



Toolkit

Did it work? Monitoring and evaluating

Session 10

Charles Michaelis, Strategy Development Solutions – Pretoria, 16 October 2019

 #energyefficientworld

Overview of the appliance and equipment training sessions

Monday 14 October 2019		
0	Introduction and roundtable	<input checked="" type="checkbox"/>
1	Planning energy efficiency programmes	<input checked="" type="checkbox"/>
2	Selecting products for MEPS and Labelling programmes	<input checked="" type="checkbox"/>
Tuesday 15 October 2019		
3	Assessing efficiency performance and setting MEPS	<input checked="" type="checkbox"/>
	Special - Regional harmonisation	<input checked="" type="checkbox"/>
4	Industry transformation	<input checked="" type="checkbox"/>
5	Stakeholder involvement and communication	<input checked="" type="checkbox"/>
6	The relationship between product efficiency and price	<input checked="" type="checkbox"/>
7	Modernising energy efficiency through digitalisation	<input checked="" type="checkbox"/>
Wednesday 16 October 2019		
8	Insights into energy labels	<input checked="" type="checkbox"/>
9	Monitoring, verification and enforcement	<input checked="" type="checkbox"/>
10	Evaluating policies and programmes	<input type="checkbox"/>
	Special - Available resources U4E	<input type="checkbox"/>
11	Roundtable discussion, review and report back	<input type="checkbox"/>

What is evaluation?

Evaluation is an **objective** process of understanding **how** a policy or programme was implemented, **what** effects it had, for whom and **why**.

Leads to **more effective** policies and programmes

What are indicators

Indicators are clues, signs or markers that describe **observable** changes or events which relate to a programme or policy and show how close a programme or policy is to its desired path and outcomes.

Indicators provide the **evidence** that something has happened – e.g. an output delivered, an immediate effect occurred or a long-term change observed.

Purpose of evaluation

- What we have achieved



- How we can improve



Different questions for different needs

Impact, what did we achieve?



- Regulators
- NGOs and public

Process, how did it go?



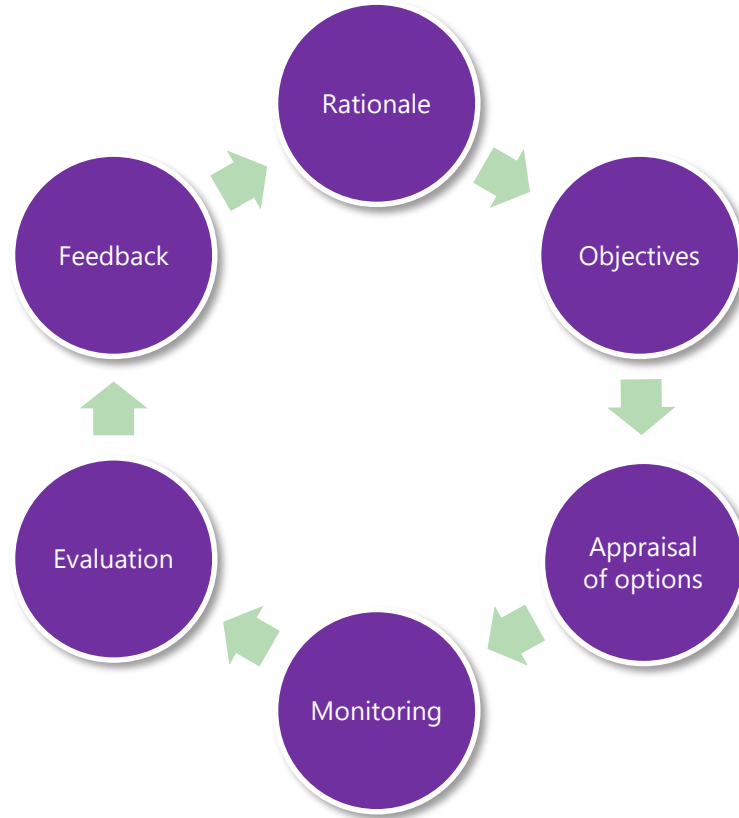
- Programme managers
- Partners

Economic, did we get value for money?



- Funders
- Treasury

Indicators and evaluation in the policy making process



Group exercise

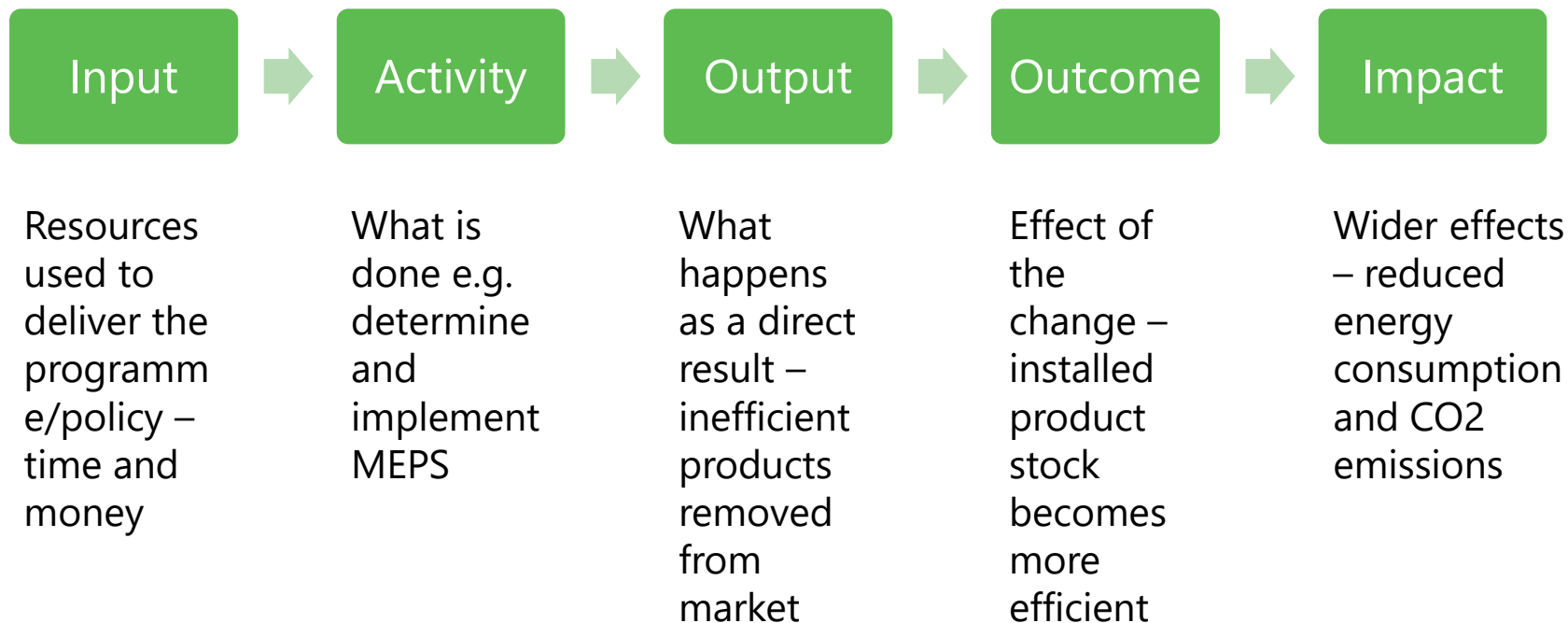
As a group, list the reasons why indicators and evaluation are important?



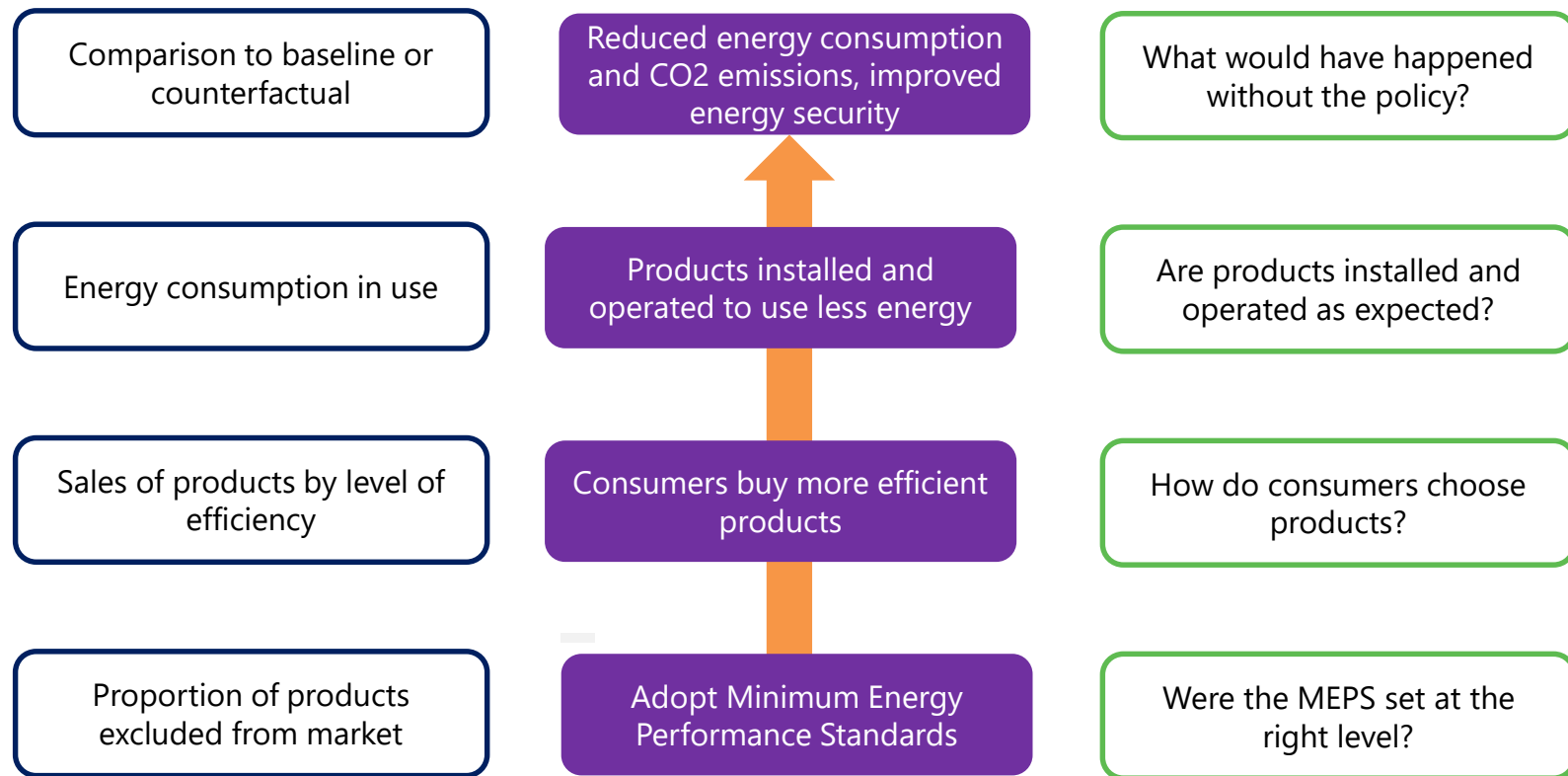
Theory of change

- Forms the basis of monitoring and evaluation
- Should be developed alongside policy/programme design
- Participative process
- Refine in the light of evidence

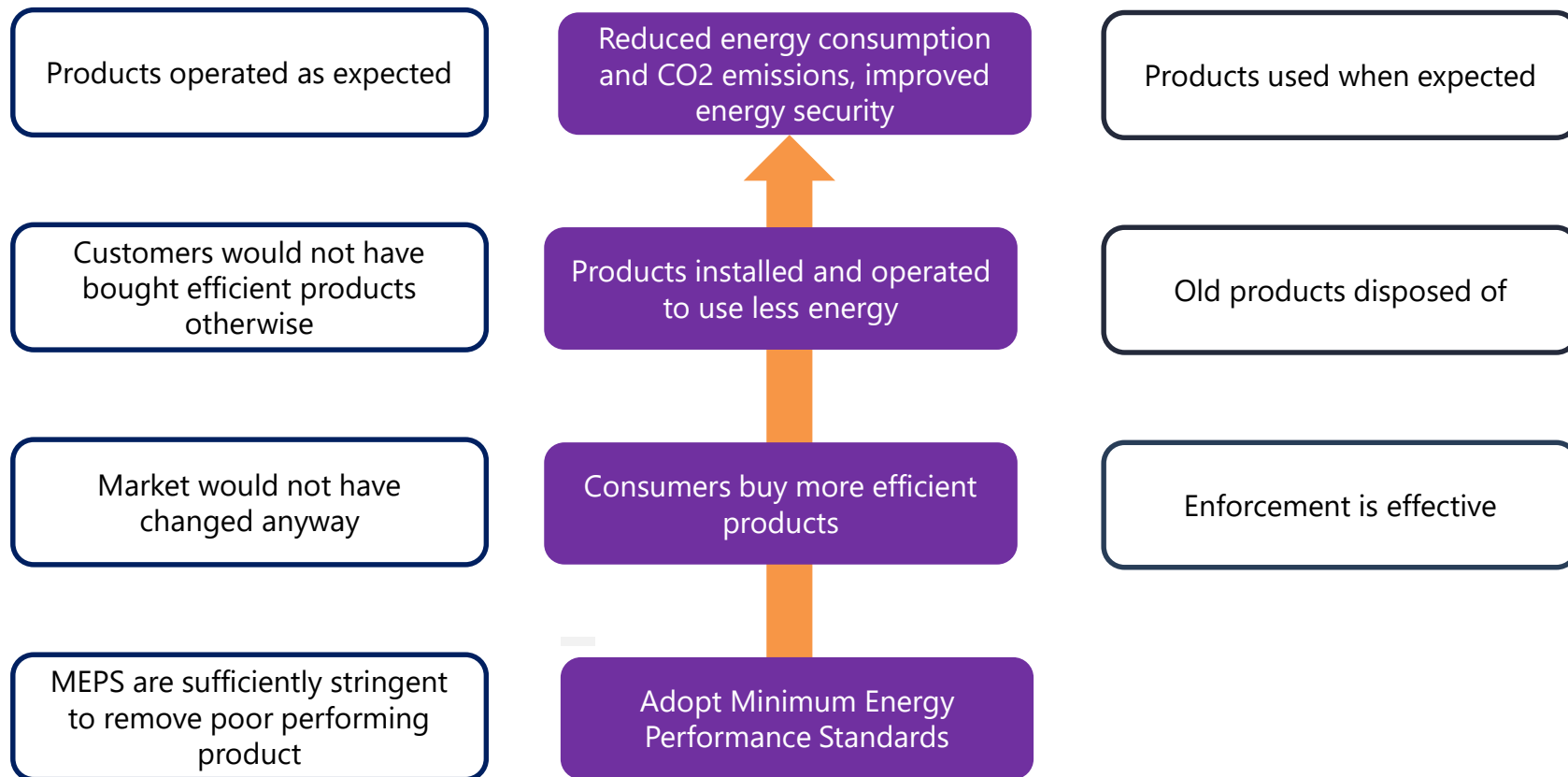
Generic theory of change



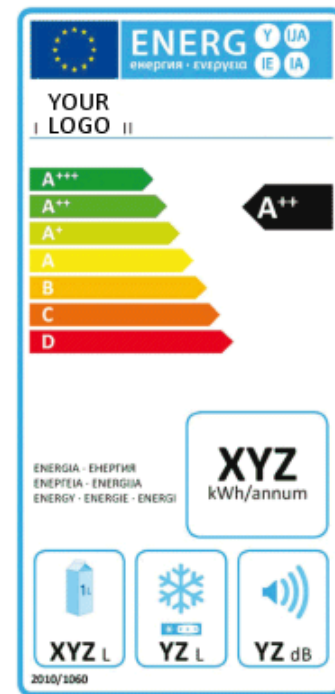
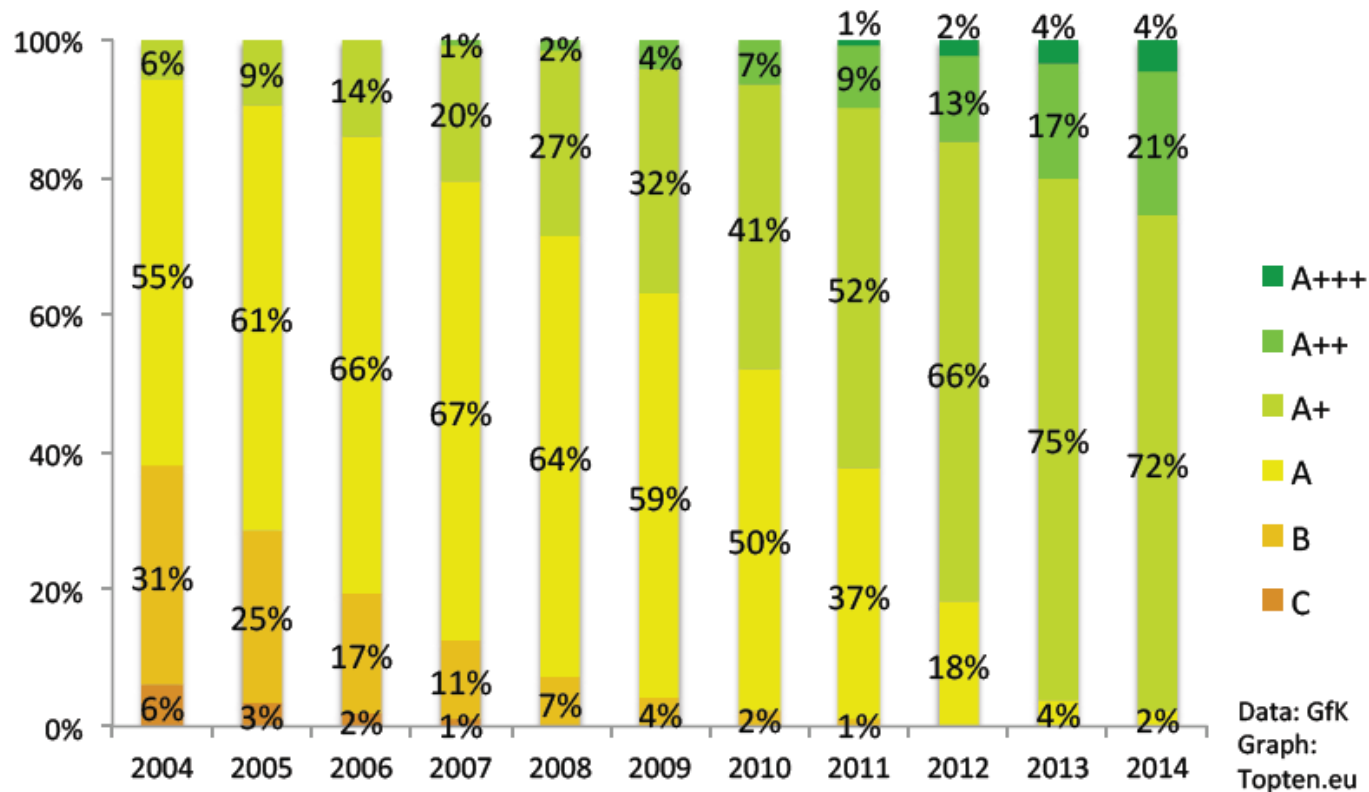
Example indicators and evaluation questions for MEPS



Evaluation should test assumptions

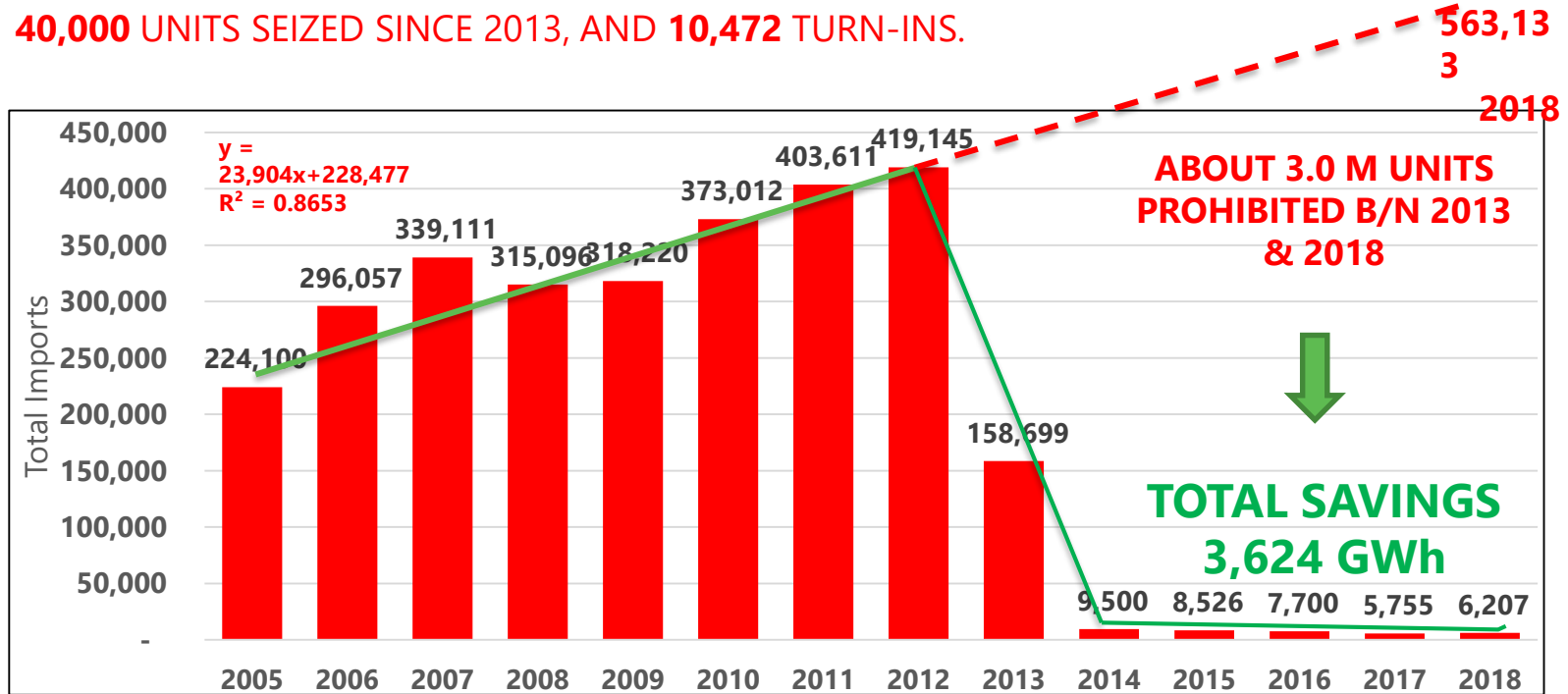


Example indicator: EU Energy Label and Refrigerator Sales



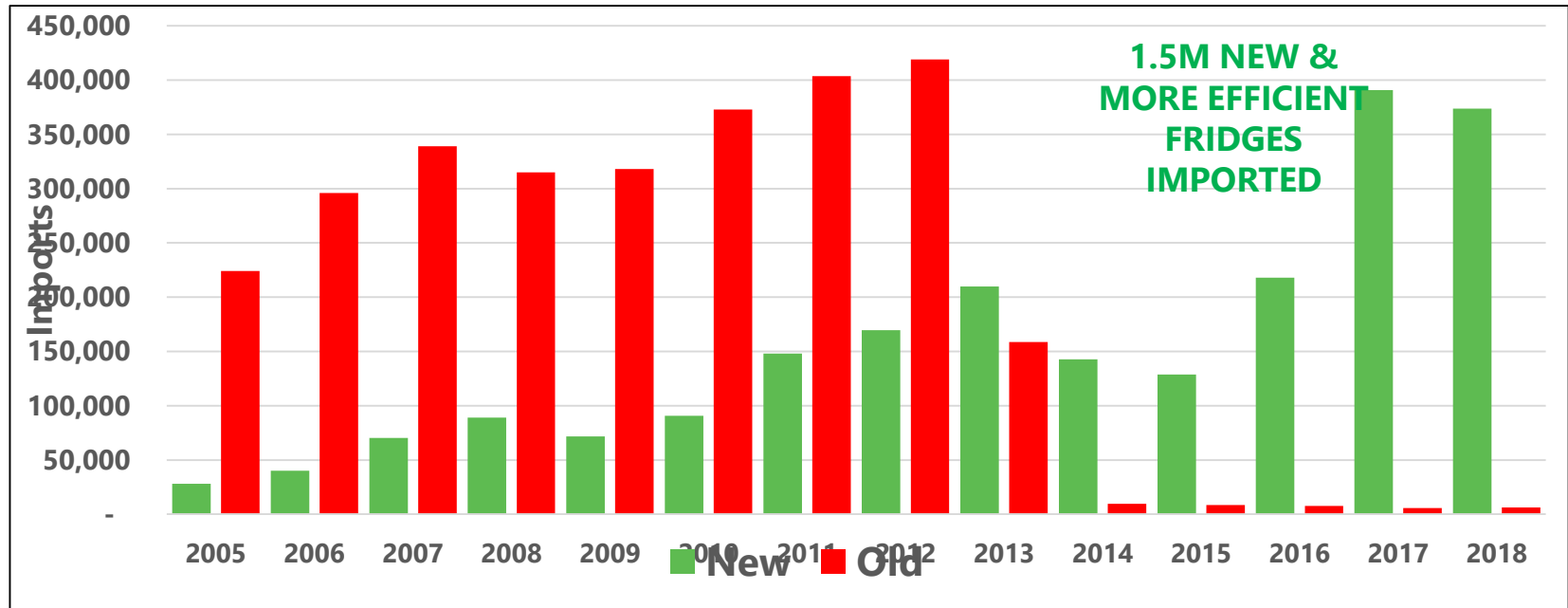
- ABOUT **2,884,863** USED FRIDGES IMPORTED SINCE 2005.

- 40,000** UNITS SEIZED SINCE 2013, AND **10,472** TURN-INS.

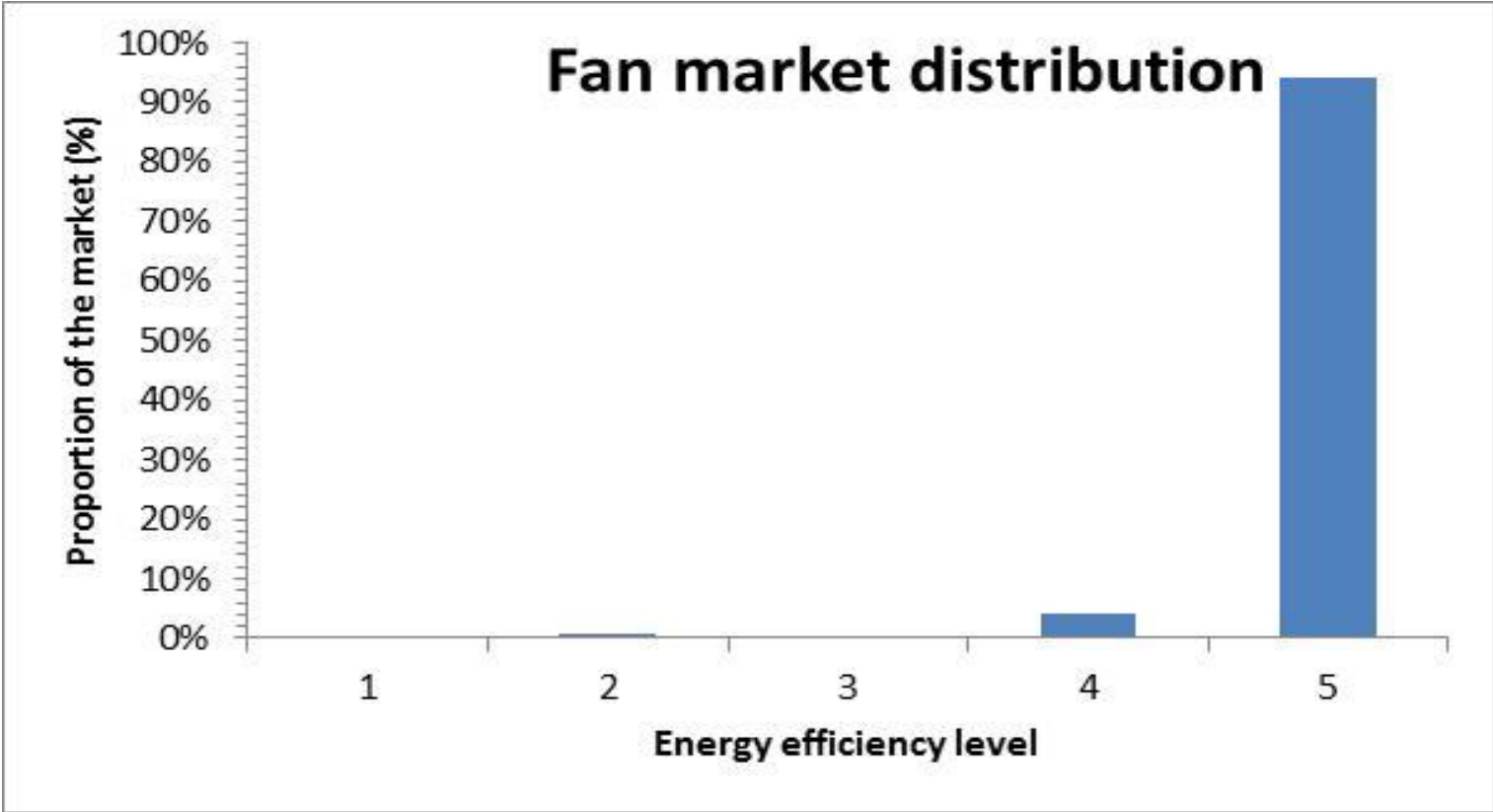


Trends in New Versus Used Refrigerator Imports (2005 – 2018)

- Drastic reduction in used fridge imports from 2013 due to the enforcement of LI. 1932 and increase in the imports of the new fridges (LI. 1958).
- 8/N 2013 & 2018, NEW FRIDGES WOULD HAVE CONSUMED 489GWh instead of 1,757gwh, resulting in a saving of 1,268gwh.



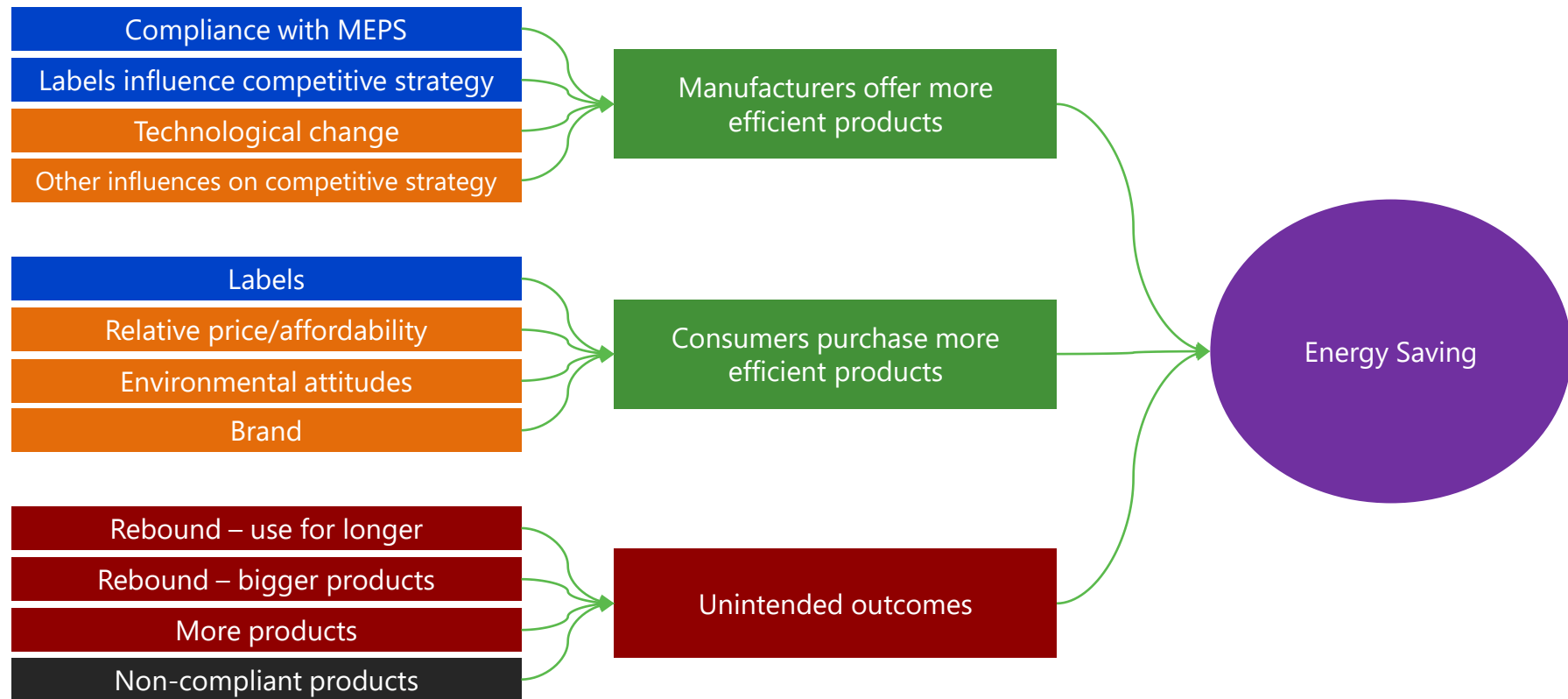
Example evidence



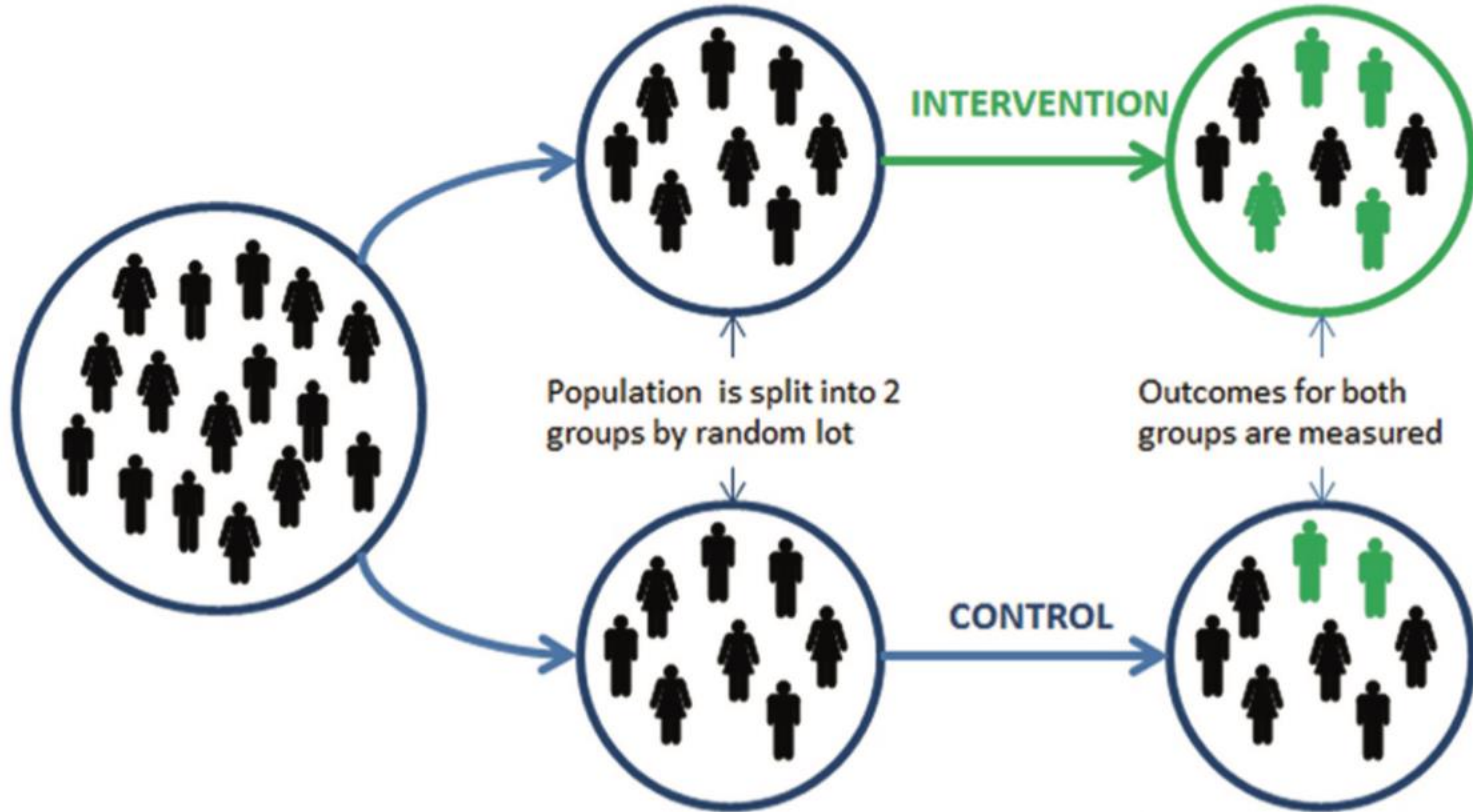
Did it work?

- Are appliances and lighting using less energy?
 - In total?
 - Than they would have done without the policy?
- Is it because of the standards and labelling policy?
 - How and in what circumstances is the policy making a difference?
- Could more energy be saved?
- What are the distributional effects?
 - Who pays and who benefits?

Change isn't just caused by the policy

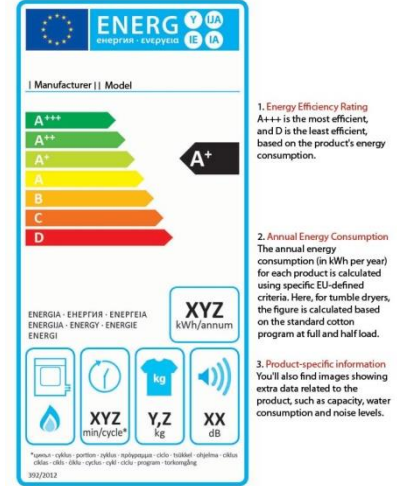


Estimating the effect of energy labels – randomised control trial



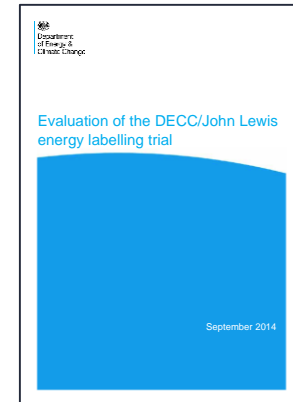
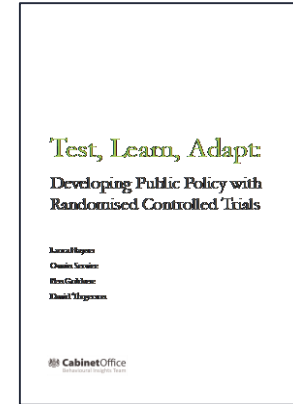
Example – randomised control trial

- Test the inclusion of costs on energy label + staff training
- UK Government + John Lewis department store
- Trial group of stores compared to control group
- Small difference for washer dryers, no difference for other products



Randomised control trial

- Strengths
 - “Prove” effect of policy
 - In the circumstances of the test (when, where)
 - For the indicator being measured
- Weaknesses
 - Doesn't tell you why the policy worked/doesn't work
 - Doesn't tell you if the policy will work in other circumstances
 - Challenging to design and implement



Estimating the effect of energy labels – theory based

- In theory, labels reduce energy consumption because:
 - Consumers have a reliable way of choosing energy efficient products
 - Manufacturers are motivated to produce more energy efficient products
- Theory based evaluation tests:
 - Whether the policy was implemented as intended
 - Whether there is evidence to support the theory
 - What else might explain what has happened
- Contribution analysis assesses the contribution to the change made by:
 - The policy
 - Alternative explanations
- Assess plausibility with a diverse range of stakeholders

Example of theory based evaluation

- Vietnam Energy Efficiency Labels
 - Implemented for a range of products in 2014
 - Survey of manufacturers found that labels had a:
 - Significant influence on manufacturers of air conditioning and refrigerators
 - Moderate influence on manufacturers of fans, rice cookers and lighting
 - No influence on manufacturers of washing machines and televisions
 - Survey of consumers found that labels influenced 85% of purchases to some extent



Summary

- Indicators and evaluation are key to delivering a successful policy
- Use theory of change to identify indicators and evaluation questions
- Consider what else might cause changes
- Design evaluation to test whether your policy has made a difference
- Consider who pays and who benefits to ensure fairness

