DELIVERABLE D.T2.2.2

Downstreaming Interreg - CE FEEDSCHOOLS solutions to support schools renovations with financial mechanisms

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D.T2.2.2: Downstreaming FEEDSCHOOLS solutions to support schools renovations with financial mechanisms

Activity A.T2.2 Downstreaming past ICT EE financial and decision support tools

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1. Introduction

The deliverable T2.2.2 belongs to the activity related to the downstreaming past ICT EE financial and decision support tools and solutions to support schools renovations with financial mechanism (A.T2.2).

2. Interreg CE FEEDSCHOOLS – Description

The Interreg CE FEEDSCHOOLS (*Financing Environment and Energy Efficiency development in Schools* *https://www.interreg-central.eu/Content.Node/TARGET-CE.html*) project developed solutions to Local Authorities both in technical and financial terms to implement Nearly Zero Energy Building (NZEB) renovation activities in CE schools. Also project provide open lessons focused on behavioural change in schools.

One of developed tools in FEEDSCHOOLS is the Feedschools web toolkit, available on the web site *https://www.segreto.eu/feedschools-v0_1/index.php*. The tool is fully usable by other organizations of the involved regions considering its user friendly and harmonized characteristics.
Feedschools innovative web based toolkit consists of:
- A database on novel energy efficiency technologies and good practices (innovative techniques, materials, components and systems) for retrofitting existing buildings and in particular schools and convert them to Nearly Energy Zero Buildings (nZEB);
- An energy and resource efficiency (ERE) application (App) for calculating energy profile and carbon footprint based on simplified Life Cycle Assessment (LCA) and kWh savings;
- Financial App. The toolkit will simplify the energy audit process allowing significative economic and time savings while choosing the more advantageous renovation option taking in account also carbon footprint of renovation activities. The toolkit will be targeted to Municipalities, energy managers, schools technical staff and decision makers.
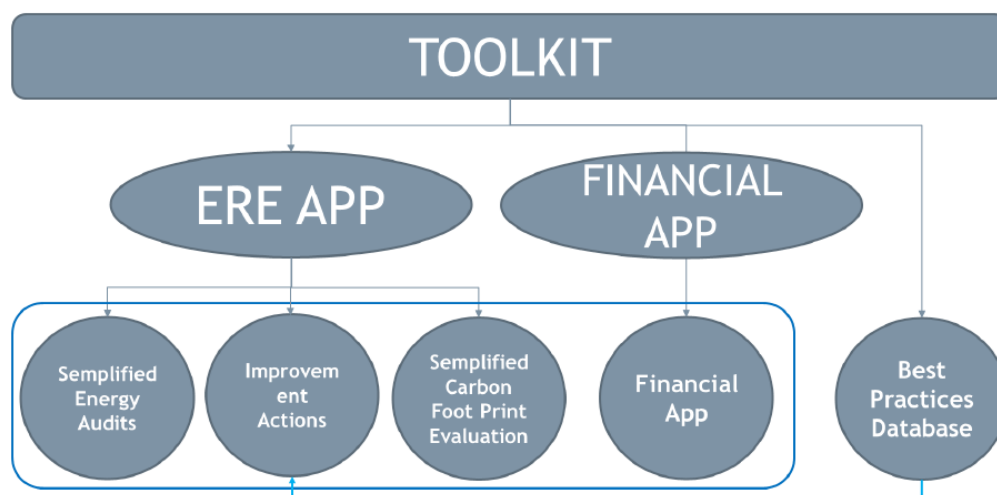

Figure 1. Feedschool toolkit

2.1 FEEDSCHOOLS WEB TOOLKIT– Adaptation to new pilot areas

The Feedschools web toolkit is adjusted and tailored for a non-expert user which knows basic characteristics of the school building. Generaly, the Feedschools tool is already widely applicable, there are also guidelines and manuals.

Aiming at inflow of private (non-public) funds, sharing knowledge on successful financing mechanisms that will allow public bodies to afford costs of NZEB renovation of public buildings, financial app will select most promising approaches at a regional and national level by setting up different financing models according to regional characteristics, regulations and best practices.

Data for each building (general data, parmeters of building construction and systems, energy consumption) are usually available in enery audits, which in generaly all school objects already have. Data is necessary for the calculation of energy efficiency with different renovation options in the web toolkit.

2.2 FEEDSCHOOLS E-learning course – Adaptation to new pilot areas

The e-learning curricula was developed and implemented in ENEA e-learning platform which assures availability of the course after the project end.
All working material developed for these trainings is available on web site https://formazione.enea.it/feedschools.php .

3. Conclusions

The Innovative web based Feedschools toolkit is composed of: an energy resource efficiency APP (ERE); a Financial APP and a database on novel EE technologies and good practices. It helps transnational technicians and non-expert users to select optimized energy renovation plans targeted to nZEB.
The Financial App is useful to public operators to identify optimal financing mechanisms for finalizing of schools renovation plans, and it is integrated in the toolkit with ERE App and database. The App is fully usable by other organizations of the involved regions considering its user friendly and harmonized characteristics. It is documented by guidelines and manuals and it can be used by countries subjected to similar financial conditions.