INVITATION TO THE PRESENTATION OF THE RINNO IT-TOOLS

In the EU-funded project RINNO, several IT-tools have been developed to ease the decision, planning and implementing processes of a renovation project. The tools will be presented by the developers at a serial of **webinars**. First set of IT tools focuses on

Toolkits for Improving the Building Renovation Planning & Design Phase

We kindly invite you to participate on the 24th of September at 2 p.m., the 25th of September at 2 p.m., and the 2nd of October at 2 p.m. to get to know the tools and their added value in your daily work. Each webinar will last 2 hours and will consist of a tool presentation and a Q&A session, supplemented by a questionnaire to evaluate the webinar

The program is available on the website https://nape.pl/rinno-webinar/ and is as follows:

Day 1 24-9-2024 at 2 p.m. CET 2 hours	Day 2 25-9-2024 at 2 p.m. CET 2 hours	Day 3 2-10-2024 at 2 p.m. CET 2 hours
Introduction Digital Twin INTEMA.building Q&A Questionnaire	Introduction VERIFY TEA tool Q&A Questionnaire	Introduction Renovation Scenario DSS Job Scheduling Optimizer Social-LCA Q&A Questionnaire

REGISTER NOW: : https://forms.gle/rgThLzrsCPbHRZz86

Link for the workshop day will be send after registration

**If you do not wish to register by the form please enquire for the link directly:
Katarzyna Rajkiewicz krajkiewicz@nape.pl**

Description of each tool is described in following pages.

Details of the Toolkits for Improving the Building Renovation Planning & Design Phase

By Vassilis Sougakis, CERTH/ITI (GREECE)

Day 1 – 24/9/2024 at 2 p.m. CET - 2 hours	
Tool name	**Digital Twin tool**
Equipment required	Computer with an internet connection
What does the tool do?	Preliminary energy analysis of baseline condition of the building and alternative renovation scenarios
Why use the tool?	To assess the energy performance of potential renovation scenarios quickly with the use of limited premilinary data and define renovation measures of interest early in the design process
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner
Tool name	**INTEMA.building**
Equipment required	Computer with an internet connection
What does the tool do?	INTEMA.building is a web based application for conducting accurate transient building energy simulations, able to model multiple energy systems (production, consumption and storage). The tool is able to estimate with high accuracy the electrical and heating needs of the building.
Why use the tool?	To assess the energy consumption and production of the building before and after the renovation and to calculate specific energy related KPIs
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner

Day 2 25/9/2024 at 2 p.m. CET- 2 hours	
Tool name	**VERIFY**
Equipment required	Computer with an internet connection
What does the tool do?	VERIFY is a web-based platform designed to provide a holistic methodology and evaluation for the Lifecycle Assessment (LCA) and Lifecycle Cost (LCC) analysis performed on planned building renovations. The platform provides extensive analysis to support the user in deciding the best renovation plan for a building in terms of environmental and economic factors, by comparing its performance to that of the current building's infrastructure
Why use the tool?	To conduct an LCA/LCC analysis of alternative renovation scenarios for the building under investigation and to calculate specific environmental and cost/financial KPIs for these scenarios
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner

Tool name	**TEA TOOL**
Equipment required	Computer with Revit 2022 installed
What does the tool do?	The TEA tool evaluates and simulates renovation scenarios to select the optimum solution by creating a report. The output data from the tool is a valuable resource because it grants access to a report from 5 different categories: -Utility disruption -traffic disruption -physical space disruption -internal environmental disruption -waste.
Why use the tool?	Quick estimation of waste creation and management, Quick estimation of tenants and building owners expected disruption due to construction works, Disruption to occupants during renovation phases was inevitable; now, the TEA tool allows better communication among occupants, project managers, and contractors by giving different outcomes before the renovation phases begins.
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner

Day 3 – 2/10/2024 at 2 p.m. CET - 2 hours	
Tool name	**RENOVATION SCENARIO DSS**
Equipment required	Computer with an internet connection
What does the tool do?	The tool is a Decision Support System which enables the informed decision by the user for the selection of the optimum renovation scenario based on a holistic assessment
Why use the tool?	To select the best renovation scenario out of a range of alternative ones according to the user's preferences and the holistic evaluation of the scenarios where their performance is expressed through specific energy, environmental, cost/financial and disruption KPIS
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner
Tool name	**Job Scheduling Optimizer**
Equipment required	Computer with an internet connection
What does the tool do?	The Job Scheduling Optimizer (JSO) is a web-based platform that supports the scheduling of a set of jobs which comprise a renovation scenario work plan. The tool's purpose is to generate the optimal sequence of the jobs included in a renovation scenario with respect to available resources

Why use the tool?	To define the optimum sequence of works of the renovation project according to specific constraints (duration/cost and disruption) and the resources available. The tool may be used for the preliminary planning of general activities based on feedback received from the TEA tool (automated process at the design phase) or for the detailed planning of day-to-day activities during the renovation/installation phase (manual process)
Who could use it?	Energy Consultant, Renovation Manager, Architect, Design Manager, Design Team Member, Design Coordinator, Project Owner
Tool name	**Social LCA**
	Description will be updated shortly.

Webinar website: https://nape.pl/rinno-webinar/

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Contact: krajkiewicz@nape.pl