



**DELIVERABLE 2.3**  
**TOOLBOX FOR CHILDREN**  
and  
**DELIVERABLE 2.7**  
**TOOLBOX FOR FACILITATORS**  
*Supportive narrative to the online toolbox*



**“DOIT – Entrepreneurial skills for young social innovators in an open digital world”  
A HORIZON 2020 INNOVATION ACTION**

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## Description of the Deliverable

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## Summary

This document is a supportive narrative to *Deliverable 2.7 Toolbox for facilitators, final version* and *Deliverable 2.3 Toolbox for children, final version*. They have been combined to one online toolbox, which is published online with this url: <https://www.doit-europe.net/toolbox>.

This supportive narrative describes the following:

- what can be found on the toolbox,
- how this information is navigated by the user,
- how the content was developed and curated
- which additions are foreseen during the remainder of the project’s duration

# Content

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# 1. Introduction

This document is a brief supportive narrative which explains several aspects of the online toolbox as it has developed since the preliminary version D2.6 that was delivered October 1, 2018. The online toolbox is integrated in the DOIT online platform and can be found here: <https://www.doit-europe.net/toolbox>

D2.2 *Toolbox for children, preliminary version*, and D2.6 *Toolbox for facilitators, preliminary version* have been integrated into one online toolbox. The reasons for this are thoroughly addressed in the reports for these deliverables. The primary users of the online toolbox are adult facilitators and young makers/ entrepreneurs/ social innovators of 11 + who facilitate peers and younger children.

These are the aspects this supportive narrative covers:

1. Which information can be found in the online toolbox
2. How this information is navigated by the user groups
3. Description of the curation process of material in the toolbox
4. Which items, that are currently being developed in DOIT, will be integrated into the online toolbox before the end of the project.

The current version of the toolbox is not the final version, which was due at this moment (2019-11-30). D2.6, paragraph 2.3 *Toolbox content* cites what the final toolbox will contain:

1. “Improved and newly developed materials tested in pilots (public)
2. descriptions and links to existing materials developed by partners, peers and previous projects (public)
3. existing + new success stories (including stories from DOIT actions, public)
4. ‘products’ (materials, settings, activities, etc.) and DOIT action descriptions from pilots (public)
5. translation of selected success stories, DOIT action descriptions, and toolbox content into the DOIT languages (public)”<sup>1</sup>

All material that the pilot partner generate has been generated in the large scale pilots (WP 4), however, not all has landed in the online toolbox yet. These are:

1. Improved and newly developed materials tested in pilots
2. Descriptions and links to existing materials
4. ‘Products’ and DOIT action descriptions from pilots

The other two will be distributed in a slightly different way:

3. Success Stories will continue to be developed until the end of the project and will be continuously added to the toolbox as well.
5. Translation of success stories, DOIT Action descriptions and toolbox content. This will be final in M 30, March 2020, in the form of a handbook. More on this under [6. Anticipated additions to the toolbox](#).

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<sup>1</sup> Wippoo, Meia; Kortlander, Max & Otjens, Alain (2018). ‘Toolbox for facilitators - preliminary version’, deliverable 2.6 of the Horizon 2020 project DOIT, EC grant agreement no 770063, Salzburg, Austria: Salzburg Research.

The reader is kindly advised to visit the online toolbox via the URL provided, before proceeding with reading this document, or have it open on a (second) screen, for easy understanding; as this document supports the online toolbox and does not stand alone.

## 2. Toolbox content and navigation

### 2.1 Toolbox content



Figure 1: Landing page of the toolbox

The concept of the toolbox visualisation as a neighbourhood or city centre was worked-out in a front-end design and as part of the DOIT online platform. The seven elements of a DOIT Programme form the basis, buildings and landmarks represent each of the elements.

The idea behind the city layout is that an iterative process is never linear, but you need to be able to take a step forward, backwards or repeat steps over and over. Therefore, roundabouts were used instead of a basic town map. The idea is that you can walk around and explore the seven steps in any possible order.

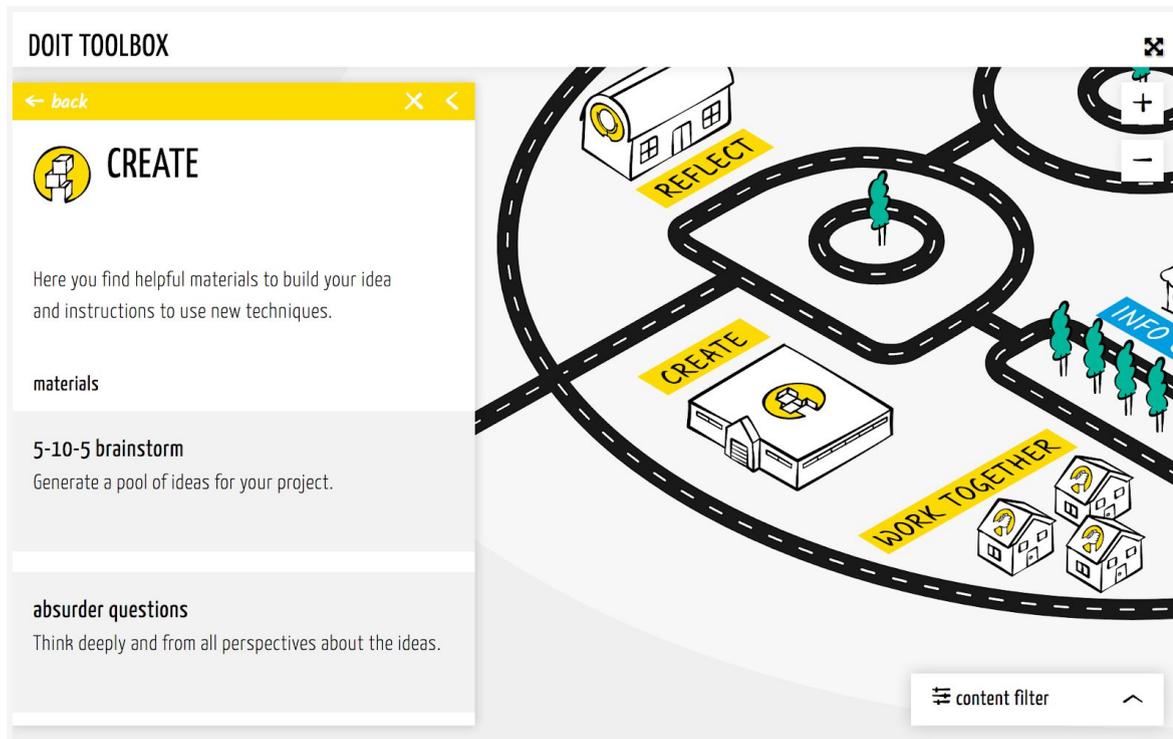


Figure 2: Example of the content to be found in the landmark 'Create'

Clicking a landmark shows the tools that have been created to apply in this element of a DOIT Programme. There are currently over 45 tools in the current version of the online toolbox, spread evenly over the seven programme elements.

All the material the pilot partners were expected to generate in WP 4 have been created, tested and iterated. Some of these tools are yet to be added to the toolbox templates, and uploaded to the site. The goal is to have everything implemented by the DOIT conference in M30 (March 2020).

These tools consist of:

- DOIT action descriptions reworked into twenty Replicable Workshop formats, ten for children aged 6-10 and ten for the 11-16 year olds.
- More separate tools (mostly exercises) that are mentioned in the replicable workshop formats, structured according to the DOIT programme.
- Examples of DOIT products created in the regional pilots.

## 2.2 How does a user navigate through the toolbox

Like in a city you need to know where to go to find what you're looking for. We have implemented two ways to navigate through the toolbox: either the user clicks directly on the landmark to find the tools that fit to the DOIT programme element this landmark represents (see figure 2), or the user uses the content filter to apply a filter based on age and role (see figure 3).

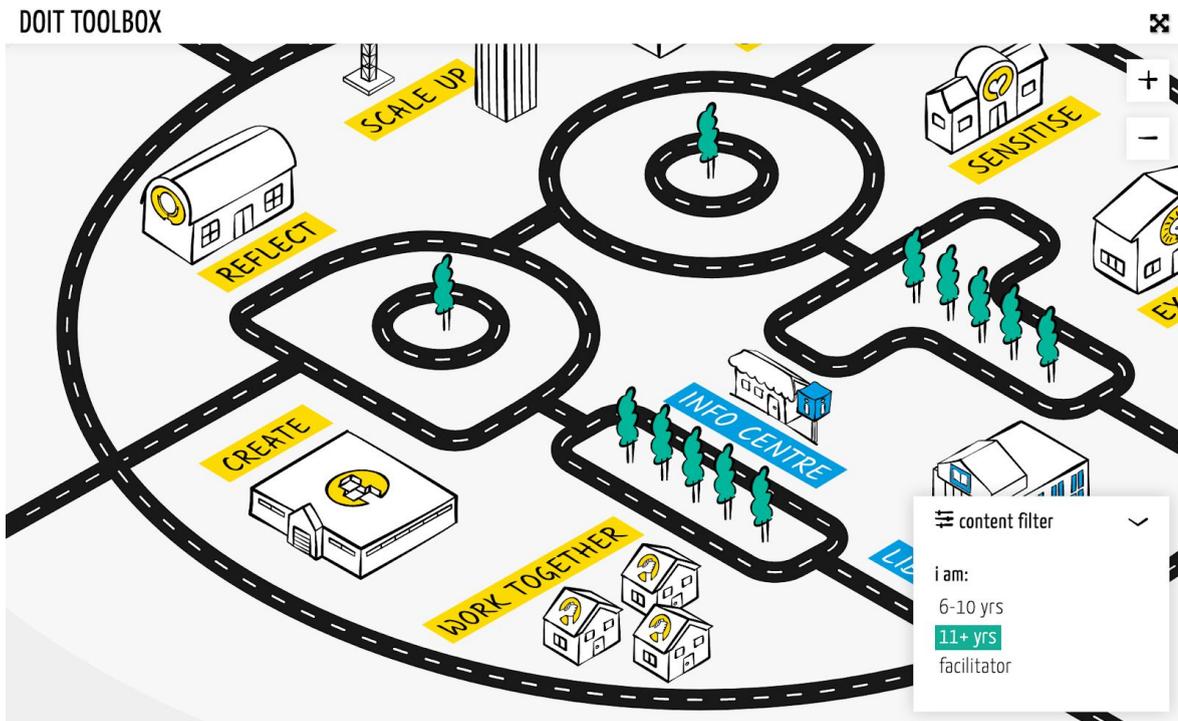


Figure 3: The content filter option

Upon clicking the content filter option on the bottom right side of the landing page, a subselection can be made by selecting age and role. This way only tools suitable for that age/ role will be shown. The number of tools within the different landmarks is shown on the map (see figure 4).

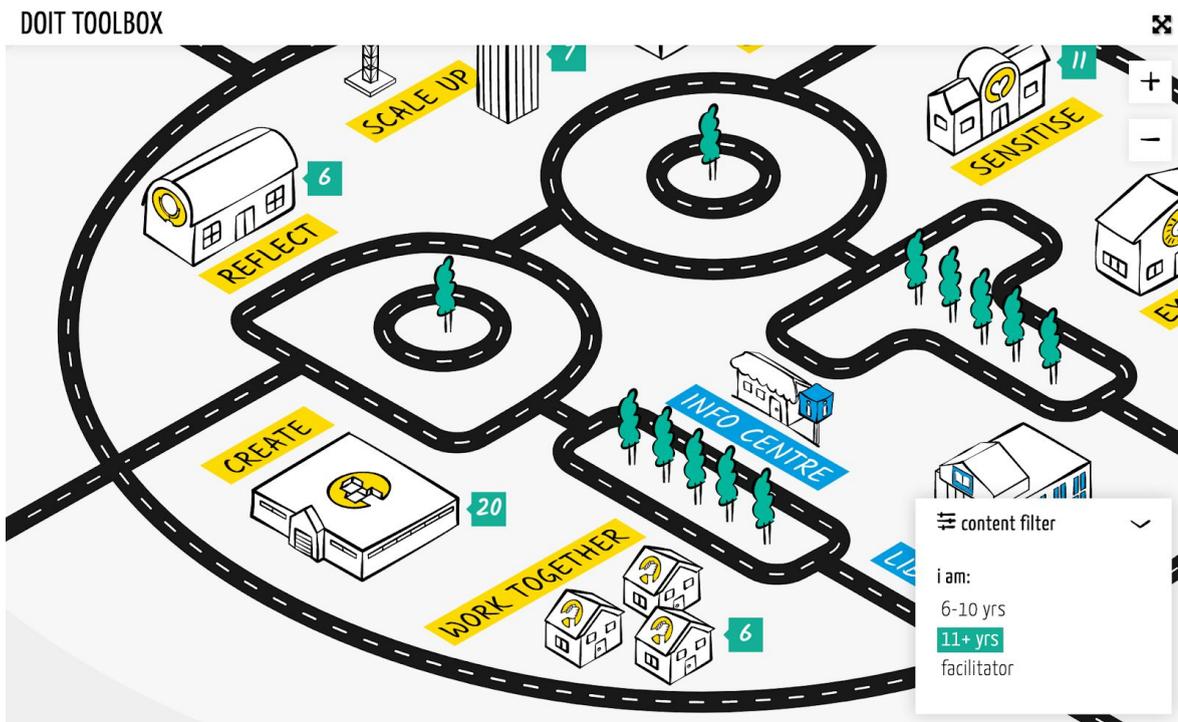


Figure 4: Content for 11+ yrs shown on the map

The content filter option can be extended to include tags, which is yet another way to categorise and navigate the content. More on this under [6. Anticipated additions to the toolbox](#).

## 3. Curation process of toolbox material

Most of the material which will be part of the final toolbox is generated during the regional pilots. The material generated needed to be edited to fit the templates of the toolbox. An editing team was formed in between pilot phase 1 and 2, in M 15, January 2019, consisting of leader of WP 2 SRFG, WAAG and EduC responsible for the toolboxes and Pilot Partner MEPF.

The editing team went through an iterative process, guiding the different pilot partners into generating content suitable for the toolbox.

The editing team:

- Read the different pilot descriptions (provided in WP4) keeping the 7 steps programme in mind
- Listed the tools that were missing in order for users to be able to conduct their own DOIT workshops based on the pilot descriptions
- Contacted pilot partners to submit missing inputs
- Read and re-read the provided tools, giving constant feedback to make sure all tools were aligned and in the same form.

## 4. Anticipated additions to the toolbox

### 4.1 More information and context on the landing page

The toolbox needs a more elaborate introduction and context description on the landing page, to optimise the user experience and to improve exploring its content. It should offer an explanation about the unique combination of social innovation, entrepreneurship and technical competencies (found in makerspaces) . We aim to reach beyond the project, and therefore we have to stop relying on DOIT as a meaningful term, and create new language in the latter part of the project.

### 4.2 The Handbook

To make DOIT’s material accessible for facilitators (adults and children) across the large scale Pilot region, we decided to create a DOIT handbook. The concept of a handbook came about following our collaboration with teachers in the regional pilots and during the development of the facilitator trainings. Many of the teachers/facilitators would like to have all information tied together in a practical guide, or a handbook.

The handbook will replace the earlier described directions. As a consortium we feel it makes a lot more sense to use our own inspiration DOIT innovation project rather than use examples that aren’t linked to the project. The handbook will navigate facilitators through selected DOIT projects as well as link to the according tools to be found in the toolbox. The consortium decided to create handbooks instead of the DOIT directions - described in the previous

version of this deliverable (D2.6 - add link). This decision was made during the most recent Partner meeting in Berlin in M24, September 2019.

The first version of the handbook will be created by SRFG (WP2 leader), the responsible WP leaders (e.g. WP6, WP7) and the pilot partners. SRFG will decide on the basic information it should contain and which parts pilot partners can include optionally. Basic information includes: an overall introduction to the DOIT programme, the DOIT toolbox, how to use the DOIT toolbox, etc. Partners choose which DOIT action/workshop descriptions and tools they want to add according to their own needs.

The content partners can consider to include in the handbook are (and not limited to) the following:

- A selection of replicable DOIT workshop formats (Each pilot partner delivers two replicable workshop formats in DOIT: one for children age 6-11 and one for children age 12-16.)
- A selection of the tools in the toolbox based on the experience of the pilot partners
- Requirements for a successful DOIT action (Deliverable 4.4)
- A selection of success stories

The pilot partners are responsible for translating their version of the handbook, meant for their facilitator community in Croatian, Danish, Dutch, Finnish, German, Serbian, Slovenian and Spanish, respectively. Partners sharing the same language will collaborate on this task.

The handbooks will be downloadable PDFs available on the DOIT Platform. It will be ready in all versions and languages in M30 (March 2020). Hardcopy versions will be available for partners and guests at the DOIT conference in Salzburg; so that it can be distributed in networks of facilitators.

Timeline for the creation of the handbook:

- End of December 2019: SRFG sends a preliminary version of the basic handbook to all partners, and partners will be asked for feedback and choice of additional material for their version.
- Mid January 2020: SRFG iterates basic handbook, based on partner feedback, into the final version. Pilot partners make final decision on additional material for their (language).
- First week of March 2020: All partners have finished the material for their version of the handbook. All partners have finished translations into the local language. All final PDF goes to SRFG.
- 19 March 2020: SRFG creates publication of all (language) versions of the handbook, in collaboration with LUT and YPA all handbooks are published online on the platform and in hard copy, to be distributed at the DOIT conference.

## 4.3 Tagging the material

The filter options of the online toolbox can be enhanced by adding tags to the content in the toolbox. This offers an additional way to navigate the tools, using insights from the regional pilots.

All regional pilots have designed and tested education programmes in which children and youth learn to use (digital) technology, by following social innovation principles to develop entrepreneurship competences. The various ways in which technologies, social innovation principles and entrepreneurship competencies are addressed in the programmes can be categorised accordingly. These categories are described in detail in the D 4.3 report on pilots (phase 2). An overview of the preliminary categories can be found in figure 1.

*Table 1: Overview of categories of technologies, social innovation principles and entrepreneurship competencies in the regional pilot programmes.*

<b>Technologies</b>	<b>Social innovation principles</b>	<b>Entrepreneurship competencies</b>
sensors	facts	creativity
digital fabrication	problems	coping with uncertainty
design	systems	working with others
coding	people	planning & management
electronics	solutions	motivation & perseverance
craft	futures	self-efficacy

## PROJECT CONSORTIUM



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