



Ecodesign and Energy Labelling

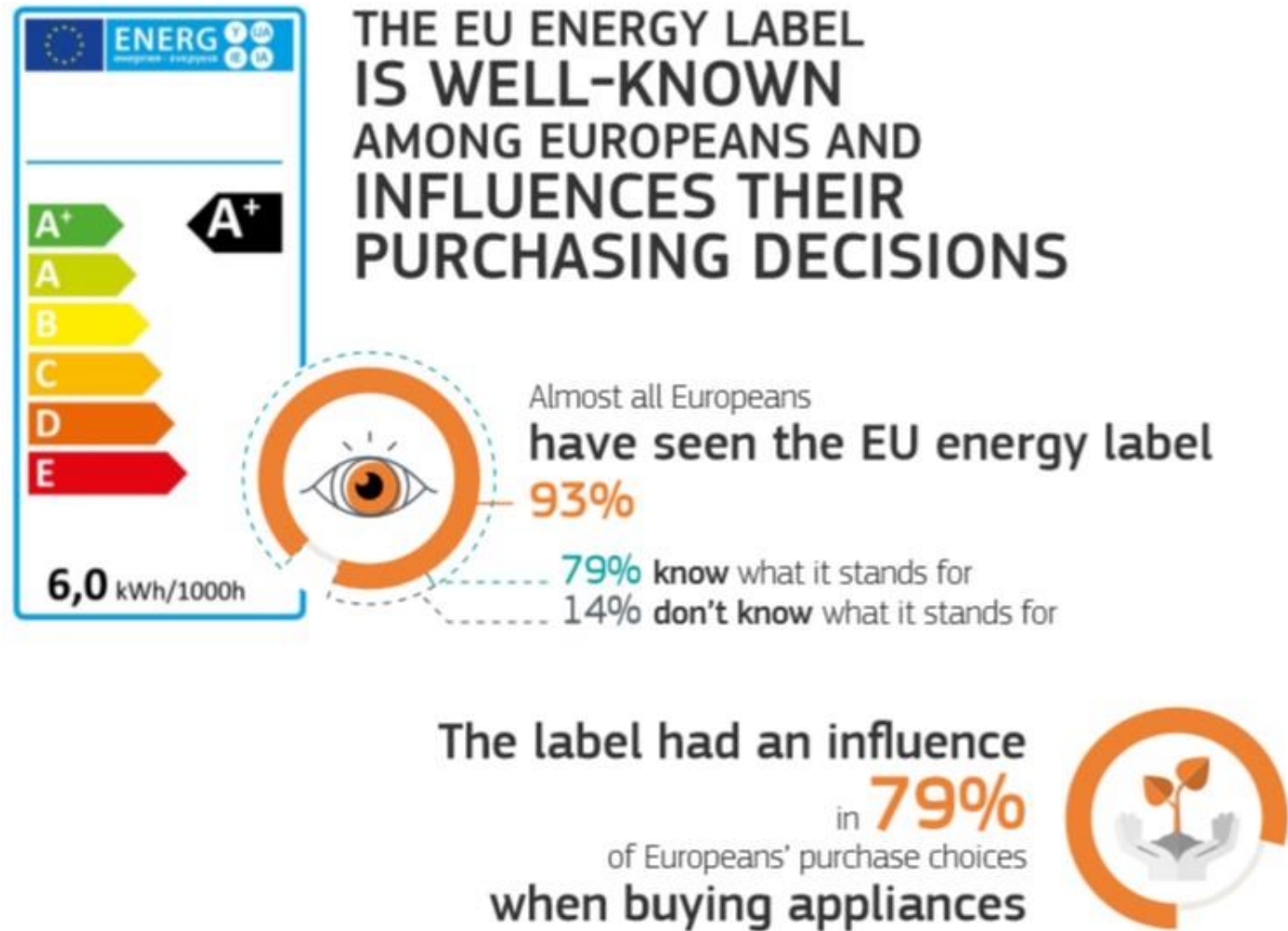
An EU success story



Stamatis Sivitos, Project Advisor

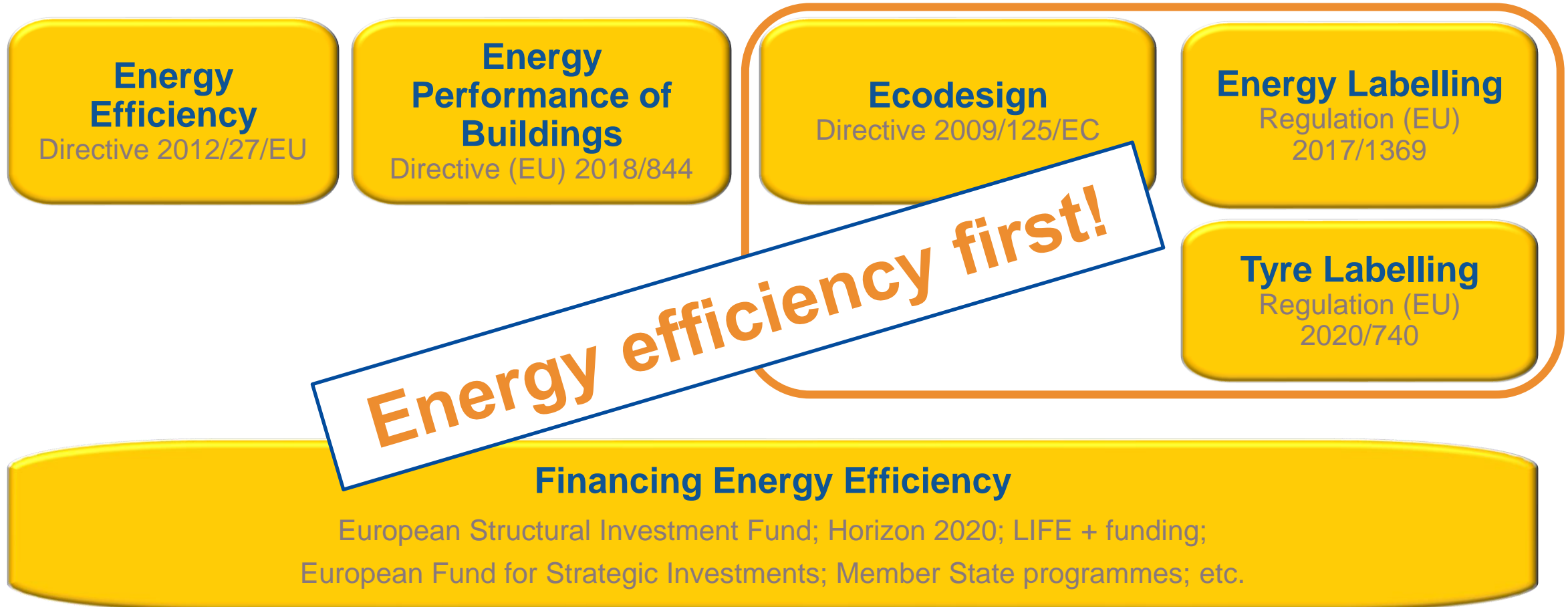
*European Climate, Infrastructure and Environment
Executive Agency (CINEA)*

Probably the most known EU symbol



Source: Eurobarometer 2019

EU Policy Framework for Energy Efficiency



Complementary policies

Ecodesign

Targets **manufacturers**

Sets **minimum requirements**

Over 40 product groups



Energy Labelling

Targets **customers**

Provides **information**

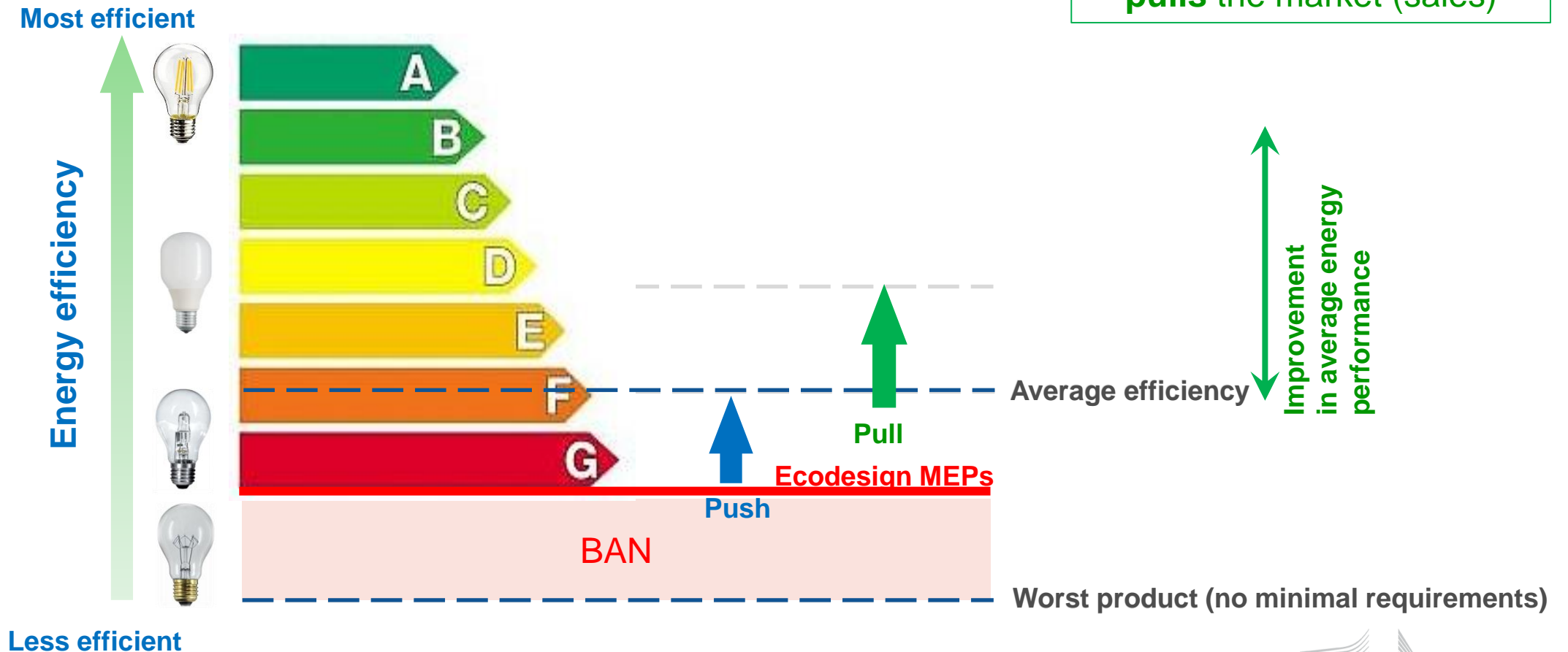
Over 30 product groups



Push and pull combined effect

Ecodesign:
targets **manufacturers**,
pushes the market (models)

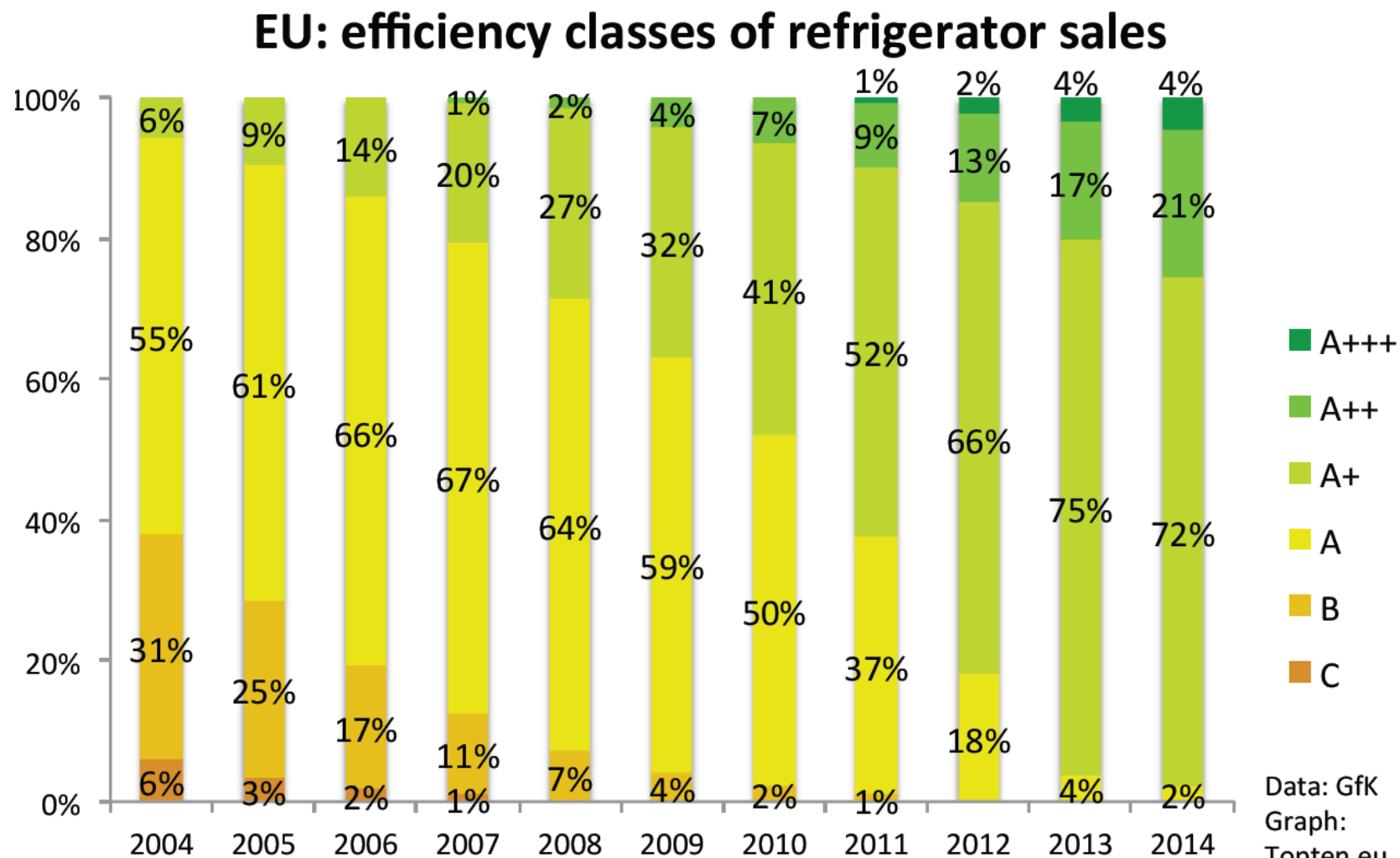
Energy Labelling:
targets **customers**,
pulls the market (sales)



Scope



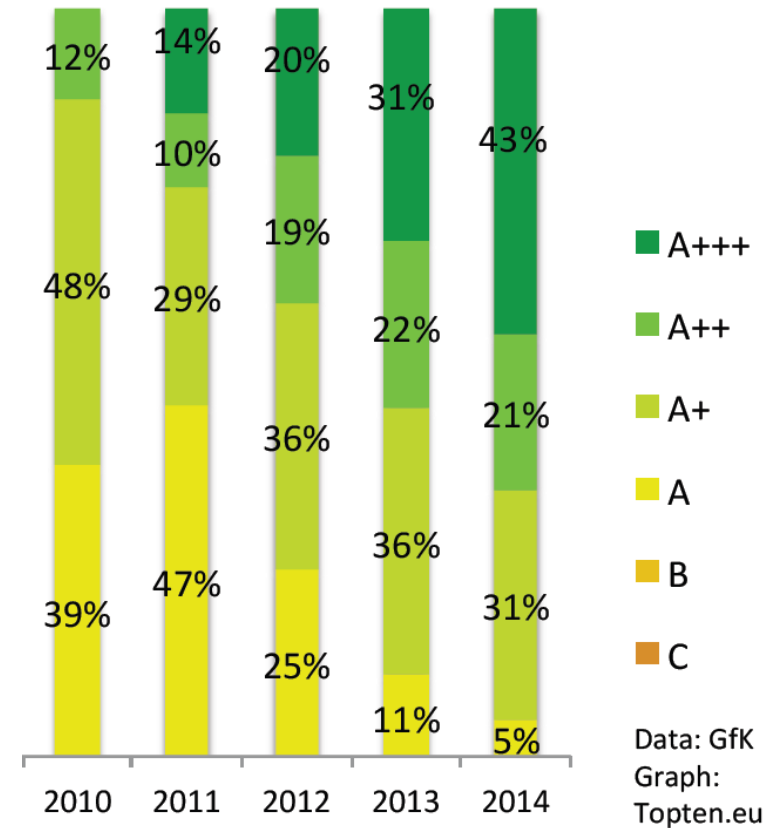
Energy labelling works, but ...



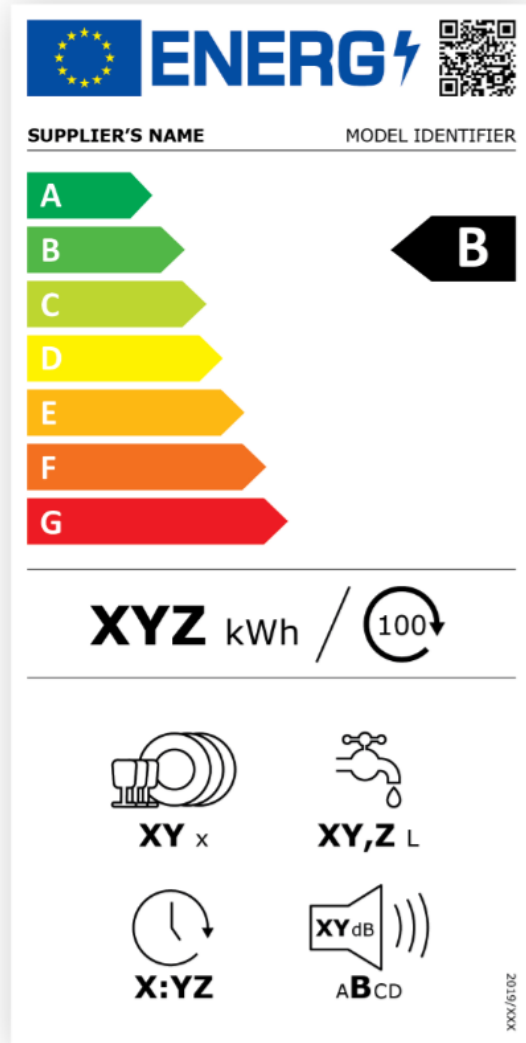
2017 revision of framework

- Label was "victim" of its own success
 - Top classes 'getting full' - >
 - **Reduced effectiveness of '+' classes**
 - Consumers did not know that bottom classes were empty
- Non-compliance
 - 10% less energy savings
 - Weak enforcement by Member States authorities having **poor access to needed documentation**

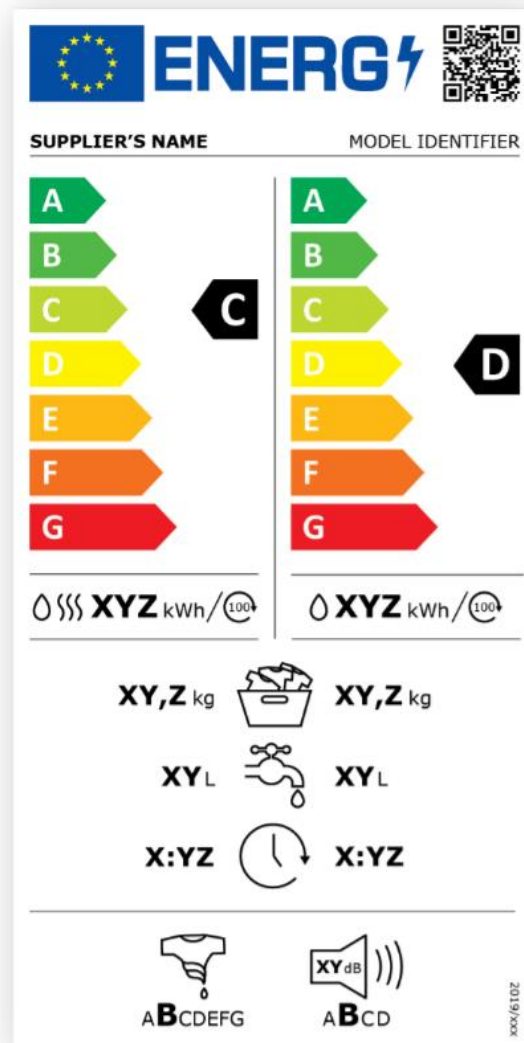
washing machine sales



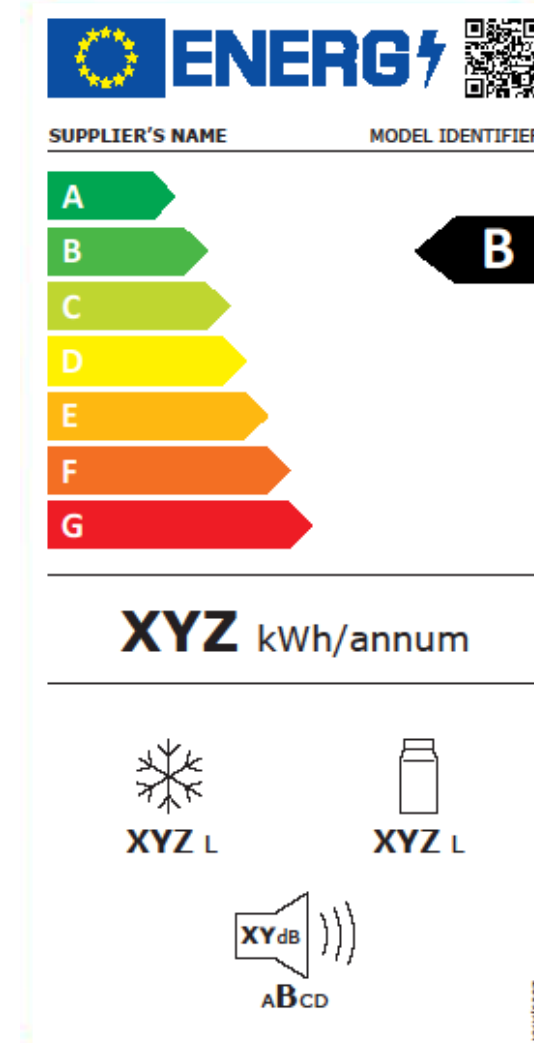
To the rescaling into A-G



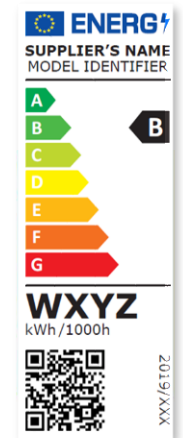
Dishwashers



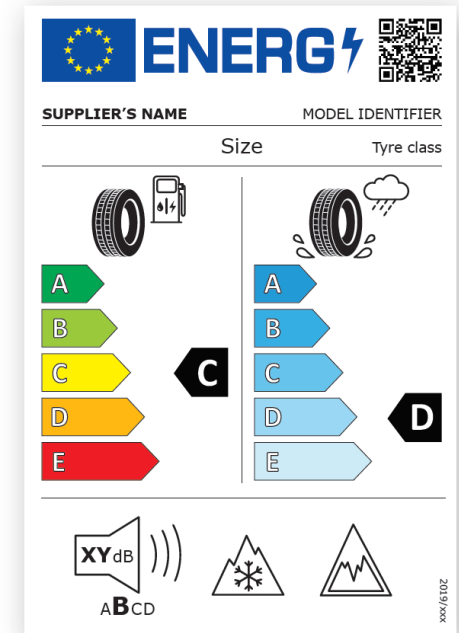
Washer-Driers



Domestic refrigerators



Light sources



Tyres

EPREL - European Product Registry for Energy Labelling



Dishwashers



Washing machines



Washer-dryers



Televisions, monitors and other displays



Fridges, freezers and wine storage



Fridges and freezers with sales function, beverage coolers and ice cream freezers



Tyres



Light sources



Air conditioners



Domestic ovens



Range hoods



Local space heaters



Professional refrigerated storage cabinets



Solid fuel boilers



Packages of a solid fuel boilers



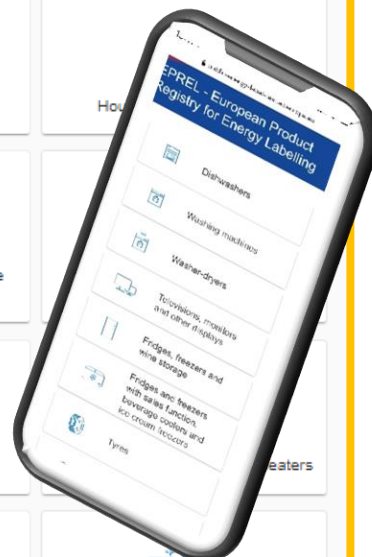
Packages of space heaters/combination heaters



Temperature controls for space heaters



Solar devices for space heaters



EPREL

Legal basis: framework
**Labelling Regulation
(EU) 2017/1369**

Since 1 January 2019
suppliers must register
each product model
prior to placing them on
the EU market

About **1.5 million**
registered product
models from 30 product
groups

Since 1 April 2022
consumers/procurers
have **access to the
public information**

The only database
where all models on
the EU market are
(should be) found



EPREL features (current and upcoming)

- Search, select, sort (compare?)
- Labels and PDFs (language-neutral / multilingual)
- Distribution per class (taxonomy et al.)
- Plausibility checks (better trust info)
- Report (non-compliant/missing models)
- APIs, bulk downloads (provide services, e.g. H2020 Label 2020)
- Digital certificates (supplier verification, trust info source)
- Alternative search/list/sort result-views

Distribution of the selected 3 062 models out of a total of 23 951 models

Cavity #1 3 062 models			Cavity #2 3 014 models			Cavity #3 16 models		
Class	Entries	%	Class	Entries	%	Class	Entries	%
A+++	0	0,0	A+++	0	0,0	A+++	0	0,0
A++	0	0,0	A++	0	0,0	A++	0	0,0
A+	230	7,5	A+	415	13,8	A+	0	0,0
A	2 766	90,3	A	2 418	80,2	A	14	87,5
B	65	2,1	B	181	6,0	B	0	0,0
C	0	0,0	C	0	0,0	C	2	12,5
D	1	0,0	D	0	0,0	D	0	0,0

10:34 4G

eprel.ec.europa.eu

Sort by

Fuel efficiency class ↓

Wet grip class ↓

External rolling noise level ↓

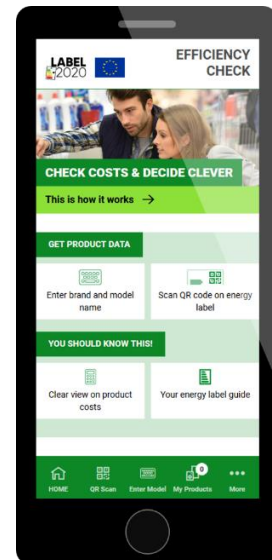
Models distribution by performance class

REGULATION (EU) 2020/740 on the labelling of tyres with respect to fuel efficiency and other parameters

Distribution of the selected 164 286 models out of a total of 164 185 models

Fuel efficiency class

Class	Entries	%
A	2 375	1,4
B	9 347	5,7
C	66 199	40,3
D	78 047	47,5
E	8 318	5,1

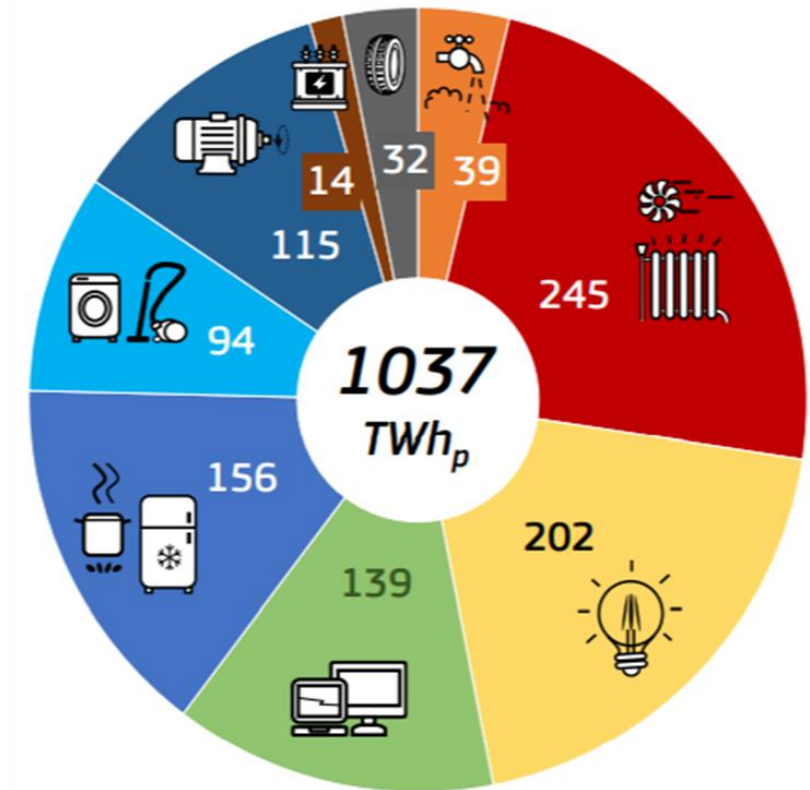


Ecodesign & Energy Labelling impacts

Impacts estimates (2020 vs BaU)

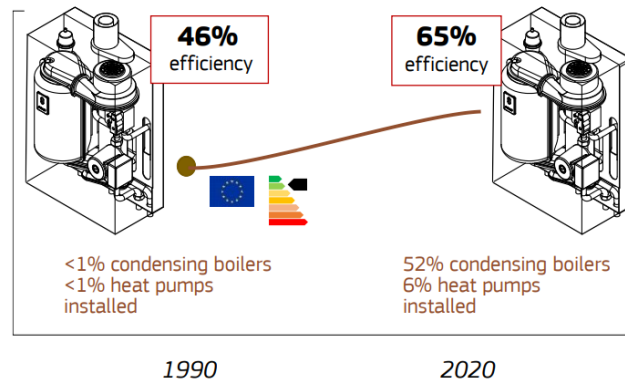
- **1037TWh** primary energy \cong 7% of total EU 27 primary energy demand
- Electricity: ca. **1000 kWh**/household (27%) \cong total EU wind production
- **€60 billion/y** in consumer expenditure (€ 210/household) based on pre-2021 energy price estimates
- Additional **business revenue 21 billion** euros and related **jobs increase by 324 thousand**

Energy savings 2020

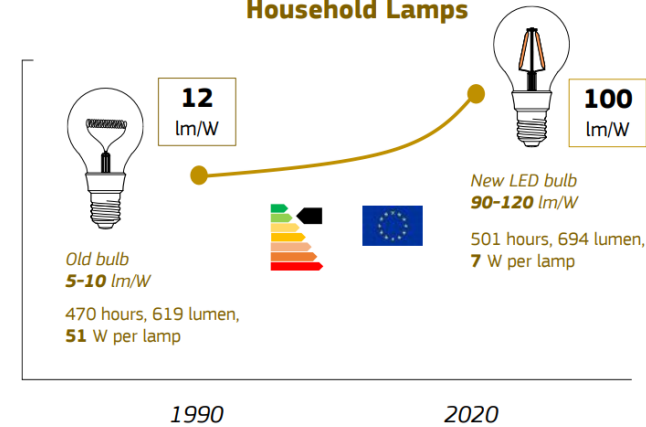


Ecodesign & Energy Labelling – examples

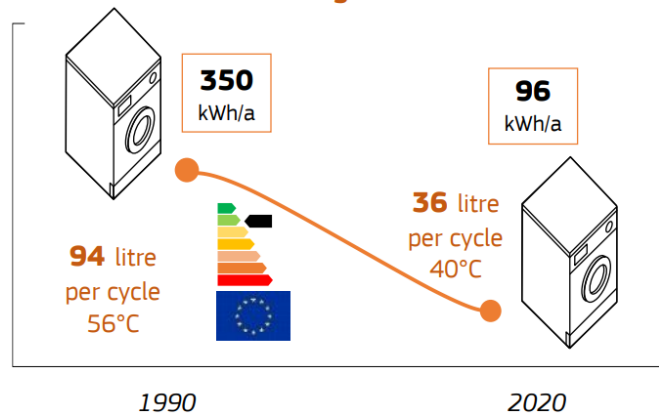
Hydronic central space heaters < 400 kW
(excl. solid fuel)



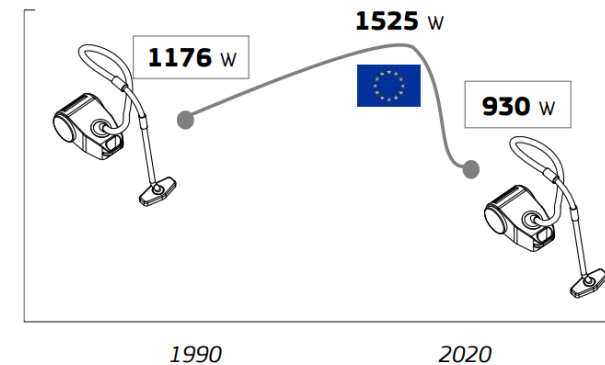
Household Lamps



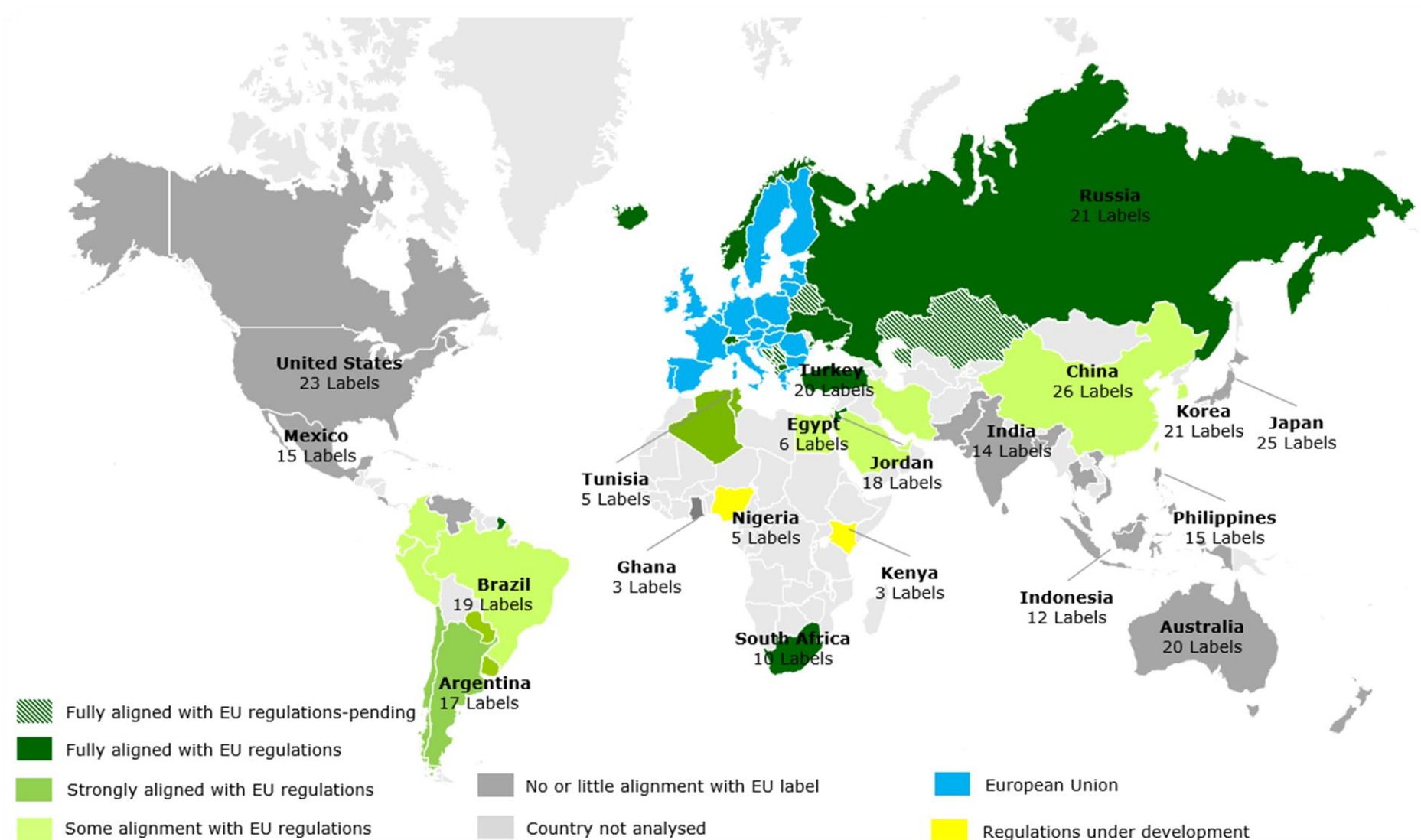
Washing Machine



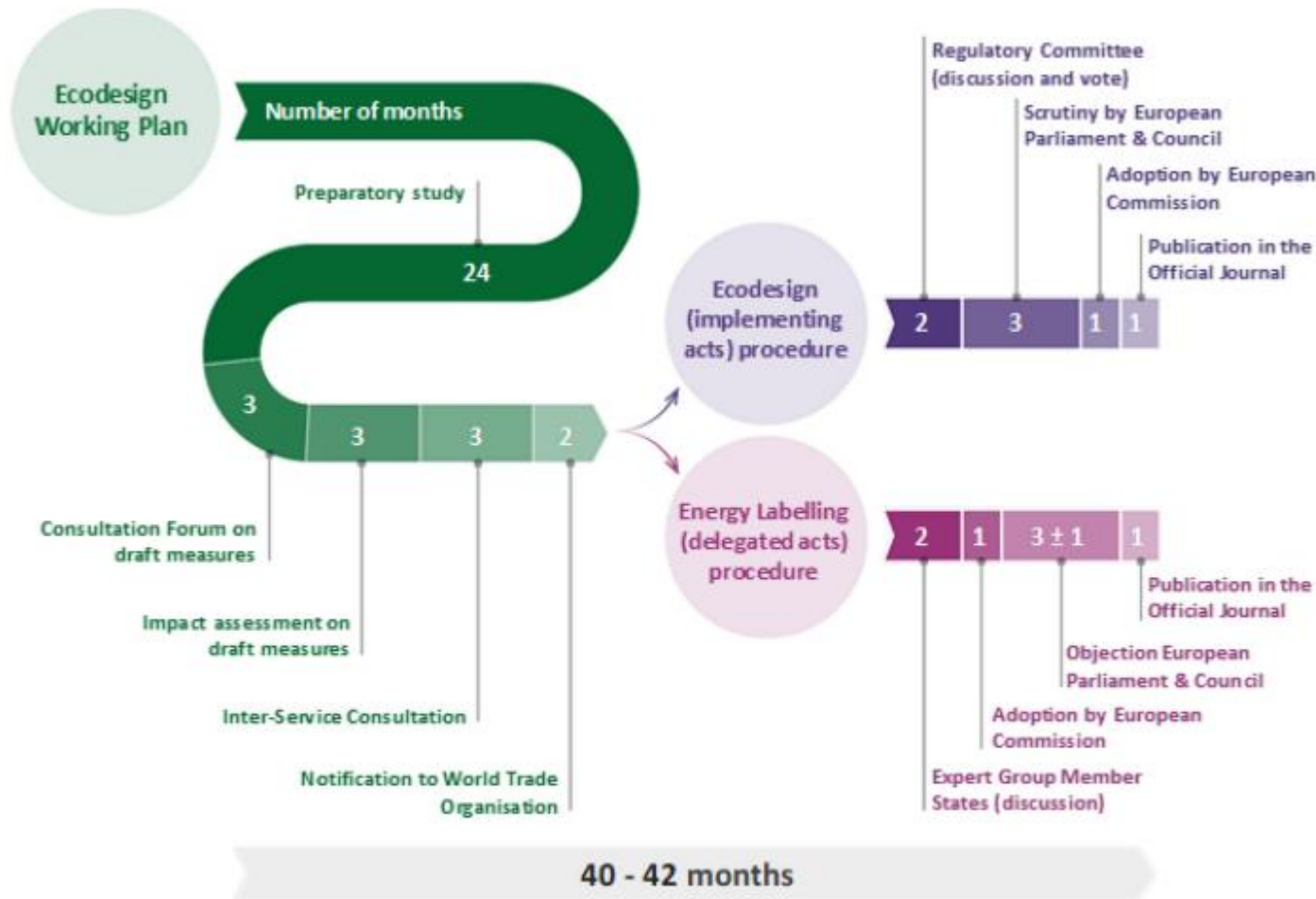
Vacuum Cleaner



International impact



Legislative process



Source: ECA, based on information from the European Commission.

Source: European Court of Auditors, Special report, EU action on Ecodesign and Energy Labelling: important contribution to greater energy efficiency reduced by significant delays and non-compliance, 2020, ISBN 978-92-847-4104-5

- Studies and proposals with open consultations
- Consultation forum with industry and trade organisation, civil society (environmental and consumer NGOs) and Member States (MS)
- Committee/Expert group with member states (27)

Thank you

Technical questions: ENER-EPREL-HELPDESK@ec.europa.eu

Policy-related questions: ENER-ENERGY-LABELLING@ec.europa.eu



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