



Regional challenges and solutions on urbanization, urban development, land and housing

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Integrated Approaches to Urban Sustainability

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UNECE Mission: Promoting pan-European economic integration:

- Policy Dialogue
- Negotiation of international legal instruments
- Development of regulations and standards
- Exchange and application of good practices, as well as economic and technical knowledge
- Technical cooperation with countries in the region, with a focus on countries with economies in transition

Transport

Energy

Trade

Environment

Statistics

Forests

Urban Development, Housing and Land Management

UN Forum of Mayors



**FORUM OF
MAYORS**

**Joint Task Force on
Energy Efficiency
Standards in Buildings**



**Real Estate Market
Advisory Group for
Sustainable, Climate-
neutral and Energy-
Efficient Buildings and
Cities**

Transformative urban **spatial** development needed

Urban Sprawl



Compactness

Segregation



Inclusion

Congestion



Connectivity

Degraded
Ecosystems



Resilient

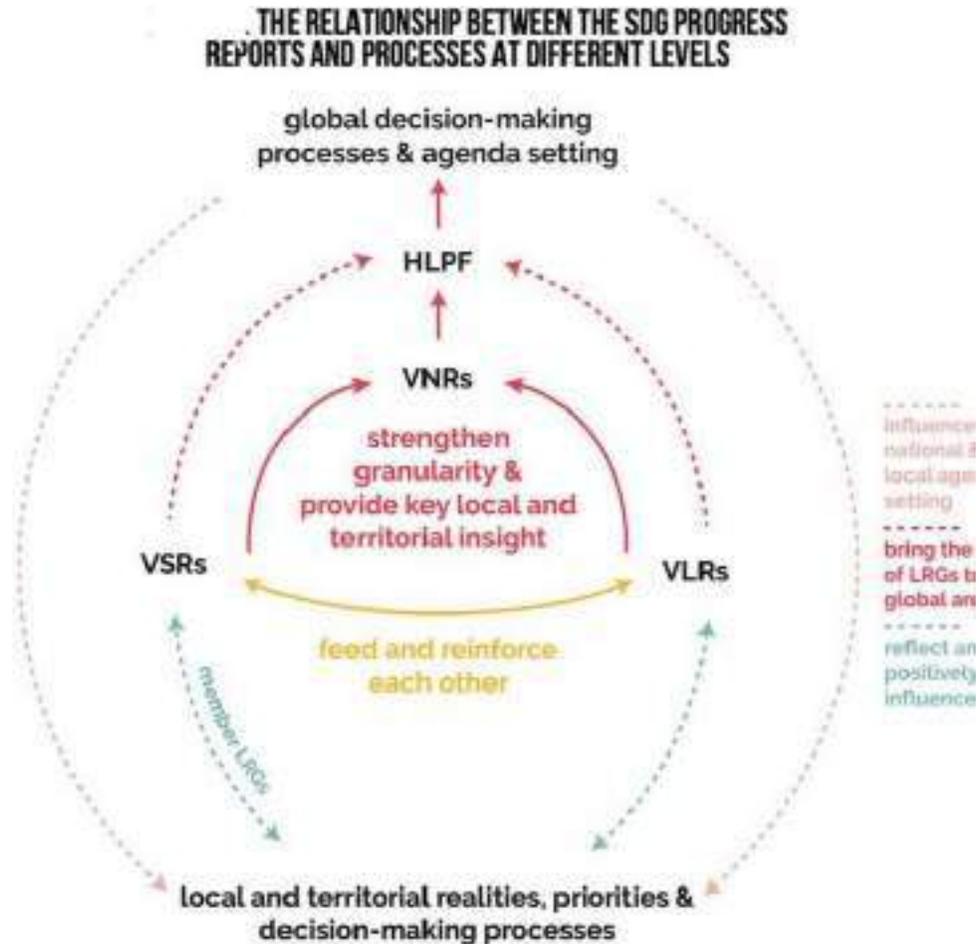
Poverty &
Inequality



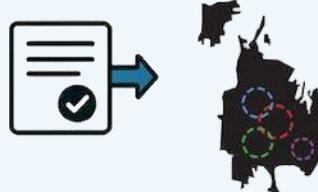
Prosperity

Services, infrastructure and suitable location:

Sustainable urban planning in Bishkek, Kyrgyzstan



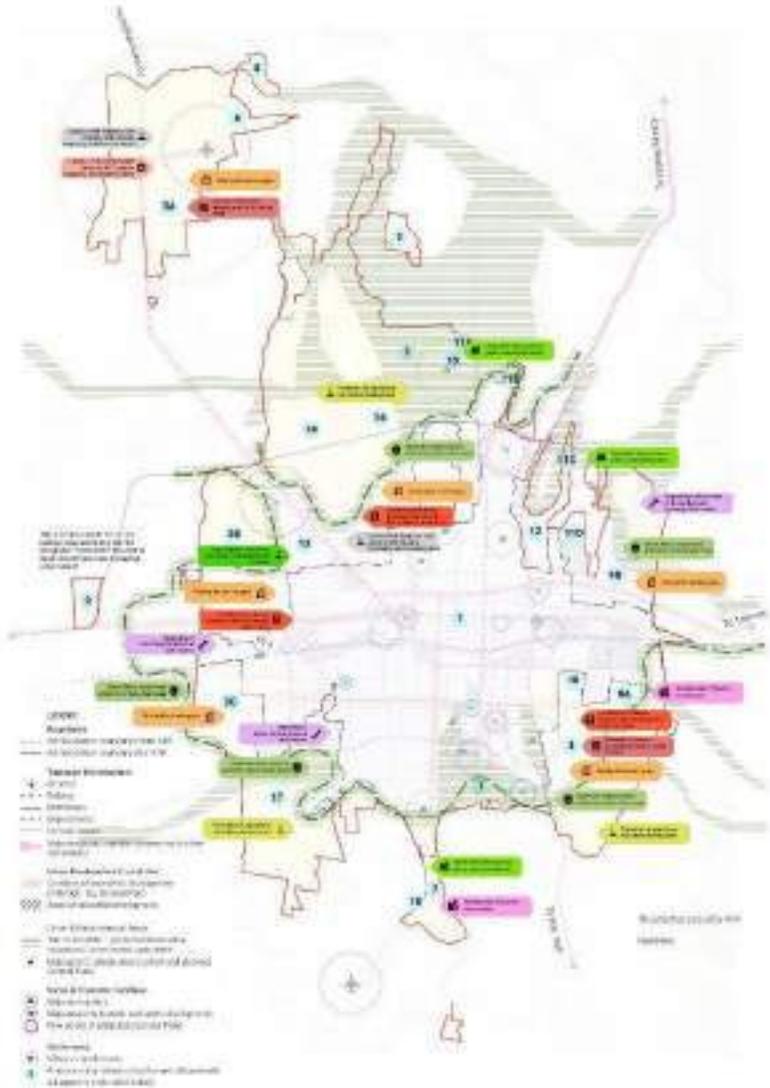
From Voluntary Local Reviews to planning

What to do?	How?	Where?
<p>VLR Bishkek</p>  <ul style="list-style-type: none"> Translating SDGs into local action Provides an operational roadmap Identify root causes and barriers Strengthens data and capacities Promotes a participatory process 	<p>Causal analysis</p>  <ul style="list-style-type: none"> Translate VLR recommendations into operational policies Map the causes, barriers and opportunities for achieving the SDGs Ensure inclusion in all actions 	<p>Administrative extension reform</p>  <ul style="list-style-type: none"> Analyse the current reform Analyse growth and resource demands Provide evidence to guide expansion in a sustainable manner
<p>Analysis of best practices</p> <ul style="list-style-type: none"> Compile proven solutions from global contexts relevant to Bishkek. Provides a practical policy roadmap based on tried and tested approaches. 		

Scenario	Greenhouse gas emissions	Water demand	Waste generation	Land required for population growth	Relative infrastructure cost
"Business as usual" scenario 	1,202 million tonnes CO ₂ e	77.38 million m ³ /year	454,277 t/year	7,875 ha (78.8 km ²)	Index = 1.0
Planned growth 	- 24% (0.914 million tonnes CO ₂ e)	- 20% (61.91 million m ³ /year)	- 10% 408,849 t/year)	- 73% (2,100 hectares / 21.0 km ²)	- 20/- 30%
Sustainable growth 	64% (0.439 million tonnes CO ₂ e)	-40% (46.43 million m ³ /year)	-30% 317,994 t/year)	-85% (1,145 ha / 11.5 km ²)	- 50%

Summary comparison table of the three scenarios

Functions and actions for adjacent territories



- Potential initiatives**
- Agro-logistics hub
 - Agro-logistics for agriculture and livestock
 - Business hub
 - Compact mixed use
 - Increased density (re-densification)
 - Provision of basic services
 - Improvement of informal settlements
 - Green belt improvement
 - Green zone development
 - Agricultural protection zone
 - Development of eco-tourism

Diversification
functional

Densification
instead of
expansion

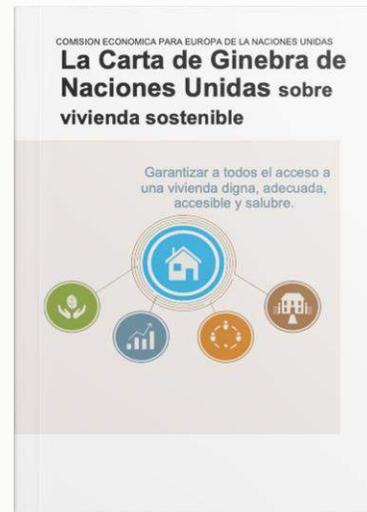
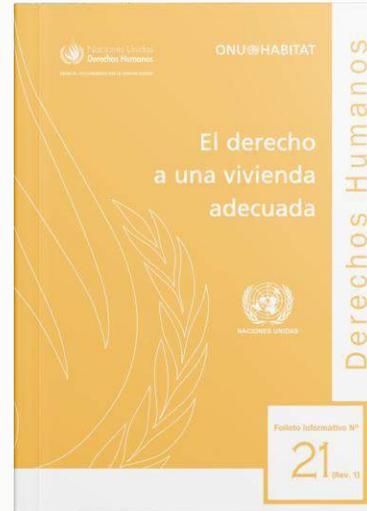
Green belt –
ecological buffer

Integrated clusters

Special Rapporteur on Housing – Office of the High Commissioner for Human Rights

Adequate housing must guarantee much more than just a roof over one's head – it must provide **security, dignity, health** and **accessibility**.

- ✓ Security of tenure
- ✓ Basic services, infrastructure and materials
- ✓ Habitability – physical conditions of the dwelling and urban environment
- ✓ Affordability / reasonable cost
- ✓ Accessibility for vulnerable groups
- ✓ Suitable location
- ✓ Cultural and social suitability
- ✓ Sustainability – energy efficiency



Multidimensional affordability crisis



Increase in purchase and rental prices above wages



Energy and material costs



Structural deficit of social, cooperative and affordable housing



High risk for vulnerable groups



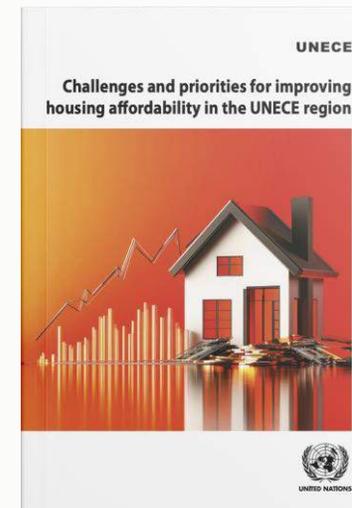
Rigid tenure arrangements that hinder labour and residential mobility



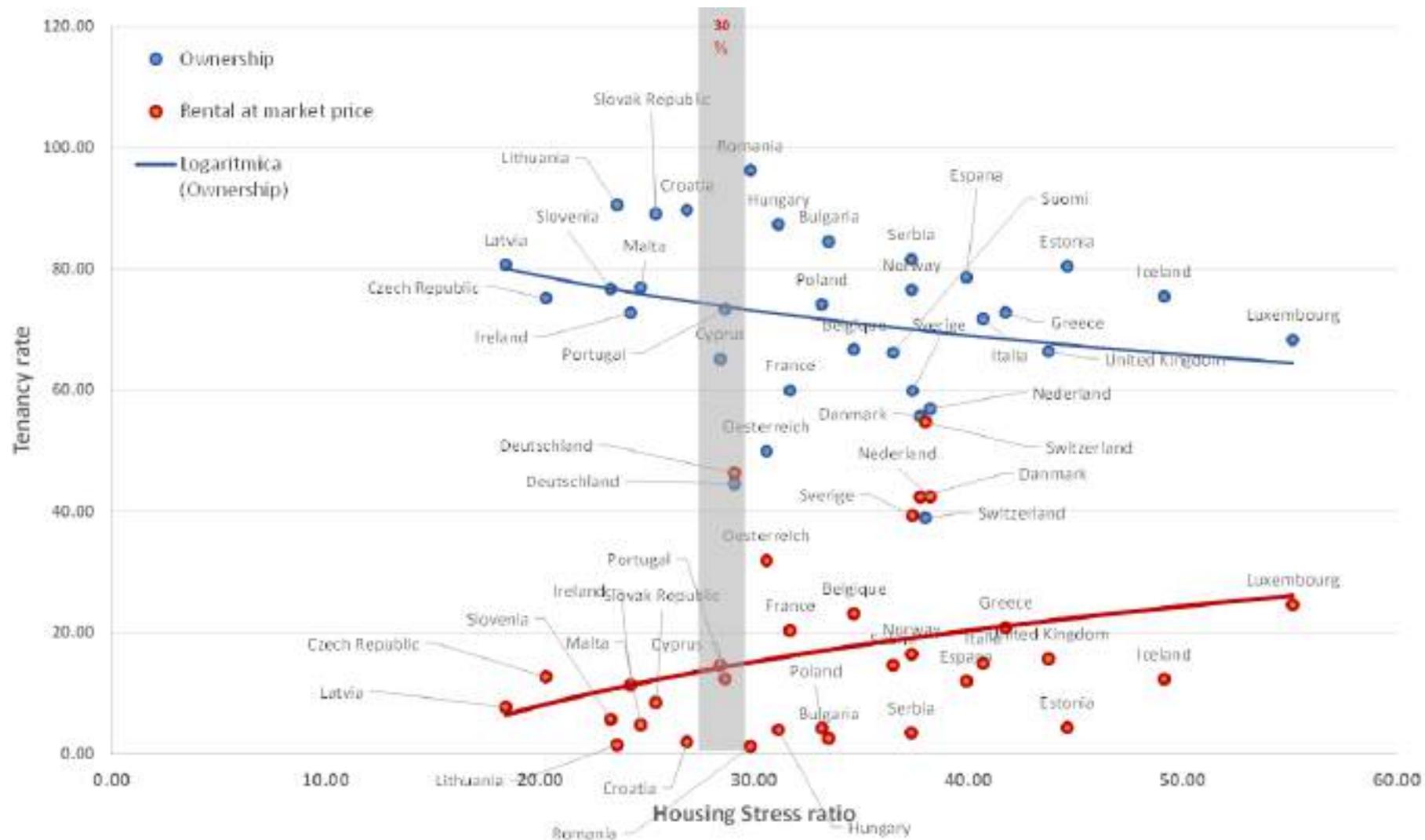
Increased pressure in urban areas



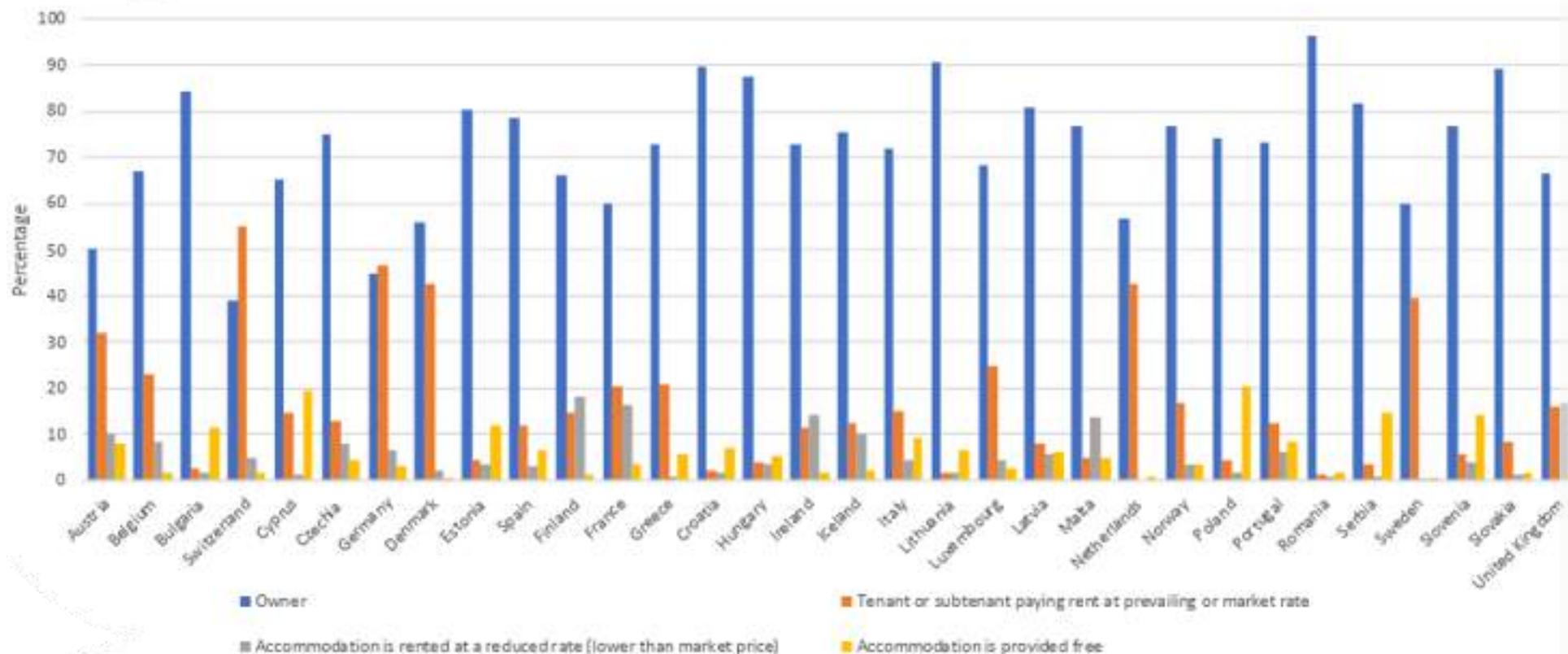
Ecological transition and sustainability requirements



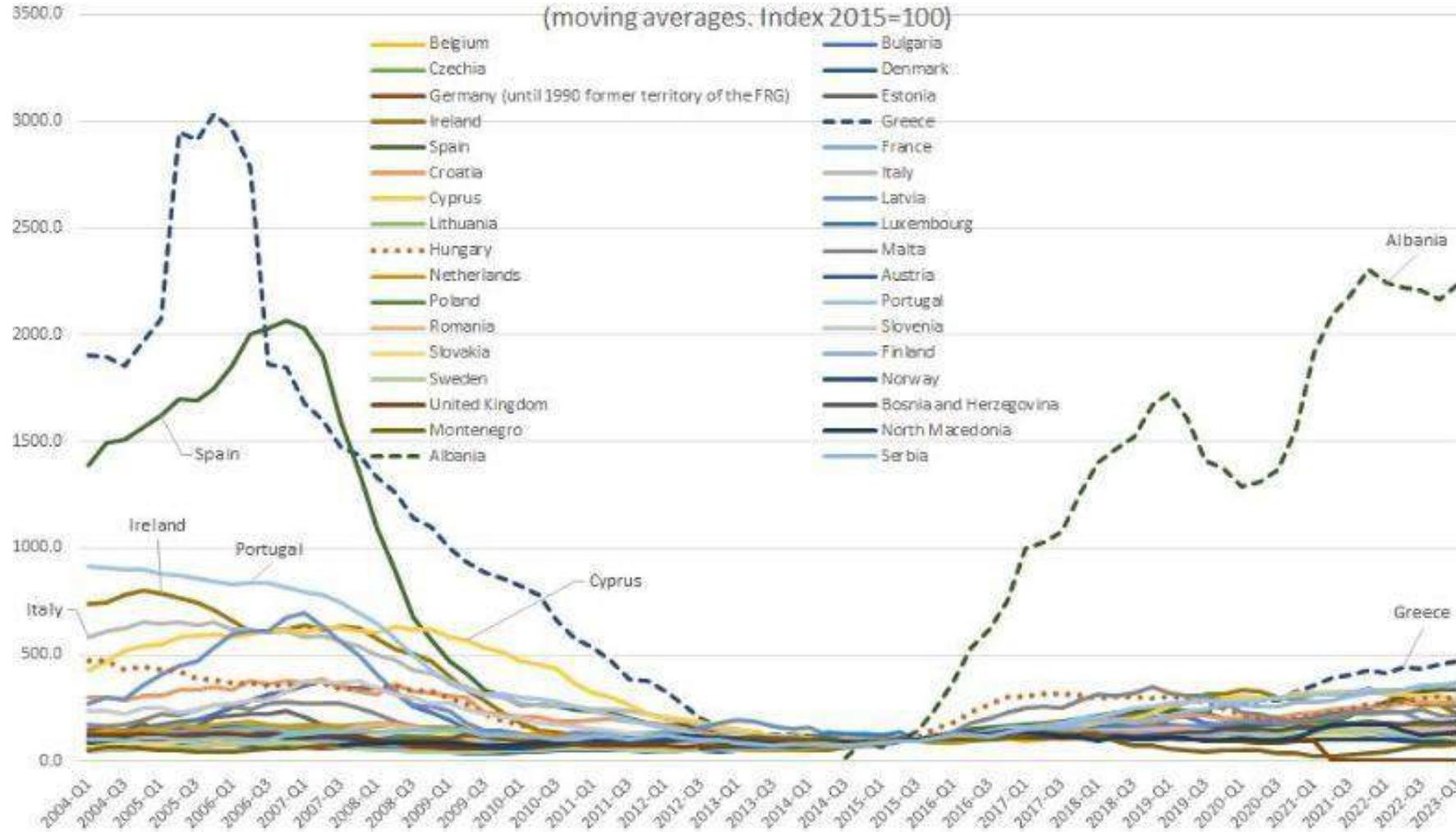
Housing stress for homeowners and tenants



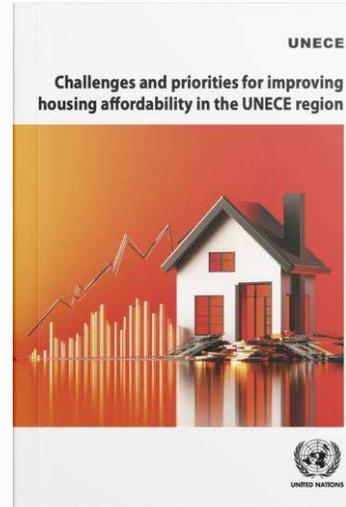
Types of housing in percentages by country



Housing developments started



Source: EU-SILC



Ministerial commitments to affordable and sustainable housing



Massive increase in the supply of affordable, social, cooperative or community housing through active public policies, not just the free market.



Prioritise energy rehabilitation, renovation of existing housing stock and sustainable construction over an exclusive focus on new builds: clean energy, efficiency, climate resilience.



Mobilisation of public/mixed/innovative financing, including green bonds, sustainability-linked loans, and blended finance, to enable affordable and sustainable housing.



Strategic use of land and regulation of land value: public land policies, land value capture, rent regulation and control of land and financial speculation.



Regulation of short-term rentals and property tourism to prevent the conversion of housing to non-residential use, which puts pressure on residential supply.



Social inclusion, equity, and protection of vulnerable groups: recognising the diversity of situations (low income, young people, migrants, vulnerable households) and ensuring fair access to housing.



Multi-scale integrated planning: combining national, regional, and local policies with multi-level governance, strengthening the role of local governments (cities, municipalities) in implementation.



Improved data, transparency and monitoring: commitment to collect and share spatial information (geospatial data, 3D models, housing inventories) to improve diagnosis and planning.

Thank you for your attention

