

UP2030

Urban Planning and design ready for 2030



D5.7 — Online Learning Programme materials



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About UP2030:

UP2030 is dedicated to aiding cities in achieving climate neutrality through enhanced urban planning and design. The project introduces the innovative 5UP approach to support city stakeholders and local authorities in integrating climate-neutral strategies into their everyday actions and long-term planning. Focused on promoting spatial justice and inclusive participation, UP2030 empowers communities and local governments to become agents of change, driving socio-technical transitions that enhance urban liveability and sustainability. The project's strategy aims to produce actionable insights and scalable solutions for urban environments, prioritizing resilience, equity, and sustainable urban development.

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Abstract	Deliverable 5.7 — Online Learning Programme materials, details the final development and materials for the UP2030 project's Massive Open Online Course (MOOC). The MOOC " How to Build Carbon Neutral, Resilient and Just Cities " is designed to empower city practitioners with knowledge, skills, and tools necessary to integrate carbon neutrality, resilience, and spatial justice into urban planning, decision, and policymaking. Structured around the project's 5Ups approach (UP-Dating, UP-Skilling, UP-Grading, UP-Scaling, UP-Taking), the program comprises five modules featuring theoretical content, technical tool tutorials, and case studies from partner cities of UP2030. This report outlines the MOOC's pedagogical design, learning objectives, and the comprehensive structure of its 12 hours curriculum. It also describes the development of the hosting platform, including its features and interactive elements. Furthermore, the document presents the dissemination strategy to maximize reach and a sustainability plan to ensure the course's long-term viability and impact as a key legacy resource for the UP2030 project.			

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Executive summary

The training program aims to empower city practitioners with comprehensive knowledge, skills, and tools essential for integrating principles of carbon neutrality, resilience, and spatial justice for urban planning practices. Additionally, it seeks to inspire them with a systematic process based on the 5UPs approach, which is at the centre of the UP2030 project. The 5UPs approach is a step-by-step framework made up of five consecutive stages: UP-Dating, UP-Skilling, UP-Grading, UP-Scaling, and UP-Taking. Notably, the program accentuates the tools and methodologies developed during the project, showcasing concrete examples from collaboration within the 11 city partners.

Delivered as a Massive Open Online Course (MOOC), the training program **"How to Build Carbon Neutral, Resilient and Just Cities"** consists of highly comprehensive videos and units. Its structure encompasses a methodical curriculum covering theoretical foundations, technical aspects, and case studies. While primarily disseminated through the MOOC platform of 12 hours of flexible studying, the videos will also be independently accessible, catering to individuals with specific interests or learning requirements.

Structured into five modules, the program begins with theoretical knowledge alignment, followed by methodological steps focusing on capacity building and implementation. These steps are reorganized around the 5UPs approach to resonate with the project's identity and narrative, and to capitalize on the diverse outcomes of the UP2030 project.

The program commences by introducing the training methodology and an overview of the UP2030 project. It aims to guide participants in understanding the "what" before delving into the "how" by facilitating the development of urban visions and goals, introducing the concept of adaptive pathways, and providing inspirations tailored to cities' contexts. The subsequent units follow the 5UPs process, supported by tutorials about the useful tools, illustration of urban transformation and governance processes, and showcasing the project cities' work.

The first module focuses on **aligning knowledge on the project's main concepts and explaining UP2030's approach**. It includes most of the theoretical content about the project, high-quality, accessible courses on major concepts related to resilient, carbon neutral, and just urban transformations, and emphasizes identifying needs and barriers while building a vision. The second module emphasizes **building capacities for urban planning and design transformation pathways**. It provides guidance and technical knowledge to upskill the entire stakeholder ecosystem, from urban practitioners to citizens. It is followed by the third module that supports the implementation of transformation prototypes at a suitable scale and updating urban planning practices. The fourth module focuses on **extending solutions across scales and integrating them across sectors**. It addresses the need for updating governance arrangements and aligning projects with financial resources and is designed in coordination with ICLEI's Upscaling Service Platform. The fifth module supports knowledge uptake and encourages alumni to share the program within their networks, join a community of practice, and promote the mission's scope and impact.

This deliverable marks the final phase of the training program's development, focusing on its design, methodology, platform development, and sustainability and contingency plan. With continuous updates, the content of the MOOC is planned to evolve through time based on current context and feedback.

Content alignment with other UP2030 deliverables

The UP2030 project fosters exchange and cooperation among partners and deliverables beyond the work package's structure. Therefore, the content of this document has been developed in alignment with UCCRN, TUD, UCAM, ICLEI, RCities, Pilot Cities, TSPA, and Work Packages. The following table lists the deliverables (D) and milestones (Mil.) that were input for this present document and the upcoming ones that could benefit from the content here presented.

Input from	Contributes to
D2.1 – The 5UP approach and its contextualization in the project cities D6.8 – Exploitation & Sustainability Planning & Activities Report 1 D5.6 – Learning Programme Design, Development and Sustainability.	D5.3 – UP2030 Service platform.
	Mil.15 – Training program successful delivery completed. Mil.16 – Service platform up operative.

The primary target group for this deliverable are the UP2030 partners: Liaison, Cities, and Technical Partners, as this deliverable represents the final document explaining the development of the MOOC with its final structure, visual of the platform, and functionalities. The International University of Catalunya (UIC) was responsible for the production phase, which is addressed in this deliverable.

The MOOC Platform is ready and operational and will be disseminated through various partners' websites, social media (LinkedIn) and networks, independent video dissemination, events, collaborations with other projects, and by encouraging participant advocacy.

Acronyms

Acronym	Full name
5UPs	Step-by-step integrated approach featured in the UP2030 Project and the MOOC
D	Deliverable
GA	Grant Agreement
GIS	Geographic Information System
GGGI	Global Green Growth Institute
NZC	NetZeroCities
Mil	Milestone
MOOC	Massive Open Online Course
RCities	Resilient Cities Network
TUD or TU Delft	Technical University of Delft
UCAM	University of Cambridge
UCCRN	Urban Climate Change Research Network
UIC	Universitat Internacional de Catalunya
URLab BCN	Urban Resilience Lab Barcelona
URNet	Urban Resilience Research Network
VTT	Video Text Tracks
WP	Work Package

1 Introduction

The development of this training program "**How to Build Carbon Neutral, Resilient and Just Cities**" marks a significant step in bridging the gap between academic advancements and practical urban planning. The primary aim is to empower city practitioners with the comprehensive knowledge, skills, and tools necessary for integrating principles of carbon neutrality, resilience, and spatial justice into their urban planning practices. This report focuses on the last phase of the Massive Open Online Course (MOOC) development, detailing its purpose, design, structure, modules, features, implementation plan, sustainability plan, and limitations.

1.1 Purpose and Scope

The purpose and scope of this document is to report and list the content and format of the course. It will address the structure of the MOOC, details about its content, and a presentation of the platform delivered with its functionalities.

1.2 Document Structure

The document is organized as follows:

- ❖ Section 1 – Introduction: description of the purpose and scope of the document and its structure.
- ❖ Section 2 – MOOC program design: the learning objectives, the pedagogical approach, the program overview and structure, and the potential additional content.
- ❖ Section 3 – Platform development and functionality.
- ❖ Section 4 – Dissemination and Sustainability plans: financially, over the long-term and in the event of unforeseen circumstances.
- ❖ Section 5 – Limitations.
- ❖ Section 6 – Conclusion.

1.3 Integration within the Project

Deliverable 5.7 (D5.7), is responsible for producing and releasing the actual content and MOOC, is the continuity of [D5.6 – Learning Programme Design, Development and Sustainability](#), that outlines the design and implementation plan for modules and methodologies, along with a sustainability plan for a learning program in MOOC format. Contributors to these tasks include Urban Climate Change Research Network (UCCRN), Technical University of Delft (TUD), University of Cambridge (UCAM), ICLEI European Secretariat (ICLEI), Resilient Cities Network (RCities), and the UP2030 Pilot Cities.

Integration of this task within the project occurs in two distinct phases. The first phase, during the project's development, involved collaboration with partners within the consortium. Activities during this phase included the evolution of the project and other deliverables, identifying training needs, and creating content for knowledge alignment.

The second phase aimed to contribute to the project's legacy and support its primary objective of facilitating urban transition processes for European cities. This phase involves ensuring that the training provided presents, explains, organizes, and connects every product of UP2030 (tools, processes, theoretical frameworks, etc.) with practitioners working within cities on similar topics. To achieve this, the design of the training must be integrated with the globality of the project. This was

accomplished through collaboration with task leaders, the contributors mentioned above, and numerous meetings and workshops since the beginning of the project, ensuring its relevance and applicability beyond the UP2030 consortium.

As several platforms and products (Software, websites, frameworks, reports...etc.) were developed within the project, it was crucial to coordinate and link with other task leaders to maintain coherence and ensure the best user experience for those navigating between different UP2030 products.

2 MOOC program design: the learning objectives, the pedagogical approach, the program overview and structure and the potential additional content.

This chapter delves into the detailed design of the UP2030 MOOC program: **"How to Build Carbon Neutral, Resilient and Just Cities"**. From establishing clear learning objectives to outlining the pedagogical approach and module overview, each subsection offers insights into the comprehensive structure of the MOOC program. By carefully crafting the design elements, the aim is to ensure that the program meets the diverse learning needs of city practitioners while fostering engagement, accessibility, and knowledge acquisition. The link to the MOOC can be found [here](#).

Based on the identified gaps and opportunities in previous steps and reports, this course has been designed to maximize the integration between carbon neutrality, resilience, and spatial justice, addressing the issue of educational silos. Emphasizing a multidisciplinary approach, the program design moves beyond technical (easy fix) solutions to the complex urbanization issue of responding to climate change.

The following subsections explore the key components of the UP2030 MOOC program design, detailing how it will facilitate meaningful learning experiences and contribute to the overarching goals of the UP2030 project.

2.1 Learning Objectives

The learning objectives are related to each group of potential profiles interested in the UP2030 MOOC. On one side, the aim is to address city practitioners, aiming beyond project cities, and on the other, to reach consultants in the different fields linked to the project's pillars. University students are not the main target group of this training. Because of this orientation, the learning objectives are twofold: first, to mainstream the relationship between carbon neutrality, resilience, and spatial justice among cities and introduce the tools that can be used; second, to enhance consultants' critical view of the needed link among these concepts and enable them to use more open and user-friendly tools as it has been observed that those concepts are siloed and limit the development of a holistic implementation.

The goal of the first part of the UP2030 MOOC is to familiarize participants with the 5UPs step-by-step holistic approach outlined in the UP2030 project. By empowering them with comprehensive knowledge and practical skills, the program aims to equip participants with confidence and competence to take action in their cities using the step-by-step governance process of the 5UPs as their learning journey. This includes ensuring a strong understanding of key urban challenges and providing accessible training on existing tools and processes.

In addition to theories and tools, the UP2030 MOOC seeks to inspire participants through both conceptual aspirations and concrete examples of successful urban transformations. By showcasing inspiring concepts such as the "15-minute city" and the "sponge city," as well as empirical case studies from project implementations, the UP2030 MOOC aims to provide both inspiration and practical guidelines through examples.

Upon completion of the MOOC, participants will be equipped with the necessary theoretical background, technical tools, and practical inspirations to drive urban transformations centred on resilience, carbon neutrality, and spatial justice. The program aims to empower participants to make a meaningful impact on their work with cities, contributing to sustainable and equitable urban development.

2.2 Pedagogical Approach

The pedagogical approach of the training program is designed to provide effective learning experiences that resonate with city practitioners' needs and challenges. Central to this approach is the recognition that traditional, in-person academic methodologies may not fully meet the practical demands of working professionals. Conversely, current short online courses often do not provide enough in-depth content to be considered effective. Therefore, considering the gaps and opportunities within the online education offerings, the pedagogical framework of the UP2030 MOOC emphasizes several key principles to ensure that the training is accessible, engaging, and actionable.

2.2.1 Accessibility

The training program prioritizes accessibility and inclusivity, not just by being open and online, but by enabling attendees from diverse backgrounds, experiences, and learning preferences to align through introductory modules. These modules clearly explain "what is what" about carbon neutrality, resilience, and spatial justice, aligning participants' knowledge while preparing the ground for the more technical parts. Furthermore, efforts have been made to ensure that the content is always presented in clear and straightforward language, free from unnecessary academic jargon or technical slang complemented with a glossary and references.

Recognizing practitioners' busy agendas, the courses will be rich in content and composed of dozens of concise videos. This ensures that participants can choose and engage with the videos they truly need, customizing the learning path according to their knowledge and limited timeframes. The course's first version (M35, November) is in English, but an advanced version (M36, December) will be available in a wide range of European languages (24) to increase its accessibility.

Additionally, features support accessibility for people with disabilities. This includes providing subtitles through video text tracks (VTTs) for individuals with auditory impairments and ensuring screen-reader compatibility for those with visual impairments. These measures aim to ensure that all participants can fully engage with the material, regardless of their physical abilities.

2.2.2 Active Learning and Engagement

A storytelling approach, inspired by the 5UPs methodology, will guide participants through a step-by-step process that is easy to follow. This approach draws on real case studies from the UP2030 project, providing practical examples of the concepts and tools covered in the training. While interactive elements such as quizzes and case studies are desired to promote deeper understanding and engagement, which has been implemented in the platform of the course. It aims to incorporate practical exercises and real-world examples to facilitate hands-on learning and the application of theoretical knowledge.

2.2.3 Practical Relevance

The training program emphasizes the practical relevance of the content, moving beyond theoretical discussions to focus on real-world applications and upscaling. The trans-dimensional approach, central to the training, underscores the interconnectedness of resilience, carbon neutrality, and spatial justice in addressing urban challenges. By offering a comprehensive course with numerous technical tutorials for various tools (in addition to theoretical and case study content), participants can customize their learning path by choosing which tools to see implemented, grounding the UP2030 MOOC in real-world applications. This is why the program aims to provide clarity amidst the abundance of available learning content.

By adopting a pedagogical approach grounded in accessibility, engagement, and practical relevance, the training program aims to empower city practitioners and consultants with the knowledge, skills, and confidence to drive sustainable urban transformations.

2.3 Program Overview and Structure

The MOOC's training content is structured to guide participants from initial inspiration and theoretical introduction to the implementation of concrete tools and actions to guarantee impact. This approach ensures a cohesive learning journey, from theory to practice, where each step logically builds upon the previous one, following the SUPs approach of the project.

In alignment with the project's Grant Agreement (GA) and the work of the project partners, the UP2030 MOOC structure is illustrated in Figure 1. It organizes the project workflow and results within five modules, following the SUPs approach. The latter comes from the project design which revolves on five phases: Updating foundational planning standards and policies; Upskilling city stakeholders to co-develop transformation pathways; Upgrading with practical prototypes and planning tools; Upscaling robust governance and financial mechanisms; and Uptaking knowledge through awareness campaigns that transfer successful practices across cities. This comprehensive framework ensures the development of resilient, future-ready urban environments. Each module comprises a mix of videos that adhere to three main pedagogical approaches: theoretical, technical tutorials, and case studies.

2.3.1 Typology of the Videos

The course embeds three types of videos with a total number of **125 videos with 12 hours of study duration**.

The introduction unit of the course has 2 videos to explain its aim and its structure. Each module is also introduced with one video to explain the learning objectives of each.

2.3.1.1 47 Theoretical videos

These videos focus on presenting theoretical content, making both basic and complex concepts accessible to a wide audience. The aim was to create highly pedagogical videos that are dynamic and well-produced, facilitating a clear understanding of the material. These materials were developed in collaboration with the academic experts within the consortium, ensuring high-quality and accurate content.

2.3.1.2 60 Technical videos

These videos concentrate on the technical solutions provided by various tools, divided into three subcategories:

- **21 Introduction videos:** Short videos designed to clearly explain the purpose of each tool.
- **25 Tutorial videos:** Comprehensive, detailed tutorials that enable users to fully understand and utilize the tools to their full potential.
- **14 Real case example videos in the UP-Grading Module:** Videos that demonstrate the practical application of the tools through real-world examples.

2.3.1.3 12 Case Study Videos

These videos showcase real case examples of the implementation of UP2030 methodologies, particularly through the experiences and city partners in their pilots and their upscaling. They illustrate the practical application and impact of the methodologies in real urban settings.

Each video has an introductory text with the presentation of the partner who produced it and is enriched with extra materials such as other online courses, visuals, and documents.

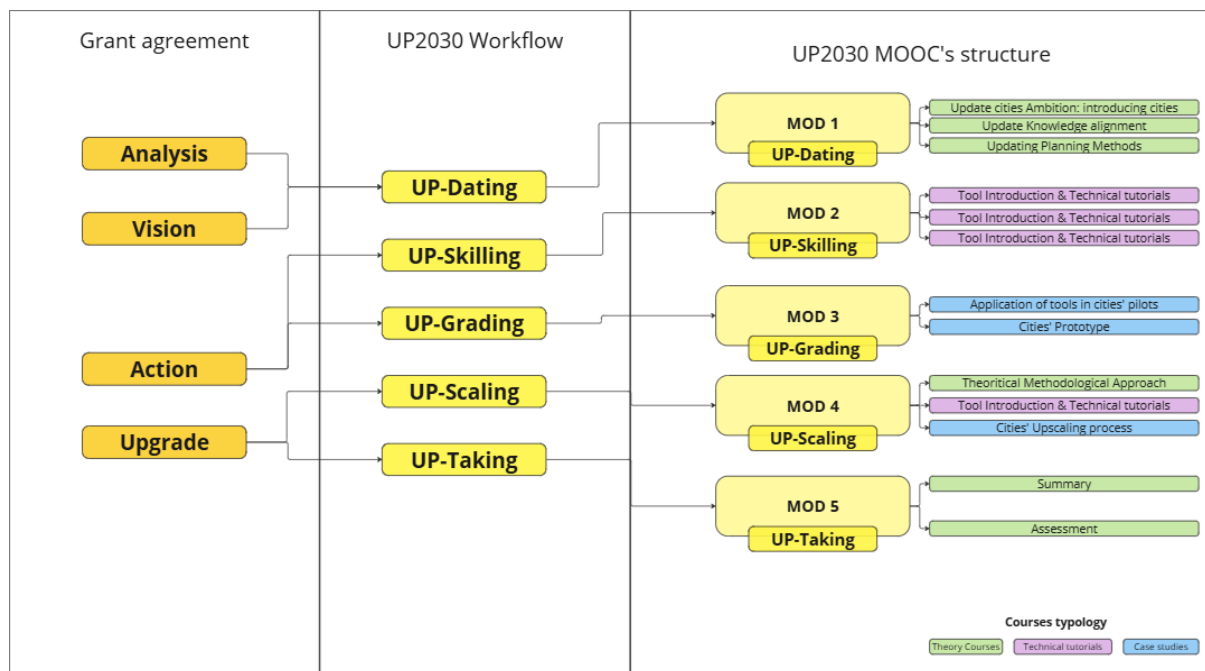


Figure 1: Alignment of MOOC structure with GA and UP2030 workflow.

2.3.2 Structure of the MOOC

2.3.2.1 Module 1 UP-Dating

The first module (Figure 2) focuses on understanding and building (or consolidating) city visions (corresponding to the UP-Dating Work Package (WP)). The module introduces participants to contemporary city models, essential planning methods, and benchmarking tools to assess urban development to solve today's pressing environmental, economic and social challenges.

This foundational module sets the stage for the rest of the course. The knowledge and benchmarking skills and methodology participants acquire along, will inform and organize their practical work in subsequent modules, ensuring their actions are grounded in the latest evidence (scientific, academic) of current context and best practices.

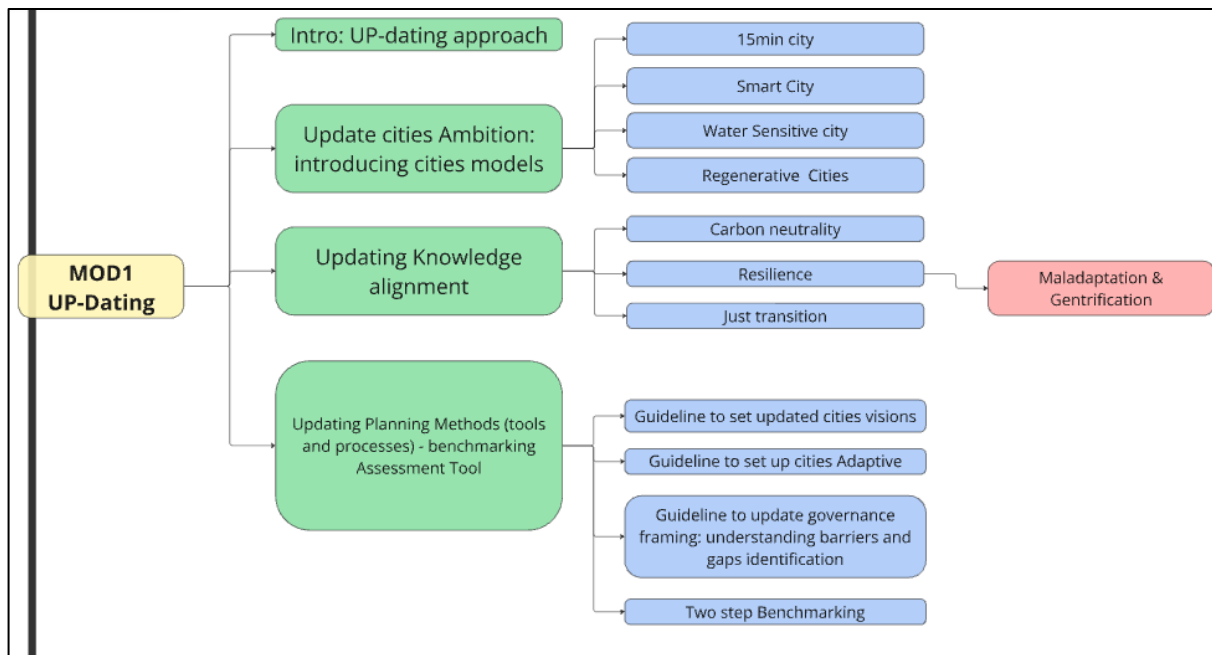


Figure 2: MOOC Module 1 structure overview.

2.3.2.2 Module 2 UP-Skilling

The second module (Figure 3) focuses on capacity building and tools for implementation (corresponding to the UP-Skilling WP). Participants will follow technical courses, explanation of tools, and UP2030 solutions from the project's tool providers. They will learn about the nature of the tools, their use, and place in the chronology of a project, and the prerequisite skill levels (e.g., GIS, Python). Below, Figure 3 explains the general structure of the module with an introduction and a demonstration video for each tool. Figure 4 is the framework of all tools presented and organized according to the three pillars of carbon neutrality, resilience and spatial justice.

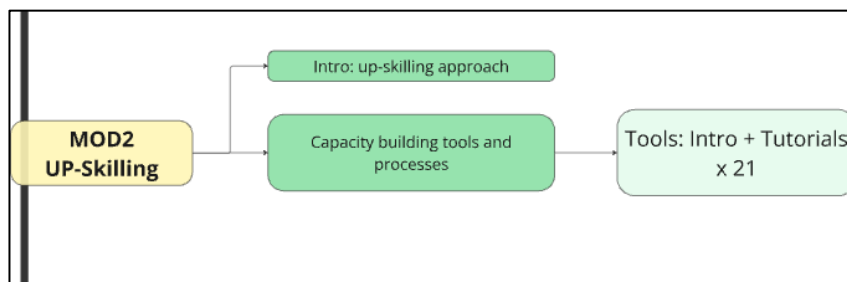


Figure 3: MOOC Module 2 structure overview.

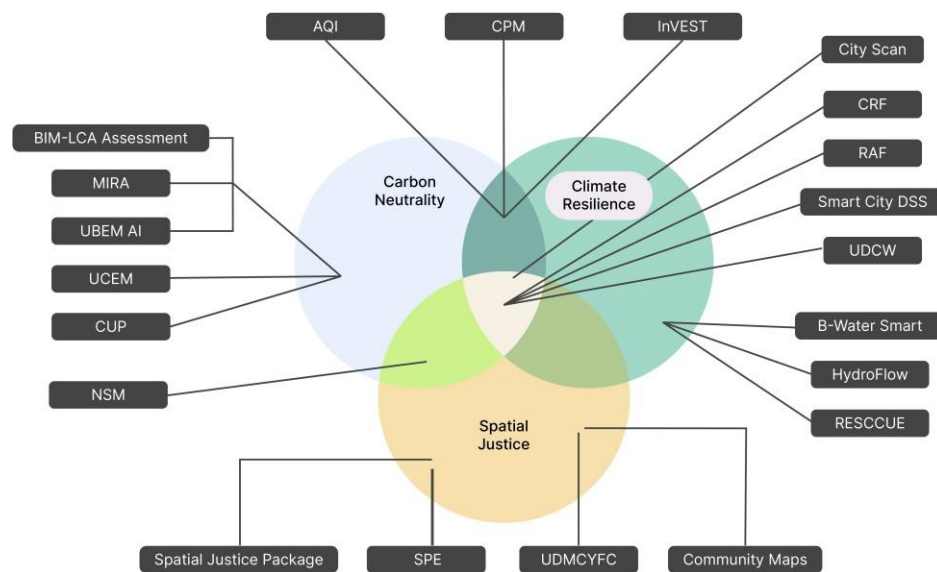


Figure 4: Framework of the tools provided in the MOOC.

2.3.2.3 Module 3 UP-Grading

After understanding the tools, the third module (Figure 5) introduces their implementation in real case studies (the 11 UP2030 cities' pilots) (corresponding to the project UP-Grading WP) as well as the prototypes themselves, showing processes, synergies, stakeholders' participation, to name a few.

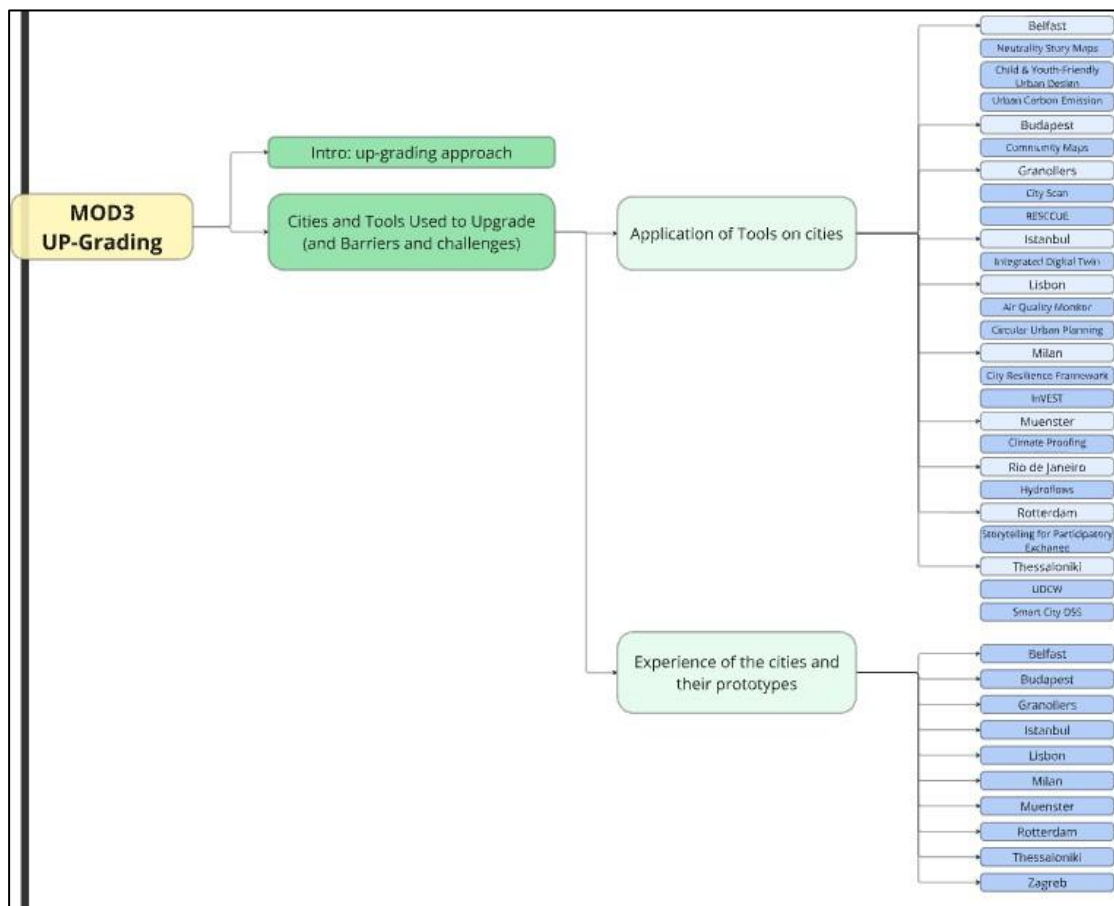


Figure 5: MOOC Module 3 structure overview.

2.3.2.4 Module 4 UP-Scaling

The fourth module (Figure 6) introduces upscaling solutions and impacts (corresponding to the project UP-Scaling WP). ICLEI produced content that explains how to scale up and integrate solutions across different sectors, providing methods for dissemination and impact outreach through knowledge transfer involving a wider community of practice.

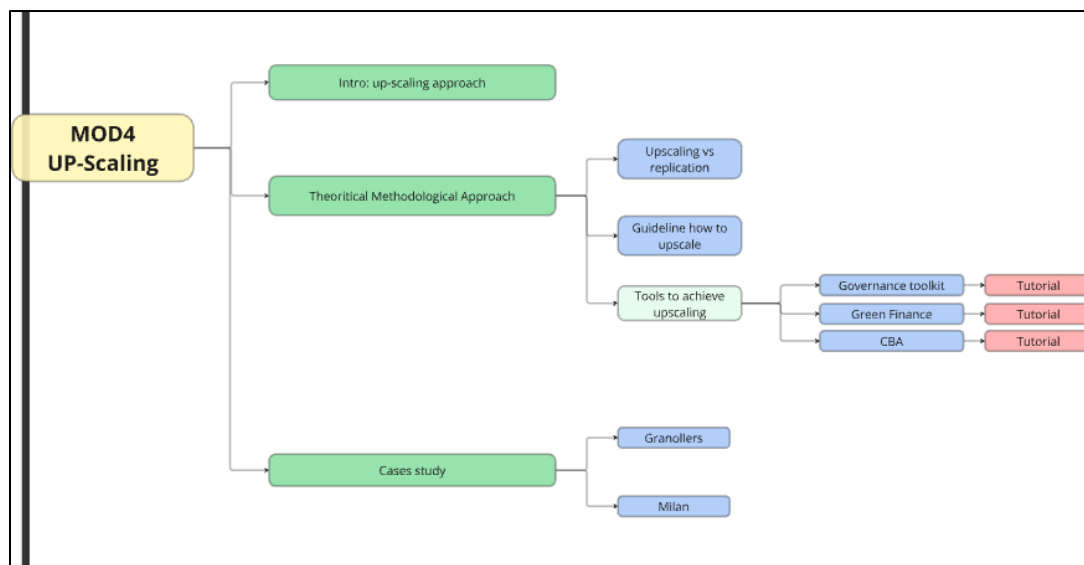


Figure 6: MOOC Module 4 structure overview.

Each module is finalized by keynotes to summarize it and a quiz of three questions for participants to assess their understanding.

2.3.2.5 Module 5 UP-Taking

Finally, the last module (corresponding to the project UP-Taking WP) aims to summarize and equip participants with key elements from the course, followed by an assessment to grade their level of understanding. The assessment is a quiz composed of twenty questions evaluating all content viewed during the course. Participants that successfully complete the course and score 100% at the quizzes of each module (repeatable) will be granted a certificate of completion.

The program design remains flexible to accommodate the evolving elements (Concepts' evolution, tools' updates ...etc.). Figures 2 through 6 provide an overview of the program's design as of November 2025.

2.4 Additional Content

In addition to the videos, texts, infographics, and quizzes, the MOOC incorporates a variety of additional content to enhance the learning experience and provide comprehensive educational materials:

- Links to additional resources: Direct links to supplementary materials and external resources that complement the video content.
- Links to other project results: Connections to related projects and their outcomes, such as the carbon neutrality MOOC by NetZeroCities (NZC), the spatial justice guide by TUD, the Service platform by ICLEI and the templates for city visions and pathways by TSPA.
- Direct links and/or contacts for tools: Easy access to tools discussed in the videos, allowing participants to explore and use them directly.
- Discussion section: A forum for participants to engage in discussions, share insights, and ask questions. This feature is under development for a future version; it relies mainly on the building of a community through events and in-person training.

3 MOOC Platform and Functionalities

The MOOC will be hosted on an internal platform, provided by the Urban Resilience Research Network (URN). This decision was made in consultation with the partners involved and notably through a workshop organized by ICLEI about UP2030 platform. The decision is primarily based on the available budget, which does not support the development and maintenance of a dedicated training platform. Utilizing URNET's ensures long-term support, flexibility, accessibility, and credibility for the program.

The Interface of the MOOC platform was developed over the months of July 2025 (M31) to September 2025 (M33) (Figure 7). A graphic study was conducted according to previous state of the art and accessibility requirements. The platform is now accessible and in the phase of optimization until December (M36). The management of the platform will be the responsibility of UIC after the project's completion.

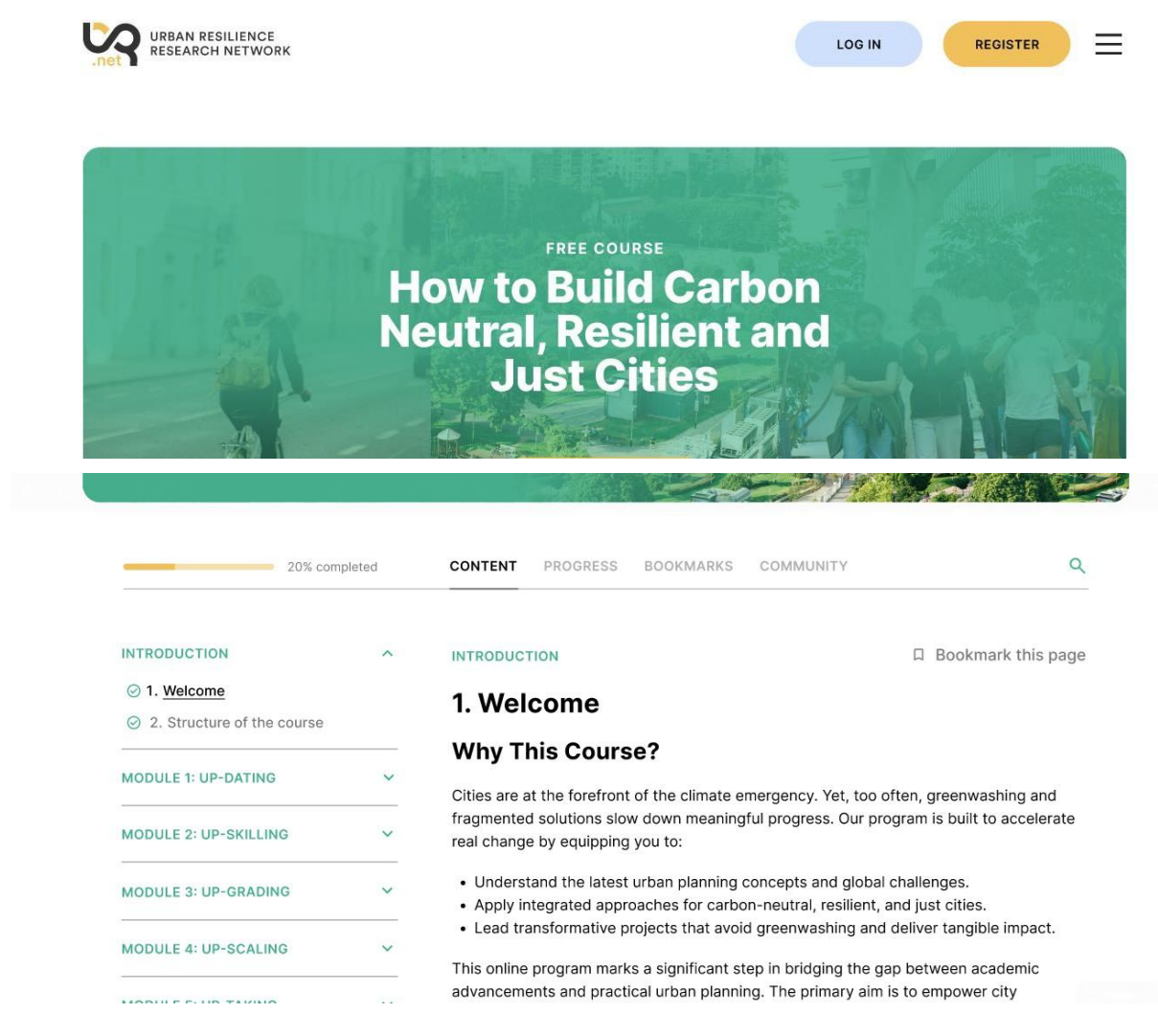


Figure 7: Interface of the MOOC.

3.1 [Web Design Element](#)

3.1.1 [Color Palette](#)

The colors (Figure 8) chosen reflects the three pillars of UP2030, with complementarity:

- **Green:** Resilience, representing the positive adaptation to climate change effects.
- **Light Blue:** Carbon Neutrality, representing stability aimed to balance carbon emissions and reductions, cleaner air and water as well as solving global warming.
- **Yellow:** Spatial Justice, representing community thriving, the color represents happiness encouraging positivity for a just transition.



Figure 8: MOOC's color palette.

This choice helps users to distinguish different elements, sections, buttons etc.

3.1.2 [Typography](#)

The font used is Inter, Inter is a variable font family carefully crafted and designed for computer screens. Inter features a tall x-height to aid in readability of mixed-case and lower-case text. Several OpenType features are provided as well, like contextual alternates that adjust punctuation depending on the shape of surrounding glyphs, slashed zero for when you need to disambiguate "0" from "o", tabular numbers, etc.

The aim is to make the readability of the texts easy and fast with distinct sans-serif line to ease the efforts for dyslexic people.

Module name	UP-DATING	Bookmark this page
Title H1	1. Update Cities Ambitions: Introducing Cities' Models	
Subtitle H2	The 15-minute City	
Text	The 15-minute-city is a transformative urban planning model introduced in 2016 by Franco-Colombian scientist Carlos Moreno, who specializes in the intelligent control of complex systems. Drawing inspiration from the work of urbanist Jane Jacobs, Moreno's vision places human needs at the center of urban design, emphasizing the spatial-temporal relationship between individuals and their access to essential urban services. (UCCRN, 2025)	
Quote	"In the following video, the UMX urban mobility introduces the concept of Carlos Moreno and its core principles."	
	Here's how to navigate and make the most of your learning experience on this platform:	
Bullets - Level 1	• Core and Optional Materials: Each module provides essential resources, along with optional materials for deeper exploration.	
Title inside text (bold)	• Interactive Elements: As you progress, you'll encounter hyperlinks to additional content, "+" icons for expanded details, and scrollable sections to help you follow processes step by step.	
	• Quizzes and Assessment: Every module includes a short, three-question quiz to check your understanding. The final module features a comprehensive assessment to evaluate your overall learning.	
	• Progress Tracking: To complete a module, you must review all required sections. Your progress is clearly displayed in the [progress tracker location].	
	• Flexible Learning: You can complete the course at your own pace, over multiple sessions.	
Bullets - Level 2	• Learn to use planning methods and benchmarking assessment tools to evaluate urban progress and inform decision-making. > Guideline to set updated cities visions > Stakeholder engagement method > Guideline to set up cities Adaptive pathways > Guideline to update governance framing: understanding barriers and gaps identification > Benchmarking	
Subtitle H3	Implementation Strategies	
	Academic literature and real-world practice suggest several strategies for realizing the 15-minute city:	
Subtitle H4	4. Digital and Participatory Tools:	
Hyperlink	Shanghai's "15-minute community life circles" leverage digital platforms to map and manage neighborhood services, while participatory budgeting and local governance empower residents to shape their environments.	
		
Footnotes	Source: Shanghai Urban Planning and Land Resources Administration Bureau, 2016, citato in Hou e Yungang, 2017, p. 8	

Figure 9: Typography of the MOOC.

3.1.3 Interactive Elements

- **Hyperlinks:** (Figure 9) that leads to extra materials, courses, etc.
- **Slider:** (Figure 10) Used a quick element to check the summary of a unit (example the three pillars of UP2030)



Figure 10: Slides of the three pillars of UP2030 and the MOOC.

- **Accordion:** (Figure 11) Used to summarize information and allow users to scroll them down for more additional information (example the implementation strategies of the 15 min city)

2. Implementation Strategies

Academic literature and real-world practice suggest **several strategies** for realizing the 15-minute city:

Transit-Oriented Development (TOD):	+
Retrofitting Existing Urban Fabric:	+
Superblocks and Green Corridors:	+
Digital and Participatory Tools:	—

Shanghai's "15-minute community life circles" leverage digital platforms to map and manage neighborhood services, while participatory budgeting and local governance empower residents to shape their environments. [link](#)

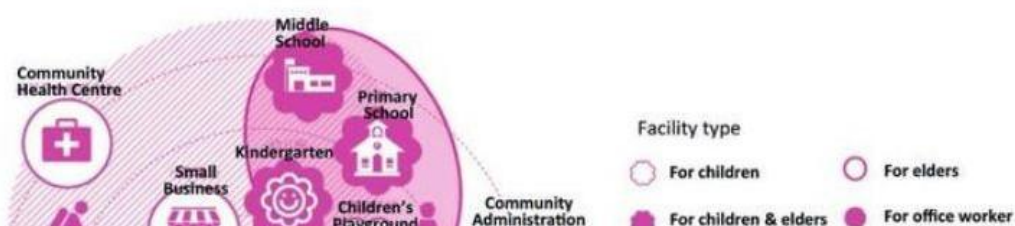


Figure 11: Accordion of the implementation strategies of the 15 min city.

- **Bookmark:** (Figure 12) This feature allows users to save units and lessons from the course and find them more easily.

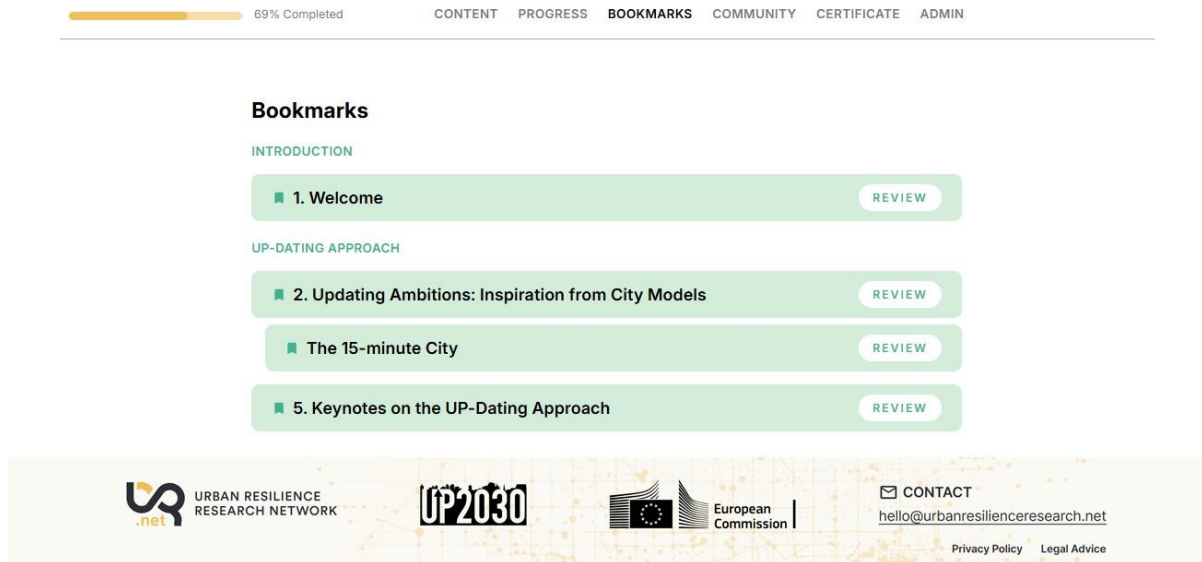


Figure 12: Bookmark section.

- **Progress:** (Figure 13) Users can track their learning path by marking as complete lessons and units.

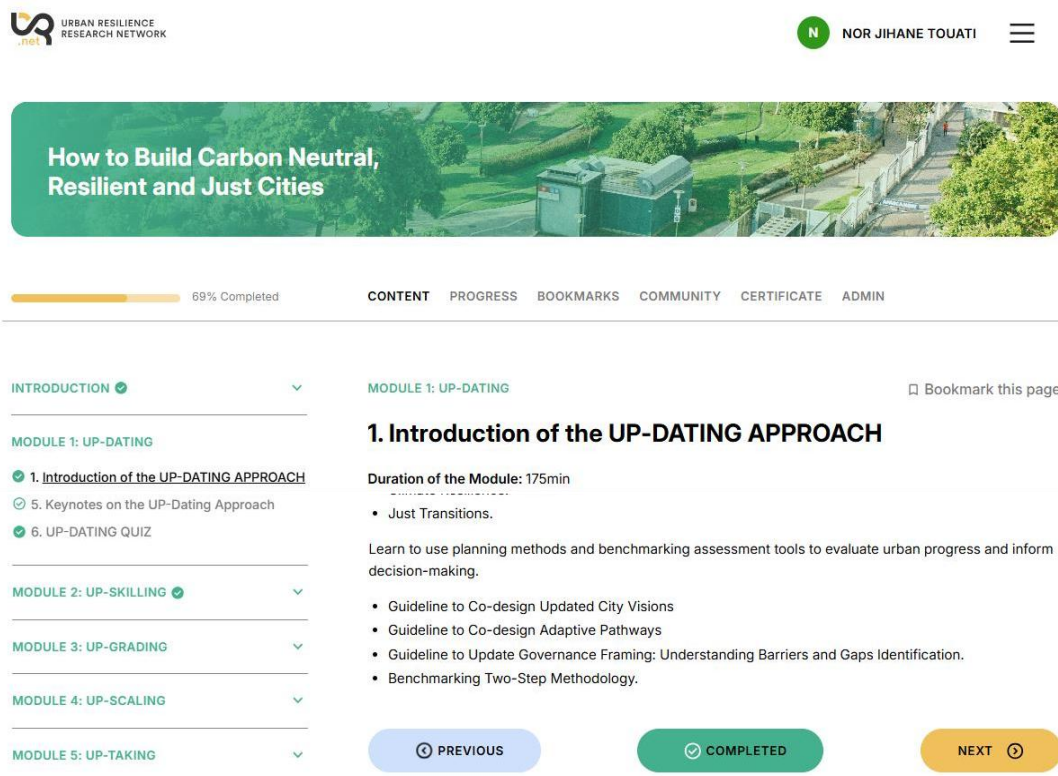


Figure 13: Tracking progress feature for the MOOC

3.2 Functioning of the platform for users

Upon accessing the website of the course, participants will first have a presentation of the course. If they are interested, they will create an account with credentials (name, email address, and password). They will then receive a confirmation mail to have access to the course. Audience interested can complete their profile with information such as age, current position, organization, and reasons why they are starting this course. This information is under GDPR measures and only the name and surname are needed to be mentioned to deliver the certificate. Their accounts serve as a database to study the audience reach.

Users will then follow the different units of the MOOC using the "next" buttons and update their progress with the "mark as complete" buttons. The last output of the MOOC is the certificate of completion for each participant. The data shared on the platform is for internal use of team members responsible for the MOOC (UIC) only and won't be shared to a public level respecting user's right.

4 Dissemination and Sustainability Plans

This chapter outlines the strategies to ensure the MOOC remains sustainable over time, focusing on financial sustainability, long-term viability, and contingency planning.

4.1 Dissemination Plan

The dissemination plan for the MOOC aims to maximize its reach and impact by focusing on six distinct actions:

Utilizing partner networks and platforms: The MOOC will benefit from the visibility of the UP2030 platforms and the networks of its numerous partners as they show interest in sharing their participation in the development of the course. These networks, especially those directly connected with cities, will play a crucial role in reaching the target audience.

Independent videos and broad availability: Many videos from the MOOC will be made available independently across platforms, including UP2030 the Service Platform. These will include tutorials of the upscaling tools, videos explaining the three pillars used for the master's in urban Resilience for Sustainability Transitions, technical videos of tool providers for owners' internal use, and case study videos used by municipalities to share their work. Each video will include credits that refer viewers to the full MOOC, creating a seamless link to the broader training program. Short and engaging videos will be extracted during the lifetime of the course to facilitate easy sharing and audience expansion.

Conferences and forums: The MOOC was shown at various conferences and forums:

- Cities in Action: Shaping just resilient & climate neutral urban planning, the final event of the UP2030 project on November 3rd, 2025.
- The Smart City Expo 2025 from November 4th to November 6th, 2025.
- UP2030 Cities & Liaisons Bi-Monthly meeting on November 25th, 2025.

Online webinars will be launched after the end of the project (M36) to present it on social media such as LinkedIn, through the network of UIC with the JURECA Institute, URNET, the Urban Resilience Lab Barcelona (URLab BCN) and the master's in urban Resilience for Sustainability Transitions.

This will help to raise awareness and promote training programs among key stakeholders in urban planning and sustainability.

Launch events and recurrent introductions: Events will be organized after the launch of the training program on November 3rd, 2025 (M35). These events and in-person training, potentially recurring, will introduce the MOOC to participants, create networking opportunities, and facilitate exchanges of ideas and experiences.

Encouraging participant advocacy: The final module of the MOOC will encourage participants to share the training with their colleagues and networks. This aligns with the UP-Taking philosophy of the 5UPs approach, aiming to extend the impact of the project through peer advocacy and community engagement.

Building momentum and interest via social media posts: Using work related social media such as LinkedIn to share the impact of the course on participants.

4.2 Financial Sustainability

As the training program must remain freely accessible to everyone, it will not generate direct revenue. The long-term financial sustainability of the MOOC will be secured through its integration into UIC's platform, which provides continuous management and support. UIC and URNET will be taking care of the costs of the MOOC after the end of UP2030 project for the new years and any updated versions.

Two potential funding sources have been identified:

- **Certificate Official Fee:** Charging a fee for the optional certificate of completion, providing a revenue stream without compromising free access to the core content.
- **Event participation fees:** Implementing fees for participation in special events, workshops, or webinars related to the MOOC's content inviting tool providers as partners during those events. IPR rights of tool providers will be realized through clear and efficient communication with partners before handed. These events could offer additional value and services, helping to cover any incidental management costs.

This approach ensures that the MOOC remains financially sustainable while maintaining its commitment to providing free educational resources.

4.3 Long Term Viability and Exploitation

The long-term viability of the MOOC will be ensured through several strategic measures:

Integration with UIC's platform: The MOOC will be embedded within UIC's platform alongside other educational content, ensuring continuous visibility and promotion. This integration guarantees sustained support and management from UIC, leveraging their established infrastructure and expertise.

Collaborations and partnerships: Opportunities for collaboration with other projects and platforms that host similar content will be explored to create synergies. Both academic and industry partnerships could be developed, enhancing the MOOC's reach and impact. These collaborations will allow for resource sharing and mutual promotion, further solidifying the MOOC's presence in the educational landscape.

Community building: A strong community of learners and educators will be cultivated, particularly through the UP-Taking module. This community will include new participants and alumni, foster an environment of continuous learning and share. By building and maintaining this network, the MOOC will benefit from ongoing engagement and support, ensuring its relevance and vitality.

Regular content updates: To keep the content current and relevant, regular updates will be made based on feedback from participants and the expertise of UIC's team. This will be done by communicating with tool providers on the latest updates of their products, launching surveys for participants regularly, and keeping track of global contexts and news on academic research.

4.4 Contingence Plan

Technical assistance and support: Given that the MOOC will be embedded within UIC's platform, it will benefit from UIC's personnel resources and technical assistance in case of any technical issues. This support ensures that any technical difficulties encountered can be promptly addressed, minimizing disruptions and maintaining a smooth user experience.

Ongoing coordination with partners: Effective management of these variables will require ongoing coordination with all project partners. Regular updates and communication will help ensure that any changes in the development of related project components are promptly addressed, allowing for

timely incorporation into the MOOC until M36 and beyond the project for tools' and concepts' updates.

5 Limitations

The development of the MOOC faced several key limitations:

- **Technical Disparity:** Partner institutions had varying levels of technical and temporal capacities, leading to differences in the formats of the submitted content. The final decision was to keep the variety of content formats, embedding the logo of each partner for IPR rights and giving them instructions and flexible guidelines for the production (Screen recording for tutorials, presentations for introductory elements such as tools and methodologies or case studies.) The challenge of audio quality has been solved by the post-production of the videos.
- **Logistical Constraints:** The initial plan to include in-person visits to projects was not feasible due to restrictions on time and budget. The alternative chosen was to interview the cities' representatives during the event of Cities in Action: Shaping just resilient & climate neutral urban planning, the final event of the UP2030 project on November 3rd, 2025.
- **Scheduling Conflicts:** Conflicting partner schedule and prior commitments caused delays in content delivery. This was mitigated by creating provisional sections with placeholders for late-arriving materials.

6 Conclusion

This report has outlined the comprehensive plan for creating a valuable educational resource that addresses the needs of city practitioners and aligns with the broader goals of the UP2030 project. It marks the last phase of the MOOC development and its launch, making it accessible on the URNET platform in the E-learning section.

The MOOC aims to bridge a significant gap between city practitioners and solution providers, whether technical or academic. It also addresses the confusion and overwhelming nature of the current landscape of training content, which is not always well adapted to every audience. This program seeks to make the content highly accessible and easy to understand for a wide audience, with a particular focus on city practitioners. The goal was to create a program that is not only accessible but also comprehensive, eliminating the need for additional courses on similar topics by offering a holistic approach. This approach is based on three pillars: resilience, climate neutrality, and spatial justice, and includes three dimensions of training: theoretical knowledge, practical tools, and inspirational real-life examples.

While the extensive content ensures the program's completeness. Gathering and coordinating this diverse content was essential to maintain clarity and avoid overwhelming the audience. The richness of the program lies in its ability to provide a wide array of information while remaining focused and coherent for its users.

The platform developed and detailed in this report provides a clear explanation of the development of the structure, content, platform, and dissemination of the MOOC. It highlights the importance of continuous collaboration, flexibility in content development, and strategic dissemination to maximize the program's impact.

The sustainability plan ensures the MOOC's long-term viability by integrating it into UIC's platform, exploring potential funding sources, and maintaining regular content updates. These measures will help sustain the program's relevance and accessibility over time.

By adhering to the milestones and maintaining ongoing coordination with partners, the MOOC is poised to become a cornerstone resource for urban practitioners across Europe.

In conclusion, the MOOC program represents a significant contribution to the field of urban planning, providing practitioners with the knowledge, tools, and inspiration needed to drive sustainable urban transformations. Through this collaborative effort, the UP2030 project aims to create lasting impacts on urban development, fostering cities that are resilient, climate-neutral, and spatially just.