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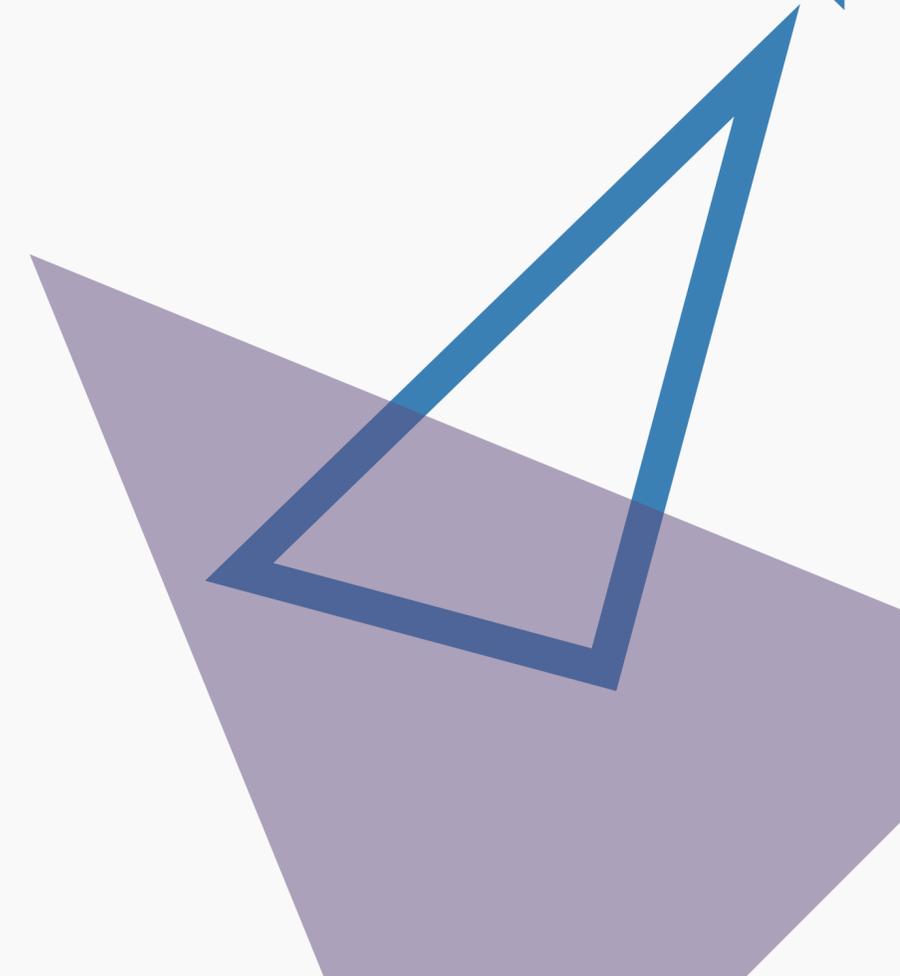


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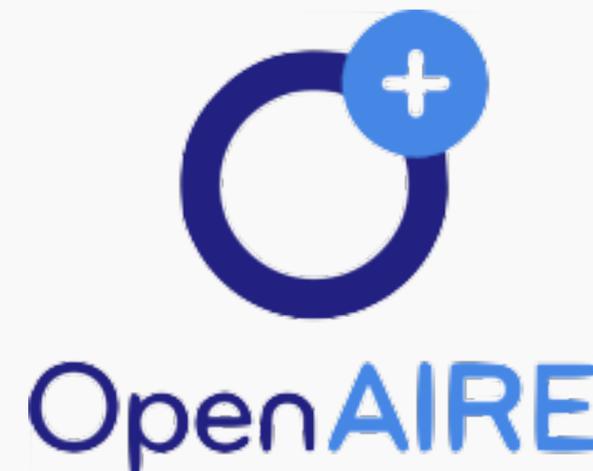
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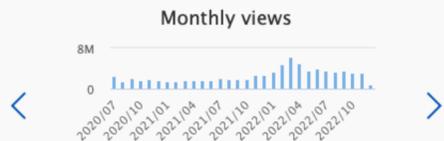
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Karakteristike nastavnika i stereotipi o mlađim adolescentima
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 Psychological theories, which label adolescence as a pronounced problematic and critical period influenced by biological maturation, resulted in a stereotype, equally accepted among teachers and

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Karakteristike nastavnika i stereotipi o mlađim adolescentima
 Nikoleta Gutvajn, Ivana Đerić, Rajka Đević · 1 January 2012
 Pedagoško društvo Srbije, Beograd i Univerzitet u Beogradu - Filozofski fakultet - Institut za pedagogiju i andragogiju, Beograd
Abstract
 Psychological theories, which label adolescence as a pronounced problematic and critical period influenced by biological maturation, resulted in a stereotype, equally accepted among teachers and lay persons, which views adolescence as a period of 'tumult and stress'. Numerous research results confirm the importance of stereotypical convictions for teacher - student relations, social behaviour and educational outcomes. The aim of our research was to determine whether particular features of the teacher (gender, the length of work experience, the teaching subject) have any impact on the teachers' stereotypes about younger adolescents. The sample included 193 teachers who teach the seventh-graders in ten elementary schools in Belgrade. The results show that, among the respondents, there are no gender differences regarding stereotypes about adolescence. The teachers with longer work experience with younger adolescents have less pronounced stereotypes about the adolescent period, i.e. experience may be the factor which modifies stereotypes. The teachers of social sciences have more pronounced stereotypes about younger adolescents than the teachers of natural sciences. Psihološke teorije koje o adolescentnom periodu govore kao o izrazito problematičnom i kriznom periodu uslovljenom biološkim promenama doprinele su da među nastavnicima i laicima dugo egzistira viđenje adolescencije kao perioda 'bure i stresa'. O značaju stereotipnih uverenja nastavnika za odnos nastavnika i učenika i njihovom uticaju na socijalno ponašanje i obrazovne ishode svedoči veliki broj istraživanja. Cilj našeg istraživanja bio je da se utvrdi da li određene karakteristike nastavnika (pol, radni staž i nastavni predmet koji nastavnici predaju) utiču na njihove stereotipe o mlađim adolescentima. U istraživanju su učestvovala 193 nastavnika koji predaju sedmom razredu u deset beogradskih osnovnih škola. Nalazi istraživanja pokazuju da nisu utvrđene polne razlike u pogledu stereotipa nastavnika o mlađim adolescentima. Nastavnici koji imaju više radnog iskustva s mlađim adolescentima imaju manje izražene stereotipe o adolescentnom dobu, odnosno iskustvo je faktor koji može da modifikuje stereotipe. Nastavnici koji predaju društvene nauke imaju više izražene stereotipe o mlađim adolescentima u odnosu na nastavnike koji predaju prirodne nauke.

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Karakteristike nastavnika i stereotipi o mlađim adolescentima
 Nikoleta Gutvajn, Ivana Đerić, Rajka Đević · 1 January 2012
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Оригинални научни рад
 НВ. LXI 1. 2012.
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КАРАКТЕРИСТИКЕ НАСТАВНИКА И СТЕРЕОТИПИ О МЛАЂИМ АДОЛЕСЦЕНТИМА

Психолошке теорије које о adolescentном периоду говоре као о изразито проблематичном и кризном периоду условљеном биолошким променама допринеле су да међу наставницима и лаицима дуго егзистира виђење ције као периода „буре и стреса“. О значају стереотипних уверења ка за однос наставника и ученика и њиховом утицају на социјално понашање не исходе сведочи велики број истраживања. Циљ нашег истраживања је утврди да ли одређене карактеристике наставника (пол, радни стаж и предмет који наставници предају) утичу на њихове стереотипе о млађим тима. У истраживању су учествовала 193 наставника који предају седмом десет београдских основних школа. Налази истраживања показују да нису полне разлике у погледу стереотипа наставника о млађим adolescentима. Настavnici koji imaju više radnog iskustva s mlađim adolescentima imaju manje izražene stereotipe o adolescentnom dobu, odnosno iskustvo je faktor koji može da modifikuje stereotipe. Nastavnici koji predaju društvene nauke imaju više izražene stereotipe o mlađim adolescentima u odnosu na nastavnike koji predaju prirodne nauke.

TEACHER CHARACTERISTICS AND STEREOTYPES ABOUT YOUNGER ADOLESCENTS

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Keywords: stereotypes, gender, work experience, teaching subject, teachers, adolescents, elementary school.

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Психолошке теорије које о adolescentном периоду говоре као о изразито проблематичном и кризном периоду условљеном биолошким променама допринеле су да међу наставницима и лаицима дуго егзистира виђење ције као периода „буре и стреса“. О значају стереотипних уверења ка за однос наставника и ученика и њиховом утицају на социјално понашање не исходе сведочи велики број истраживања. Циљ нашег истраживања је утврди да ли одређене карактеристике наставника (пол, радни стаж и предмет који наставници предају) утичу на њихове стереотипе о млађим тима. У истраживању су учествовала 193 наставника који предају седмом десет београдских основних школа. Налази истраживања показују да нису полне разлике у погледу стереотипа наставника о млађим adolescentима. Настavnici koji imaju više radnog iskustva s mlađim adolescentima imaju manje izražene stereotipe o adolescentnom dobu, odnosno iskustvo je faktor koji može da modifikuje stereotipe. Nastavnici koji predaju društvene nauke imaju više izražene stereotipe o mlađim adolescentima u odnosu na nastavnike koji predaju prirodne nauke.

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Author: Ducić, Vladan [[claim](#)] ; Đurđić, Snežana [[claim](#)]

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Publisher: Srpsko geografsko društvo, Beograd

Year of Publication: 2005

Source: Glasnik Srpskog geografskog društva

Document Type: article ; publishedVersion ; [Article contribution]

Subjects: anthropogenic chlorine ; natural forcing ; ozone layer ; ozone layer dynamics ; Montreal Protocol ; antropogeni hlor ; pr omotača ; Montrealski protokol

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Influence of MN doping on the evolution of microstructure and optical properties of mechanically activated SrTiO₃ powders

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dc.description.abstract Manganese doped SrTiO₃ powders with various manganese dioxide weight percentages in the range of 1.5, 3 and 6 wp% were prepared by a solid-state method in the presence of mechanical activation (10, 30 and 120 minutes). A systematic investigation by X-ray diffraction (XRD), scanning electron microscopy (SEM), particle size analysis (PSA), Brunauer-Emmett-Teller (BET) methods and Raman spectroscopy has been undertaken to evaluate the role of dopants on the microstructural and morphological study of the perovskite oxide obtained. The optical properties of the different manganese doped and activated SrTiO₃ powders have been also evaluated. Mn insertion in SrTiO₃ is discussed considering the possibility for Mn ions to occupy both Ti⁴⁺ and Sr²⁺ sites as well as manganese segregation and Mn incorporation-related non-homogeneities. The results demonstrated that Mn has substituted into the lattice and surface layers of the particles of SrTiO₃ powders and the absorption onset shifted to higher values of wavelengths with increasing time of activation and dopant concentration. The lowest value of the band gap (E_g=3.10 eV) was registered with the longest activation for 120 minutes and the highest concentration of dopant (6 wp%). Combining doping with mechanical activation lower values of band gap can be achieved and that fact could be used in subsequent studies to make Mn-SrTiO₃ more suitable visible-light photocatalysts.

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EURRECA—Evidence-Based Methodology for Deriving Micronutrient Recommendations

Rosalie A. M. Dhonukshe-Rutten, Jildau Bouwman, Kerry A. Brown, Adriënne E. J. M. Cavelaars, Rachel Collings, Evangelia Grammatikaki, ...show all

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Abstract

The EURopean micronutrient RECommendations Aligned (EURRECA) Network of Excellence explored the process of setting micronutrient recommendations to address the variance in recommendations across Europe. Work centered upon the transparent assessment of nutritional requirements via a series of systematic literature reviews and meta-analyses. In addition, the necessity of assessing nutritional requirements and the policy context of setting micronutrient recommendations was investigated.

Findings have been presented in a framework that covers nine activities clustered into four stages: stage one “Defining the problem” describes Activities 1 and 2: “Identifying the nutrition-related health problem” and “Defining the process”; stage two “Monitoring and evaluating” describes Activities 3 and 7: “Establishing appropriate methods,” and “Nutrient intake and status of population groups”; stage three “Deriving dietary reference values” describes Activities 4, 5, and 6: “Collating sources of evidence,” “Appraisal of the evidence,” and “Integrating the evidence”; stage four “Using dietary reference values in policy making” describes Activities 8 and 9: “Identifying policy options,” and “Evaluating policy implementation.” These activities provide guidance on how to resolve various issues when deriving micronutrient requirements and address the methodological and policy decisions, which may explain the current variation in recommendations across Europe.

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EURRECA – Evidence-based methodology for deriving micronutrient recommendations

Rosalie Dhonukshe-Rutten¹, Jildau Bouwman⁷, Kerry A Brown², Adriënne E Cavelaars¹, Rachel Collings³, Evangelia Grammatikaki⁴, Lisette CPGM de Groot¹, Mirjana Gurinovic⁵, Linda J Harvey³, Maria Hermoso⁶, Rachel Hurst³, Bas Kremer⁷, Joy Ngo⁸, Romana Novakovic⁵, Monique M Raats², Fanny Rollin⁴, Lluís Serra-Majem⁸, Olga W Souverein¹, Lada Timotijevic², Pieter van 't Veer¹

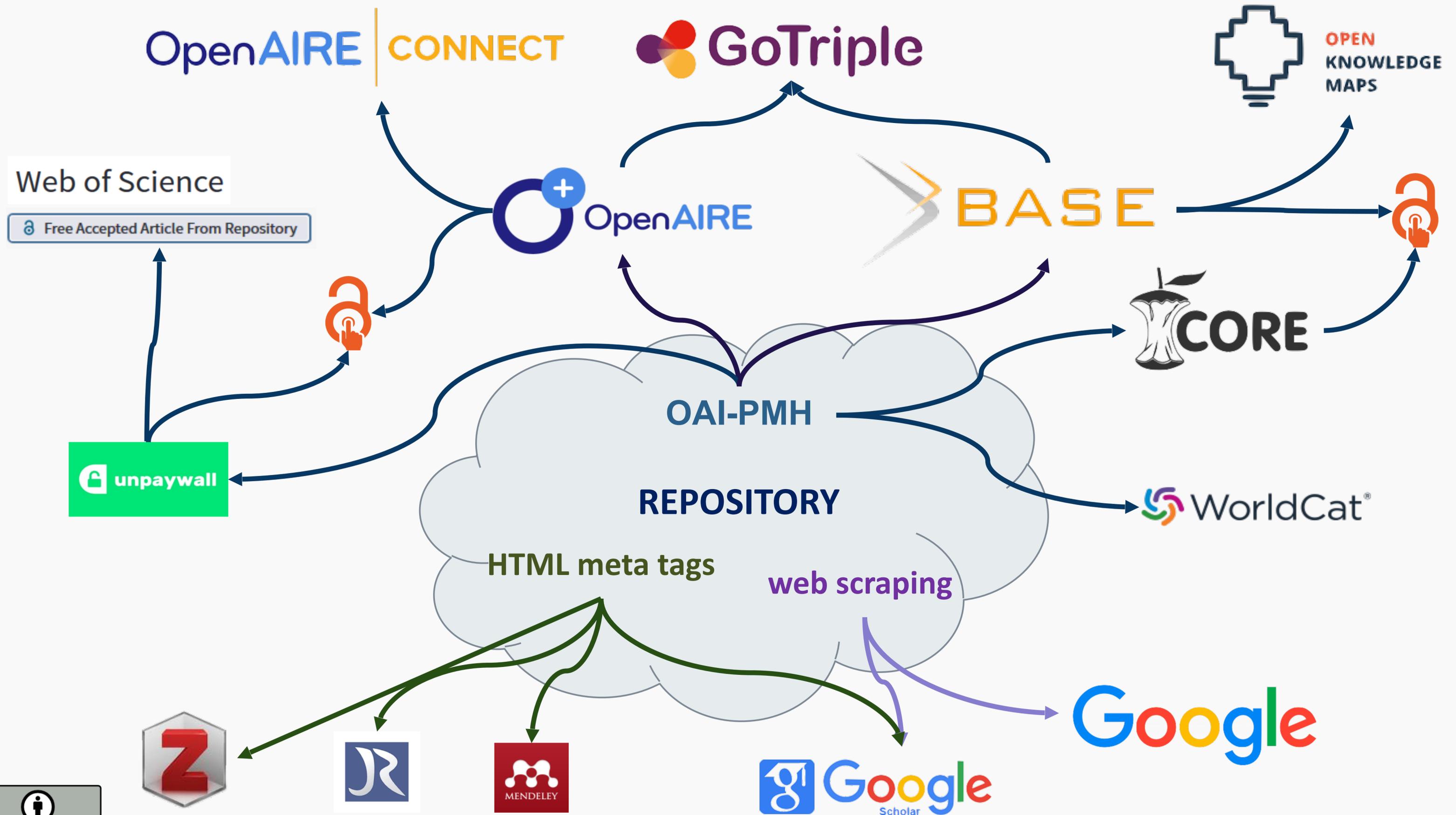
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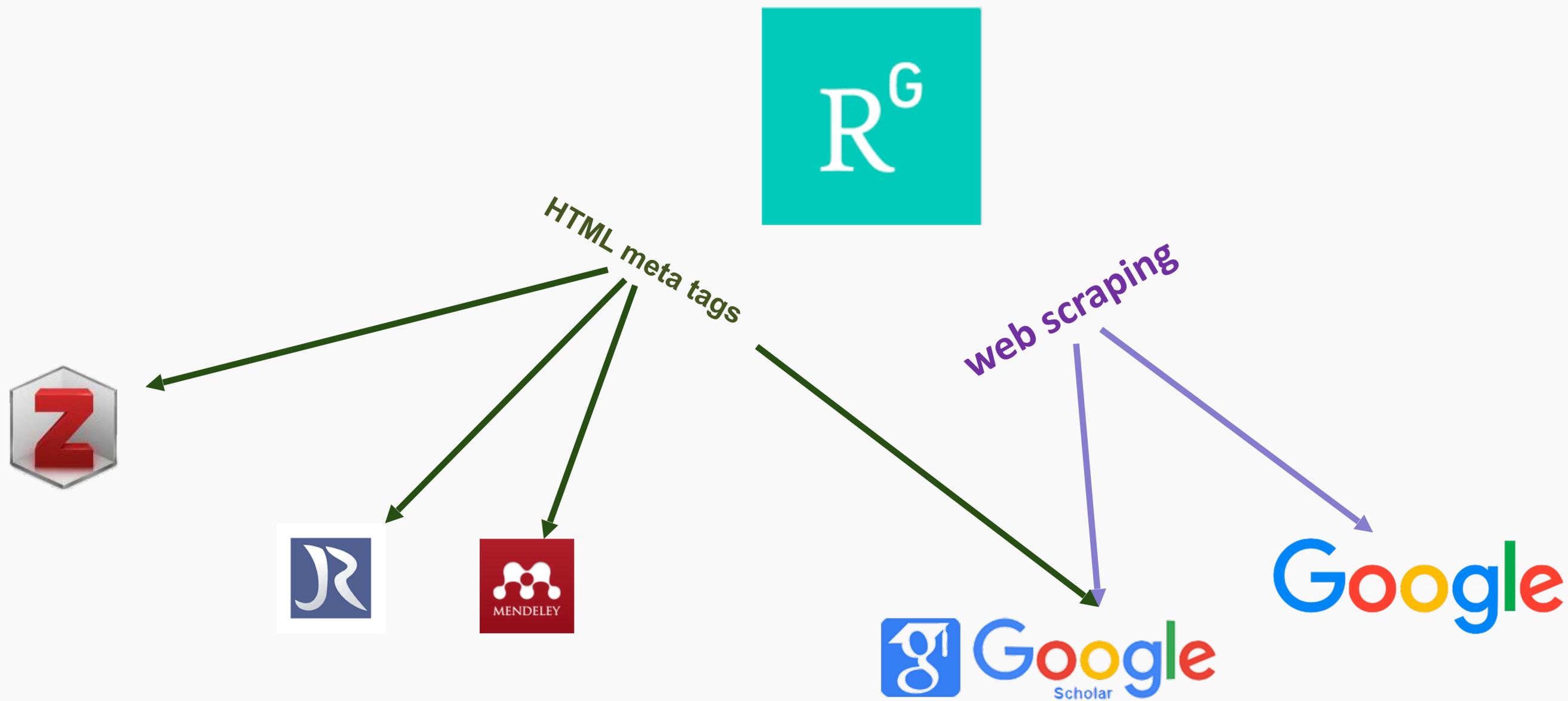
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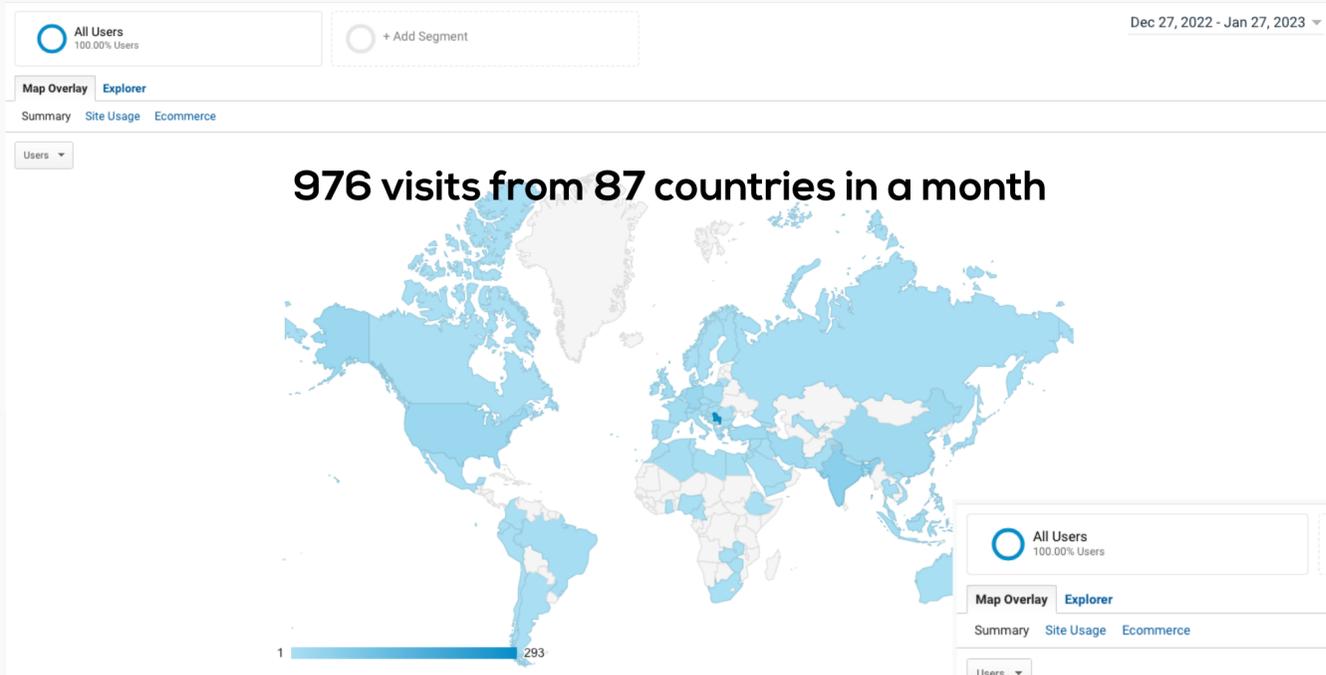
EURRECA – Evidence-based methodology for deriving micronutrient recommendations

Rosalie Dhonukshe-Rutten¹, Jildau Bouwman⁷, Kerry A Brown², Adriënne E Cavelaars¹, Rachel Collings³, Evangelia Grammatikaki⁴, Lisette CPGM de Groot¹, Mirjana Gurinovic⁵, Linda J Harvey³, Maria Hermoso⁶, Rachel Hurst³, Bas Kremer⁷, Joy Ngo⁸, Romana Novakovic⁵, Monique M Raats², Fanny Rollin⁴, Lluís Serra-Majem⁸, Olga W Souverein¹, Lada Timotijevic²





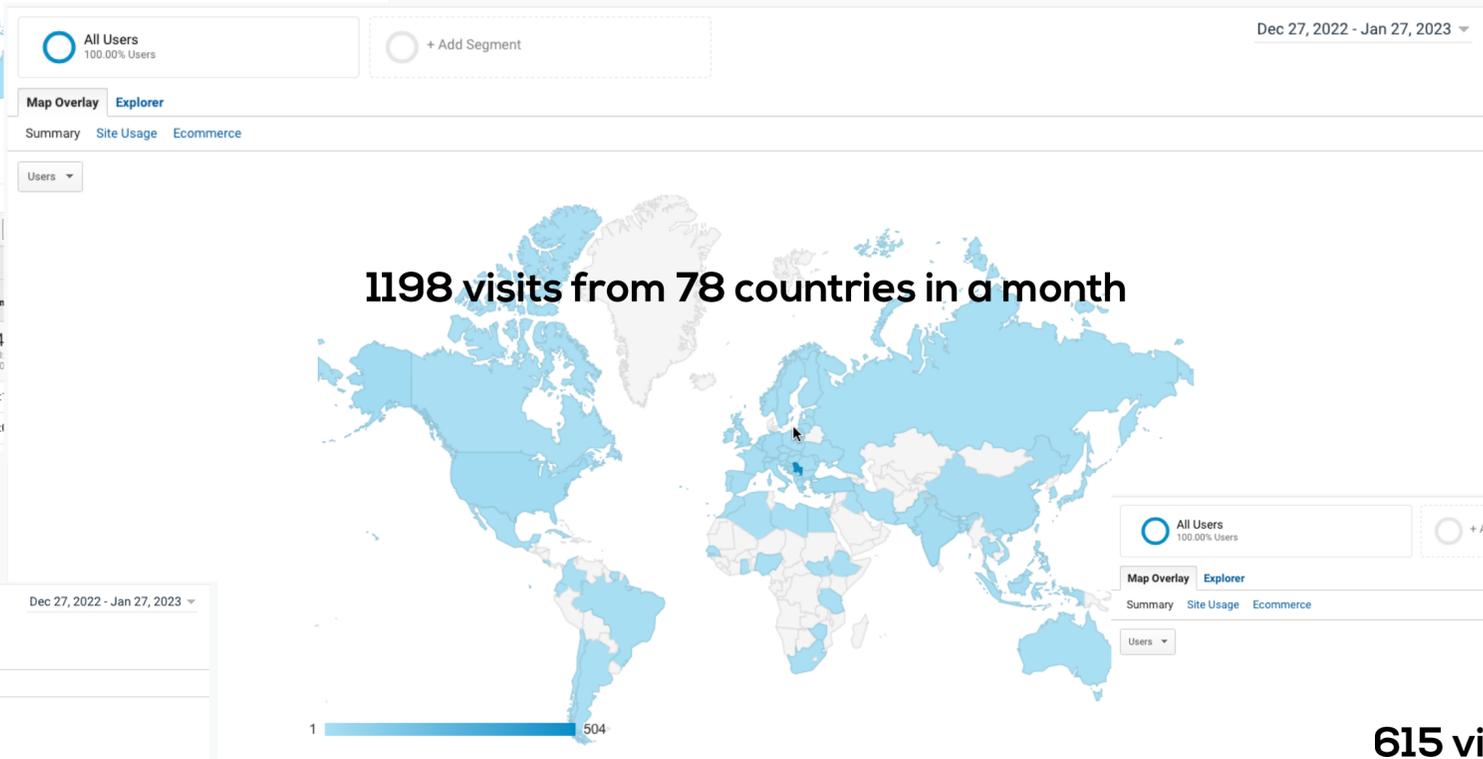
As a result



Primary Dimension: Country City Continent Sub Continent

Secondary dimension

Country	Acquisition			Behavior		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration
	976 % of Total: 100.00% (976)	907 % of Total: 100.22% (905)	1,161 % of Total: 100.00% (1,161)	80.19% Avg for View: 80.19% (0.00%)	9.75 Avg for View: 9.75 (0.00%)	00:04 Avg for View: 00:04 (0.00%)
1. Serbia	293 (29.99%)	240 (26.46%)	432 (37.21%)	61.11%	24.27	00:04
2. (not set)	220 (22.52%)	220 (24.26%)	220 (18.95%)	100.00%	1.00	00:04



Primary Dimension: Country City Continent Sub Continent

Secondary dimension

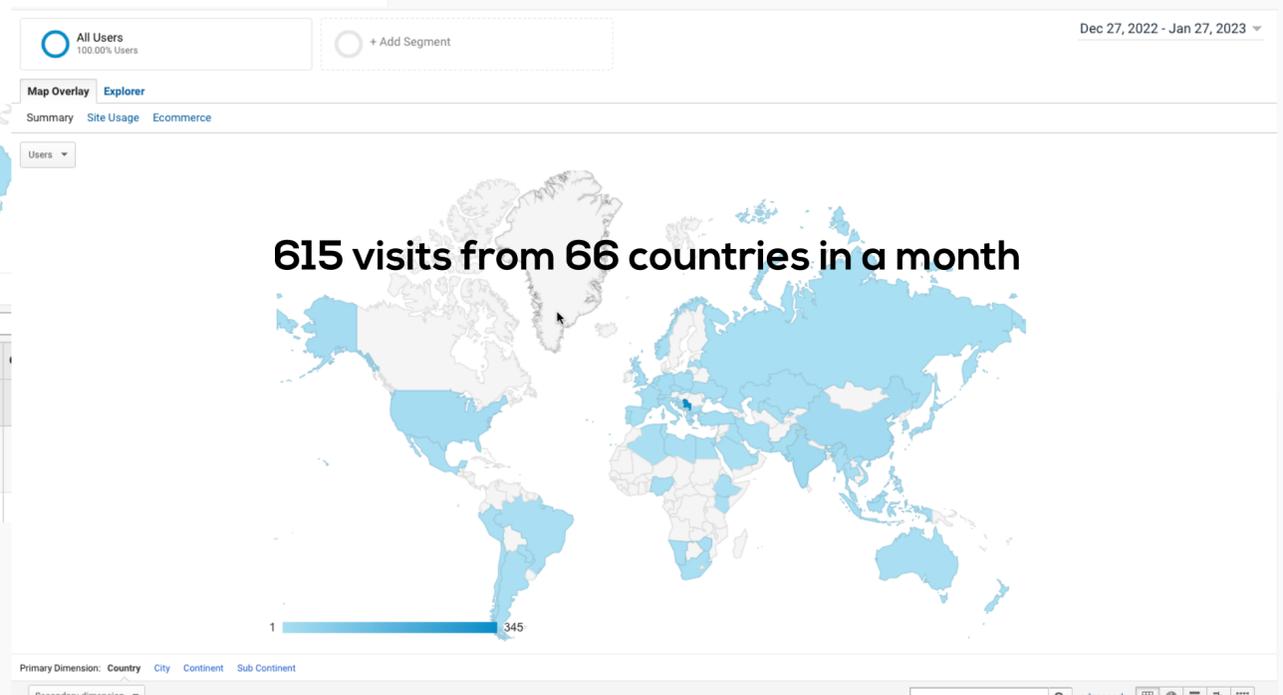
Country	Acquisition			Behavior		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration
	1,198 % of Total: 100.00% (1,198)	1,103 % of Total: 100.00% (1,103)	1,406 % of Total: 100.00% (1,406)	80.44% Avg for View: 80.44% (0.00%)	2.99 Avg for View: 2.99 (0.00%)	00:01:41 Avg for View: 00:01:41 (0.00%)
	504 (42.04%)	426 (38.62%)	653 (46.44%)	68.45%	5.10	00:03:01



Primary Dimension: Country City Continent Sub Continent

Secondary dimension

Country	Acquisition			Behavior			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	623 % of Total: 100.00% (623)	559 % of Total: 100.18% (558)	829 % of Total: 100.00% (829)	75.15% Avg for View: 75.15% (0.00%)	3.34 Avg for View: 3.34 (0.00%)	00:02:09 Avg for View: 00:02:09 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	\$0.00 % of Total: 0.00% (\$0.00)
1. Serbia	406 (65.06%)	352 (62.97%)	558 (67.31%)	71.68%	4.25	00:02:50	0.00%	0 (0.00%)	\$0.00 (0.00%)



Primary Dimension: Country City Continent Sub Continent

Secondary dimension

Country	Acquisition			Behavior			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	615 % of Total: 100.00% (615)	578 % of Total: 100.17% (577)	1,058 % of Total: 100.00% (1,058)	49.53% Avg for View: 49.53% (0.00%)	16.50 Avg for View: 16.50 (0.00%)	00:09:20 Avg for View: 00:09:20 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	€0.00 % of Total: 0.00% (€0.00)
1. Serbia	345 (56.01%)	312 (53.98%)	760 (71.83%)	35.39%	22.37	00:12:42	0.00%	0 (0.00%)	€0.00 (0.00%)
2. India	23 (3.73%)	23 (3.98%)	24 (2.27%)	87.50%	1.12	00:00:49	0.00%	0 (0.00%)	€0.00 (0.00%)

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Peak Detector and/or Envelope Detector — A Detailed Analysis —

Pejovic, Predrag

In this document, a simple circuit constructed using a diode, a resistor, and a capacitor, utilized as a peak detector and/or as an envelope detector is analyzed. The analysis is approached by applying approximate methods and by a mix of exact and numerical methods, aiming design guidelines and understanding of the circuit operation. Approximate and exact approaches are compared, and a region where the approximate analysis provides adequate answers is identified. Ability of the circuit to track the envelope variations is analyzed, and it is shown to depend both on the circuit time constant and the output voltage value, i.e. the modulation signal frequency and the modulation index. Relevant relations are derived and presented. Finally, distortion of the output voltage caused by the output voltage ripple is addressed, and averaged model of the circuit is derived. It is shown that average of the output voltage over the carrier period is increased about three times when filtering of the output voltage is applied. Transfer function for averaged waveforms of the envelope detector is derived, containing slight attenuation and a real pole at the double of the carrier frequency.

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Determination of Particle Size Distributions by Laser Diffraction



The paper deals with the main principles of determination of particle size distribution using Mastersizer 2000, Malvern Instruments Ltd., UK. On the example of several problems we have demonstrated that the method is not a routine one and that the measurement procedure is not limited to entering a sample into the dispersion unit and pressing the button. Furthermore, we have shown that the sample preparation method and, therefore, the accuracy of results conclusively depend on physical and chemical properties of the analyzed materials.

Кључне речи:

Malvern Instruments / Mastersizer 2000 / laser diffraction and scattering / particle size distribution

Извор:

Technics – New Materials (Special Edition), 2012, 67, 11-20

Издавач:

- Beograd : Savez inženjera i tehničara Srbije

Финансирање / пројекти:

- Молекуларно дизајнирање наночестица контролисаних морфолошких и физичко-хемијских карактеристика и функционалних материјала на њиховој основи (RS-45004)

ISSN: 0354-2300

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Smilja Markovic

Determination of particle size distributions by laser diffraction

Authors Zoran S Stojanović, Smilja Marković, Dragan Uskoković

Publication date 2012

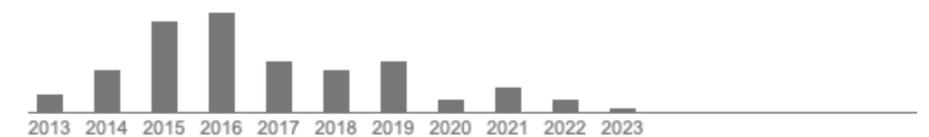
Journal Technics–New Materials (Special Edition)

Pages 11-20

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