



E3G

Bringing down the embodied carbon of the EU
building stock

UNLOCKING MEMBER STATES & INDUSTRY BUY-IN

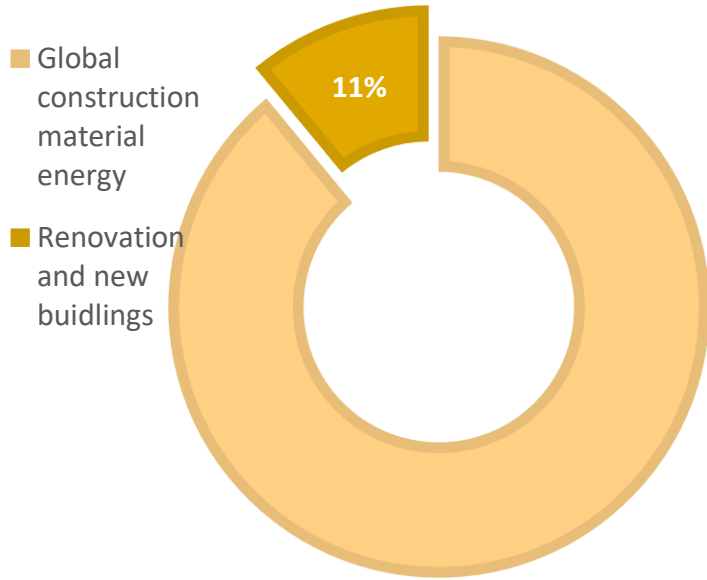
Adeline Rochet, Pedro Guertler, Roxana Dela Fiamor

February the 8th, 2022



E3G

A increasingly important issue

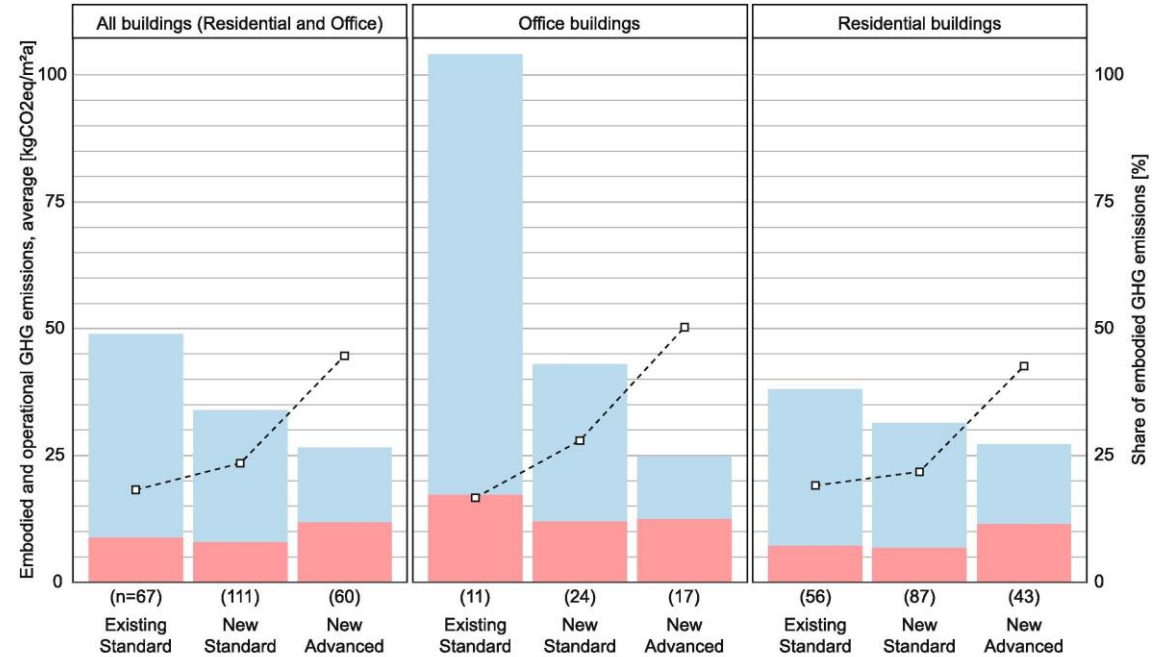


A global challenge for energy consumption



You can reduce operation and embodied emissions at the same time

a) Global trends in embodied and operational, life cycle GHG emissions



■ operational emissions
■ embodied emissions

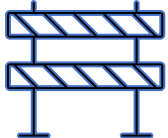
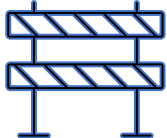
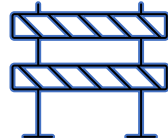
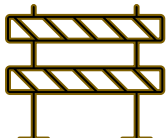
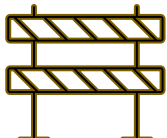
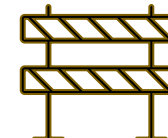
A clear trend of reduced operations emissions not mirrored for embodied emissions

[Embodied GHG emissions of buildings – The hidden challenge for effective climate change mitigation - ScienceDirect](#)

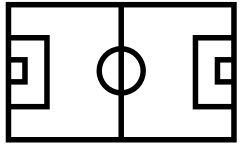


E3G

What's blocking

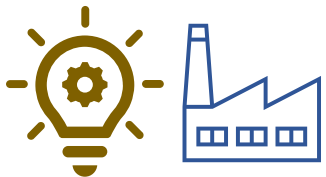
Business perspective	Cost of implementation 	Lack of demand 	Trade secrecy 
Policy gaps	Diverging methodologies 	Fragmented value chains 	Administrative burden 

How to get active support from the industry ?



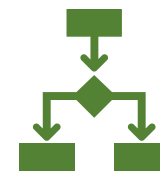
- Levels the playing field: market for low carbon products vs energy intensive imported materials

- Green procurement (predictability and long term planning)



- Stimulate innovation and process improvement

- Organise value chains (with all players)





E3G

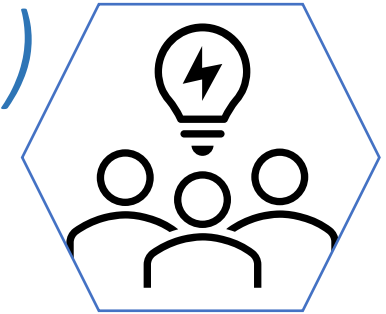
Gains for Member states

- local authorities empowerment, local resilience stories
- meet emissions reduction targets
- revamped value chains to create sustainable jobs
- Digital and Green twin transitions
- implement multisolving approach

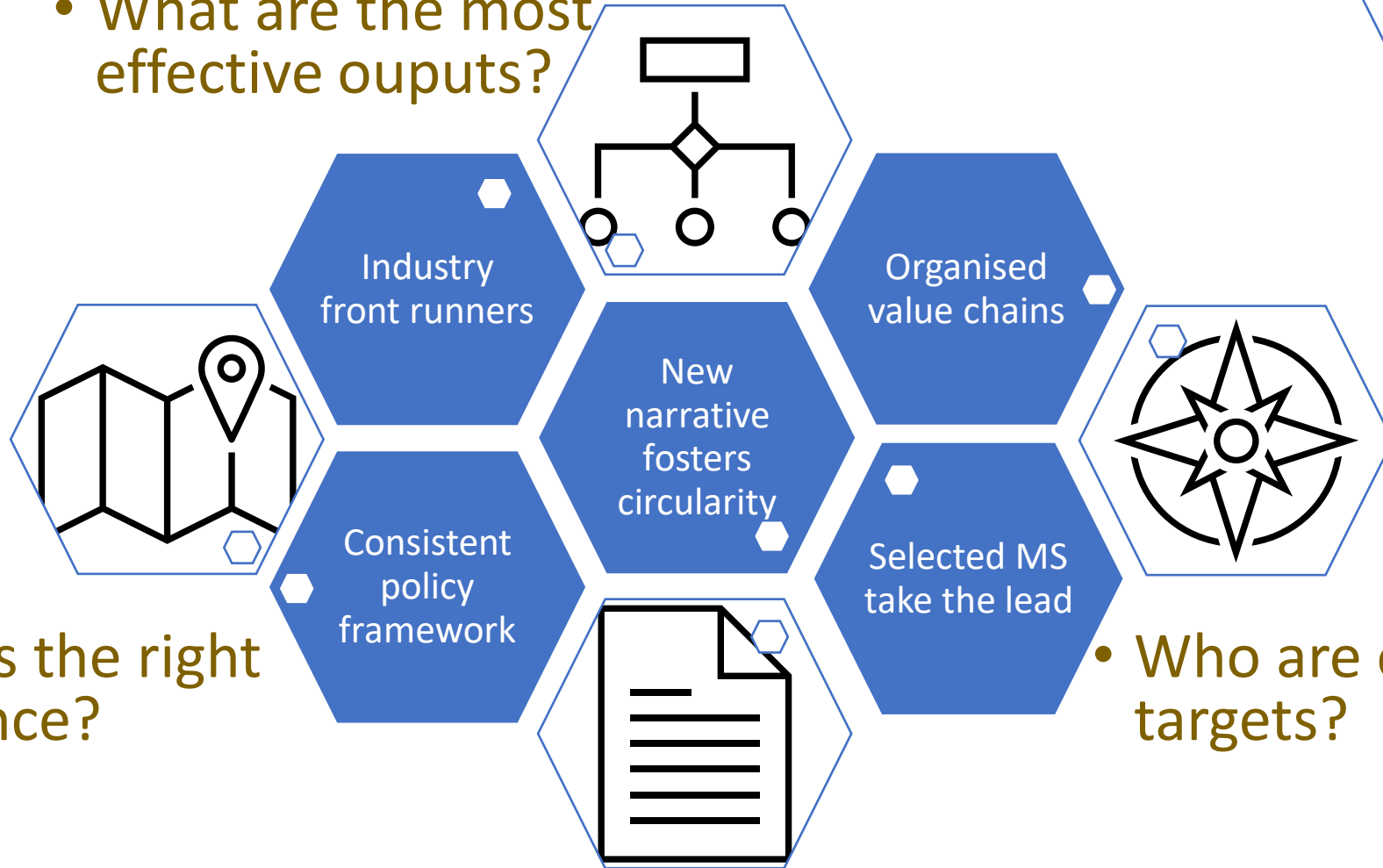


E3G

What are the next steps? (*discussion*)



- What are the most effective outputs?



- What is the right sequence?

- Who are our priority targets?



E3G

About E3G

E3G is an independent climate change think tank accelerating the transition to a climate safe world.

E3G builds cross-sectoral coalitions to achieve carefully defined outcomes, chosen for their capacity to leverage change. E3G works closely with like-minded partners in government, politics, business, civil society, science, the media, public interest foundations and elsewhere. In 2018, for the third year running, E3G was ranked the fifth most globally influential environmental think tank.

More information is available at www.e3g.org