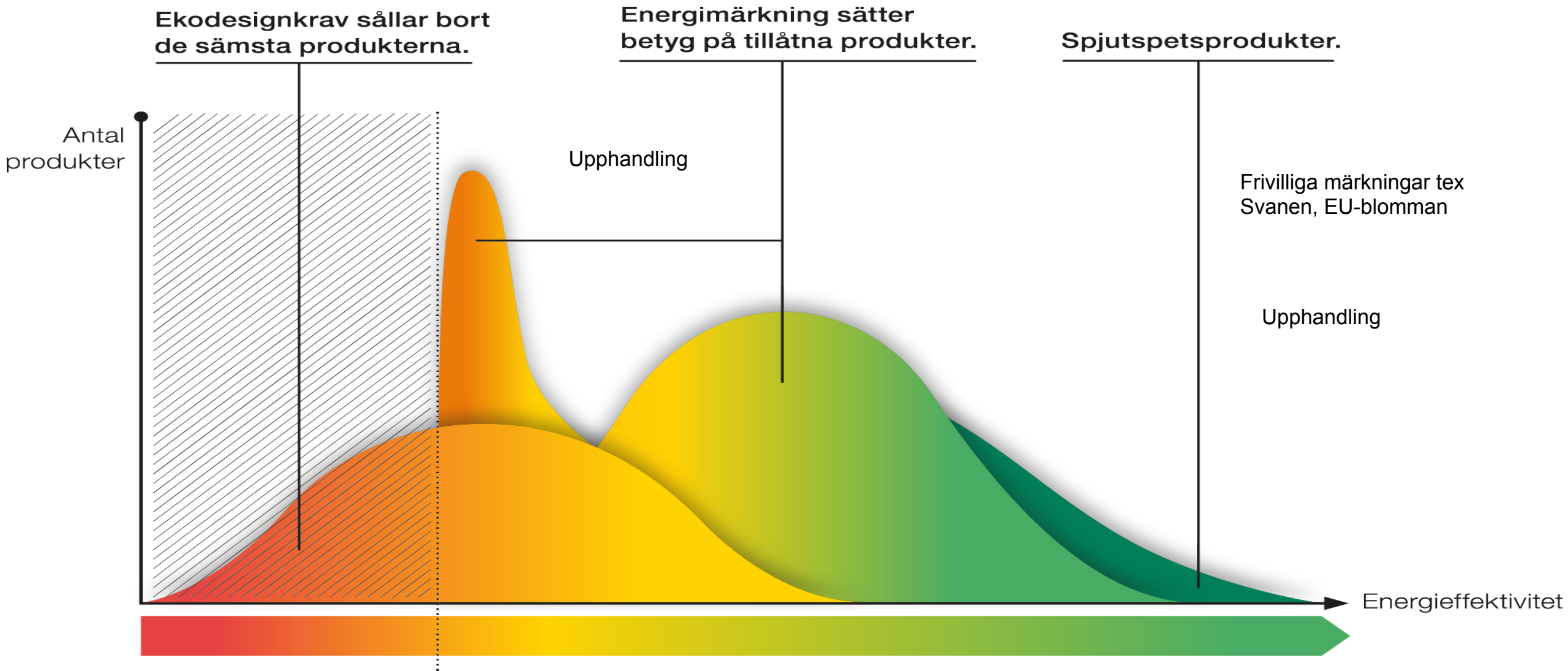
Transforming the market – the need for policies and means to support them

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Peter Bennich, The Swedish Energy Agency



MEPS and Energy labeling are key to transform the market

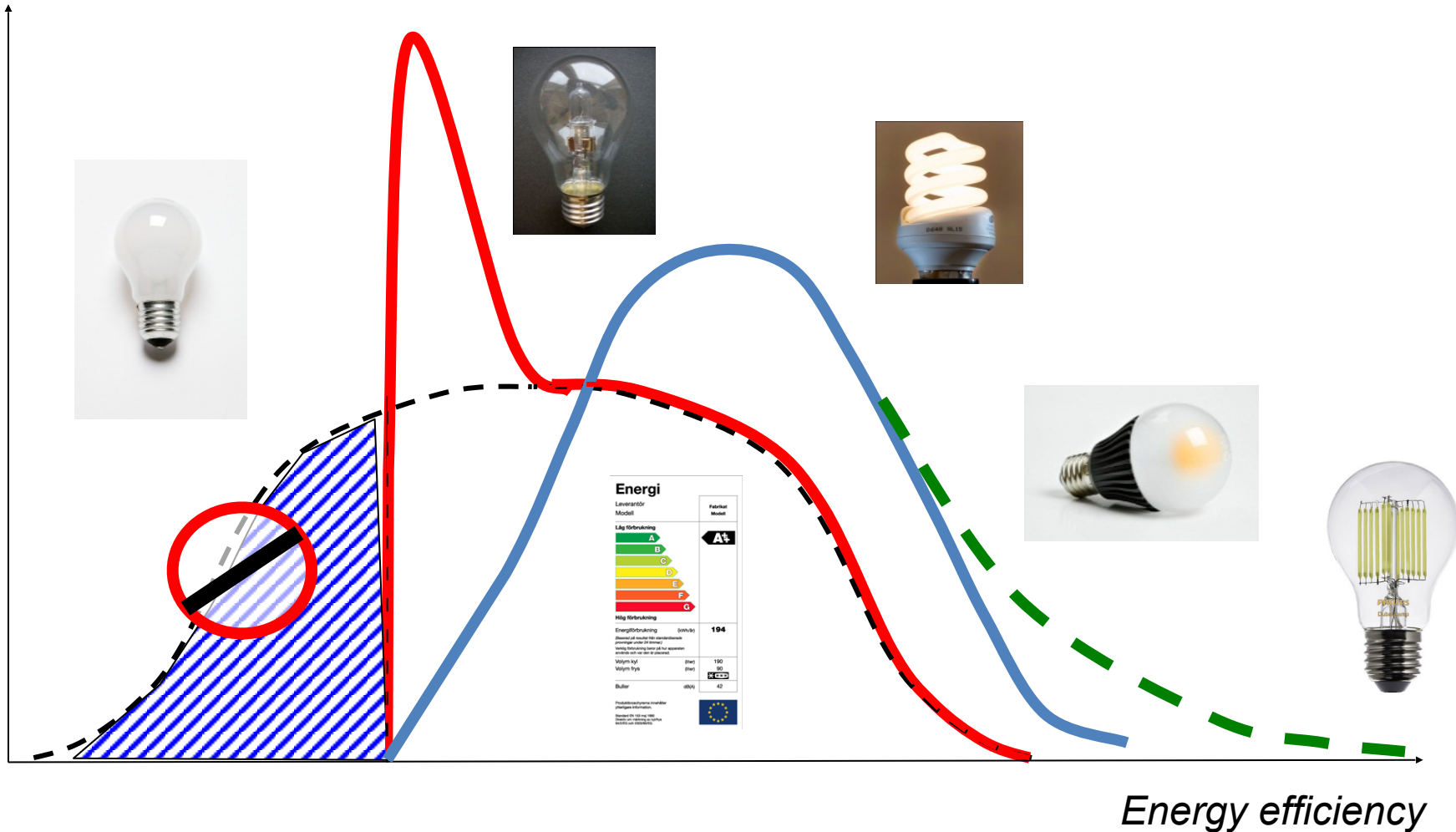


Example: Lighting in EU – snapshot from 2012

Ecodesign (MEPS)

Energy labeling

Green procurement

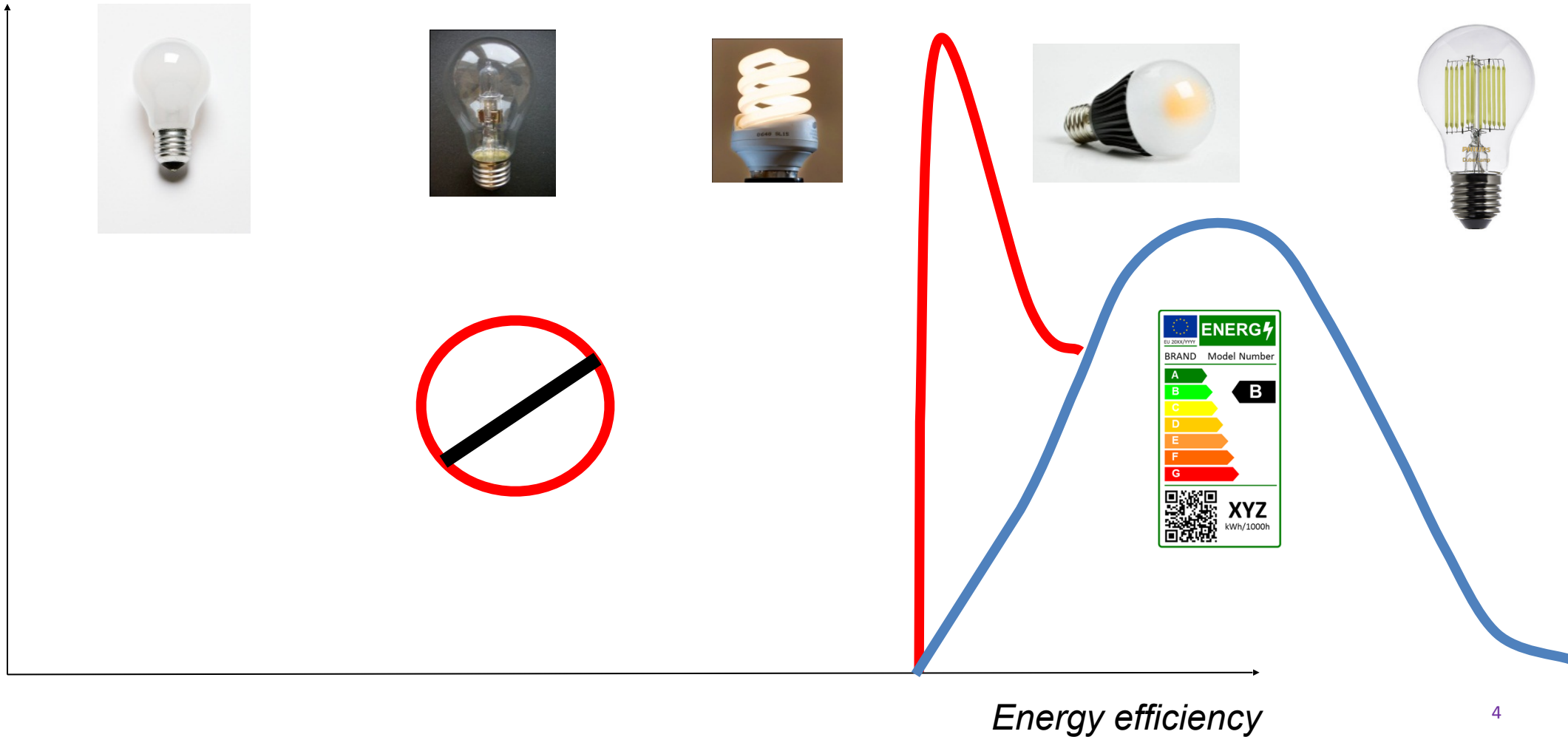


Lighting in EU – snapshot from 1 September 2021

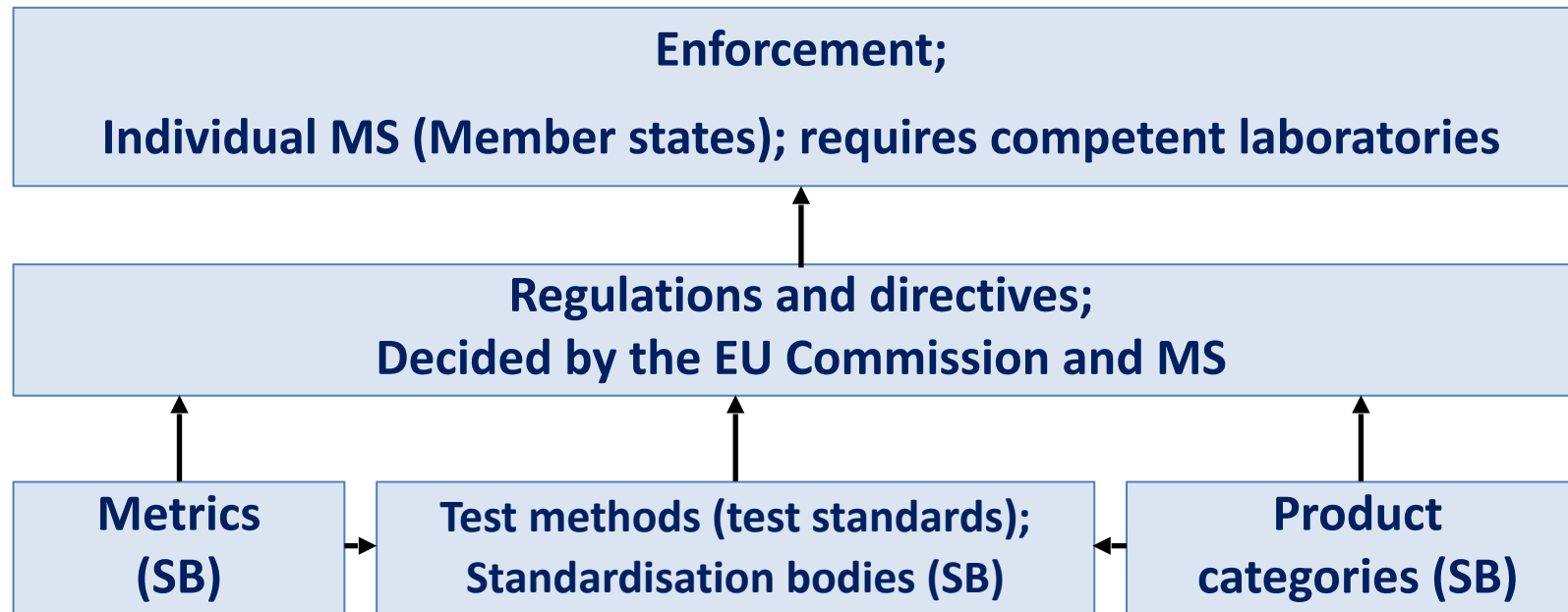
Ecodesign (MEPS)

Energy labeling

Green...->



The Regulations and the enforcement of those relies on sound standards, test methods – and the lab capacity to perform testing

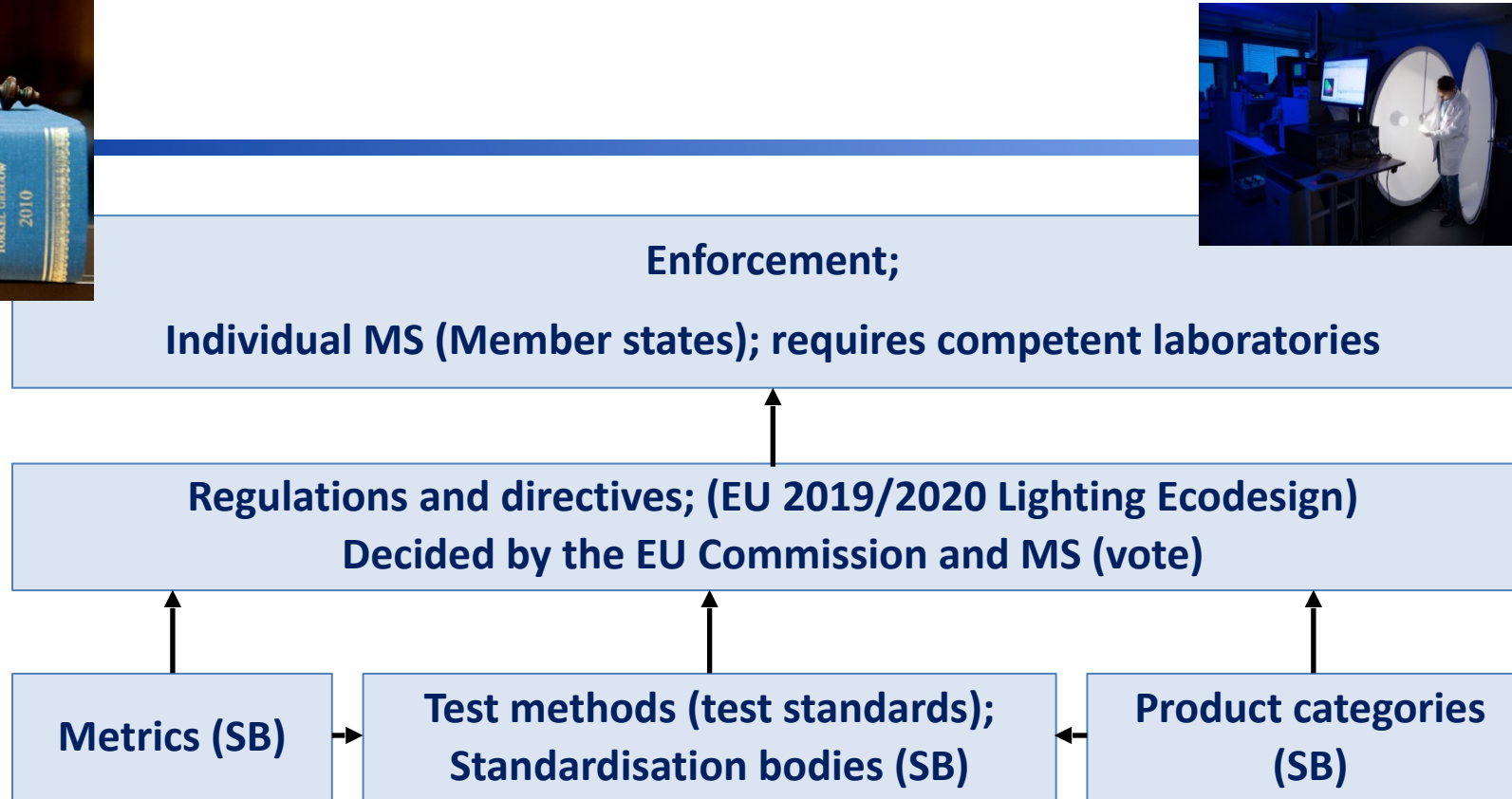


Ex lighting – this is how it is rigged in EU



The EU MEPS
"Ecodesign"

- Watt
- Lumen
- Colour temperature
- ...



Switch it on!



Necessary requisites to get this to work

Capacity building

- On the institutional level – policymakers, testlabs
- On the manufacturer and retailer level – they need to understand the rules
- On the procurer and consumer level – they need to know what to expect

Knowledge of the market – for all stakeholders, not least policymakers

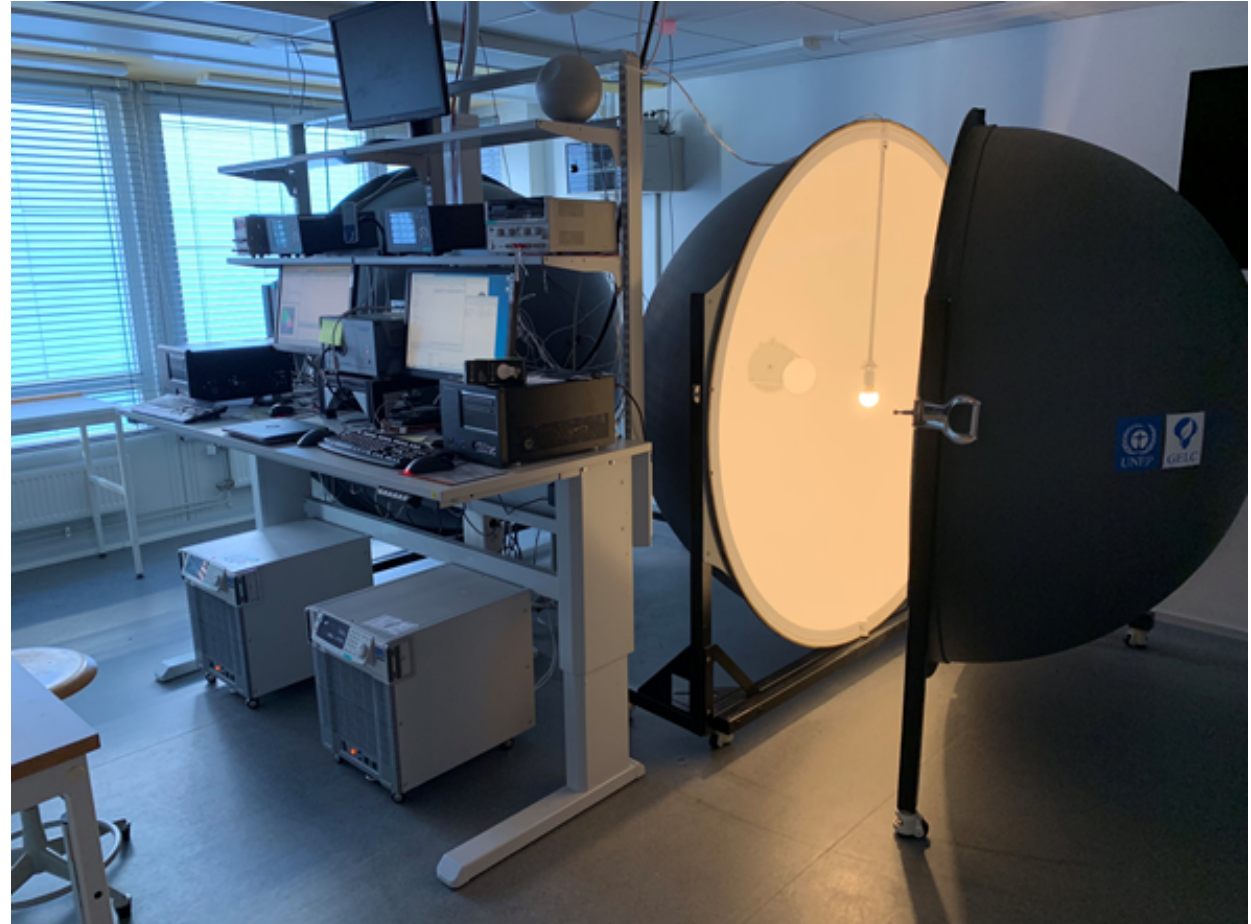
- Through data collection of what products are on the market
 - Physical shops
 - Online sale
 - Customs data on import
- Testing of those products
 - Performance – is it according to the specifications?
 - BAT, BNAT – where are the limits of product performance?
- Time series – how does the market evolve?

Parameters

- Flux (lumen)
- Power (Watt)
- Efficacy (lm/W)

- Colour Temperature
- Colour Rendering
- Flicker (PST, SVM)

- Power factor
- Total Harmonic Distorsion



Near field Goniometer – for additional details

- Flux (lumen)
- Power (Watt)
- Efficacy (lm/W)

- Colour Temperature
- Colour Rendering
- Flicker (PST, SVM)

- Power factor
- Total Harmonic Distorsion
- **Directional Properties (Beam angle)**



Aging of Products

- 400 E27 sockets
- Power quality log
- Dual Timers
- 2.5h on/0.5h off for 3600h EU cycle (samples from EELA also cycled 2019)
- 3 phase 10kW power supply
- Room temperature 25C +/- 15C





**ENERGY
EFFICIENT
LIGHTING
AND APPLIANCES**
in East and Southern Africa

THANK YOU!

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