



Africa Energy Efficiency Policy in Emerging Economies Training Week

Indicators and Evaluation

Nairobi
18-22 March 2024





Review – what did we learn yesterday?

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March 19 2024

Nairobi

1. Jot down anything you can remember from yesterday - even if it's just words or phrases, write these down (2 mins)
2. Working in pairs (5 mins)
 - Find out what your partner learned
 - Is there anything you're not sure about or would like to recap on
3. Update your notes
4. One pair from each table will share with the room
5. Anything missing?



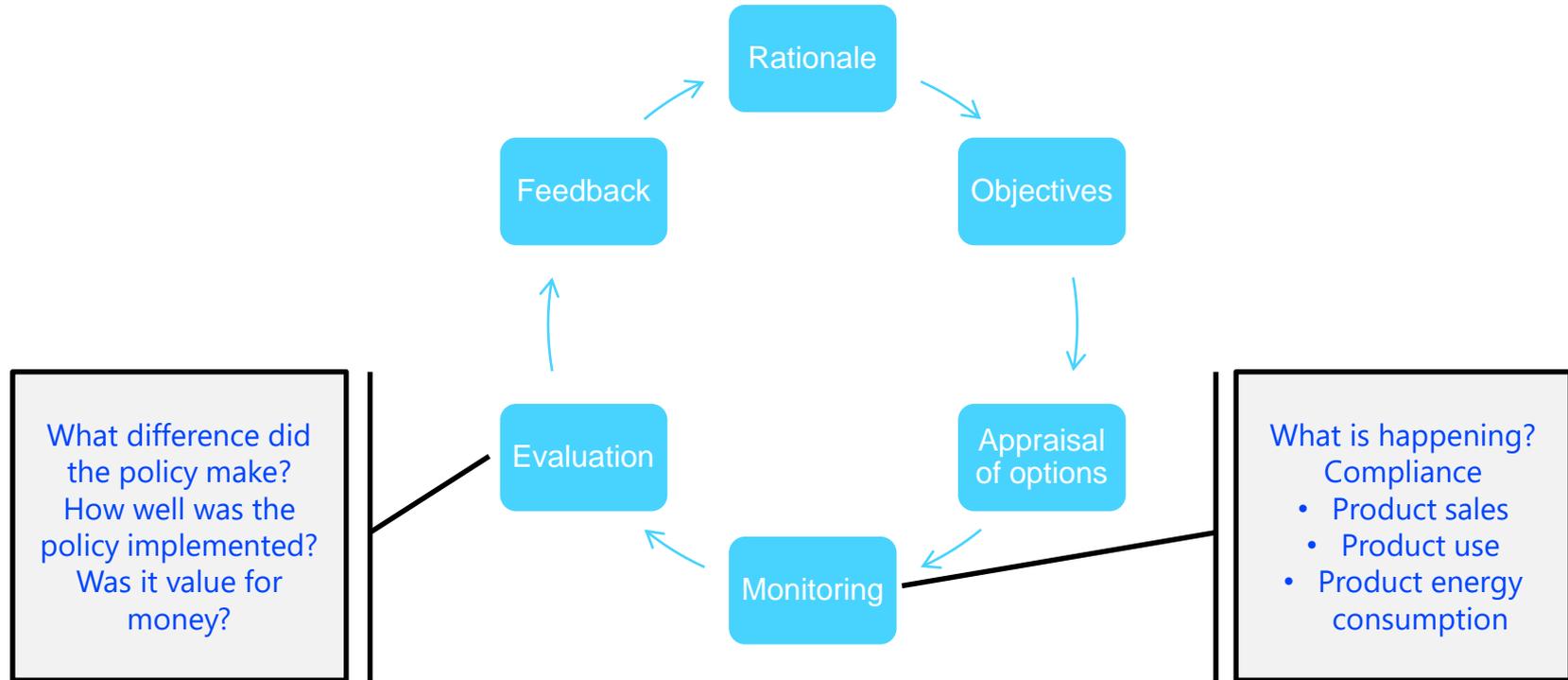
Using indicators and evaluation in policymaking

Charles Michaelis

March 19 2024

Nairobi

Monitoring and evaluation in the policy process





Policy design

- Assessing the need for the policy
- Setting appropriate objectives
- Evidence for what works
- Design indicators and evaluation



Policy implementation

- Tracking progress
- Assessing impact/value for money
- Identify opportunities



Policy review

- How can we do better
- Developing new policies
- Communicating to stakeholders
- Refining indicators and evaluation approach

Why are indicators important?

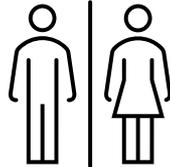
Monitor progress



Track spending



Who is affected, where



Who benefits and who pays



Communicating with funders



Predict impact on carbon, jobs, etc.



Why is evaluation important?

Course correction



Securing investment



Understanding (multiple) benefits



Assessing Gender Equality and Social Inclusion implications



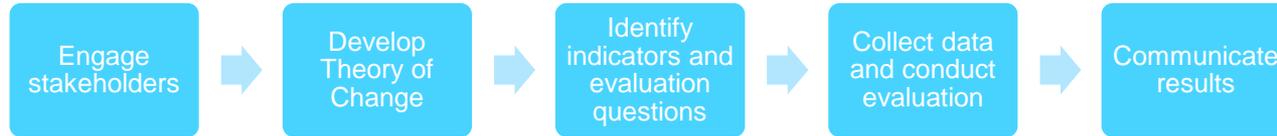
Communicating with stakeholders



Designing new programmes



Evaluation process



**How can you use indicators
and evaluation in your role?**



Introduction to Theories of Change

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March 19 2024

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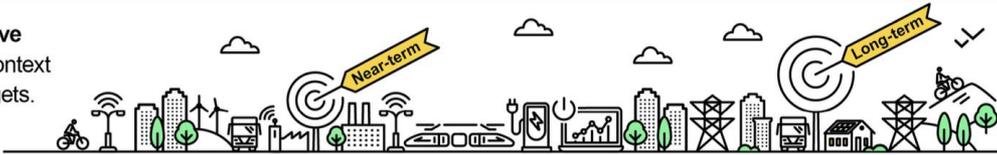
Each element of the policy package works differently

Policy Packages for Energy Efficiency

In all sectors the greatest efficiency gains are achieved by a package of policies that combine three main types of mechanisms: **Regulation**, **information** and **incentives**. Careful design and implementation will deliver efficiency's full potential to enhance energy security, create jobs, increase living standards, cut energy bills and reduce emissions.

Targets

Policies are more effective when they are set in the context of clear strategies and targets.

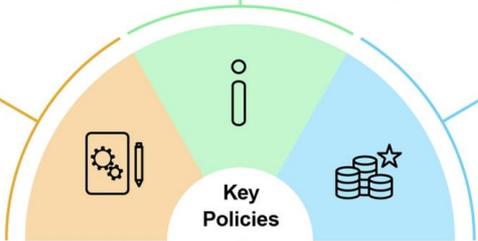


Essential elements

Regulation is essential to exclude the worst performing equipment and practices from the market, to drive average efficiency levels up, and to set rules for measurement of performance.

Information helps people make more efficient choices in what they buy and how they use energy.

Incentives make efficient options more attractive and speed up the upgrade and replacement of appliances, buildings and vehicles. They also encourage the use of new technologies and practices.



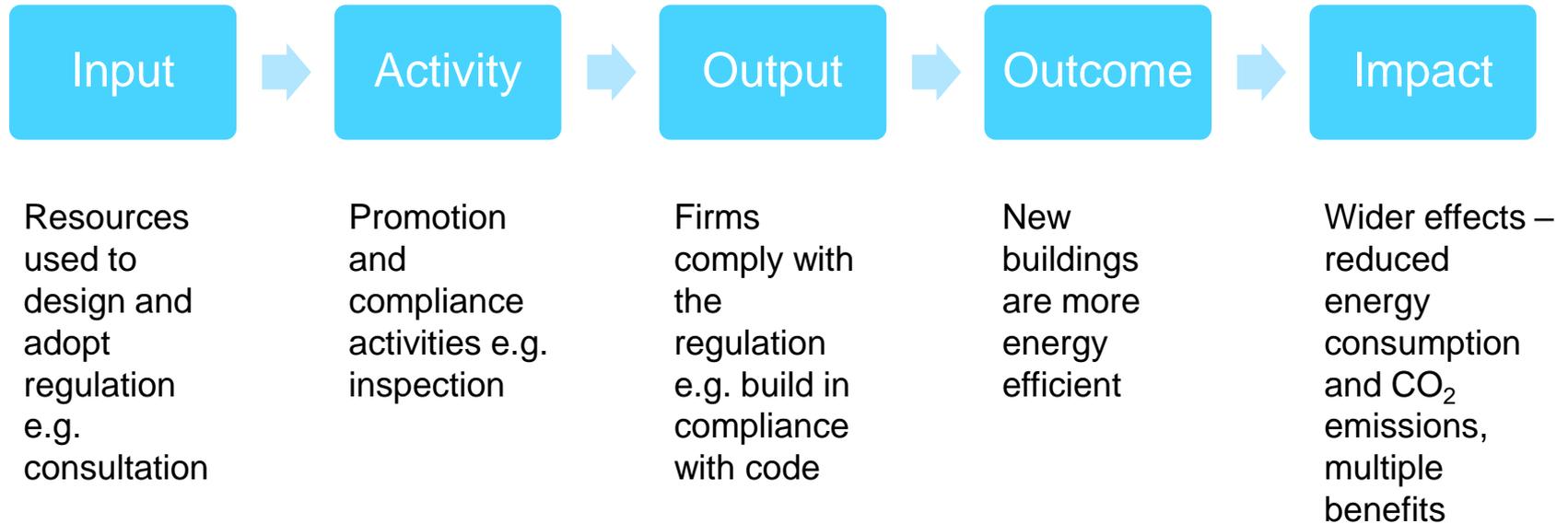
Implementation is as important as policy design.

Ensuring that the **resources** are in place to put policies into action.

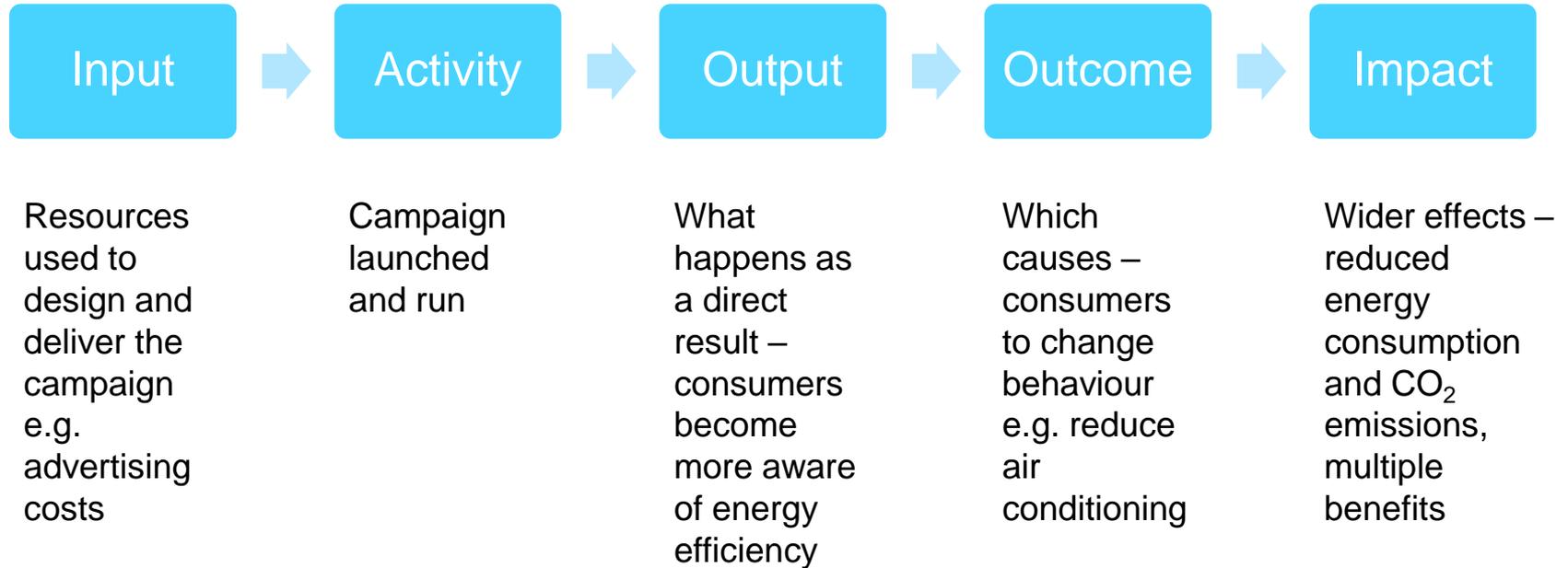
Address **vital elements** such as capacity building, enforcement, monitoring.

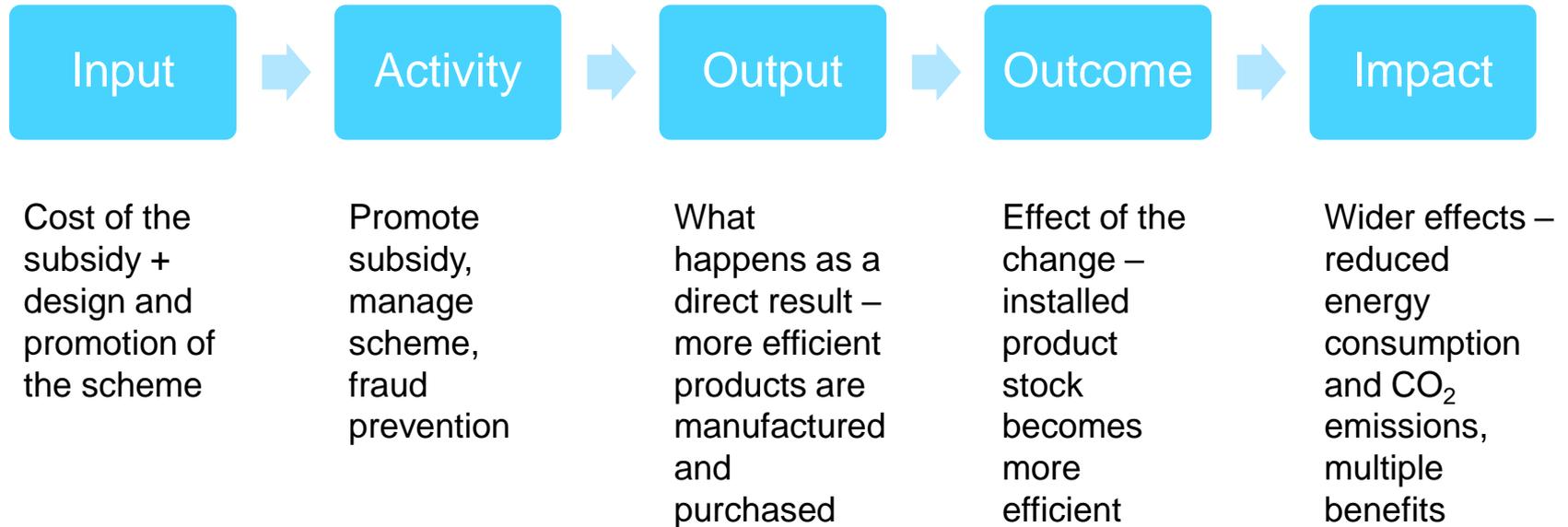
It is important to continually assess **policies and programmes** so as to keep up to date with technology developments.

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

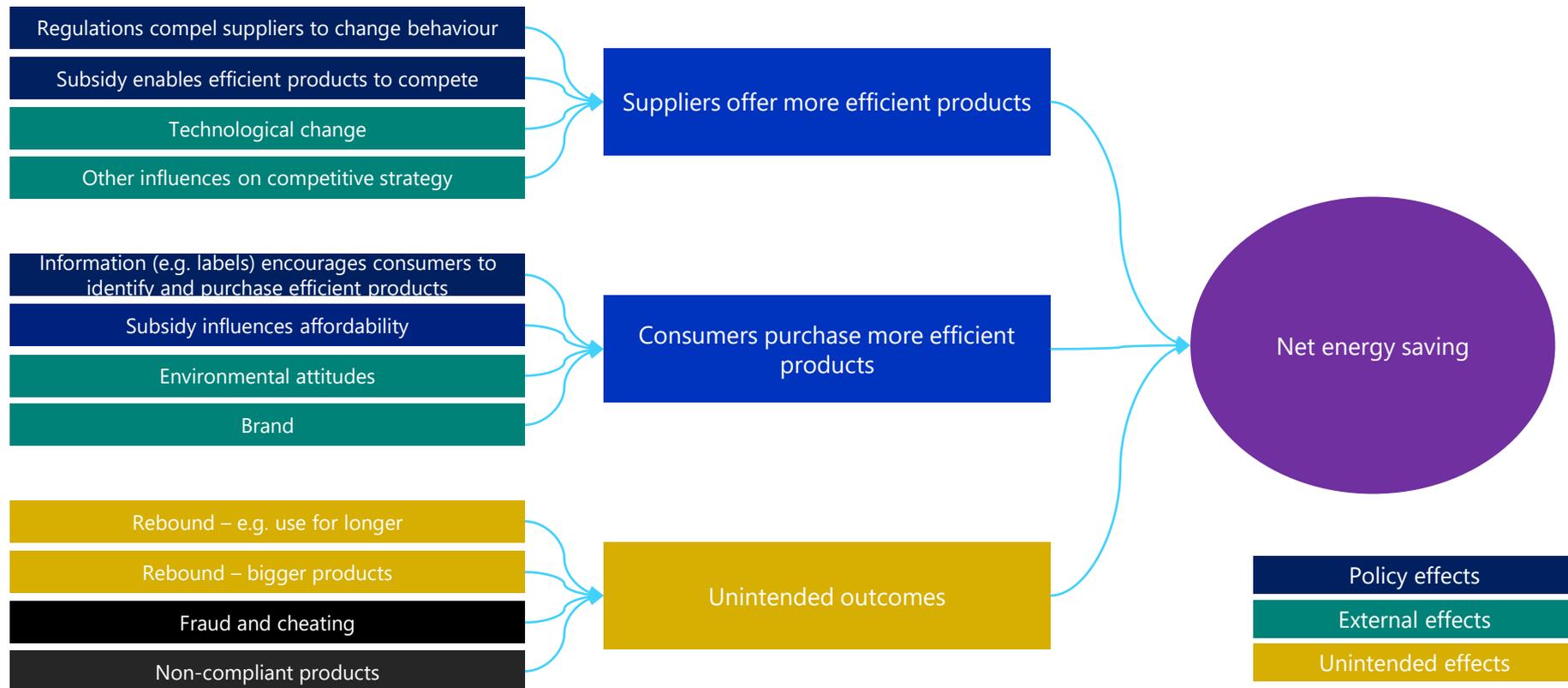


Theory of change for information e.g. consumer energy saving campaign

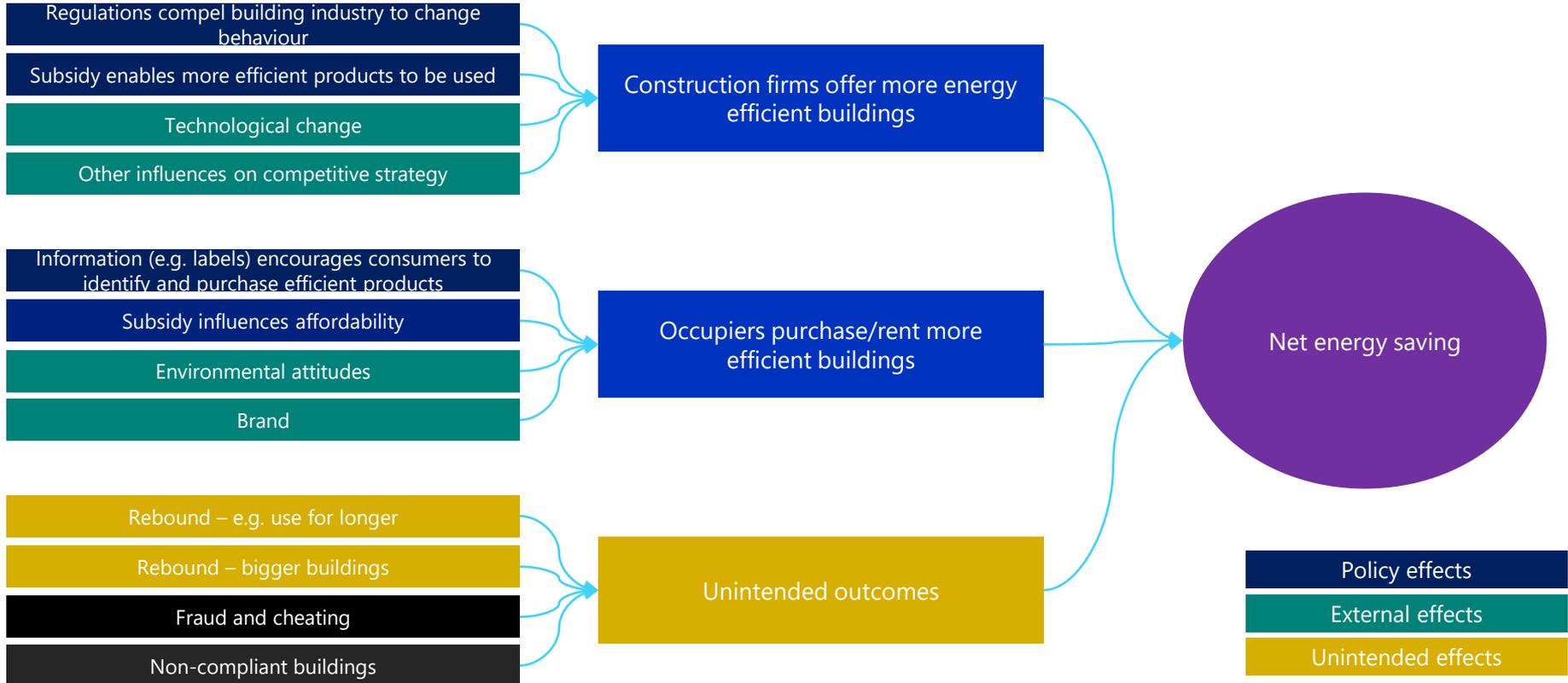




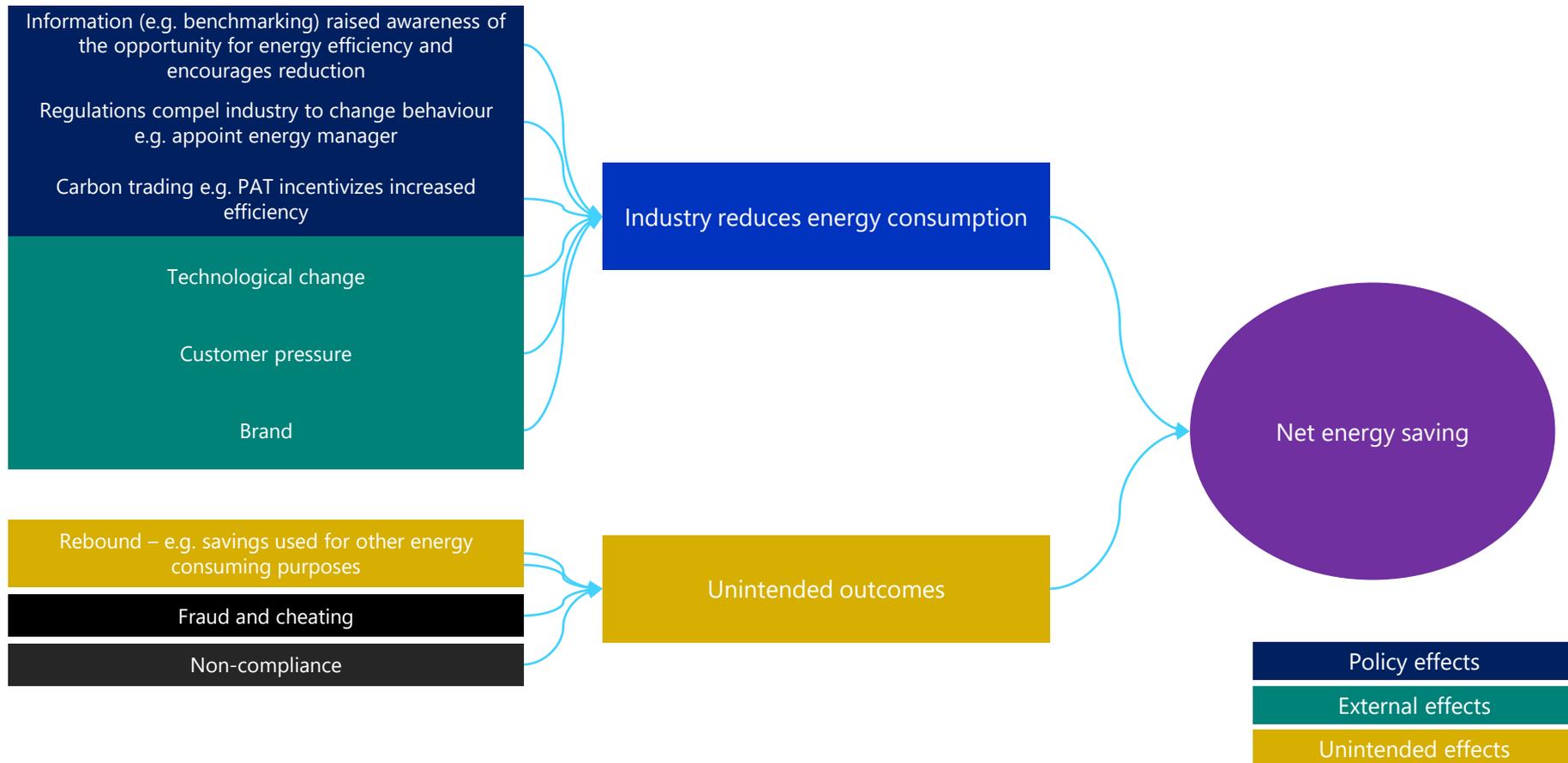
How the policy package works - appliances



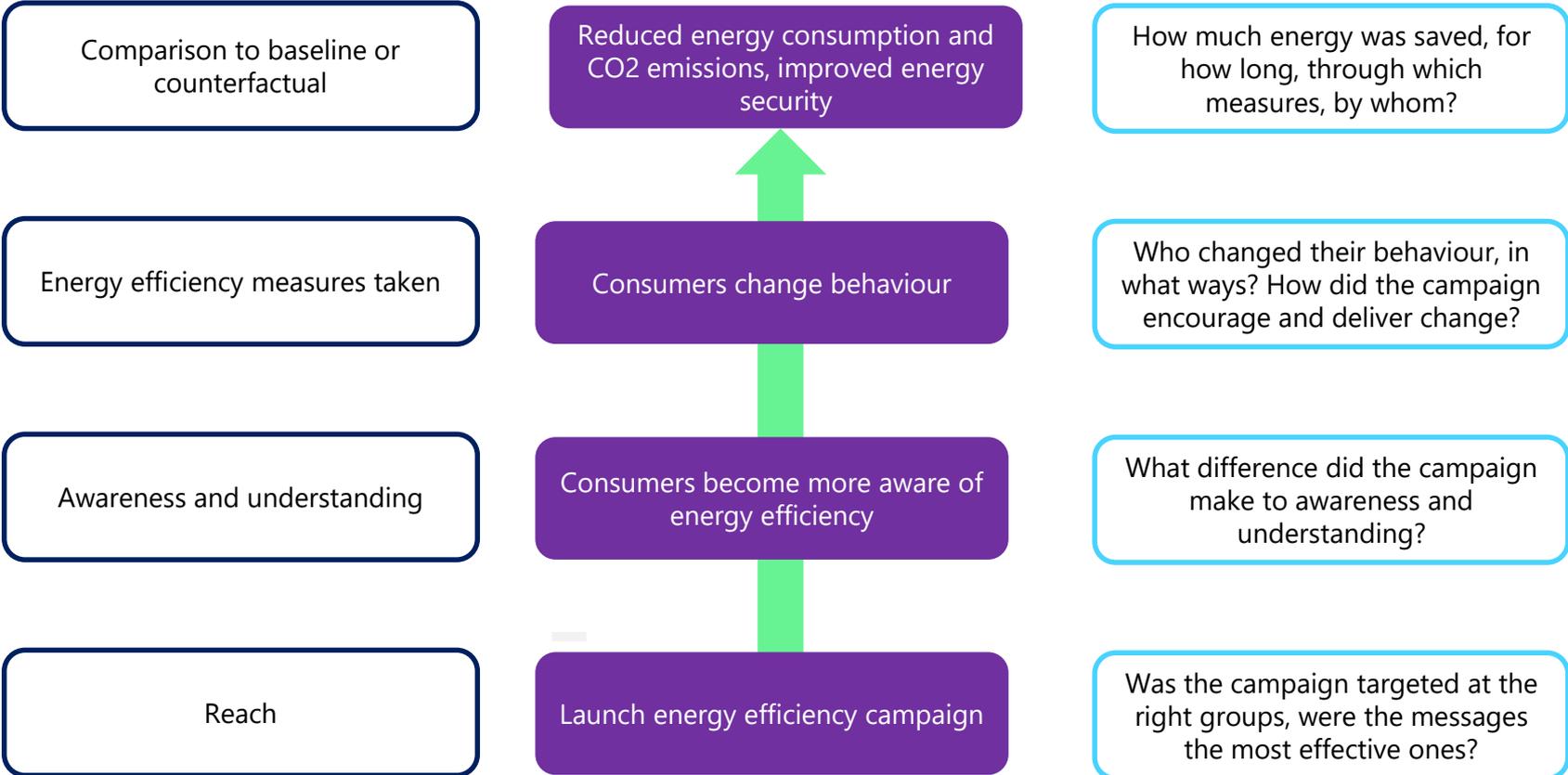
How the policy package works - buildings



How the policy package works - industry



Example indicators and evaluation questions for information



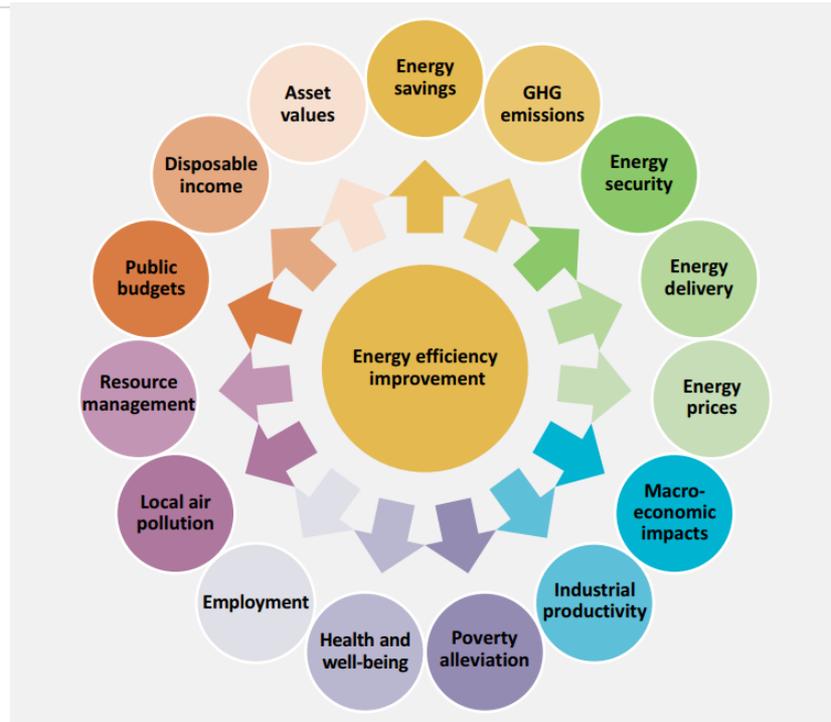


Multiple impacts of energy efficiency

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International
Energy Agency

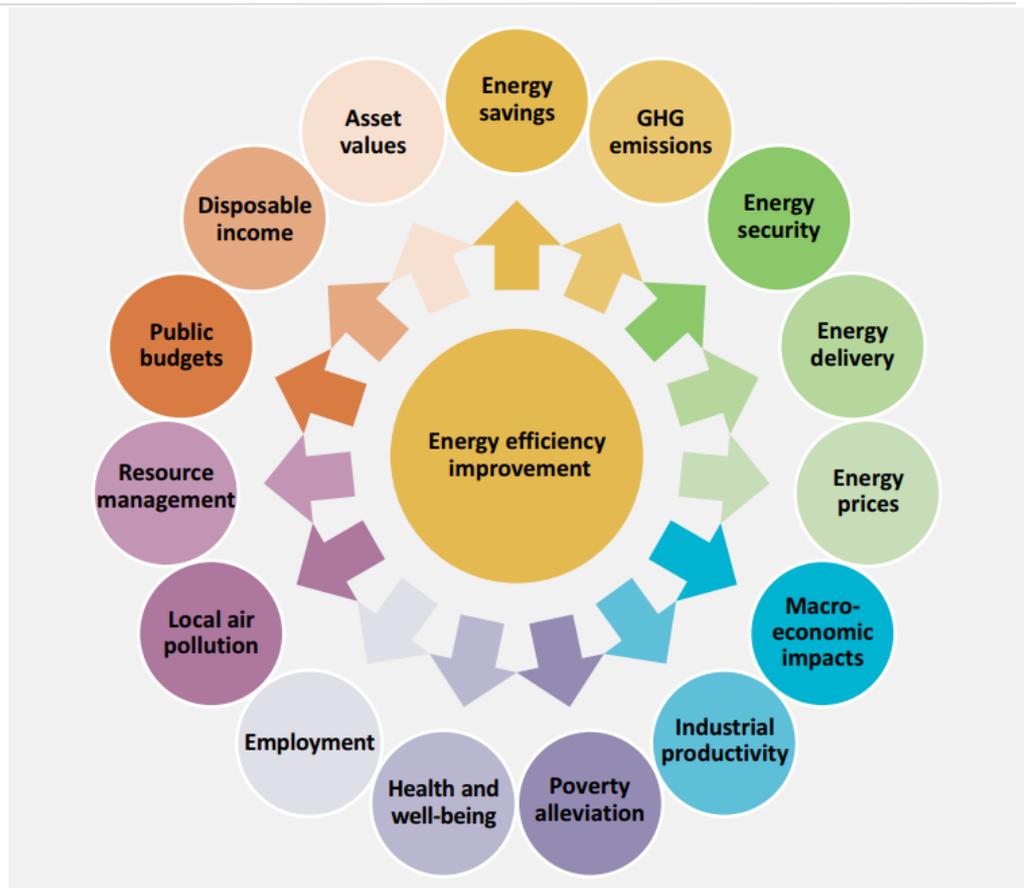


Source: IEA (2014), *Capturing the multiple benefits of energy efficiency*

Environmental, economic and social benefits from energy efficiency

In your groups

- Choose three of the multiple impacts (3min)
- Consider how your policy to double the rate of energy efficiency improvements would affect them (7min)
- Suggest how the impact might be measured (7min)
- Present in 2-3min





Let's get some help

[Chat.openai.com](https://chat.openai.com)

- Develop a Theory of Change for your policy to double the rate of energy efficiency improvements
- Use AI help to produce an initial version and then refine it
- What are the key assumptions?
- What are the risks and potential negative outcomes?

Breakout groups

Reporting back from breakout groups



Case study: Global Energy Alliance for People and Planet

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March 19 2024

Nairobi



Developing policy and programme indicators

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March 19 2024

Nairobi

International
Energy Agency

In your groups...

- What state and national indicators are relevant your policy for doubling the rate of energy efficiency improvement?
- What would they tell us?
- What would they not tell us?
- How would you use them?

- Are useful for setting a policy in context...
 - What is the addressable energy consumption?
 - How is energy efficiency changing over time?

- But...
 - Policy effects may be too small to show up in national indicators
 - National indicators don't tell us if the policy contributed to any changes in energy efficiency

- We also need policy indicators

Activities

Information
Regulation
Incentives

Outputs

Awareness
Compliance
Take up of incentives
Market change
Behaviour change

Outcomes

Energy efficiency

Impacts

Energy use
Costs
Carbon emissions
Peak demand
Jobs



What indicators do we need for your policy to double the rate of energy efficiency improvement?

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Breakout groups

- Using the TOC developed before
- What indicators could be used to monitor
 - Activities
 - Outputs
 - Outcomes
 - Impacts
- Identify where the data for those indicators could come from

Report back from breakout groups



Case study: African Development Bank's M&V Protocol

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March 19 2024

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iea