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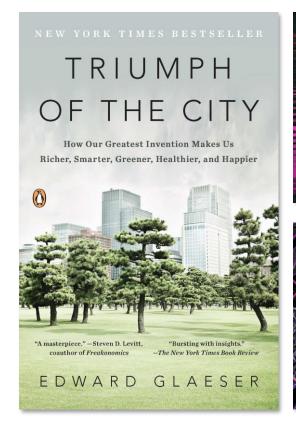
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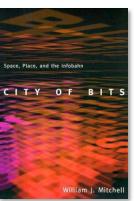
Smart Metromountain: urban and mountain interdependence and physical-digital infrastructures as a tool for a new climate-resilient liveability



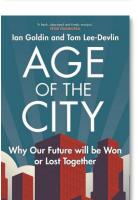


Which triumph for the city?

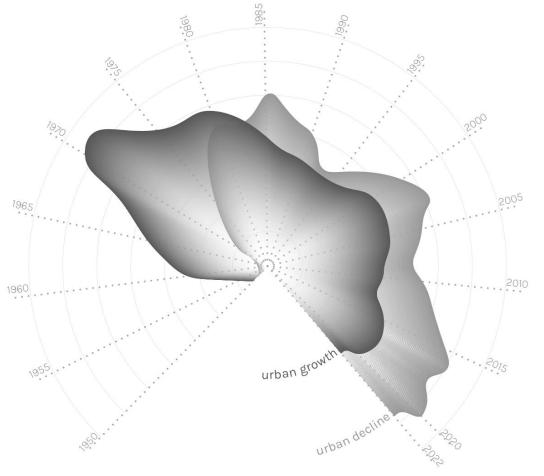








THE FUTURE



Graph made by Mauro Fontana based on Google Ngram.



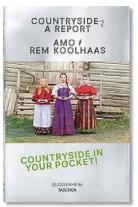


Left Behind Places: A new cultural debate

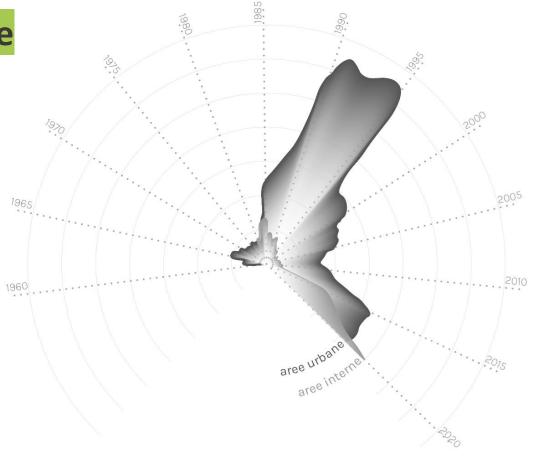










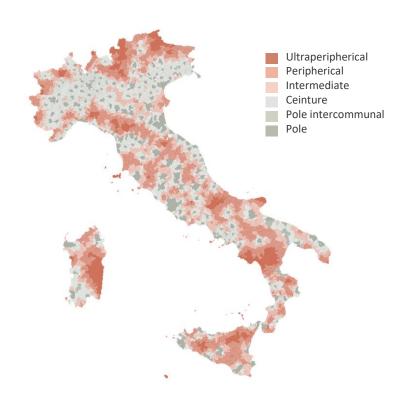


Graph made by Mauro Fontana based on Google Ngram.

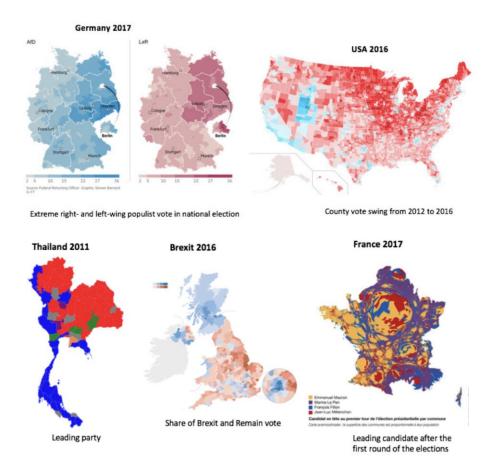




Political consequences



Map of the peripherality for the Strategy for the Inner Areas



The impact of left-behind places on political decisions





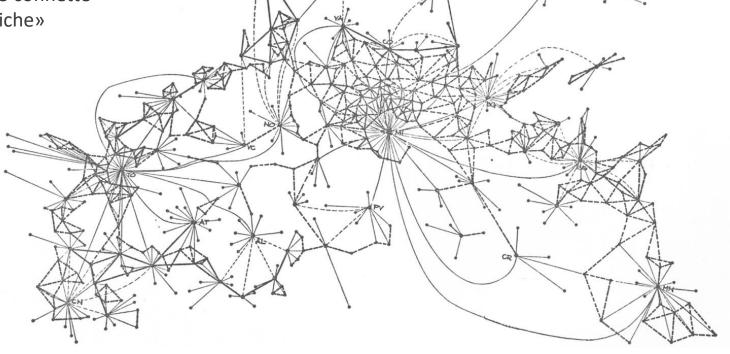
Metromountain: from a theoretical concept...

«Metromontagna è un quasi-concetto: un ibrido che connette e sovrappone finalità conoscitive, prescrittive e pratiche»

Barbera, De Rossi (2021)







"Strutture urbane reticolari in Piemonte e Lombardia, relazioni di interdipendenza" from Dematteis, G. (1989) "Regioni geografiche, articolazione territoriale degli interessi e regioni istituzionali" in Stato e mercato





Metromountain: ...to institutional and strategical level

Institutional figures

City of Cuneo

Assessorato alla Metromontagna **Sara Tomatis**

City of Torino

Assessorato Politiche per l'Area Metropolitana e metromontana Gianna Pentenero (now under the mayor Stefano Lo Russo)

Strategical projects

Metropolitan City of Firenze

Firenze città metro-montana. Indicazioni strategiche per le politiche pubbliche locali

Metropolitan City of Torino

Piano Strategico Metropolitano 2024-2026 della Città di Torino – Metro(poli)montana

Municipality of Saluzzo (with Politecnico di Torino)

Piano Strategico delle Terre del Monviso





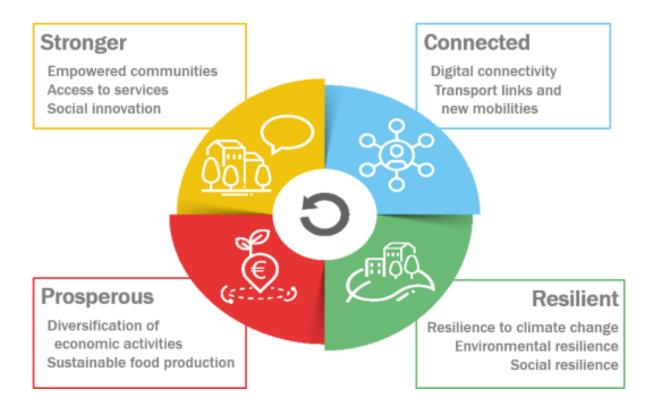


Bottom-up metromountain experiences: a hypothesis of classification

A long-term vision for the EU's rural areas: towards stronger, connected, resilient, and prosperous rural areas by 2040. **European Commission (2021)**



4 BLOCK OF ACTIONS stronger, connected, prosperous, resilient rural areas







Stronger Rural Areas

Under this action area, rural areas benefit from support to empower communities and have access to services to facilitate social innovation, spatial planning and youth involvement.



Metromountain and climate-resilient actions

e-medicine and e-assistance

reduce of emissions and act on climate change cause

climate migrations

are conditioned by climate change effects

models and practices transfer (ex. cohousing)

> reduce of emissions and act on climate change cause





Connected Rural Areas

Under this action area, rural areas benefit from actions to boost sustainable transport **links** and **digitalisation** through investments in infrastructure, technology development and skills enhancement activities.



Metromountain and climate-resilient actions

- innovative and sustainable mobility services reduce of emissions and act on climate change cause
- smart working (no transport need) reduce of emissions and act on climate change cause
- new inhabitants and amenity migration are conditioned by climate change effects





Resilient Rural Areas

Under this action area, rural areas benefit from actions to increase environmental, climatic and social resilience by storing carbon in peatlands and wetlands, enhancing soil health and improving prospects for women and vulnerable groups.



Metromountain and climate-resilient actions

- uses of renewable energy resources reduce of emissions and act on climate change cause limit climate change effects
- development of short supply chains reduce of emissions and act on climate change cause limit climate change effects
- new resettlement and monitoring policies limit climate change effects





Prosperous Rural Areas

Under this action area, rural areas benefit from actions supporting social economy, addressing the needs of young people, promoting bioeconomy and supporting organisations producer producer and groups.



Metromountain and climate-resilient actions

changes of touristic practices paradigms (sustainable and de-seasonal choices) are conditioned by climate change effects

Sustainable production of goods (increase in production altitude) and development of urban seller groups

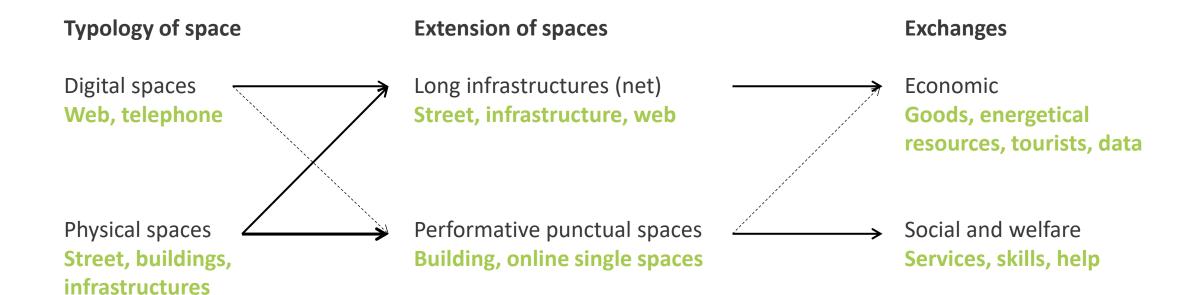
> reduce of emissions and act on climate change cause limit climate change effects

skills transfer - mountains as experimental fields limit climate change effects





Bottom-up metromountain experiences: a spatial classification







Metromountain welfare: which spaces?

Innovative Management Models

Community cooperatives
Consortia and social enterprises
Public-private partnerships
Resident associations
Local institutions
space and

Hybrid and Adaptable Uses

Cultural activities

Training and research activities

Recreational activities

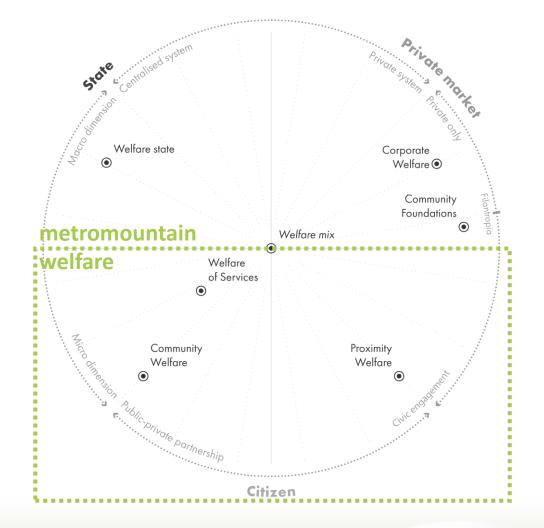
Social and healthcare services

Educational and training services

Local commercial activities

Local production activities

Tourism promotion activities







The case of Ostana: the background

1921

Ostana has 1200 inhabitants



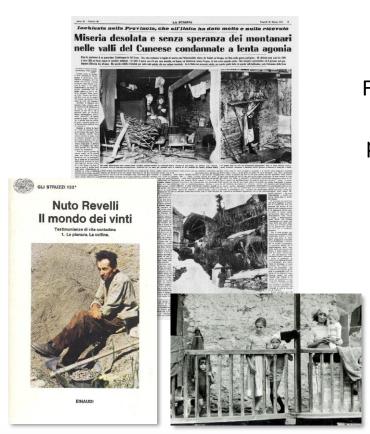
End of XX century

Ostana has only 5 permanent inhabitants



today

Ostana has more than 50 permanent inhabitants (88 residents)



1985 - 2004

From decline to revitalization through practices of enhancement and patrimonialization of local resources.



2004 - today

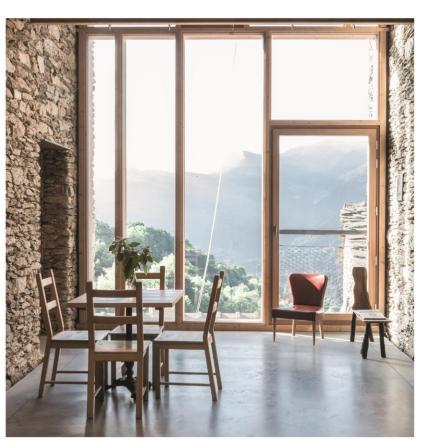
Role of culture, self-centred local development, repopulation and economic revitalization, building a system of skills and alliances with the outside





The case of Ostana: Cultural Center - Lou Pourtoun





Design: M. Crotti, A. De Rossi, M.P. Forsans







The case of Ostana: House of welfare - Mizoun de la Villo





Design: M. Crotti, A. De Rossi, L. Dutto







The case of Ostana: Housing - Valentin





Design: S. Costamagna, A. De Rossi, L. Mascino, M. Tempestini







The case of Ostana: key points



Smart Rural 2021 strategy

- Sustainable environmental development

 Sustainable mobility, natural resources management
- Residentiality

 Regeneration of building, management and funding
- Culture and social innovation

 Culture and community-based actions, new services



'Viso a viso' Community cooperative

- Cultural and welfare building
 Restaurant, Library, Auditorium and Coworking
- 'Scuola di O'
 School 1-3 years old children also from city
- 'Segnavia Porta di Valle Varaita'

 Urban-mountain exchanges





Conclusion

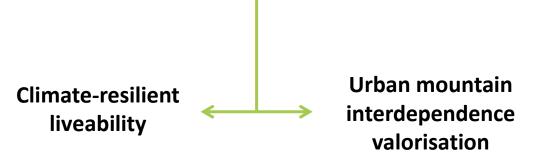
Smart cities, smart villages, smart rural

Risk of transposition of the urban model on mountain areas



Smart territory

large-scale, urban and mountain together







THE 1ST SMART CITIES, TOWNS, RURAL AND MOUNTAIN VILLAGES INTERNATIONAL CONGRESS



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