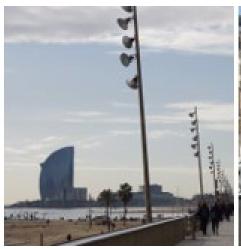


Maritimity and habitability of large Mediterranean coastal cities Maritimité et habitabilité des grandes villes littorales méditerranéennes



























Habitability: A relevant concept for studying large coastal cities?

Theoretical introduction and early researches



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1) What is Habitability?:

French:

"Habitabilité" = "Qualité de ce qui est habitable» (Le Robert) / Neologism, 1801

English: Coexistence of several words / spelling

Habitability: "The quality or fact of being habitable" (Oxford) / Early 1700s, "natural philosophers"

Liveability / Livability : "Ability to survive; Fitness for life" (Oxford) / "The degree to which a place is suitable or good for living in" (Cambridge) / 1850 (E. Johnson)

A definition that is not stabilized yet

How habitability can be described and defined in the other languages?

Spanish / Catalan : Habitabilidad ? (*DEL*) Habitabilitat ? (*GDLC*)

? صلاحية السكن ? قابلية السكن : Arab

Italian: Abitabilità? Vivibilità? (Treccani)

2) Use of the concept in the scientific literature?



Storer, 1870 = "Our cities: their present position and requirements"

1950s = "Livability" became a "strong linguistic mechanism" with "The Electors Action Movement" (TEAM) (Ley, 1990; Kaal, 2011, Mansour, 2016)

1980s = A catchphrase in urban studies following "Liveable Streets" (Appleyard, 1981)

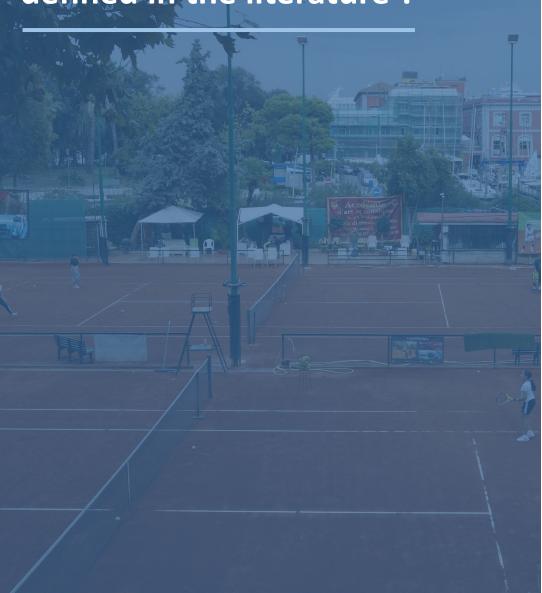
1987 / 1992 = Bruntland + Rio = A concept closely linked to sustainability (Allen 2010; Ruth and Franklin 2013, Gough, 2015a,b)

1999 = B. Clinton and A. Gore "Livability Agenda" (USA) = Increase of papers dedicated to this topic (Herrman & Lewis, 2017)

2010-2020 = A consensus to say that habitability has moved back **to centre** stage in the last decade (*Barrioz & Laslaz, 2025*)

= A concept widely used in urban studies

3) How is habitability defined in the literature?

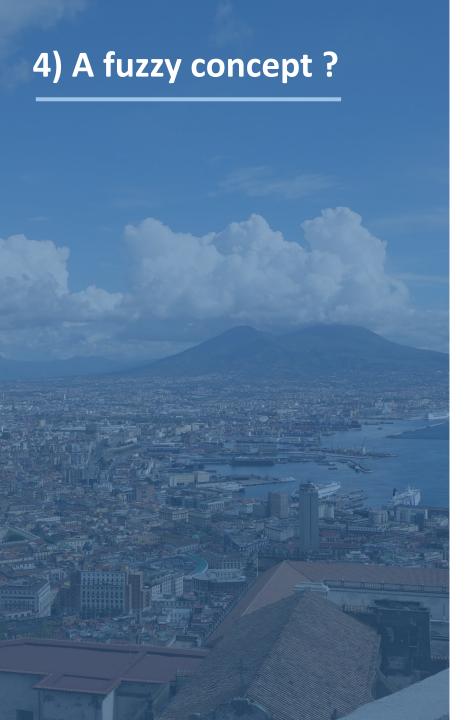


Many definitions coexist, both in French and English literature. Here, we focus on 3 general definitions:

Jomehpour, 2015: "Liveability is the sum of the sociophysical and socio-cultural factors (access to amenities, safety, environmental quality and social cohesion) that can improve and upgrade living standards of any spaces"

Paul & Sen, 2020: "A Holistic paradigm of human development and community well-being"

Barrioz & Laslaz, 2025: "the ability of human beings to inhabit a liveable space and to adapt to the conditions they deem necessary for their overall well-being and health"



Despite various definitions ...

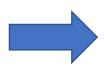
... We face several limitations of current conceptualizations of livability (Gough, 2015a)

The previous slide show this concept encompasses many factors ...

- Some have an **objective** dimension (e.g. access to healthcare, food and physical safety, etc.)
- But most are **subjective** (*landscape amenities, living together, etc.*)
- Or depend on **local political conditions** (*public transport, design of public spaces, etc.*).

... And different scales:

- -Home,
- -Streets,
- -Neighbourhoods,
- -Cities,
- -Regions ...



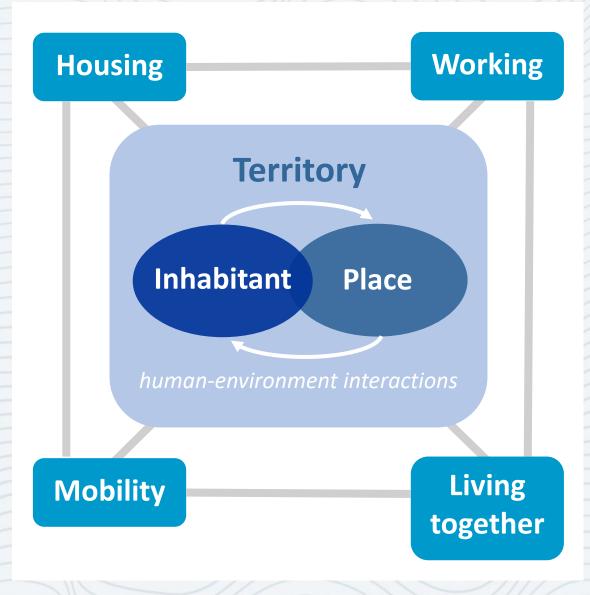
Why refer to habitability?

5) A pragmatic approach to sustainability?



Despite these limits =

- Liveability = a pragmatic implementation of the sustainability (Gough, 2015a,b; Zhan et al., 2018) = "liveability offers a way to translate sustainability into a context that relates more closely to interventions"
- Particulary adapted to small geographic areas (*Pacione 1990*, 2003; *Portney 2013*) -> e.g. = cities and their metropolitan areas
- = Many works fall within the field of urban studies : from biochemists interested in water quality, to sociologists concerned with community use, to urban planners interested in the design of public spaces (...)
- Various systemic and integrated indices to assess the habitability of cities **based on the three components of sustainability** -> using ecological, social and economic factors (*Higgs et al., 2019, 2022; Gilles-Corti, 2022; Dadpour et al., 2024...*)



6) « Modes d'habiter » : A relevant framework for habitability ?

- A theoretical framework carried by **Nicole Mathieu** (1996, 2007, 2014 ...)
- A systemic vision: a concept that studies both the biophysical reality of the territory and its social component
- A broader idea of living than just "inhabiting a given place": it includes housing, mobility, working and living together = key variables to assess a place habitability
- **Linked to the habitability** of the urban environments (Hucy et al., 2005 in Mathieu & Guernond, 2005)



1) Coastal influence

How does the sea affect the habitability of coastal cities ?

- Coastal risks (erosion, submersion, flooding)
- Environmental impact of maritime traffic (air quality, cruises, road traffic, etc ...)
- Key to the economic development of these cities (jobs linked to the port, tourism, fishing, etc ...)
- Influences local climate (e.g. during heat waves)
- Physical and visual connection with a natural element / A popular landscape in western countries
- Coastal areas conducive to physical activities, resourcing, social practices
- Are these points addressed by researches dealing with large coastal cities habitability?



2) Systematic literature review

Goals linked to this review:

- Do large coastal cities receive **special attention** in liveability researches?
- If so, how are their **coastal and maritime dimensions** integrated?

Keyword cross-searches on the WOS + Identifying papers dedicated **to** coastal towns (national stats) + Analysis grid

Very first results / 128 papers

- Coastal dimension not taken into account = a context, not included to the variables
- ... Despite various « integrated indices »
- **Sectorial approaches**: social practice, water quality, public transportation efficiency ... = **Habitability not always treated as a whole**



Thank you for your attention

References

Allen, T. F. H. (2010). "Making Livable Sustainable Systems Unremarkable." Systems Research and Behavioral Science 27 (5): 469–79.

Appleyard, D. (1981). Liveable Street, University of California Press.

Barrioz, A., Laslaz, L. (2025). « Habitabilité : tour d'horizon d'une notion et de ses limites », Géoconfluences, janvier 2025.

Dadpour, R., Law, L., & Osbaldiston, N. (2024). Expected Versus Experienced Liveability for Amenity Migrants in Cairns, Australia: The Grass is not Always Greener in the Tropics. Urban Policy and Research, 42(3), 263–277.

Giles-Corti, B., Saghapour, T., Turrell, G., Gunn, L., Both, A., Lowe, M., Rozek, J., Roberts, R., Hooper, P., Butt, A., Higgs, C. (2022). "Spatial and socioeconomic inequities in liveability in Australia's 21 largest cities: Does city size matter?", Health & Place, Volume 78.

Gough, M., (2015a). "Reconciling Livability and Sustainability." Journal of Planning Education and Research 35 (2). SAGE Publications:145–60.

Gough, M., (2015b). "Three reasons to use liveability as a vehicle for sustainability", Planetizen.

Herrman, T., & Lewis, R. (2017). "What is livability." Eugene: sustainable cities initiative SCI.

Higgs, C., Badland, H., Simons, K. et al. (2019). "The Urban Liveability Index: developing a policy-relevant urban liveability composite measure and evaluating associations with transport mode choice." Int J Health Geogr 18, 14.

Higgs, C., Alderton, A., Rozek, J., Adlakha, D., Badland, H., Boeing, G., Giles-Corti, B. (2022). "Policy-Relevant Spatial Indicators of Urban Liveability And Sustainability: Scaling From Local to Global." Urban Policy and Research, 40(4), 321–334.

Hucy, W., Mathieu, N., Mazellier, T., Raynaud, H. (2005). « L'habitabilité des milieux urbains : un objet au croisement des disciplines » in Mathieu N. et Guermond Y. (dir.) (2005), La Ville durable, du politique au scientifique, éditions Inra-Quae, 286 p.

Jomehpour, M. (2015). "Assessing the livability of the new and old parts of tehran, municipality districts 22 and 10 of Tehran." Available at:. OIDA Int. J. Sustainable Development 8 (9), 87–96.

Kaal, H. (2011). "A Conceptual History of Livability." City: Analysis of Urban Trends, Culture, Theory, Policy, Action, 15(5), 532-547.

Ley, D. (1990). "Urban Liveability in Context". Urban Geography, 11(1), 31-35.

Mansour, H. M. (2016). Liveable Urban Areas and New Housing Typologies. A Case Study in Vila Nova de Famalicão, Portugal (Master's thesis, Universidade do Porto (Portugal)).

Pacione, M. (1990). "Urban Liveability: A Review." Urban Geography 11 (1): 1–30.

Pacione, M. (2003). "Urban Environmental Quality and Human Wellbeing—A Social Geographical Perspective." Landscape and Urban Planning 65 (1): 19–30.

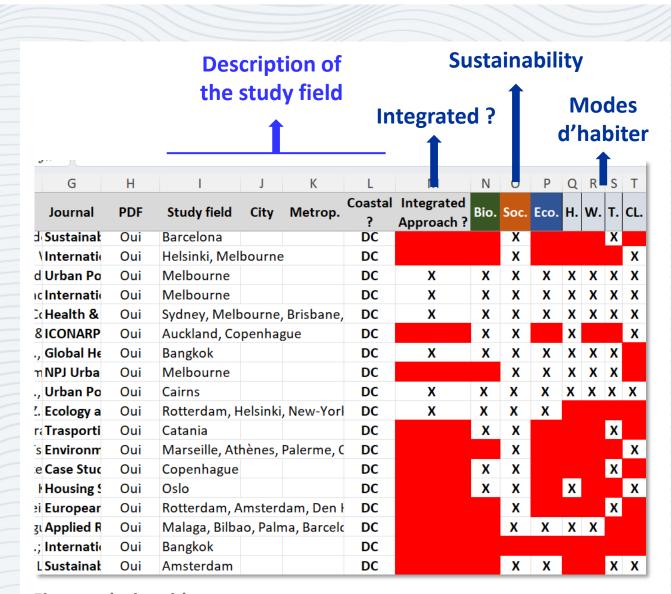
Paul, A., Sen, J. (2020). "A critical review of liveability approaches and their dimensions", Geoforum, Volume 117, 90-92.

Portney, K. (2013). "Taking Sustainable Cities Seriously: Economic Development, the Environment, and Quality of Life in American Cities". Cambridge: MIT Press.

Ruth, M., Franklin, R.S. (2013). "Livability for All? Conceptual Limits and Practical Implications." Applied Geography 49:18–23.

Zhan, D., Kwan, M. P., Zhang, W., Fan, J., Yu, J., & Dang, Y. (2018). Assessment and determinants of satisfaction with urban livability in China. Cities, 79, 92-101.

Appendix: First methodological approach



Analysis grid:

Use of an analysis grid to define how habitability and the sea are addressed

Frameworks: Sustainability + Modes d'habiter (Housing, Working, Transp., Community Life)

Cross keywords:

Topic	Liveability	Livability	Habitability	Sustainable	Life
Urban	116	?	16		
Urban + Coastal	2	?	?	;	
Cit*	?	?	?	?	
Coastal Cit*	?	?	10	52	
Coastal	10	?	62		35