

Why is Citizen Science important for libraries?

The experience of the National and University Library in Zagreb

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National and University Library in Zagreb

Benefits for the Citizen Science participants

CITIZEN SCIENTISTS

- ▶▶ participation in science
- ▶▶ scientific literacy
- ▶▶ research skills
- ▶▶ physical movement
- ▶▶ stress relief
- ▶▶ socialization
- ▶▶ enjoyment



PROFESSIONALS

- ▶▶ raising public awareness of science
- ▶▶ expanding the scope of scientific research
- ▶▶ speed of dissemination of science outcomes
- ▶▶ inovative ideas and perspectives
- ▶▶ cost savings
- ▶▶ time savings

Benefits for the libraries

- recognition as partners in various fields of science
 - access to research materials, data management, OA advocacy...
- attracting new library users
- developing partnerships
 - external and internal
- media recognition



- enriching existing library collections and services
- increasing the visibility of library collections and services
- developing new library programs
- personal and professional development of employees
 - project coordination, project management, evaluation, research data management...

Citizen Science in NSK

Bees, life, people

- ▶ goal: creating a thematic collection on the Croatian Web Archive



citizen scientists: highschoolers



field of science: Information Science

Self-help and well-being in online academic environment

- ▶ goal: selection and collection of professional and scientific articles



citizen scientists: students



field of science: Psychology

HAWathon

- ▶ goal: collection of thematic network content in the form of a competition



citizen scientists: highschoolers



field of science: Information Science

Dendroteka

- ▶ goal: identification of tree species and creation of a website

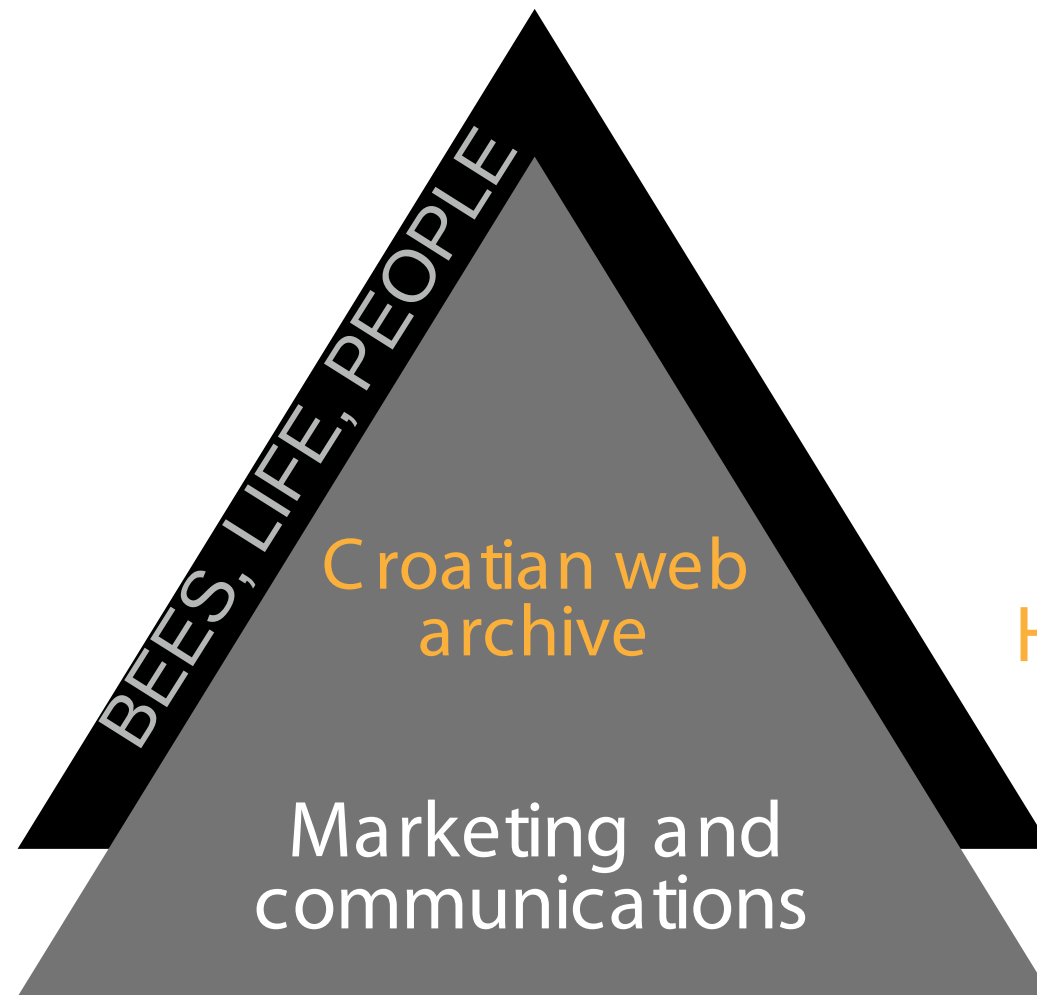


citizen scientists: highschoolers



field of science: Forestry

Developing partnerships

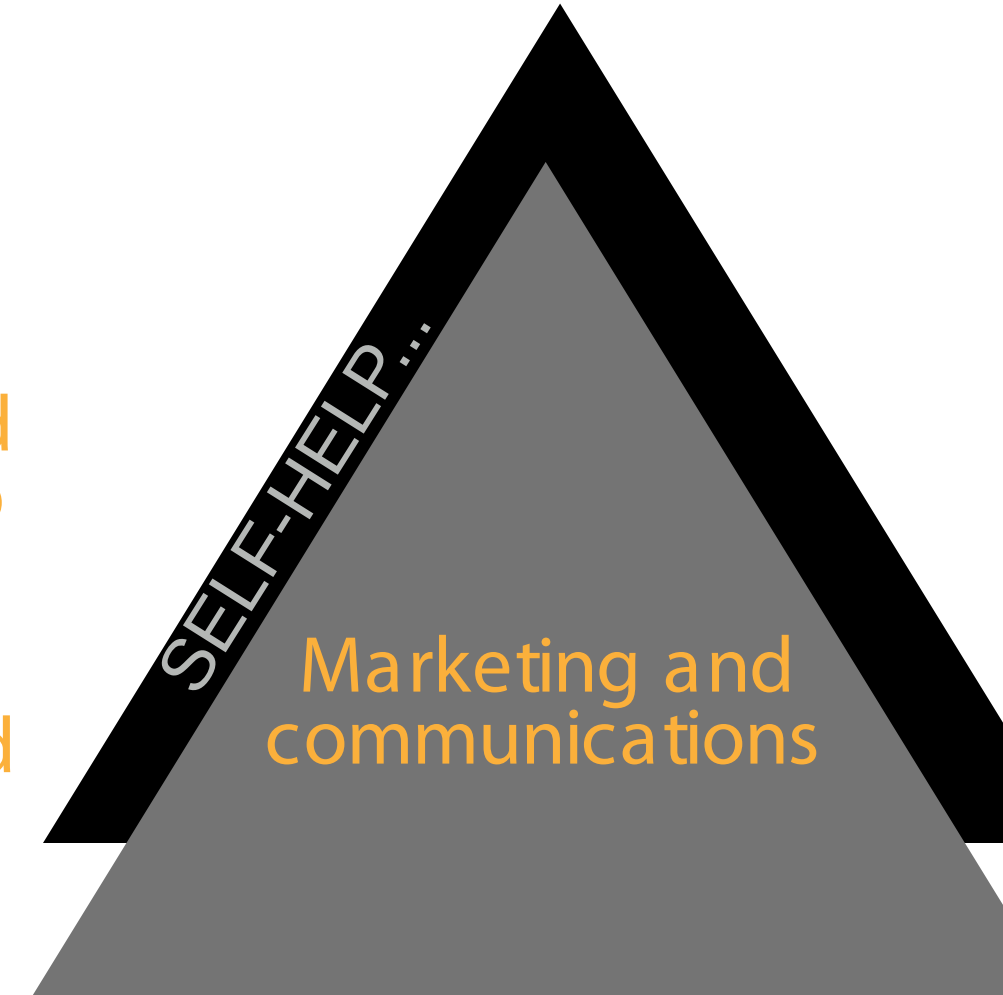


Public library Ivanić Grad

High school "Ivan Švcar" Ivanić Grad

Faculty of Humanities and Social Sciences in Zagreb

Faculty of Humanities and Social Sciences in Rijeka



Public library "Ivan Goran Kovačić" Karlovac

Gymnasium Karlovac

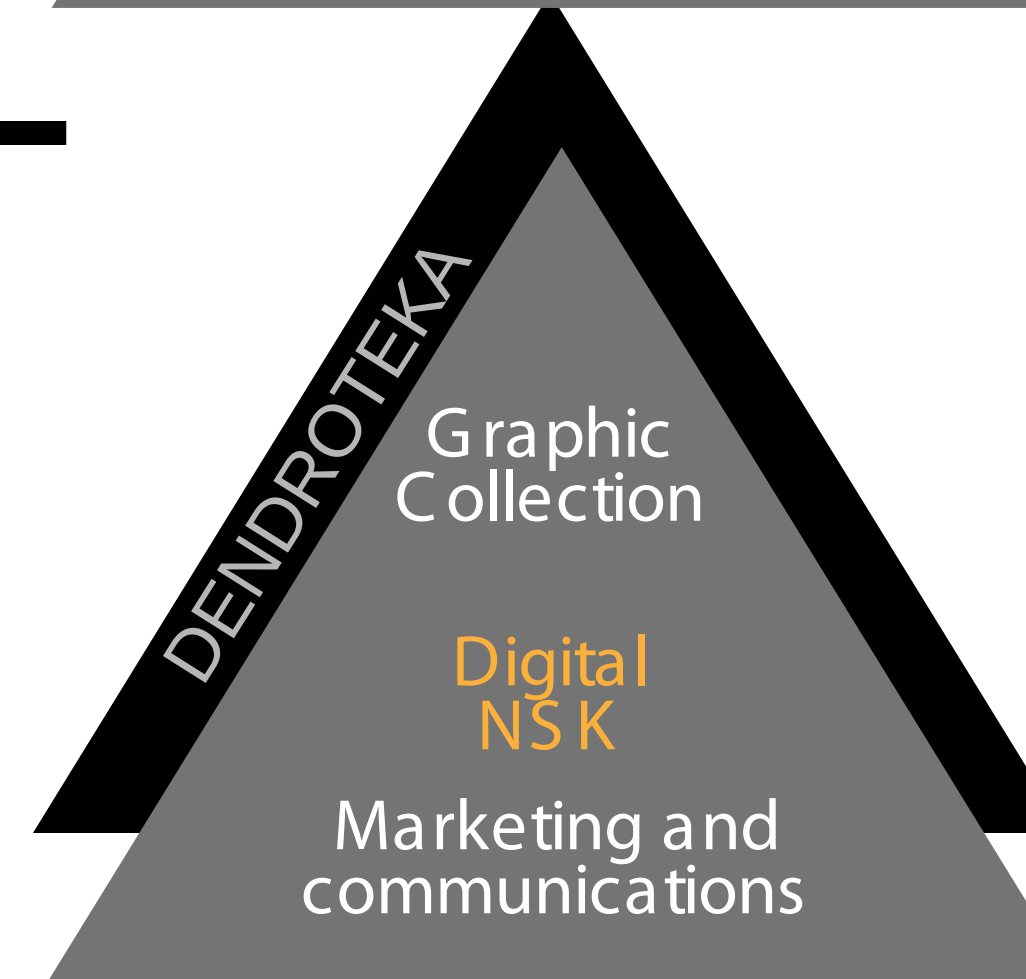
European Commission Representation in Croatia

Europe Direct Karlovac

Faculty of Forestry and Wood Technology

VIII Gymnasium Zagreb

XII Gymnasium Zagreb



Media recognition



Trend tv

Vijesti Sport Kultura Zabava Trend TV Trend radio IMPR

U Gimnaziji Karlovač održano prvo natjecanje u Hrvatskoj u organizaciji HAWakana, učenici oduševljeni organizacijom i provedbom



KAPortal / GDJE I KAD?

10:43 VELIKI PROBLEM U ZGRADI! SUSJED REDOVNO UNEREDUJE STUBIŠTE FEKALIJAMA, STANARI OGORČENI I NE ZNAJU ŠTO ĆE: NEMOĆNI SMO

GRADSKA KNJIŽNICA

U znaku Gorana - na prvi dan proljeća i dan rođenja Ivana Gorana Kovačića dva programa posvećena pjesniku

20.03.2023 - 20:41 KAPortal



Google oglasi



Večernji list

Zagreb 15

Rekonstrukcija prizora s početka 20. stoljeća Blago iz hrvatske Macdonije i sveučilišne knjižnice podiglo se na temelju koje su i muradnji sa stručnjacima Fakulteta šumarstva i drvne tehnologije, učenici iz Gimnazije Titusa Brezovačkog fotografirali lokacije u središtu Zagreba te identificirali nekadašnje i današnje vrste, primjerice na Akademikima, odnosno Strossmayerovu trgu.

Tomislavac su nekoć krasile agave, a na Zrinjevcu se moglo naići i na bananu

Egzotične voćke nisu rasle u centru, već su ih stanovnici iznosili u teglama, a na primjerima biljaka sa starih razglednica u projektu Dendroteka istražuje se koliko se promijenila botanika metropole



IZ OBLASTI KOD KAMENITIH VRATA Ulica iz Radiceva zakrivala je bogata kroleja

Na nekima su mjestima i dalje gorski javor, divlji kestren, obični grab... Kao i prije 100 godina

nađi oni dva dodatka također je bio jedan od kriterija pa su u izbor naše lokacije poput Lemuzijeve, odnosno Zelene pokrove, povjesta nadnosa katedrala te Kamenitih vrata.

Usporedbom starih razglednica i novih fotografija otkrili su se zapravo razlika nekadašnjeg zagrebačkog biljnog svijeta i današnjeg urbanog života i zanimljivo je isto na koncu možemo vidjeti kako se tijekom desetljeća mijenja opstanak grada - ističe Stjepan Posavec, pročelnik za modernizaciju i međunarodnu suradnju Šumarskog fakulteta.

Tako je, primjerice, ulica iz Radiceva do Kamenitih vrata nekada zakrivala bogata kroleja velikih hrasta, a danas je ostale manje drveće poput divljeg kestena i crvenoliste šibice te prinosilica biljaka božikovina. Pomniti su usporednima gimnazijalci primetili i kako u centru više ne raste hrast kao što su na. Gimnazijski grm iz početke 20. stoljeća, ali pak juka, koja je srodna igovi, a danas je karakteristična za područje Severine i Seolije Amerike. Na najvećim lokacijama pomažu velike razlike.

Na poslije trgovina i u pacovima razne vrste koje su ovdje bile i prije 100 godina, primjerice gorski javor, srebrnolista lipa, javor mlječ, divlji kestren i obični grab - kaže Poljak.

Rezultat web-stranica

U blizini nekadašnjeg Driavog, danas Glavnog kolodvora, odnosno na Tomislavcu, bivšeg Trga Franje Josipa, botanika se i nije znatno promijenila. Gledajući sa letvice iz današnje tramvajski pruge prema fontani, javor mlječ, cvjetovi malomije te gorski javor na istom su mjestu, kao i zimski stablo zabijeno 1906. na nekadašnjem Akademikima, danas Strossmayerovu trgu.

Zanimljivo me ta raznolikost u prostoru i u vremenu, a i praktični dio potraga mi je da shvatim ekološku bilnu, odnosno način prepoznavanja biljaka - kaže Roko Kramčević, učenik trećeg razreda Gimnazije Titusa Brezovačkog.

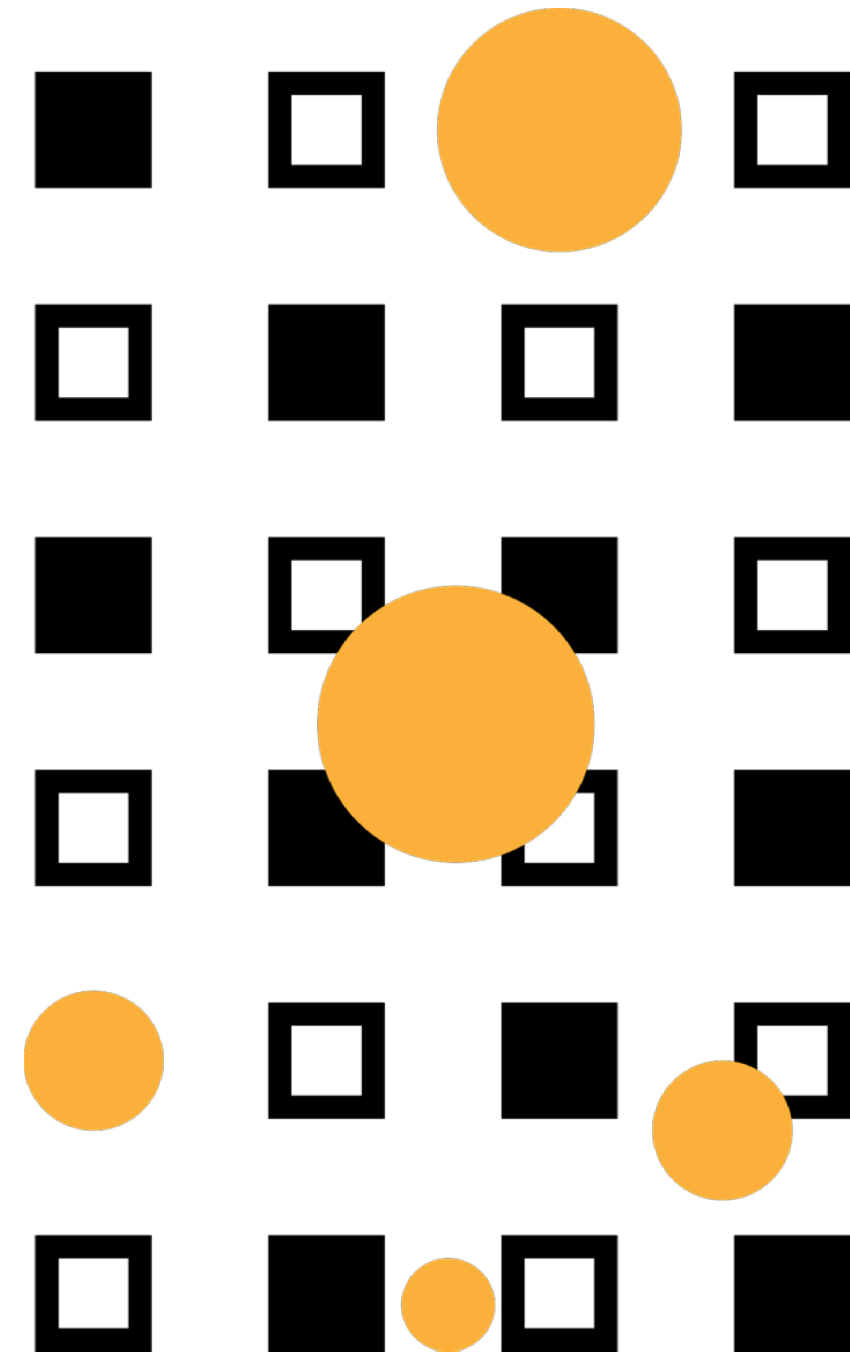
Krajnji rezultat projekta Dendroteka bit će interaktivna internetska stranica gdje će se iz starih razglednica iz fonda NSK te rekonstruirane fotografije uslatiti dodatne informacije o biljkama, kao i karta Zagreba s uistatim lokacijama.

Enriching existing library collections and services



Personal and professional development

- project coordination and project management
- research data management
- developing knowledge about Citizen Science and about collecting data for Croatian web archive
- fostering skills in graphic design and web design
- writing competition regulations
- improving social skills and communication
- project evaluation



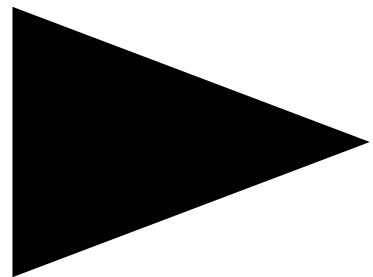
Suggestions for evaluation of benefits



- recognition as partners in various fields of science
- attracting new library users
- increasing the visibility of library collections and services

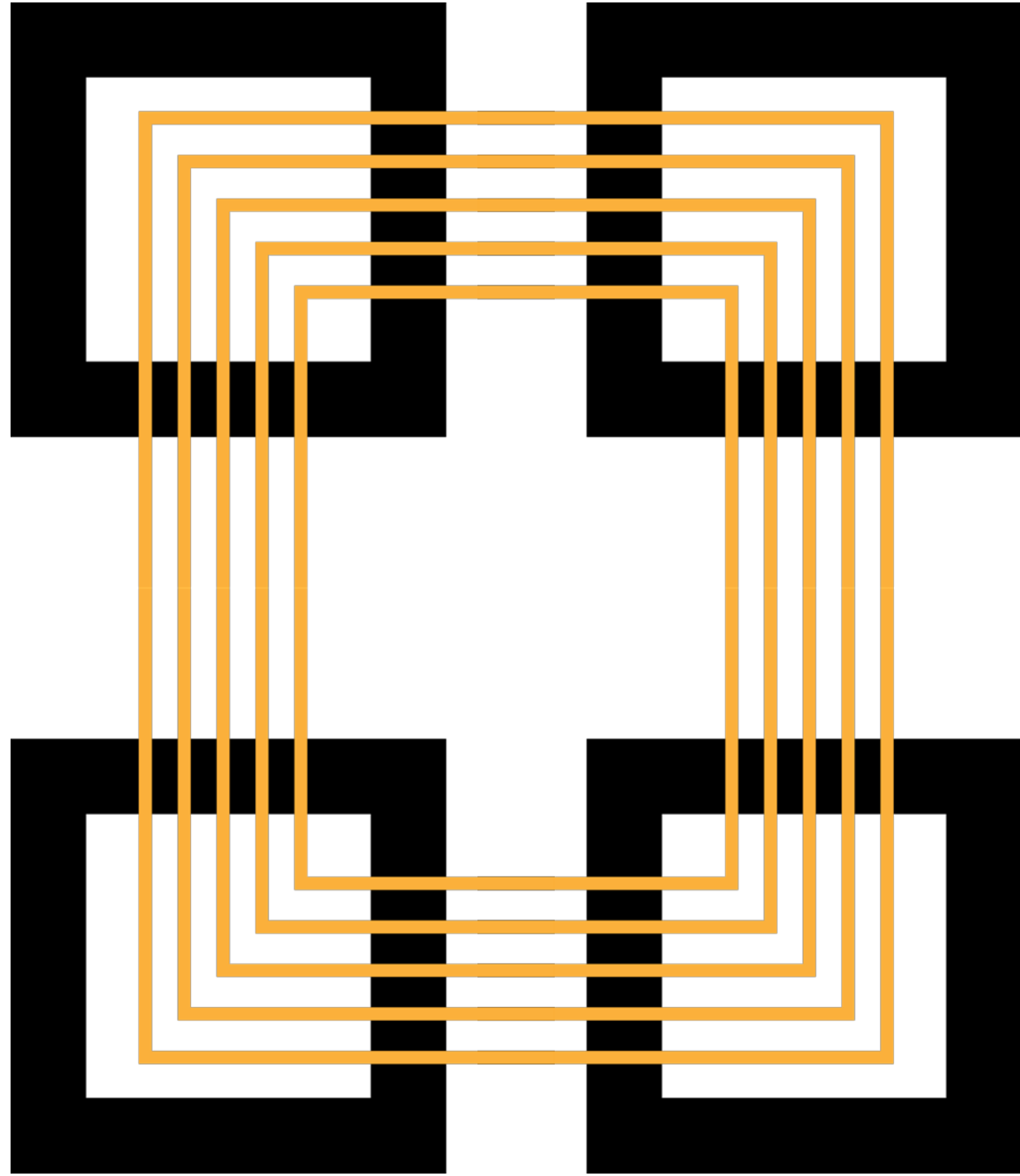


ORGANIZERS



- developing partnerships
- media recognition
- enriching existing library collection and services
- developing new library programs
- personal and professional development

Conclusion



- Citizen Science can be beneficial for citizen scientists, scientists, and its organizers
- Citizen Science can contribute to the benefits of libraries
- by organizing Citizen Science activities and projects, libraries become recognized partners in science
- based on the analysis of organized Citizen Science activities, the NSK has visible benefits
- we recommend to track the benefits through the evaluation of citizen scientists, scientists, and the organizational team



THANK YOU FOR YOUR ATTENTION!

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PUBMET2023: The 10th Conference on Scholarly Communication in the Context of Open Science

13-15 September 2023

University of Zadar, Croatia