Review of the European reference framework for sustainable cities

Amanda K. Winter

Abstract
This review examines the European Reference Framework for Sustainable Cities, an online framework for use by urban practitioners to evaluate and visualize the sustainability profile and priorities of an urban sustainability plan, policy, or initiative. This review presents recognized benefits and challenges from a testing phase of the framework, how it fits into the European Urban Agenda, and more broadly how indicator frameworks connect to the global urban sustainability context.

Keywords Urban sustainability · sustainability indicators · EU Urban Agenda · sustainable development

The European Reference Framework for Sustainable Cities (RFSC, see CEREMA 2016) is an online framework for use by urban practitioners to evaluate and visualize the sustainability profile and priorities of an urban sustainability plan, policy, or initiative. To develop this framework, a working group of EU representatives and the Council of European Municipalities and Regions selected 30 actions based on (1) their relevance to the EU Urban Agenda and (2) the accessibility and availability of relevant data needed to assess the indicators. The EU Urban Agenda (European Commission n.d.) emerged from the 2007 Leipzig Charter (European Commission 2007), where common urban development principles were agreed upon, and the 2008 Marseille Declaration, where a tool to implement those principles (the RFSC) was agreed upon. The EU Urban Agenda seeks to streamline existing EU regulations with urban concerns to address socioeconomic inequalities and improve community wellbeing.

The RFSC is managed by the French government’s Centre of Expertise on Risk, Environment, Mobility and Planning (CEREMA) and the framework’s 30 actions are broken into five dimensions: spatial, governance, social, economic, and environmental.

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Users can select any or all actions. Each action has a set of indicators to input data, and this will create a profile based on the RFSC or the 17 Sustainable Development Goals.

The benefits of the RFSC appear to be its accessibility (free for anyone in the world to use with a simple registration and without commitment), flexibility (chose any or all indicators for a specific plan or the entire city), and the visual outputs (radar charts) – for cities of any size. As noted in a report on the testing phase with 66 cities, users found the RFSC helpful to track progress, identify weaknesses, conduct initial assessments, and develop coordination strategies between different municipal departments and government levels (Van Dijken et al. 2012). For example, two departments in the La Rochelle (FR) municipality separately applied all of the RFSC indicators to several environmental initiatives (eco-districts, biodiversity planning, and the Agenda 21 plan) yet arrived at different outcomes, and this prompted communication across sectors. Some cities in the testing phase applied the RFSC to their overall sustainability plans and some applied it to specific initiatives: Maia (PT) assessed a river water quality project and Velenje (SI) developed a bicycle scheme. The testing phase revealed that city size was a factor for uptake of the tool: small and medium sized cities showed more interest as they lacked in-house planning staff and frameworks compared to larger cities. The early version of the RFSC was criticized for not accommodating different sized cities, being too complex, and time-consuming (Van Dijken et al. 2012).

The broader context into which this framework sits is a societal trend of global urbanization and climate change, where cities have been tasked to economically

| Spatial dimension | Governance dimension | Social dimension |
|-------------------|----------------------|-----------------|
| 1. Develop sustainable urban planning and land use | 7. Ensure an integrated territorial strategy | 13. Ensure social inclusion |
| 2. Ensure spatial equality | 8. Foster sustainable administration and financial city management | 14. Ensure social and intergenerational equity |
| 3. Encourage territorial resilience | 9. Implement a process for assessment and on-going improvement | 15. Build up a supply of housing for everyone |
| 4. Preserve and enhance urban, architectural and cultural heritage | 10. Increase citizen participation | 16. Protect and promote health and well-being |
| 5. Promote high quality and functionality of public spaces and living environment | 11. Strengthen governance in participation | 17. Improve inclusive education and training |
| 6. Develop alternative and sustainable mobility | 12. Facilitate capacity building and networking | 18. Promote culture and leisure opportunities |

| Economic dimension | Environmental dimension |
|--------------------|-------------------------|
| 19. Stimulate green growth and the circular economy | 25. Mitigate climate change |
| 20. Promote innovation and smart cities | 26. Protect, restore and enhance biodiversity and ecosystems |
| 21. Ensure connectivity | 27. Reduce pollution |
| 22. Develop employment and a resilient local economy | 28. Adapt to climate change |
| 23. Encourage sustainable production and consumption | 29. Manage natural materials resources sustainably and prevent waste |
| 24. Foster cooperation and innovative partnerships | 30. Protect, preserve and manage water resources |
develop, improve local environmental conditions, accommodate growing populations, and provide better quality of life. This is reflected in the RFSC’s promotional slogan: ‘creating green, inclusive, and attractive cities.’ Thus, urban practitioners have sought to measure and track progress in different sectors that often fall under the wide-ranging notion of ‘sustainability’ (see The European Commission’s 2018 Report on ‘Science for Environmental Policy’ for descriptions of popular indicator frameworks). A map of users on the RFSC website shows that the framework is employed around the world; this is also seen as a tool to encourage knowledge exchange. Similar to this is the STAR Community Rating System to assess local sustainability and share best practices in the US (STAR Communities n.d.).

This practice of plan assessment via indicators often provokes debates of power, public engagement/participation, and the politics of choosing what to measure and how. Since funding is often tied to measurement, indicators that are difficult to quantify, and in addition possibly politically risky to confront, such as those in the RFSC’s Social and Governance Dimensions, may have funding challenges. Also unresolved in the RFSC is the fact that pursuing progress in one indicator may have unintended consequences and contradict progress in another indicator. One example in which this may be the case is with respect to mitigating climate change compared to adapting to climate change (see the RFSC’s Environmental Dimension). Kaika (2017, p. 94) warns that indicator programs have existed at least since the 1987 UN Brundtland Report and the lack of progress toward sustainable cities in this period should give indicators advocates pause. To Kaika, this failure “should have also made us wise enough to stop claiming that global socio-environmental equality, social welfare or value creation can be reduced to indicators.” She also warns of a trend in the past decade by which such indicator programs conflate ‘smart’ and ‘green’ with ‘sustainable’, without good reason. Despite these critiques, significant efforts to internationally promote and institutionalize the use of indicators to measure sustainability in cities continue. This trend and the RFSC offer a learning opportunity to better understand, compare, and track urban sustainability initiatives in Europe and beyond.

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Compliance with ethical standards

Conflict of interest The author declares no conflict of interest.

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