

Addressing the environmental and climate footprint of buildings

EEA Report 09/2024

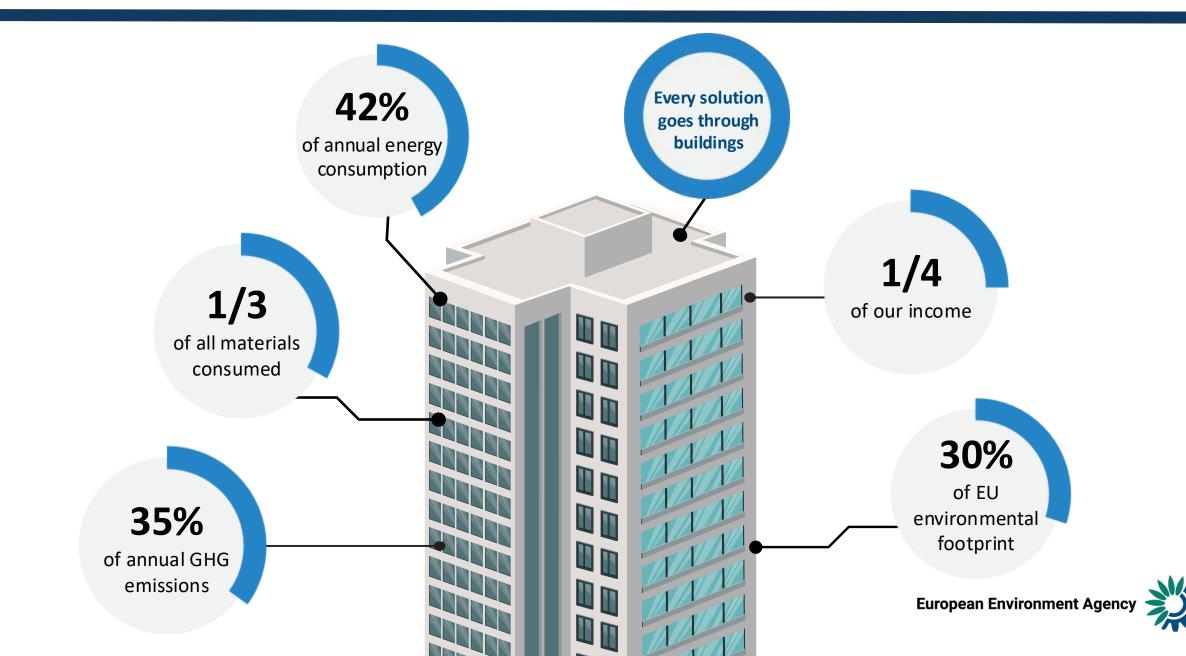
Climate-neutral and circular buildings: The responses needed to achieve a sustainable building system by 2050

Vienna, 8 April 2025 **Ioannis Bakas**

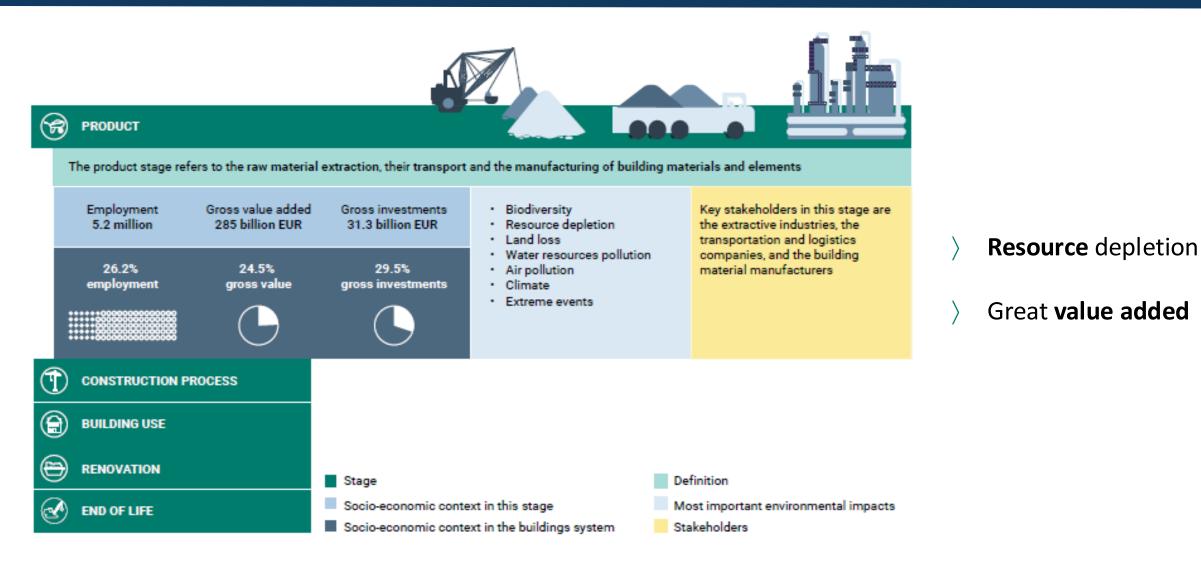


European Environment

Why buildings matter?

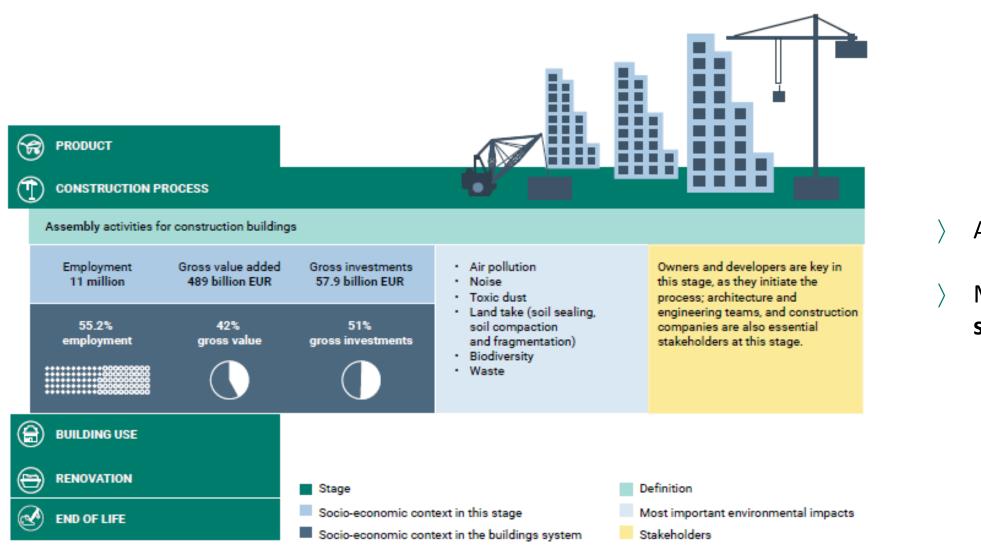


Hotspots in buildings' life cycle - product





Hotspots in buildings' life cycle - construction

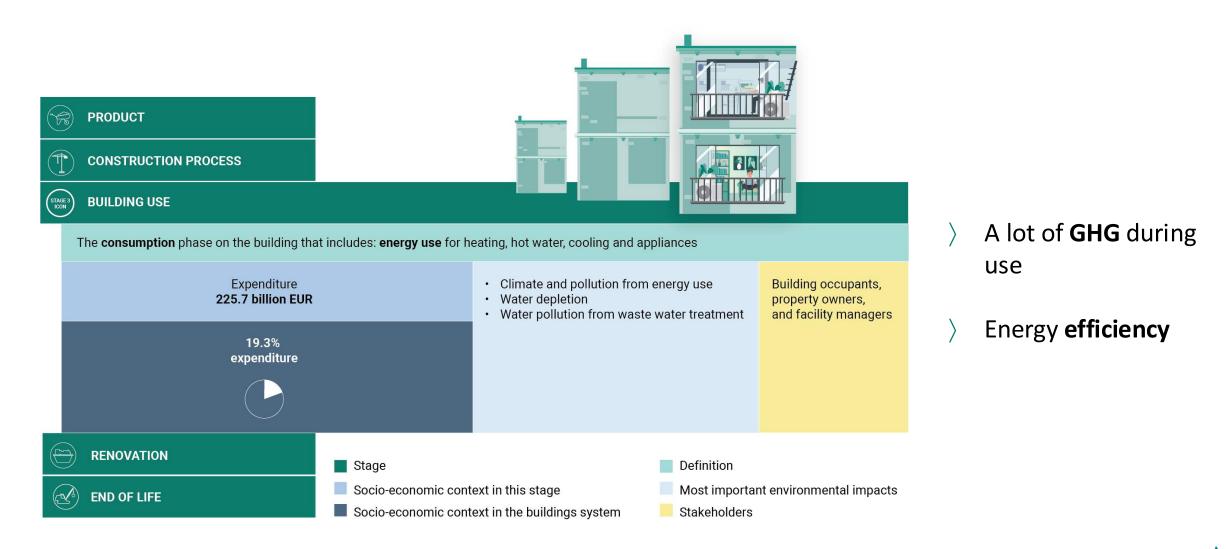


A lot of **local impacts**

Most relevant socio-economically

European Environment Ager

Hotspots in buildings' life cycle - use





Hotspots in buildings' life cycle – renovation



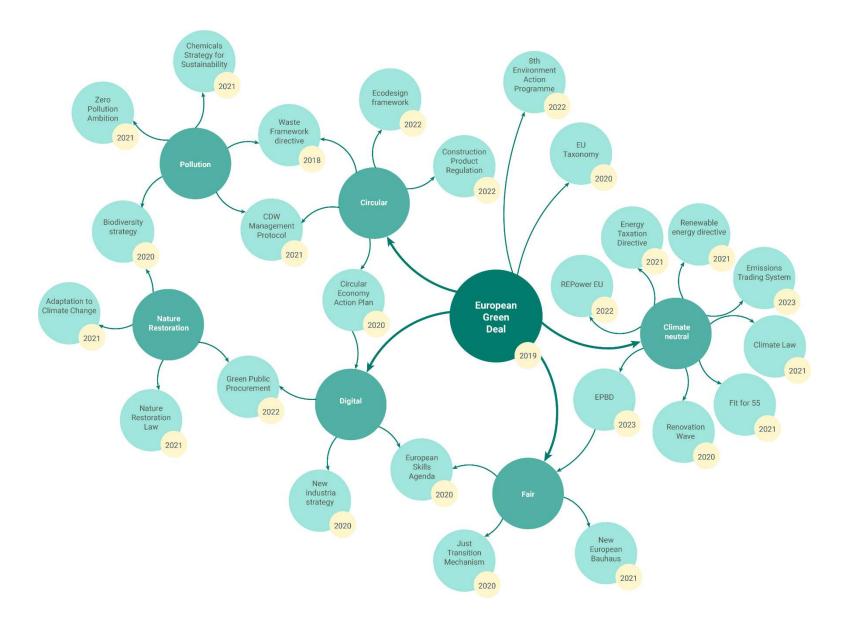


Hotspots in buildings' life cycle – end-of-life





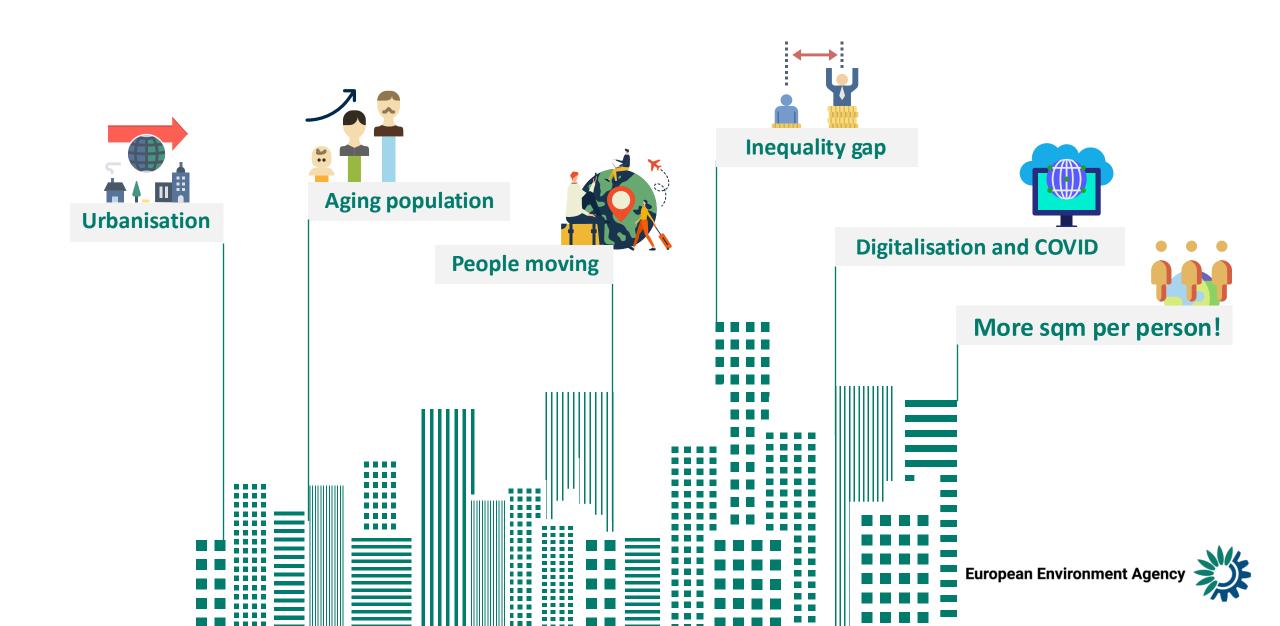
Where are we going? – Policy trends



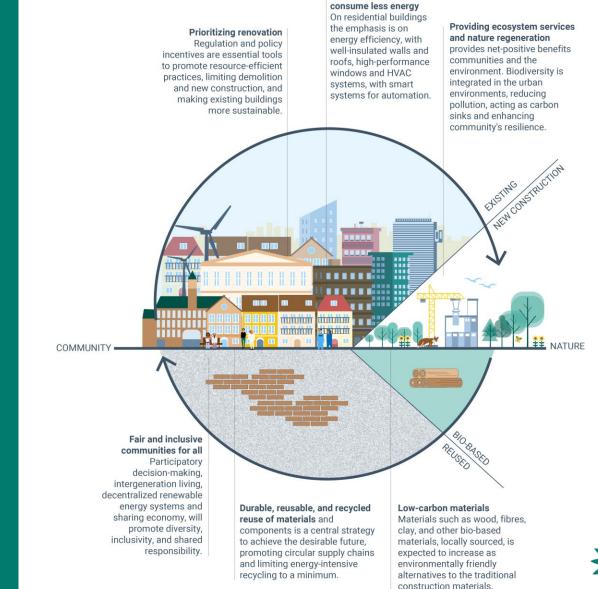
- A lot of legislation many
 objectives, mostly in line with
 each other
- No overarching strategy



Where are we going? – Socioeconomic trends



What can we do?



Enabling users to

- → Prioritise **renovation**
- → Use of **low impact** products
- → Energy efficiency



- → Climate resilience, ecosystem services
- → Circular design



→ Fair and inclusive transition





Thank you!



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European Environment Agency