



UNECE Eighty-four session of the Committee on Urban Development, Housing and Land Management

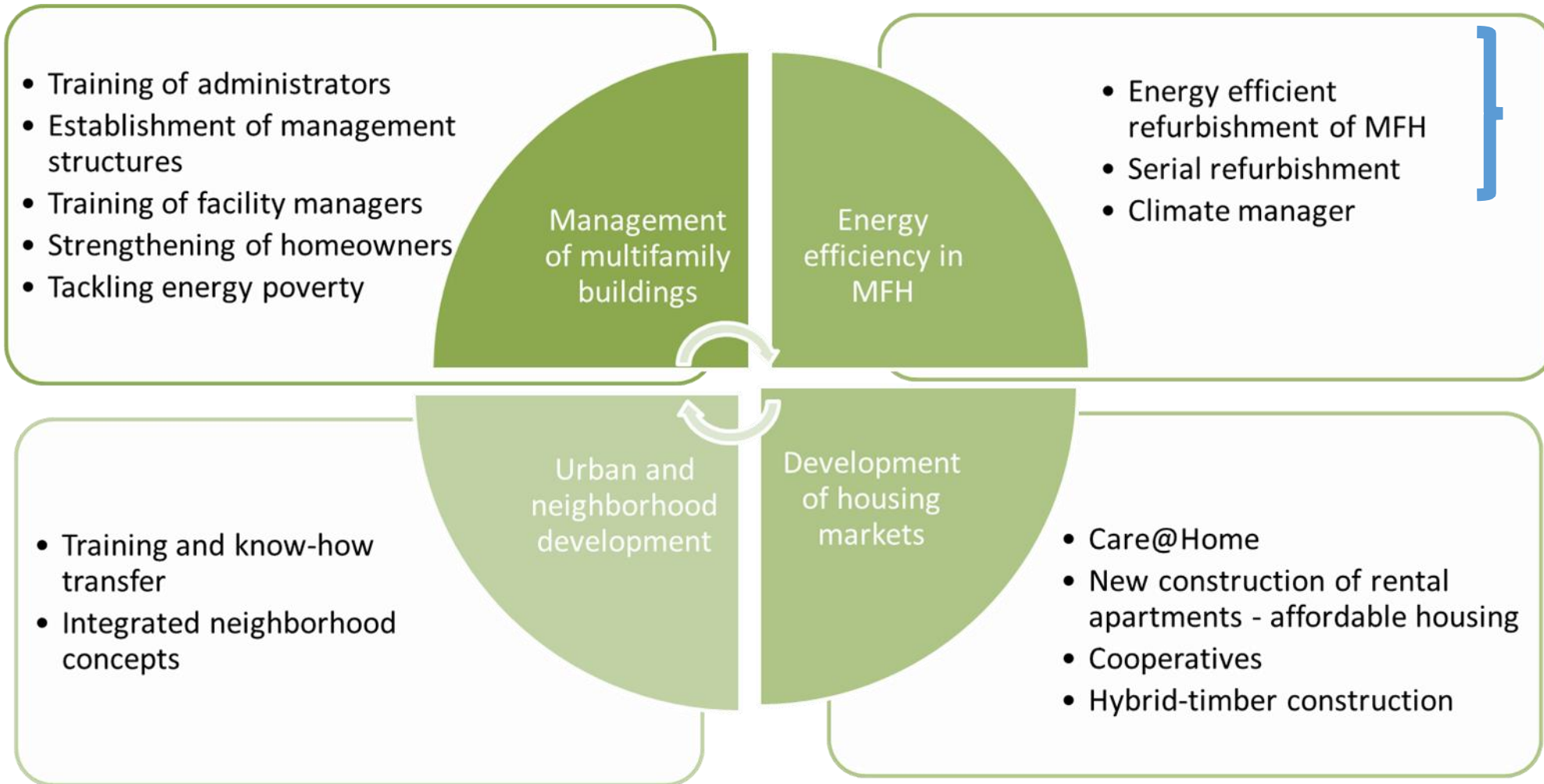
6 (d) Activities of the Network ...
... future challenges of housing affordability in the ECE region...

5th October 2023

**...the existing building stock must not be neglected,
and which innovations have a perspective**

Knut Höller, Housing Initiative for Eastern Europe (IWO e.V.), Berlin

Current IWO topics in Eastern Europe



IWO's network and member structure



Team Energiesprung Germany



Energiesprong: NetZero retrofitting as an attractive product.

A realistic trend or just an expansive burden?



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aufgrund eines Beschlusses
des Deutschen Bundestages



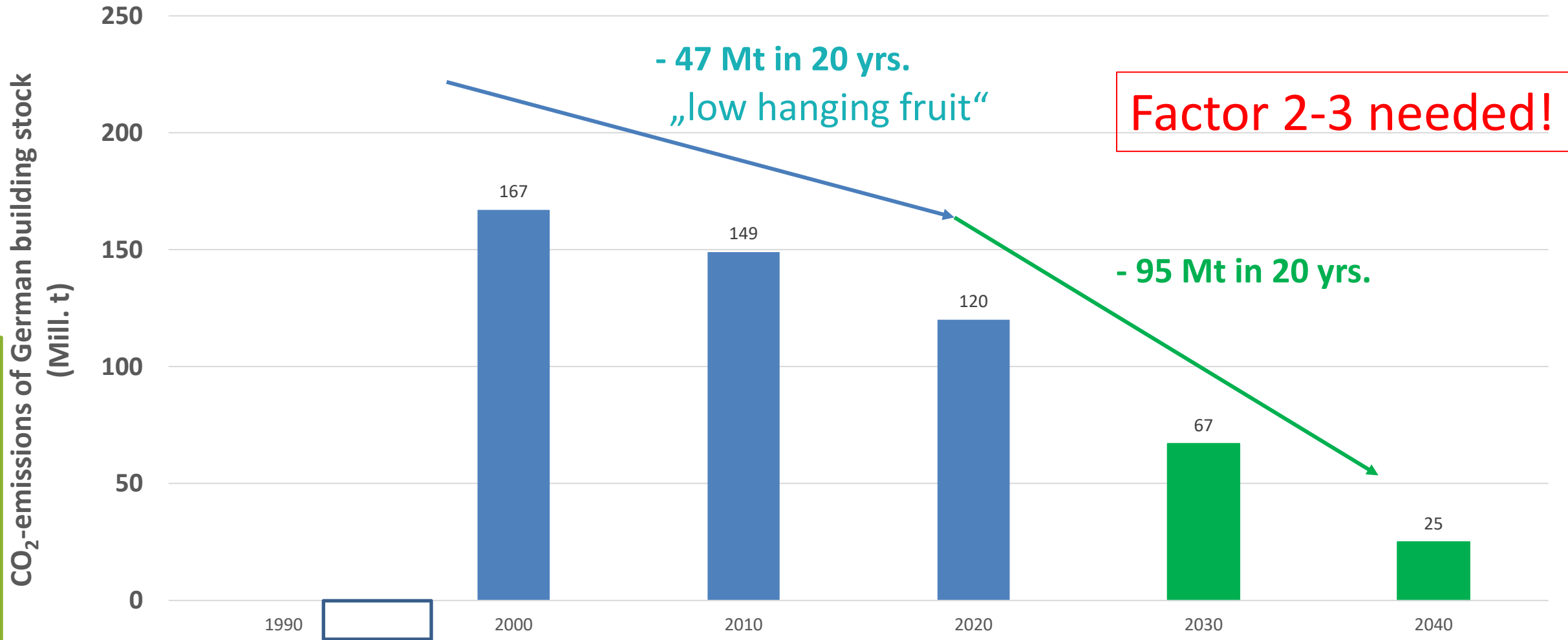
EU building stock

- 215 million homes
+ 11 million non-residential buildings
- 40% of energy consumption
- 36% of CO₂-emissions
- Market volume for refurbishment
of about **300 Billion € / year**

Sources: https://ec.europa.eu/info/news/focus-energy-efficiency-buildings-2020-lut-17_en
https://ec.europa.eu/energy/eu-buildings-database_en



Problem:
 building stock in EU is **not at all** on track!



We cannot double our skilled workers

- **Shortage of skilled labour = limiting factor!**
- Few young people in construction jobs
- Qualifications takes a lot of time

➔ **Price increase** with growing demand

➔ **Retrofit as a luxury product?**



Solution: Disruption



Prefab facades



Prefab roofs



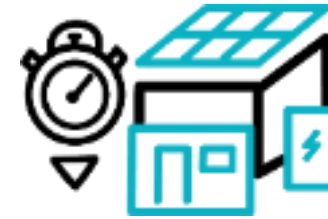
Prefab energy modules

Energiesprong: retrofit as an attractive product

Easy



Fast



Scalable

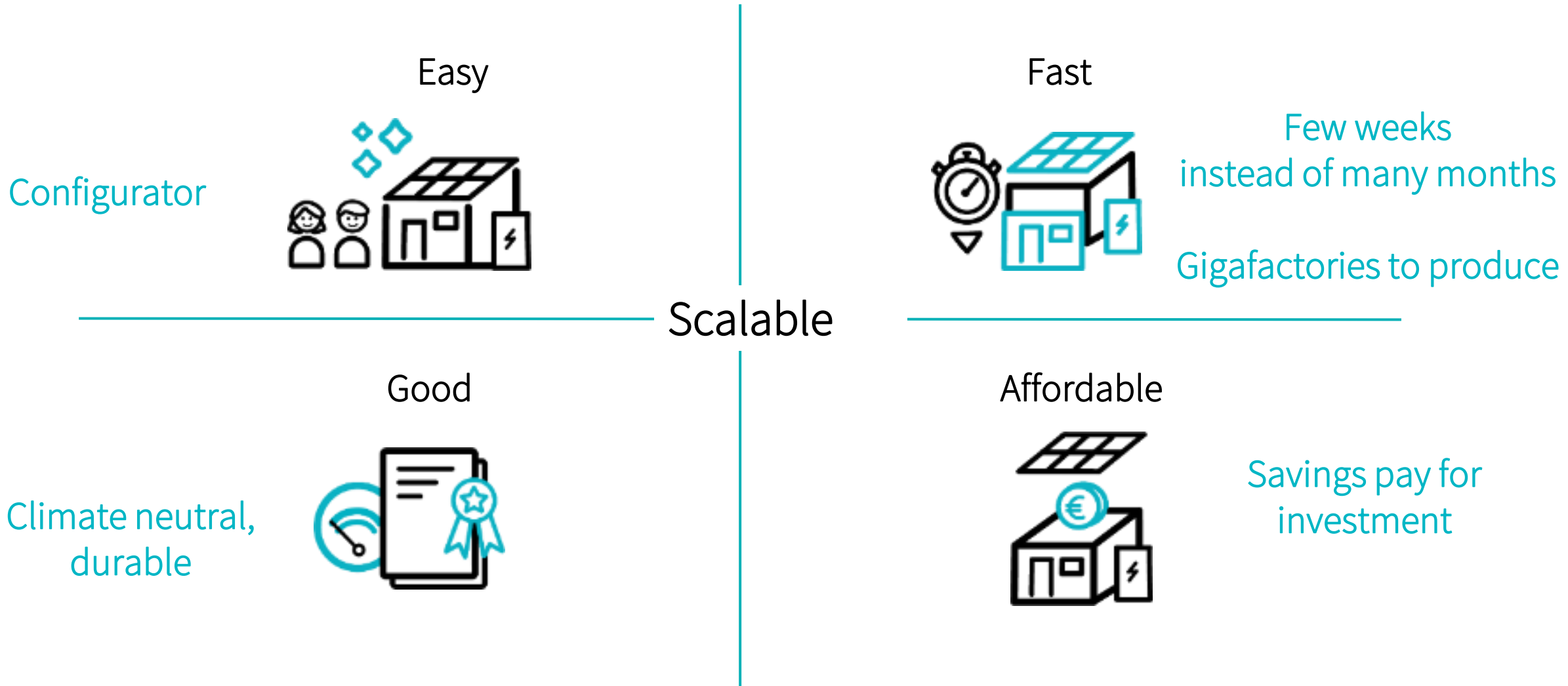
Good



Affordable



Energiesprong: retrofit as an attractive product





The idea works



NL: >5.000 homes



FR: >1.000 homes



UK: >15 homes



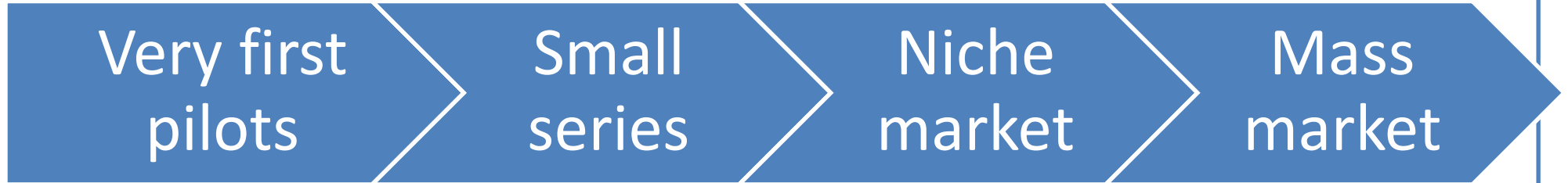
DE: >100 homes



EE: >100 homes

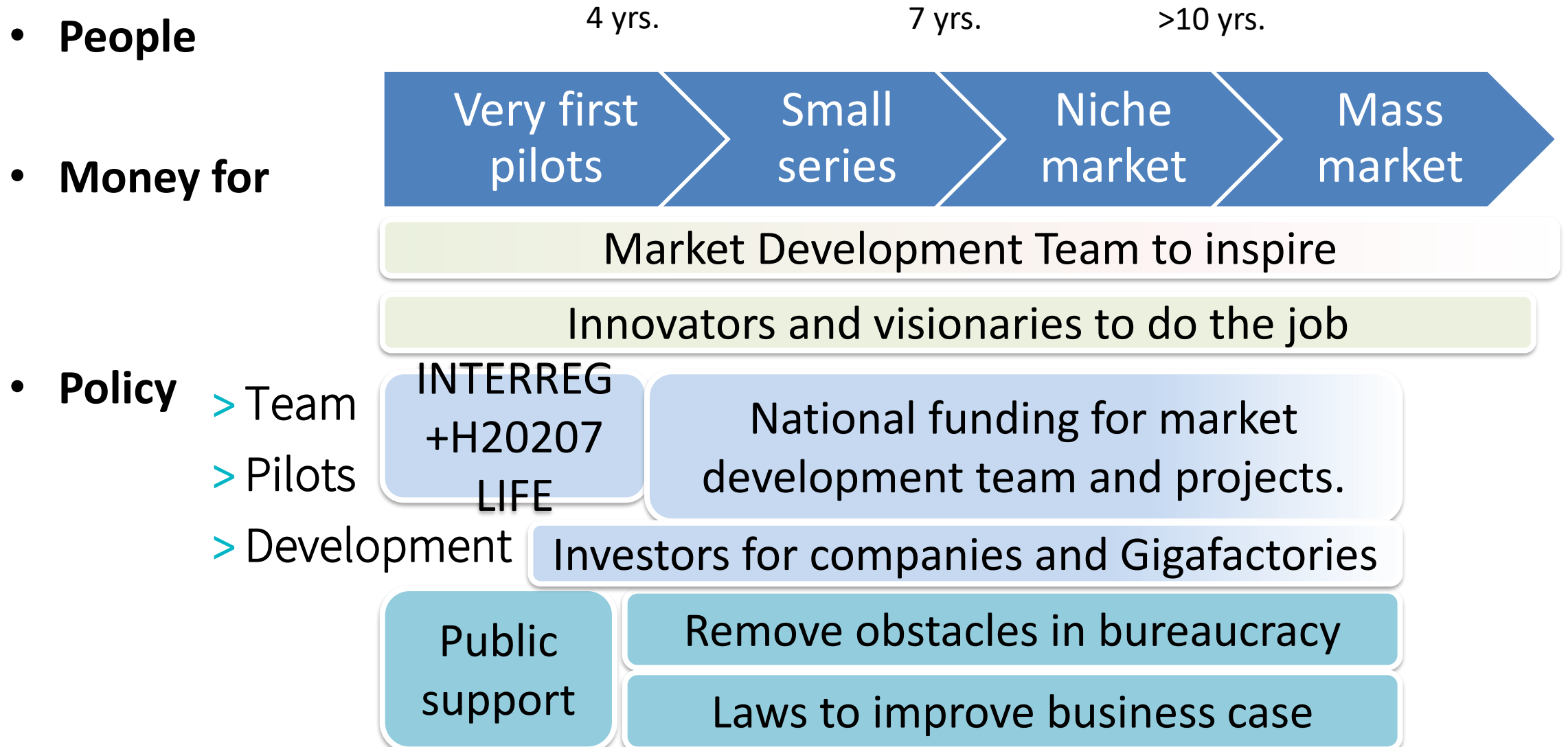
Phases of market development

NL

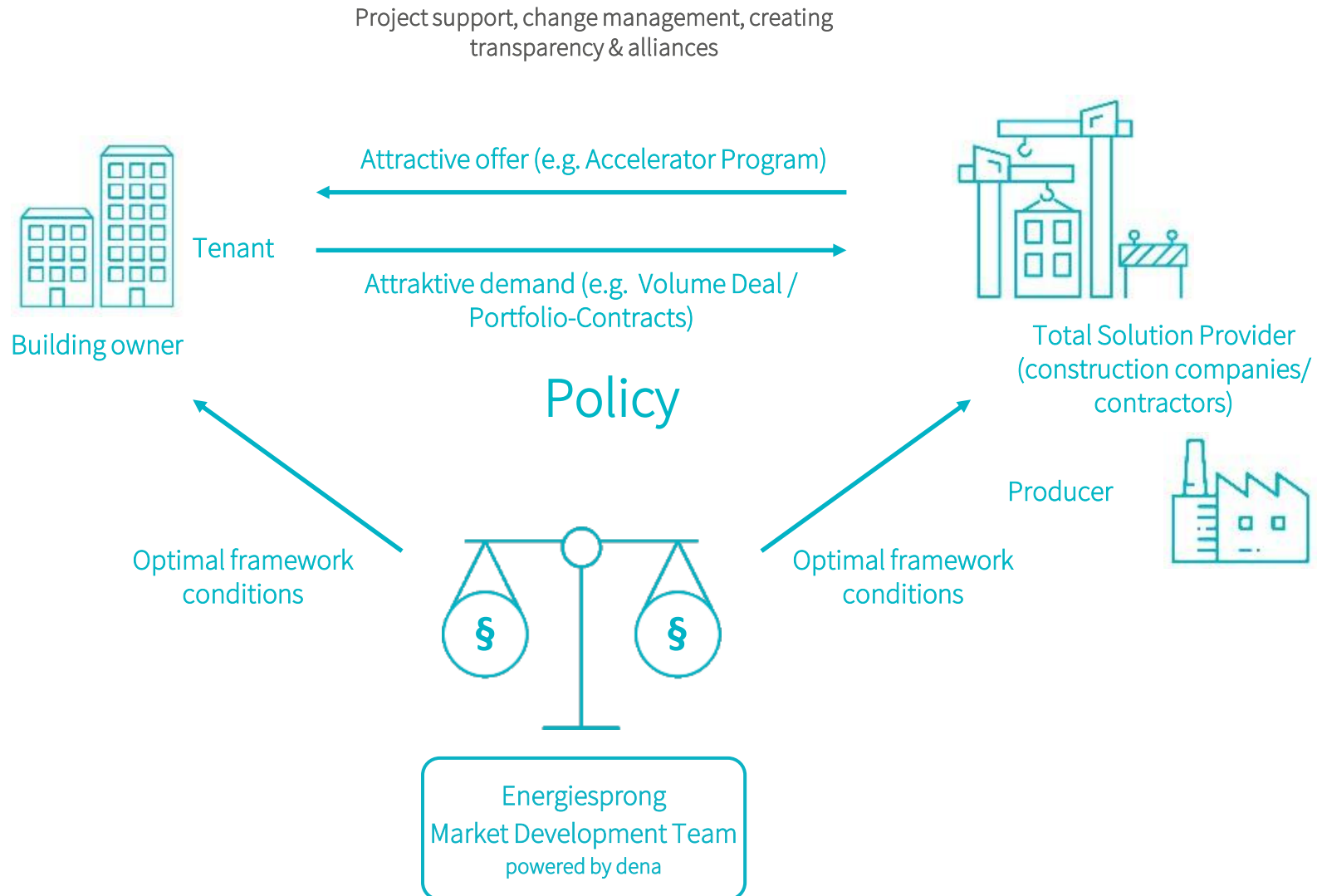


<p><u>CHALLENGES</u></p>	<ul style="list-style-type: none"> • Find innovators • Solve technical issues 	<ul style="list-style-type: none"> • Costs still too high • Optimize processes 	<ul style="list-style-type: none"> • Create constant demand • Keep innovating 	<ul style="list-style-type: none"> • Create perfect product • Gigafactories 			
	IT	EE	UK	DE	FR		
<ul style="list-style-type: none"> • BUILDING UP + MAINTAIN NETWORKS – LINKING PEOPLE 							

Factors for successful market development



The role of Energiesprong in Germany



What the EU can do

- Create new ways to **finance Market Development Teams** over 10+ years in all MS
 - Many EU project networks die after 36 months...
- **Financial Support** for Prefab Retrofit **Projects** (e. g. first 10.000 units per country), **technical development (Subsidies, Guarantees) and Gigafactories**
- **Legal and public support of Prefab Retrofit**



➔ Prefab retrofits („standardised industrial solutions“ in Renovation Wave) as **IPCEI!**
(Important Project of Common European Interest)



LIFE-Project: COSME RENO

New cooperation models for SMEs to scale up deep energy efficient renovations



The project COSME Reno is focused on promoting and advancing energy renovation efforts, particularly in the small and medium-sized enterprise (SME) sector.

Its primary goals include accelerating the pace and effectiveness of energy renovations, ensuring higher-quality retrofit projects, minimizing the performance gap, and implementing industrialized solutions.

COSME Reno encompasses activities in several countries, namely France (FR), Netherlands (NL), Italy (IT), Lithuania (LT), Belgium (BE), and Germany (DE).

Project Start: 10/2023

Project End: 10/2026

Duration: 36 Months

Estimated Project Cost:

€1,980,494.03

Requested EU Contribution:

€1,881,469.32



LIFE STREET HP RENO

Developing street wide approach or housing for collective switch of energy systems to heat pumps packaged modules



The project aims to deploy collective purchasing approaches for energy systems replacement by **heat pumps for individual homes at the scale of entire streets.**

For this we want to work with all relevant stakeholders :

- Local authorities (cities), housing organizations and residents to convince them of the interest of the approach and to aggregate a maximum of demand and make heat pumps buy-in-schemes emerge
- Installers and solution providers, to develop adapted, packaged, prefabricated and industrialized solutions, less expensive, more qualitative, with possible new services fitted to the ecological transition

All of this should lead to a reduction in costs and the mass deployment of heat pumps in renovation, as a lever for decarbonizing heat in existing housing.

Project Start: 10/2023

Project End: 10/2026

Duration: 36 Months

Estimated Project Cost:

€2,250,734.3

Requested EU Contribution:

€2,138,197.59

Completed Energiesprong projects in Germany



Hameln | Am Kuckuck



Herford | Ulmenstraße



Bochum | Mörikestraße



Bochum | Katharinastraße

9 Energieprong-Projects in realisation



Köln | Schwalbacher Str
16 WE
992 m² Wfl.

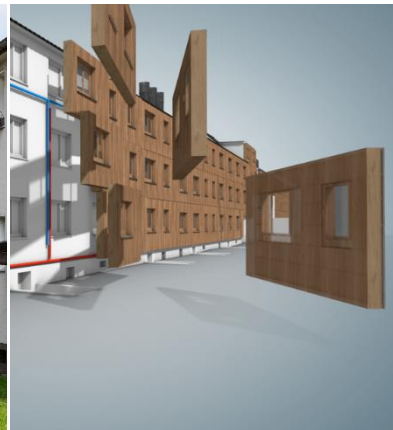


Fotos: Gewobau Erlangen

Erlangen | Quartier Paul-Gossen-Str.
Bauabschnitt 1:
122 WE
8182 m² Wfl.



Mönchengladbach | Reallabor
111 WE
Rd. 6000 m² Wfl.



Mönchengladbach |
verschiedene Projekte
139 WE
Rd. 7600 m² Wfl.



Bochum | Wichernstraße
19 WE
1404 m² Wfl.

- > 15 Projects under preparation: 1.029 apartments, >16.000 m² living space,
- > 8 Housing companies



Cooperation works:
First delivery of prefab-facades from an
Estonian company to a
German Energiesprung project in 2022





energie
sprung
de

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