Practice-based knowledge on system innovation and climate change.
A learning approach for practitioners through active-blended format.

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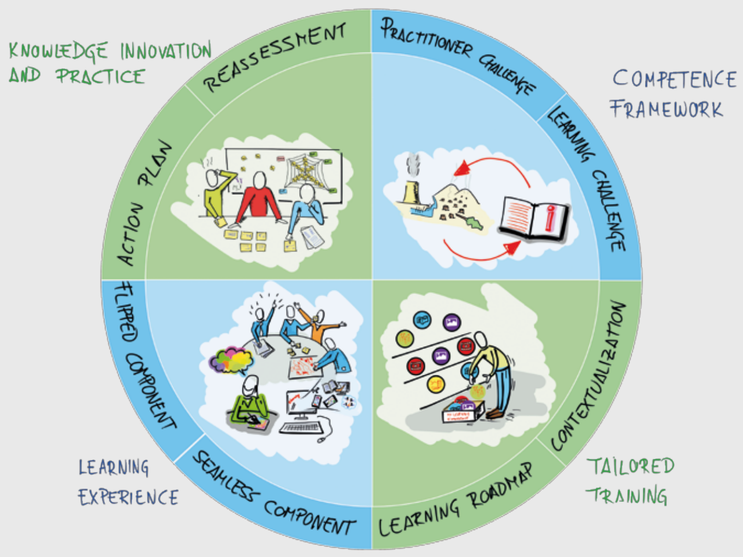
The practitioner context



System innovation and Climate Change addresses practitioners' demand of adaptable and flexible tools easy to transfer to their challenges and problems.

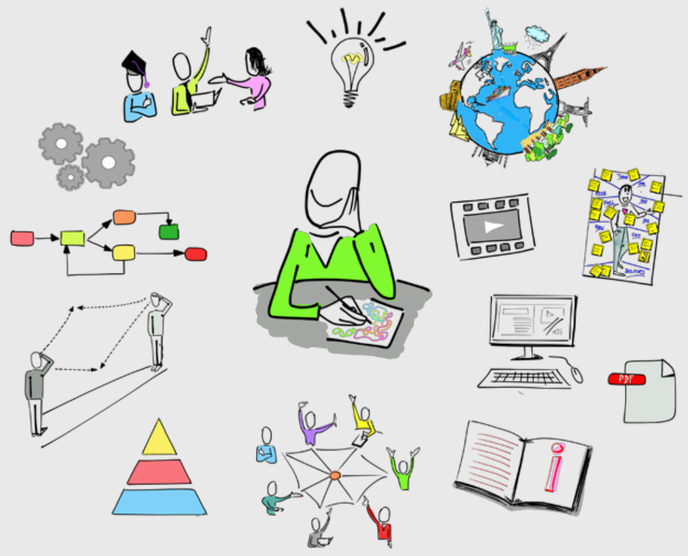
Practitioners are targeted as users of practice-base knowledge who carry on activities in SMEs, applied research, NGOs as well as local and regional governments.

The learning approach is based in modular elements and blended format which, in practice, facilitates more horizontal interactions to work on challenges related to problem owner's competences.

The tailored content and the flexible combination of online and classroom activities (flipped) as well as project based activities (seamless) are based in practitioner's context.

Action plans are essential elements of the learning experience as a practical application which is framed in in the field of innovation, climate change and sustainable transitions.

Active-blended



Active blended means that practice-based knowledge is introduced by the application of tools on the users' cases as part of a problem-solving process. The tools are introduced by practitioner-oriented explanations through a multi-format learning platform.

The booklet & Canvases

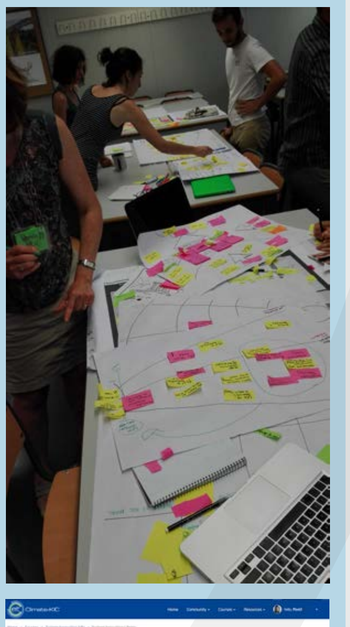
"Visual toolbox for system innovation" is a booklet-format collection of ready-to-implement tools to structure and manage the challenges and exploit opportunities of sustainability innovations and transitions.

The tools are presented in a simple and visual approach with the purpose of supporting practitioners' every-day work on climate change, transition and system innovation.

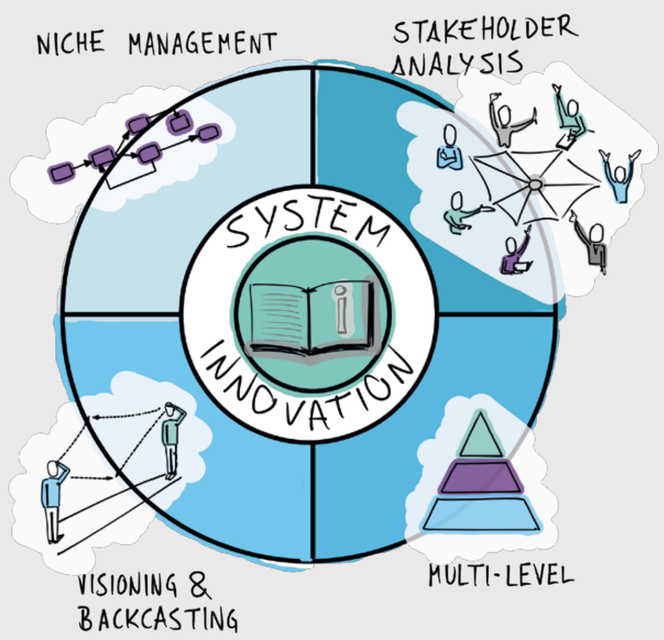
eLearning portal and Multimedia

The eLearning material is based in the booklet and combined applications of learning nuggets and regionals examples through video animations of the tools.

It was designed to facilitate alternative learning pathways through multidisciplinary content and regional elements as well as a coaching approach based in co-operative learning.



The modular approach



The learning material support the development of a competence kit to enable better management of multi-functional teams and complex stakeholder environments. Both classroom and online activities are rooted in the same modular structure built upon four modules that account for the main steps in the system innovation process. That is:

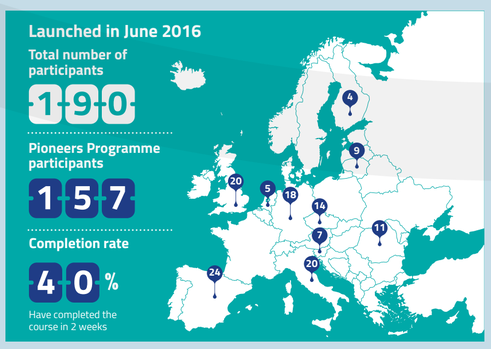
- Stakeholder management,
- Multi-level perspective,
- Visioning and backcasting and
- Niche management.

This structure is meant to facilitate the problem-solving process by setting out a pathway in the always blurred, uncertain and fuzzy process for system innovation. The four modules holding the tools feed into a multidisciplinary setting, including transitions management but also practical elements from innovation management, systemic thinking, design thinking and project management.

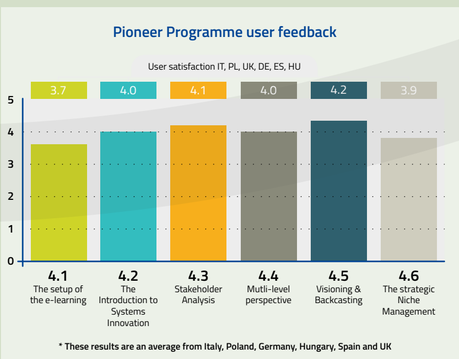
The Implementation

Three main learning elements have been introduced:

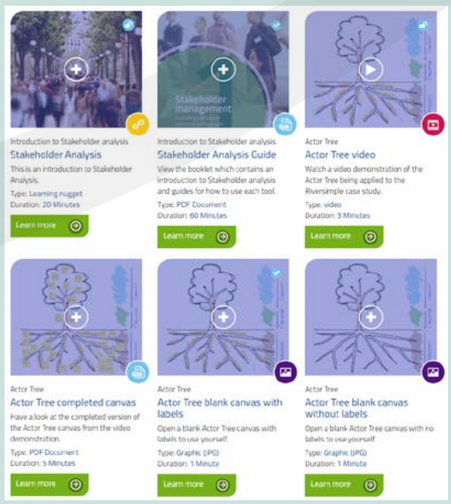
- The toolbox (to be applied on face to face contexts)
- The eLearning platform (to enable practitioners to get acquainted with the tools and the approach in an autonomous way, at any time) and
- The Realtime boards (tested to allow a real and remote interaction between practitioners).



User feedback

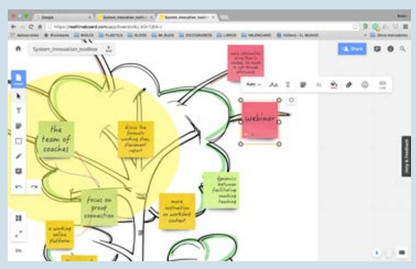


Online applications



Realtime boards

One of the drawbacks of learning programmes for practitioners is that they are usually placed in locations, or even counties, given the international context of the Climate-KIC. To overcome this problem, the commercial platform realtimeboard (https://realtimeboard.com) has been used to work in a collaborative way with teams remotely placed.



Climate-KIC

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http://www.transitions-hub.org/library

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