Zelene spretnosti za življenje in učeče se skupnosti

Sedmi forum EPUO in spletna razprava EPALE

18. oktober 2022, spletni dogodek (Zoom)

#ForumEPUO2022 #EPUO2022

Denarna podpora:

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA IZOBRAŽEVANJE, ZNANOST IN ŠPORT

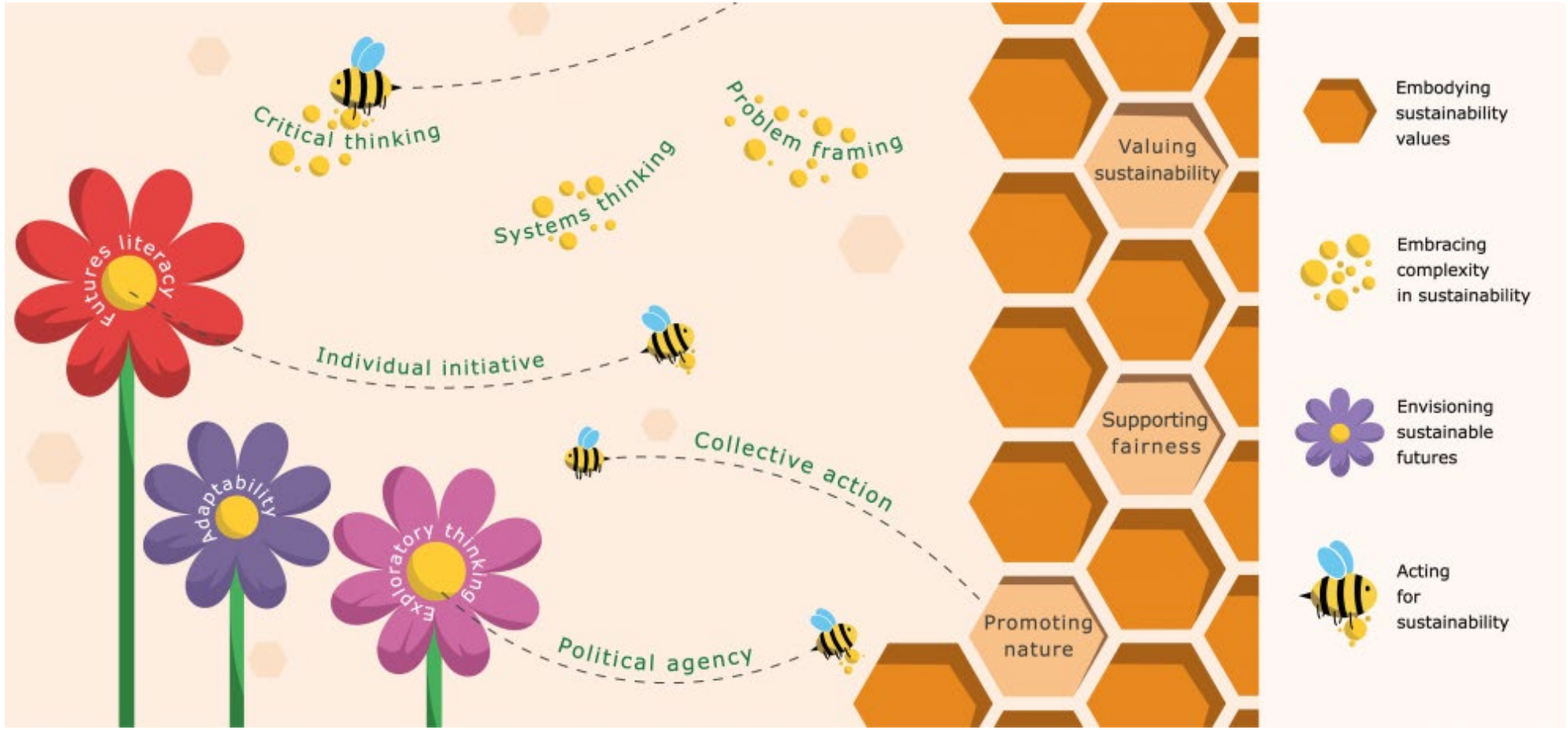
Sofinancira program Evropske unije Erasmus+

Dr. Johanna Robinson, Andragoški center Slovenije / Slovenian Institute for Adult Education

Na poti k opolnomočenju z zelenimi kompetencami prek participacije pri skupnostnem opazovanju

Towards empowerment with green competences via participation in community observation

GreenComp (sustainability)
Competence areas and competences



What is Citizen Science

"general public engagement in scientific research activities when citizens actively contribute to science either with their intellectual effort or surrounding knowledge or with their tools and resources" Green paper on Citizen Science for Europe

Levels of Citizen Science

Level 4 'Extreme'	• Collaborative Science – problem definition, data collection and analysis
Level 3 'Participatory science'	• Participation in problem definition and data collection
Level 2 'Distributed Intelligence'	• Citizens as basic interpreters
Level 1 'Crowdsourcing'	• Citizens as sensors

By Muki Haklay

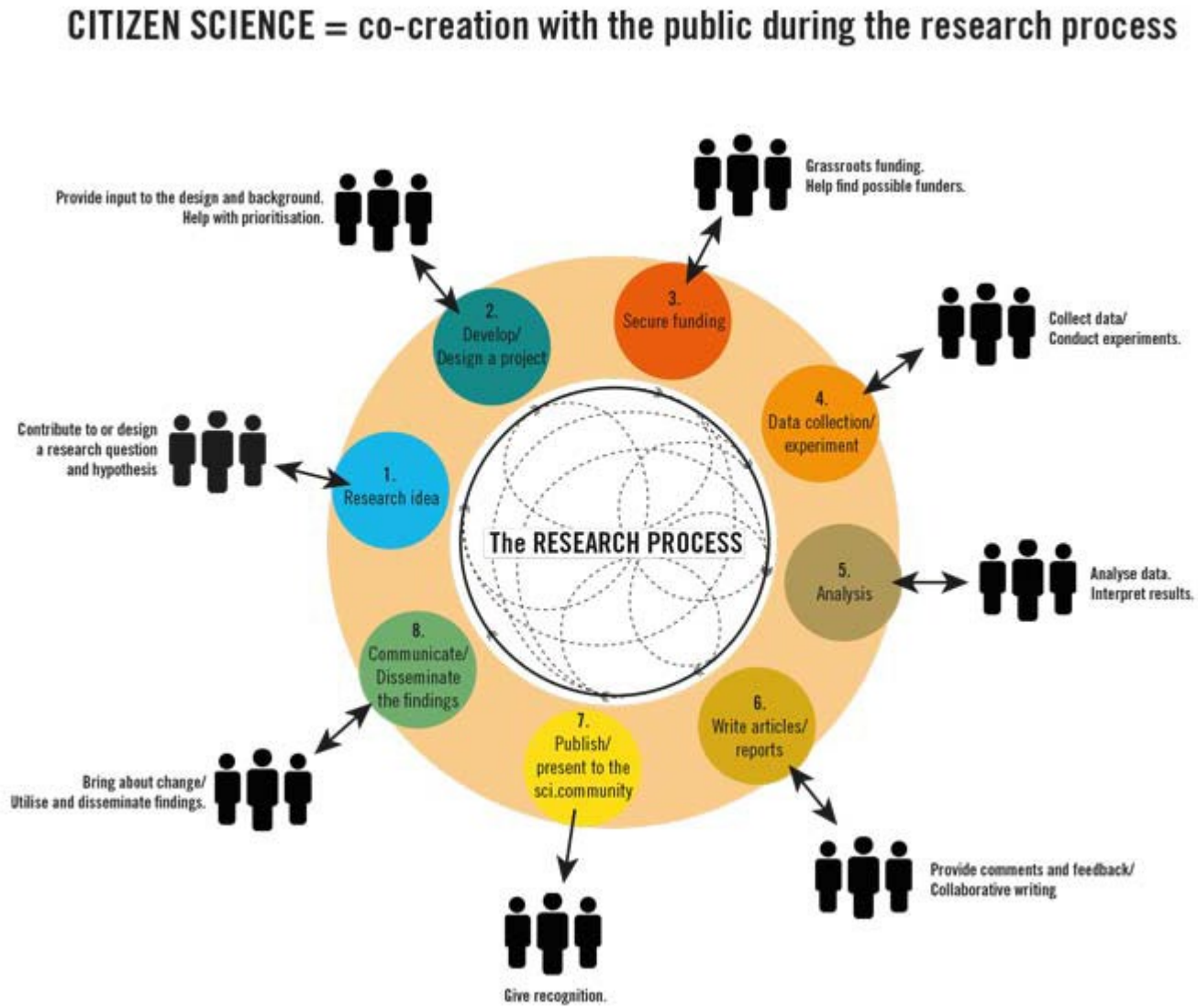
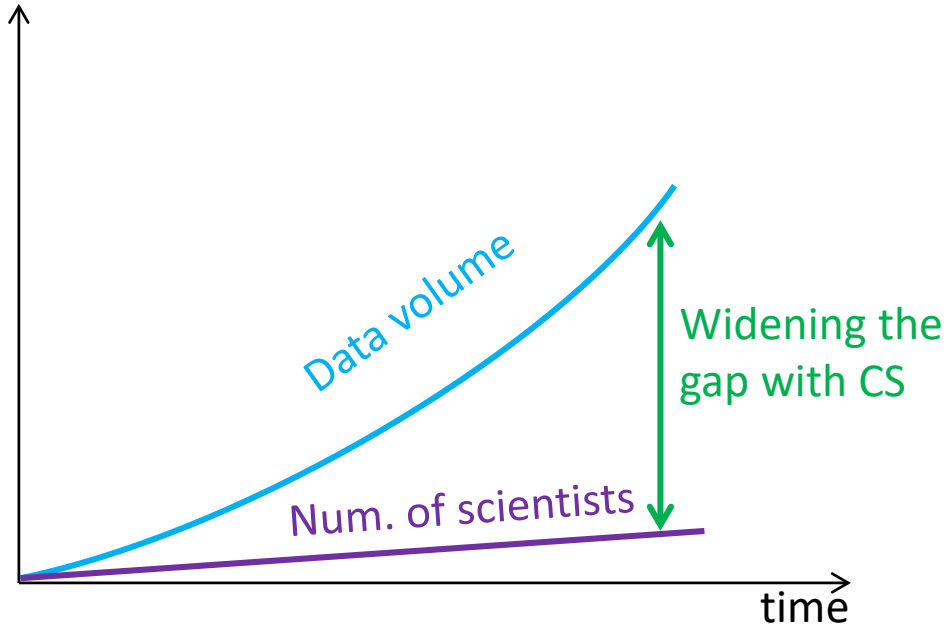


Illustration by: Lotta W Tomasson/VA CC BY-NC 2.0

Win-win in Citizen Science

For scientists:

- Speed up scientific process: BIG data, spatio-temporal resolution, local knowledge



For citizens and society

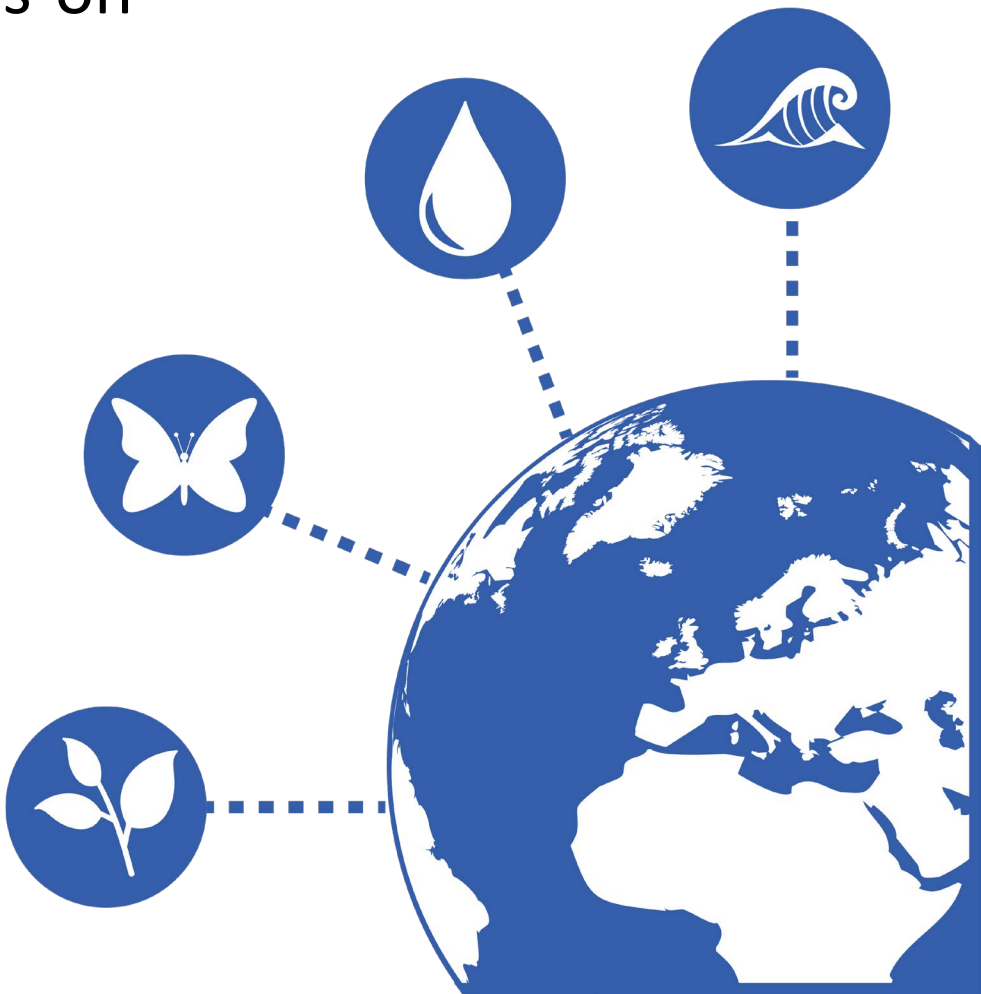
- citizen science **democratizes** knowledge production
- blurs the distinction and ensures better exchange of knowledge between science and society while adressing societal challenges
- environmental democracy and literacy: engaging with as well as gathering, developing and sharing knowledge about one's environment
- access to data and means to influence one's place of residence
- Citizens gain better knowledge of what research entails and how it is conducted, something that over time can increase their confidence in science

CS promotes individual and collective action and response to climate change

- Sole information is not enough – need of hands-on experience and primary data **-> observations**

> ***”Tell me, and I‘ll forget.***
> ***Show me, and I may remember.***
> ***Involve me, and I will understand“***

- Bridging the gap between local knowledge (and observation) with global scientific evidence **(seeing ones role in the big picture)**



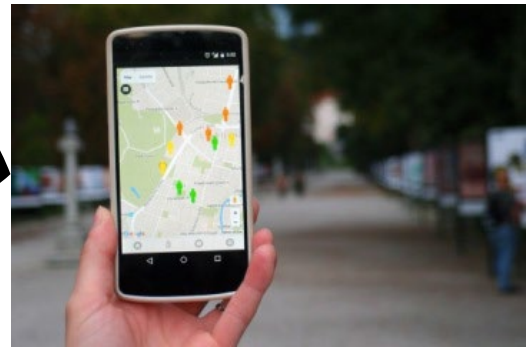
Why would people participate?

SMURBS
ERA-PLANET

https://doi.org/10.1080/09640568.2020.1853507

Shift in paradigm in environmental crowd sensing devices

Population vs.s individual

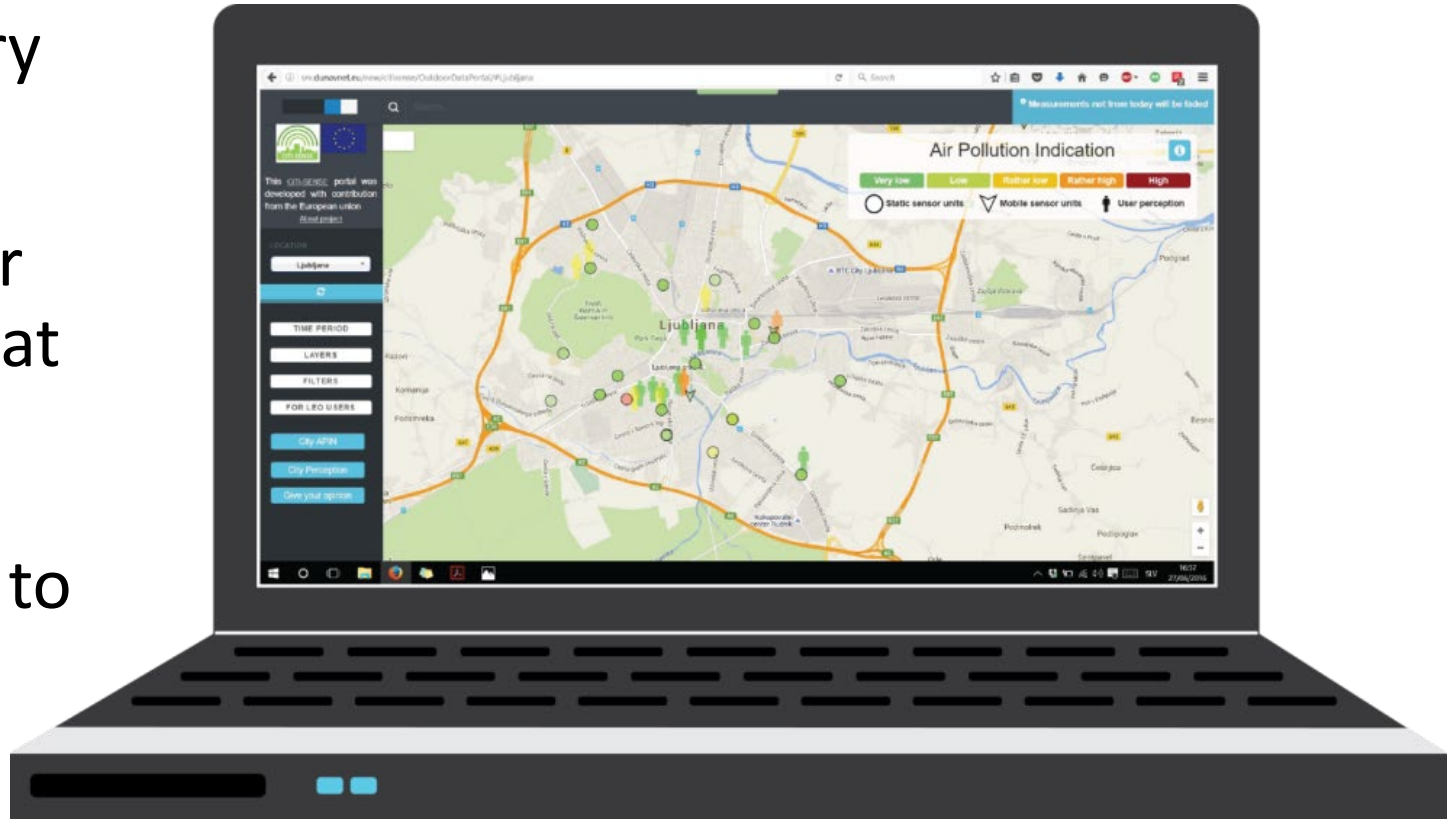


CITI-SENSE

Example: community sensing

- Citizens observatory
- Concrete example:

In Scotland, a sensor device was installed at school yard ->raised awareness of air quality and the links to transport



CITI-SENSE

enovicke.acs.si/kakovost-zraka-v-pisarni-na-acs/

e-novicke@acs.si Predstavitev Stiki Arhiv Varstvo zasebnosti ACS Slovenščina

novičke ACS

DOMAČE MEDNARODNO PROJEKTI ESS PUBLIKACIJE KNJIŽNICA TVU EPALE BLOG

KAKOVOST ZRAKA V PISARNI NA ACS

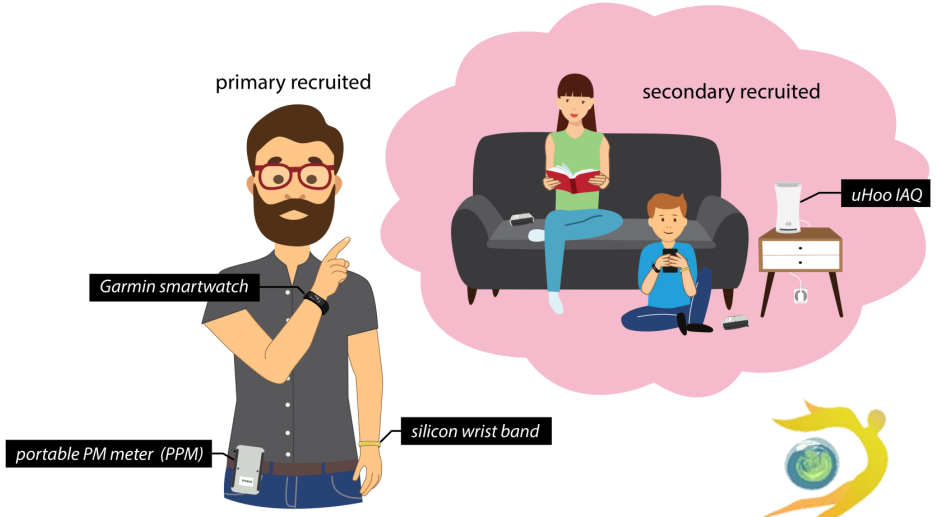
četrtek, 13. oktobra 2022 | Domače novice, Prva stran

Kakovost zraka vpliva na zdravje in počutje človeka. V notranjih prostorih preživimo približno 90 % našega časa. Ali ste vedeli, da je kakovost zraka v zaprtih prostorih lahko mnogokrat slabša od tistega, ki ga dihate zunaj?

AKTUALNO

MIGRACIJE IN IZZIVI VEČKULTURNOSTI
Migracije so ena osrednjih tem, ki zaznamujejo čas, v katerem živimo. Zato jim posvečamo poseben tematski okvir.

NOVI KORONAVIRUS in mi
Nova rubrika v času pandemije covid-19



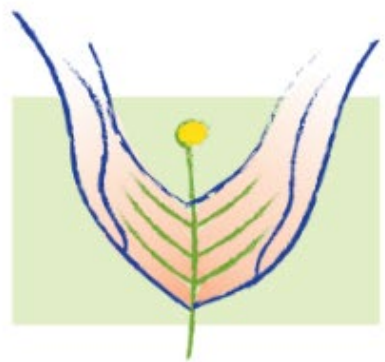
ICARUS

acs.si/projekti/domaci/podnebni-cilji-in-vsebine-v-vzgoji-in-izobrazevanju/

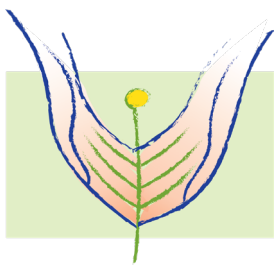
O NAS PODROČJA DELA PROJEKTI MEDNARODNO SODELOVANJE KNJIŽNICA IN VIRI AKTUALNO COVID

a⁻ / a⁺

Podnebni cilji in vsebine v vzgoji in izobraževanju



Naziv projekta	Podnebni cilji in vsebine v vzgoji in izobraževanju
Časovni okvir	1. 3. 2022 – 20. 11. 2023
Financer	Ministrstvo za okolje in prostor s sredstvi Sklada za podnebne spremembe
Kontaktna oseba	dr. Nevenka Bogataj T: 01 5842 579 E: nevenka.bogataj@acs.si



18. 5. 2022

a⁻ / a⁺

Sodelujte v rojevanju občestvene znanosti v izobraževanju odraslih

V projektu Podnebni cilji in vsebine v vzgoji in izobraževanju se je zaključil prvi cikel kratkih usposabljanj z naslovom ABC okoljskega učenja 1. Spoznali smo makro raven okolja – podnebje, ki terja dolgoročna sistematična in metodološko standardizirana opazovanja. V drugem delu smo spoznali drugo, posamezniku bolj dosegljivo raven opazovanja – mikro-svet opraševalcev.

Z usposabljanjem bomo nadaljevali, in sicer zato, da bi vpeljali in preizkusili nov pristop k izobraževanju, ki temelji na naših bogatih izkušnjah s skupnostnim učenjem.

Doživite zanimivo in preprosto izkušnjo! Opazovali bomo opraševalce na cvetovih sončnic.

KATEGORIJE:

Druge novice
Glasila in revije
Mednarodno sodelovanje
Projekti
Publikacije
Raziskave
Razpisi
Strokovni dogodki
Video
Zakonodaja

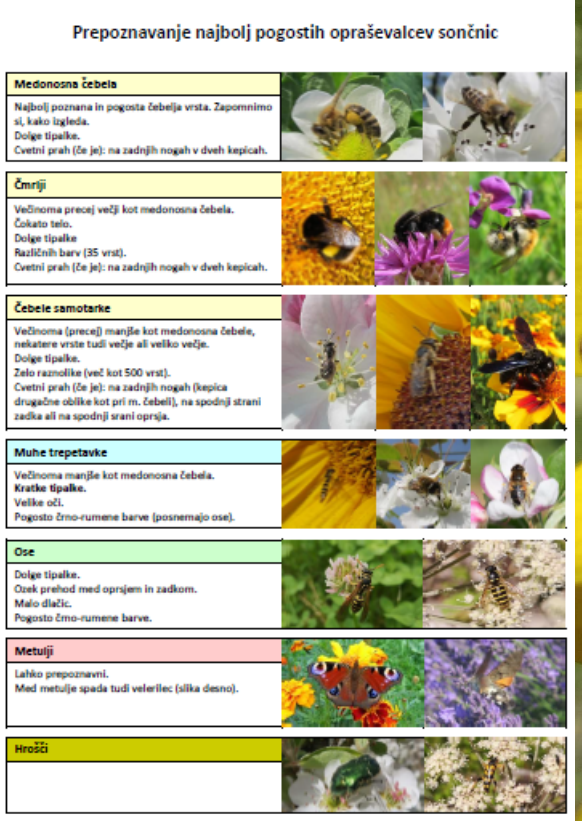
PODNEBNI CILJI IN VSEBINE V VZGOJI IN IZOBRAŽEVANJU

Observing the growft of sunflowers




PODNEBNI CILJI IN VSEBINE V VZGOJI IN IZOBRAŽEVANJU

Observing different pollinators



Prepoznavanje najbolj pogostih opraševalcev sončnic

Medonosna čebela

Najbolj poznana in pogosta čebelja vrsta. Zapomnimo si, kako izgleda.
Dolge tipalke.
Cvetni prah (če je): na zadnjih nogah v dveh kepicah.

Čmrlji

Večinoma precej večji kot medonosna čebela.
Čokato telo.
Dolge tipalke
Različnih barv (35 vrst).
Cvetni prah (če je): na zadnjih nogah v dveh kepicah.

Čebele samotarke

Večinoma (precej) manjše kot medonosna čebele, nekatere vrste tudi večje ali veliko večje.
Dolge tipalke.
Zelo raznolike (več kot 500 vrst).
Cvetni prah (če je): na zadnjih nogah (kepica drugačne oblike kot pri m. čebeli), na spodnji strani zadka ali na spodnji strani oprsja.

Muhe trepetavke

Večinoma manjše kot medonosna čebela.
Kratke tipalke.
Velike oči.
Pogosto črno-rumene barve (posnemajo ose).

Ose

Dolge tipalke.
Ozek prehod med oprsjem in zadkom.
Malo dlačic.
Pogosto črno-rumene barve.

Metulji

Lahko prepoznavni.
Med metulje spada tudi veleriilec (slika desno).

Hrošči

Pripravil: Danilo Bevk, Nacionalni inštitut za biologijo

PODNEBNI CILJI IN VSEBINE V VZGOJI IN IZOBRAŽEVANJU

Community

PODNEBNI CILJI IN VSEBINE V VZGOJI IN IZOBRAŽEVANJU

Study circles and Citizen Science

Table 2. Summary of volunteer motivations

Function	Conceptual example in environmental CS	
Values	The wish to contribute to science or society (i.e. civic responsibility) while helping the environment	(Bruy Monta
Personal development	Learning opportunities (about the scientific subject area and data collecting and analyzing techniques, environmental awareness, familiar places)	(Bruy Hunt
Career and recognition	To gain relevant experience related to their career interests and to gain recognition and other personal benefits for their input	(Grair *et al.*
Social	Social interaction and being part of a community of likeminded individuals	(Bruy 2015;
Recreation	To have fun and to undertake new activities as part of existing recreational activities while commonly being outdoors	(Grair

Take home message:

Try it out, it will benefit everyone ☺

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