

D7.1 CRAVEzero pinboard

Ā modular framework to build an effective low life cycle cost nearly zero energy building



COST REDUCTION AND MARKET ACCELERATION FOR VIABLE NEARLY ZERO ENERGY BUILDINGS

Effective processes, robust solutions, new business models and reliable life cycle costs,
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 CRAVEzero-Grant Agreement No. 741223
 WWW.CRAVEZERO.EU

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 Framework Programme of the European Union



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D7.1 CRAVEzero pinboard

Â A structured framework to build an efficient life cycle cost
nearly zero energy building

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FOREWORD

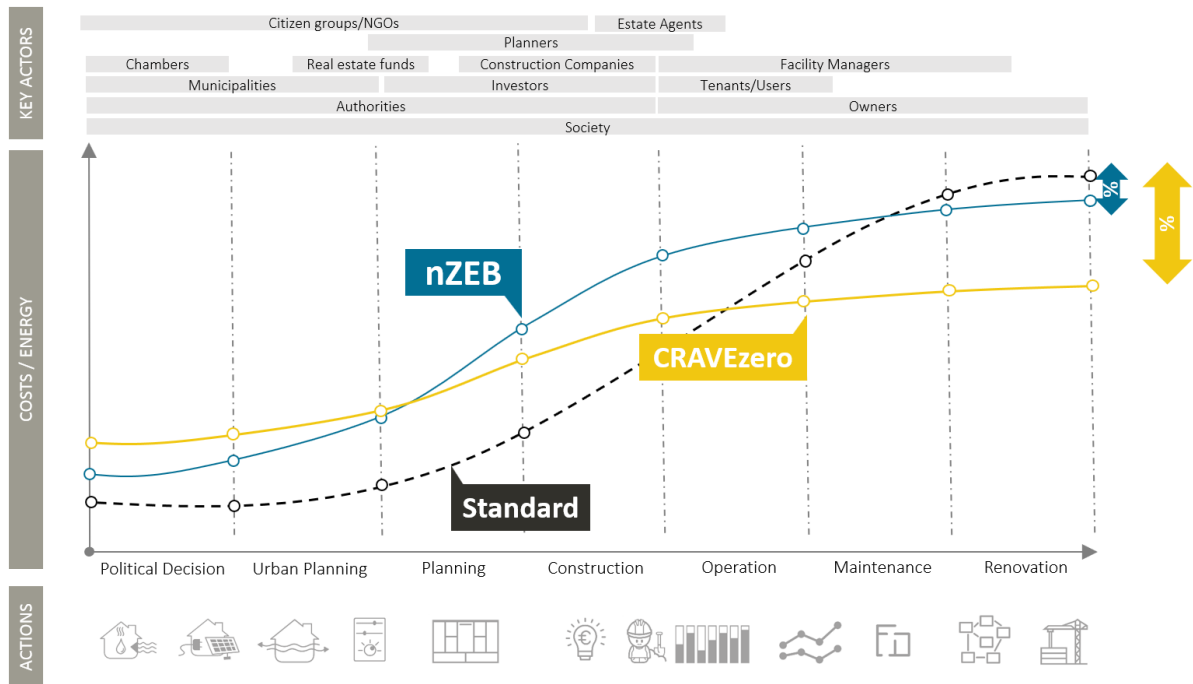


Figure1: CRAVEzero approach for cost reductions in the life cycle of nZEBs.

Cost optimal and nearly zero energy performance manufacturing and construction industry processes, levels are principles initiated by the European Union as well as in planning, design, and procurement [1]. The Energy Performance of Buildings Directive (EPBD) is a major challenge.

Directive, which was revised and amended in 2018. These will be significant drivers in the construction sector in the next few years because all new buildings in the EU from 2021 onwards are expected to be nearly zero energy buildings (nZEB). While implemented nZEBs have clearly shown that nearly zero energy target could be achieved using technologies and practices, most experts agree on a broad scale shift towards nearly energy buildings requires significant adjustments in prevailing building market structures and effective integration of efficient solution sets and renewable systems in a form that fits with the development,

The report presents documentation for the Pinboard which can be accessed via <http://pinboard.cravezero.eu/> or <http://www.cravezero.eu/pinboard/Pinboard-Main/PinboardMain.htm>. All the project results will be included in the Pinboard, an interactive web-based structured framework supporting in developing low LCC nZEBs.

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The CRAVEzero Pinboard



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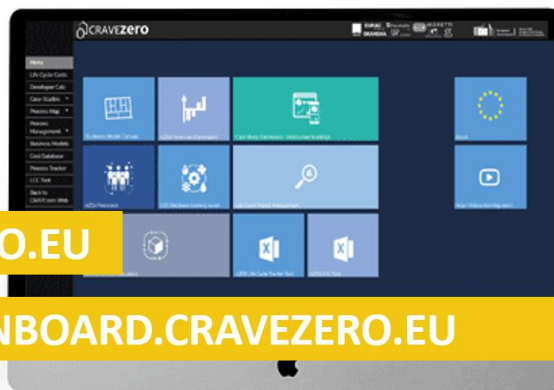


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nZEB Toolbox: PINBOARD.CRAVEZERO.EU



1. THE PINBOARD STRUCTURE

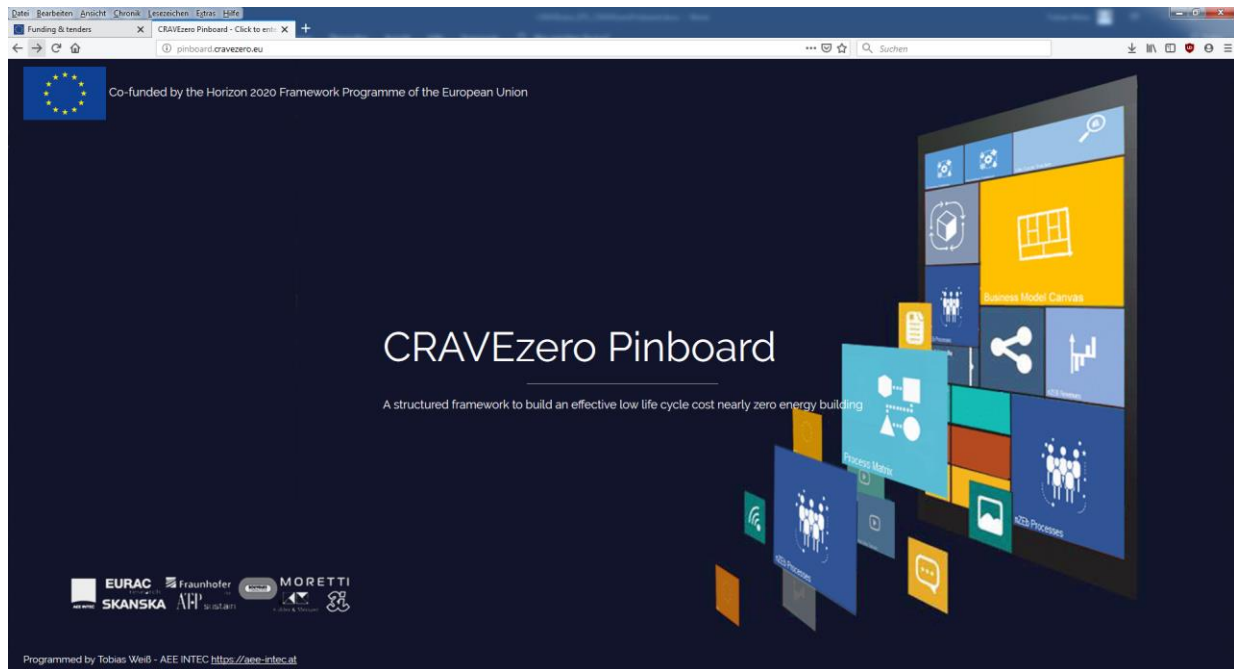


Figure 2 The CRAVEzero pinboard <http://pinboard.cravezero.eu/>

An interactive web structured framework supporting in developing low LCC nZEBs is available here <http://pinboard.cravezero.eu/>

The CRAVEzero pinboard is a structured framework organizing information and tools to build:

- an effective low life cycle cost nZEB business model
- reliable life cycle cost databases with best reduction potentials in processes
- technologies, methodologies, robust solutions and business models for nZEBs with low LCC

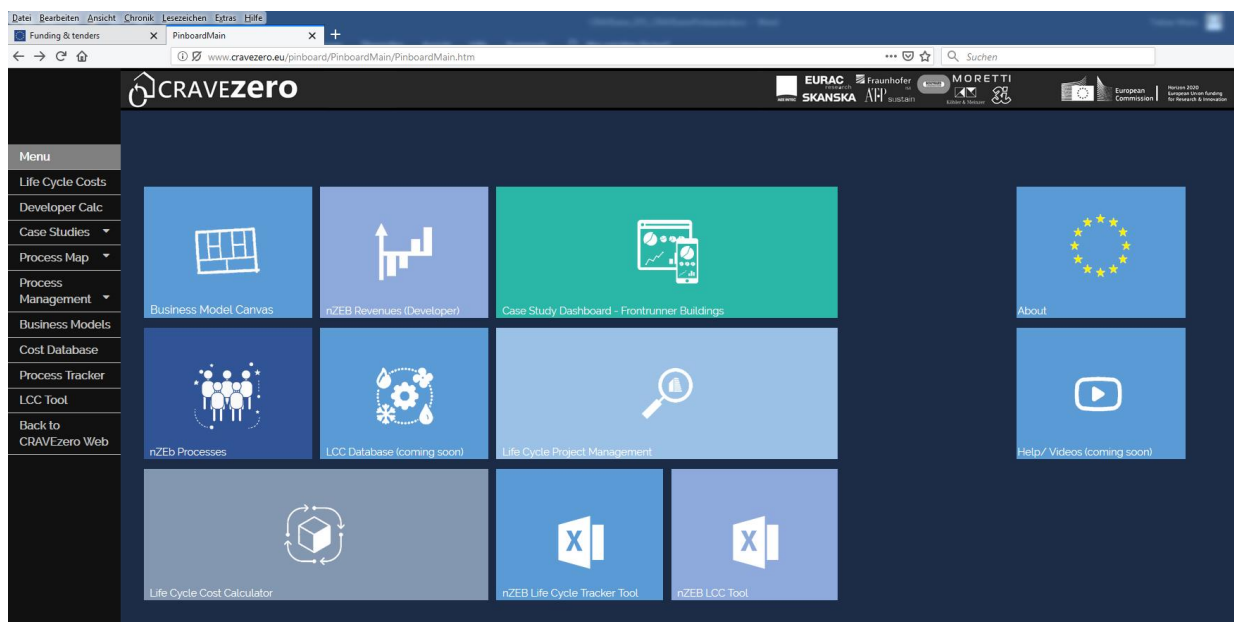


Figure 3 CRAVEzero pinboard overview page

User Interface

The tool and applications which have been developed in the course of CRAVEzero, are accessed via the CRAVEzero pinboard in two different ways:

1. Navigation Menu (Sidebar)

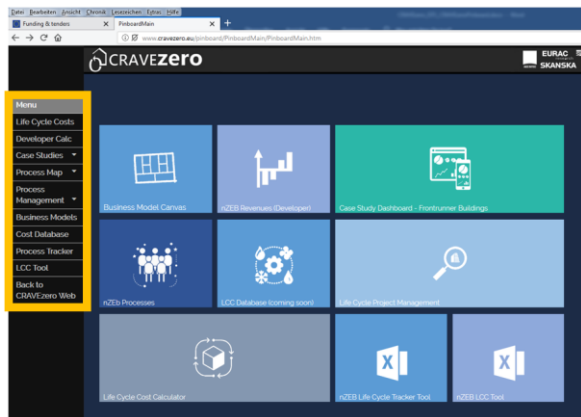


Figure 4 CRAVEzero Pinboard navigation by menu

2. Navigation by pinboard modules

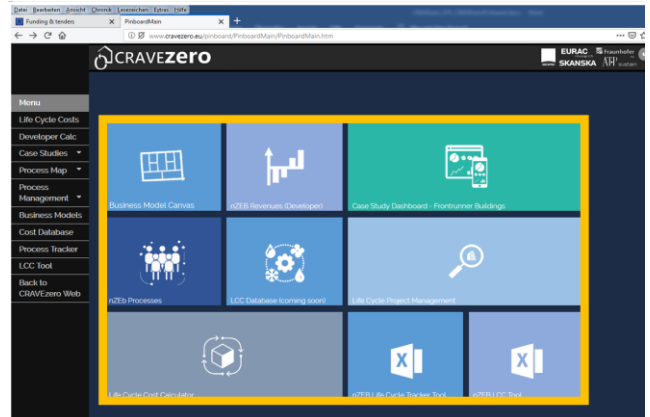


Figure 5 CRAVEzero Pinboard navigation by modules

By using the side menu on the left side it is possible to navigate back and forth through the tools, or to return back to the CRAVEzero website. By hovering the mouse over the modules a tooltip appears on the respective module. Clicking the left mouse button will open the selected module.

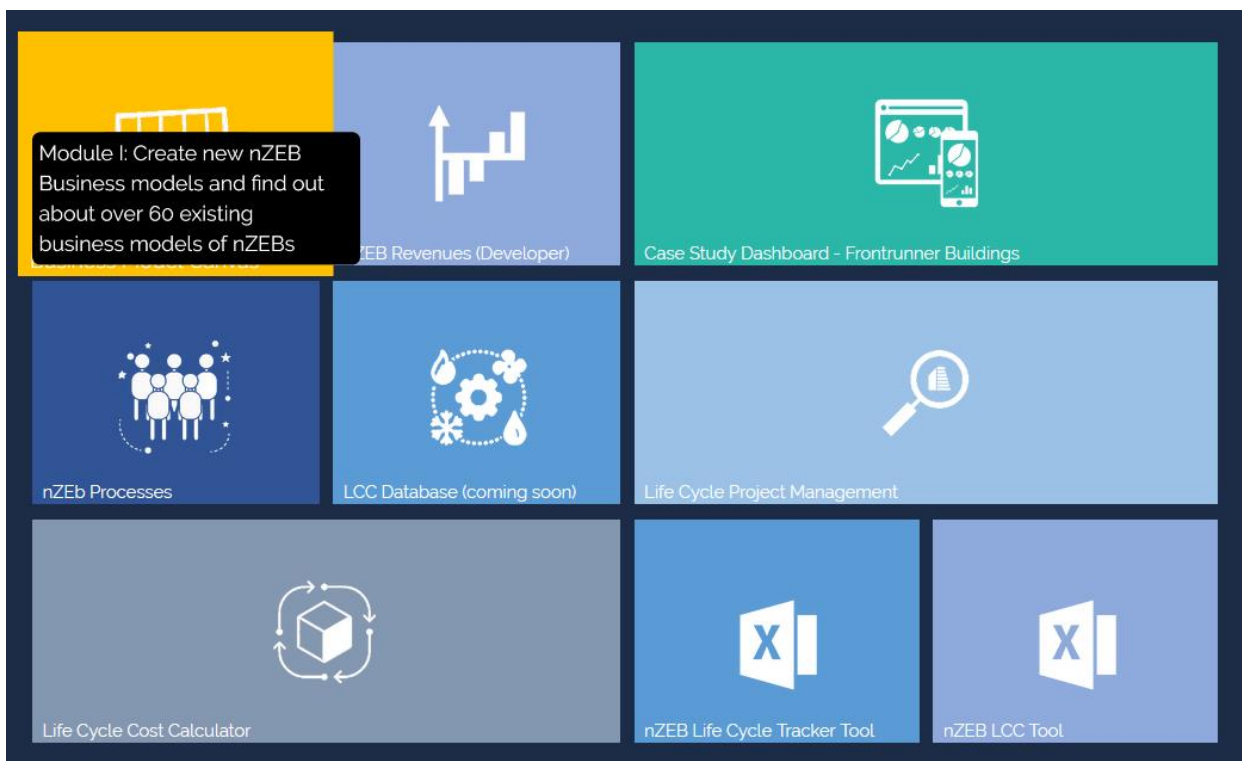


Figure 6 CRAVEzero Pinboard module description

General information about the project CRAVEzero and further explanatory videos for the different modules can be found under help/Videos.

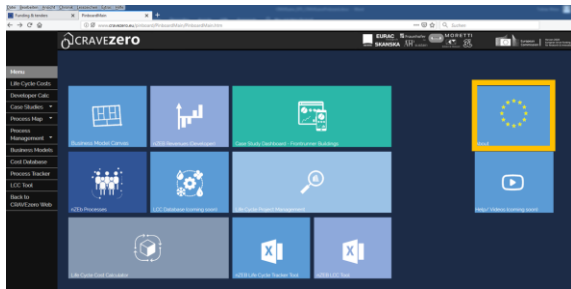


Figure 7: CRAVEzero Pinboard further project information

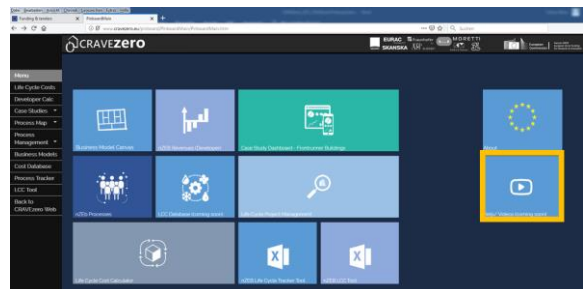


Figure 8: Further information and explanations about the tools

2. MODULE I: THE BUSINESS MODEL CANVAS

Overview - The nZEB Business Model Canvas

Step 1 ó How to use the nZEB Business Model Canvas

Business Model Canvas is a strategic management template for documenting existing nZEB business models. With the dropdown menu on the left side you can browse through 60 existing nZEB business models. The life cycle phase of the business model can be seen next to the dropdown menu. The information of each business model will be displayed according to the Osterwalder Business Model Canvas structure: It is a visual chart with elements describing a firm's product's value proposition, customers, and financial structure. The Business Model Canvas is a great tool to help you understand a business model in a straightforward, structured way. This canvas provides insights about customers, what value propositions are offered through what channels, and how a company achieves earnings to nZEBs.

Figure 9. Pinboard selection of the Business Model Canvas

On the start screen it is possible to choose how to work with the canvas.

There are two possibilities:

- select the existing business models identified
- create a new business model

