



## Soustvarjanje slovenske nacionalne strategije preno ve

# RAZVIJANJE ZNANJ IN VEŠČIN ZA PRENOVITVENO REVOLUCIJO

## Uvod

BUILD UPON je največji svetovni sodelovalni projekt s področja preno ve stavb – združuje preko 1.000 organizacij iz 13. držav, ki bodo v letu 2016/17 izvedle več kot 80 dogodkov. Njegov namen je, da s pomočjo državam, da do roka 30. aprila 2017 naredijo strategije za preno vo ob-

stojećih stavb v celotni Evropi, spodbudi preno vitveno revolucijo. Omenjene strategije so ključne za zmanjšanje porabe energije v Evropi in širše, zmanjšanje vpliva podnebnih sprememb ter ustvarjanje stavb, ki prav vsakomur zagotavljajo visoko kakovost življenja.

[www.buildupon.eu](http://www.buildupon.eu)



## Ali razvijamo dovolj znanj in veščin?

Znanja in veščine za načrtovanje celostnih preno v stavb (in to preno v, ki so tudi kakovostno izvedene) še niso v zadostni meri razširjena po vsej Evropi. Podjetja, lastniki stavb, javni naročniki ter mnogi drugi morajo za razvoj trga še usvojiti mnoga nova znanja ter razviti svoje zmogljivosti. V podporo doseganju teh izzivov se na tem področju veliko dogaja, od obsežnih evropskih programov za proizvodne delavce do inovativnih delavnic za izpopolnjevanje javnih naročnikov. Posebno zanimivo pa je, kako posamezne organizacije na poti k tem izzivom sledijo svojemu napredku.

Koliko ljudi mora usvojiti nova znanja ter ali se že približujemo potrebnemu številu le-teh? Ali se bodo ta znanja v prihodnosti nadalje razvijala? In - ali na trgu obstajajo dokazi o

rasti števila usposobljenih za izvajanje celovitih preno v?

Za nacionalne strategije preno ve ter za vse organizacije, ki vlagajo svoja sredstva v izgrajevanje znanj in veščin, bo odločilno določiti kolektiven vpliv, ki ga želijo doseči ter razviti sposobnosti, da pri tem izmerijo svoj napredek.

Ta letak ponuja vpogled v nekaj primerov stavbnih pobud s področja izgrajevanja znanj in veščin iz preno vitvene vikipedije RenoWiki na strani projekta BUILD UPON ter načinov, kako le-te določajo ter komunicirajo svoj vpliv. Ne želimo vam govoriti o tem, kako bi naj bilo, ampak bi želeli povabiti organizacije, ki sodelujejo pri sestavi gradnikov znanj in veščin nacionalnih strategij preno ve, da raziščejo ta vprašanja.



Na zadnji strani letaka je vključenih nekaj gradiv uporabna za vse, ki delujejo na področju izgrajevanja znanj in veščin za prenovitveno revolucijo. za merjenje učinkov, za katera menimo, da so

## Pobude za razvijanje znanj in veščin v RenoWikiju

**DGNB RP Training** (Slovenia) Twitter LinkedIn Facebook Edit

**IMPACT**

- ✔ Rising awareness and providing skills in the field of architecture and sustainable buildings

**START DATE** September 2016

The DGNB RP training program makes its entire expertise available to a broad professional audience. With its diverse and individually tailored services, the DGNB Academy in the cooperation with lokal partner GBC Slovenia provides all interested parties with precisely the knowledge they need for the growing market in sustainable construction. The training format will be tailored to the needs of the client and the level of knowledge of the participants. The scope of content and time depends on the client's requirements and will be agreed in detail. The training is delivered by DGNB trainers and offers ample opportunities to discuss and explore topics related to DGNB and current approaches to sustainable development.

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**RESPONSIBLE ORGANISATION(S)**  
Green Building Council Slovenia

**CONTACT AN EXPERT**  
in Robert Smodiš

**Grants to Households for Investments in Energy Efficiency and Renewable Energy in Residential Buildings** (Slovenia) Twitter LinkedIn Facebook Edit

**IMPACT**

- ✔ CO2 emissions reduction (t)
- ✔ Energy savings (GWh/year)
- ✔ Increase in renewable energy use (GWh/year)

**START DATE** March 2016

Non-repayable subsidies (grants) to households for investments in energy efficiency and renewable energy in residential buildings. Eligible investments: A-solar heating system; B-biomass boiler; C-heat pump; D-district heating; E-energy efficient windows; F-facade insulation; G-roof insulation; H-heat recovery ventilation; I-new nearly-zero-energy buildings (nZEBs); J-full retrofit; K-apartments in nZEBs (full retrofits); Amount of grant up to: 25 % of eligible costs (A-H), EUR 20,250 (I), EUR 31,500 (J), EUR 12,000 (K). Total amount (Public call 29SUB-OB15): EUR 14 million. To receive grants, households have to file applications to the public call published by Eco Fund. Grants can be combined with Eco Fund's loans.

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**RESPONSIBLE ORGANISATION(S)**  
Eco Fund, Slovenian Environmental Public Fund

**Drafting of Slovenian technical guidelines for energy efficient renovation of cultural heritage buildings** (Slovenia) Twitter LinkedIn Facebook Edit

**IMPACT**

- ✔ Provision of technical support to engineers in the process of integral renovation of a cultural heritage building.
- ✔ Elaboration of the »heritage factor« to enable positive discrimination of cultural heritage buildings in financing schemes.
- ✔ Contribution to fulfilment of national strategic goals, i.e. meeting the 3 % renovation rate target.
- ✔ Securing long-term benefits and heritage-specific cost-effectiveness of interventions.

**START DATE** January 2016

The guidelines consist of general measures and restrictions relating to cultural heritage buildings, their design features, construction materials, the types of interventions, etc. On the one hand, the guidelines provide technical support to engineers in the process of integral renovation of a cultural heritage building, where energy efficiency represents only a part of it. On the other hand, they ensure that owners of cultural heritage buildings are placed in a more equitable position to obtain financial resources for the renovation of their buildings (e.g. funds from the European Structural Funds and the Cohesion Fund).

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**RESPONSIBLE ORGANISATION(S)**  
Building and Civil Engineering Institute ŽRMK  
Urban Planning Institute of the republic of Slovenia

**CONTACT AN EXPERT**  
in Mag. Miha Tomšič



**ingREeS** (Slovakia)




[Edit](#)

**IMPACT**

- ✔ Forecast: 400 building professionals in Slovakia trained as energy specialists

**START DATE** January 2015

The Slovak Chamber of Civil Engineers are taking part in a programme called ingREeS (within Horizon 2020). Its main aim is to improve the qualification of professionals in the construction industry regarding energy efficiency and renewable sources. Its aim will be to prepare training for 400 individuals in Slovakia. They will become educated specialists in the field of energy efficiency and renewable energy as engineers, architects, designers, construction managers, building inspectors, energy consultants or a qualified person for the energy certification of buildings.

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**RESPONSIBLE ORGANISATION(S)**

[The Slovak Chamber of Civil Engineers](#)

**CONTACT AN EXPERT**

[in Ladislava Dzuricová](#)

**EFdeN 4C – The First Research Centre for Comfort Conditions** (Romania)




[Edit](#)

**IMPACT**

- ✔ 120 partners believe in us
- ✔ over 10.000 visitors of EFdeN
- ✔ over 150 students and professors involved
- ✔ over 10 national and international awards

**START DATE** November 2015

Solar Decathlon Bucharest NGO is focused on eco-education and works towards bringing together those who are the deciding factors and those who wish to change Romania's green policies and market. The EFdeN initiative and its house prototype aim to shift the perspective on eco-friendly buildings in Romania, starting with its young people. Through this project, students have the opportunity to put into practice theoretical concepts, resulting in an improved learning process and in valuable experiences. The building placed at the Installation Engineering Faculty in Bucharest is Romania's first Research Centre for Comfort Conditions.

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**RESPONSIBLE ORGANISATION(S)**

[EFdeN](#)

**CONTACT AN EXPERT**

[in Mihai Toader-Pasti](#)

**BUILD UP SKILLS BULGARIA: Roadmap for Trainings to Develop Skills and Knowledge on Intelligent Energy Solutions** (Bulgaria)




[Edit](#)

**IMPACT**

- ✔ Awaiting responsible organisation input.

[Source 1](#)

**START DATE** January 2011

In order to reach the EU's 2020 energy and climate change objectives, to deliver high energy performing renovations and nearly zero energy buildings, a major effort is needed to increase the number of qualified workers and the quality of educational programmes. BUILD UP SKILLS BULGARIA is designed to: perform an analysis of the national education system, political and legislative framework and market demand; provide a detailed framework of the specific training activities; develop a roadmap for overcoming the identified barriers and gaps and conducting trainings on Intelligent Energy Solutions in Buildings; undertake targeted endorsement campaign involving the relevant state authorities.

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**RESPONSIBLE ORGANISATION(S)**

[EnEffect Consult SP Ltd](#)  
[Bulgarian Construction Chamber](#)

**CONTACT AN EXPERT**

[in Dragomir Tzanev](#)



## Povzetek

Meritve, ki se uporabljajo za določanje in merjenje učinkov, se razlikujejo glede vrste znanj in veščin, ki jih želimo vzpodbuditi ter tega, kako učinkovito se s tem ukvarja posamezna organizacija.

V zgornjih primerih predstavljene meritve lahko razdelimo na:

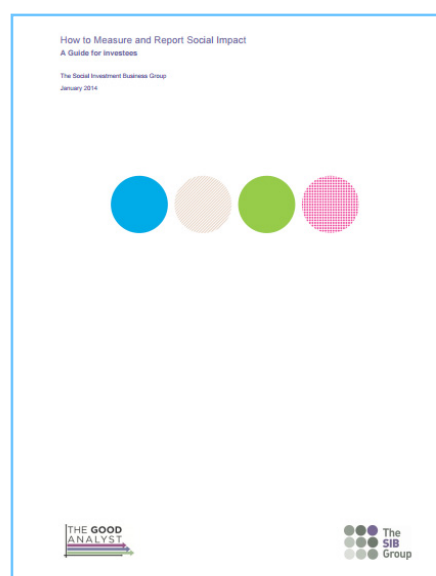
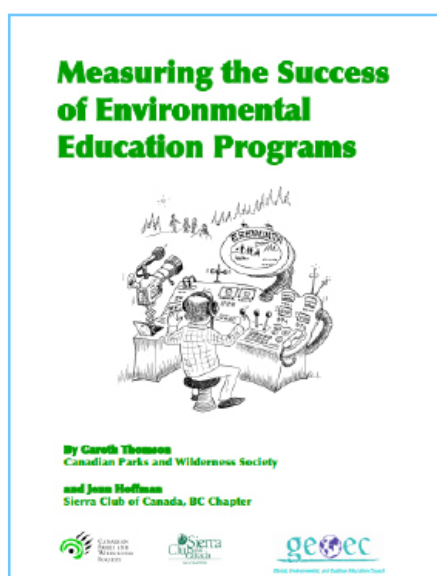
- 1 Meritve obsega:** se nanašajo na vrednost "koliko", kot na primer koliko posameznikov ali združenj je usposobljenih ali izobraženih.
- 2 Meritve kakovosti:** se velikokrat nanašajo na povratno informacijo o tem, kako so posa-

mezniki občutili podporo pri pridobivanju novih znanj in sposobnosti, ali na število priznanj, prejetih v posameznem programu.

- 3 Meritve aktivnosti:** se nanašajo na spremljanje podatkov o tem, koliko ljudi ali združenj, ki so bili usposobljeni, na podlagi usvojene izobrazbe postane dejavnih, oziroma ali le-ti izrazijo željo biti dejavni.
- 4 Meritve rezultatov:** se pogosto prikazujejo sočasno z meritvami obsega, vendar sledijo končnemu rezultatu izgradnje znanj in veščin. Primer zajema ceno ali prihranke energije.

## Kako nadalje?

To so le nekateri viri, ki jih priporočamo za določanje in merjenje učinkov, za katere upamo, da bodo v pomoč vsem, ki si iščejo poti, kako to izvesti.



Projekt je sofinanciran s strani Evropske skupnosti v okviru raziskovalnega in inovacijskega programa Obzorje 2020 s sporazumom o dodelitvi sredstev št. 649727.

*Izjava:* Odgovornost za vsebino tega gradiva nosijo njegovi avtorji. Gradivo ne predstavlja nujno stališč Evropske komisije ter ne EASME, ne Evropska komisija nista odgovorni za kakršno koli uporabo le-tega.

