



DATA SWEEP

GHID DE UTILIZARE A PLATFORMEI

Accesul tău la 250 Milioane
de Materiale Științifice
& 3,1 Milioane de Indicatori

Cercetare mai rapidă. Rezultate mai bune. La un click distanță.

datasweep.app



Modul 1 - Materiale Științifice

Video scurt: [click aici](#).

Caută în peste 250 de milioane de articole, proceedings, preprints și cărți. Primești un rezumat generat de AI, citări, referințe și acces la textul integral (Open Access).

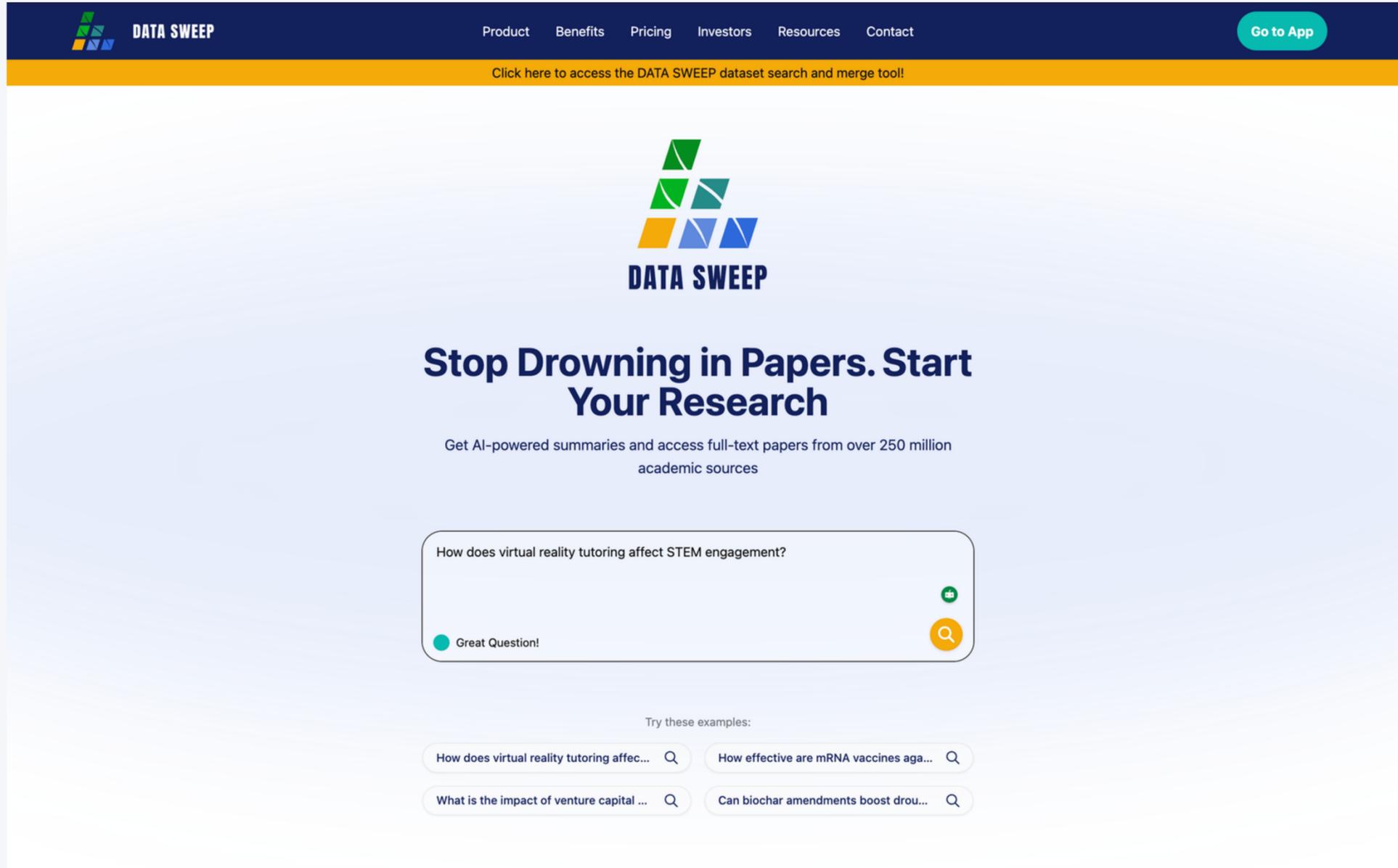
✓ ACCES GRATUIT

Modul 2 - Indicatori Cantitativi

Video scurt: [click aici](#).

Caută în peste 3,1 milioane de indicatori din Eurostat, Banca Mondială, BCE și FRED. Selectează indicatorii dorite și descarcă un singur fișier Excel gata de analiză.

✓ ACCES GRATUIT



The screenshot shows the Data Sweep website homepage. At the top, there is a dark blue navigation bar with the Data Sweep logo on the left and links for Product, Benefits, Pricing, Investors, Resources, and Contact on the right. A teal button labeled "Go to App" is also present. Below the navigation bar, a yellow banner contains the text "Click here to access the DATA SWEEP dataset search and merge tool!". The main content area features the Data Sweep logo and the headline "Stop Drowning in Papers. Start Your Research". Below the headline, it says "Get AI-powered summaries and access full-text papers from over 250 million academic sources". A search bar contains the text "How does virtual reality tutoring affect STEM engagement?". Below the search bar, there is a "Great Question!" label and a search icon. Underneath, there are four example search queries in rounded rectangular buttons: "How does virtual reality tutoring affec...", "How effective are mRNA vaccines aga...", "What is the impact of venture capital ...", and "Can biochar amendments boost drou...".

1

Accesați

datasweep.app/chat în browser dacă aveți cont deja făcut.

2

Realizare cont

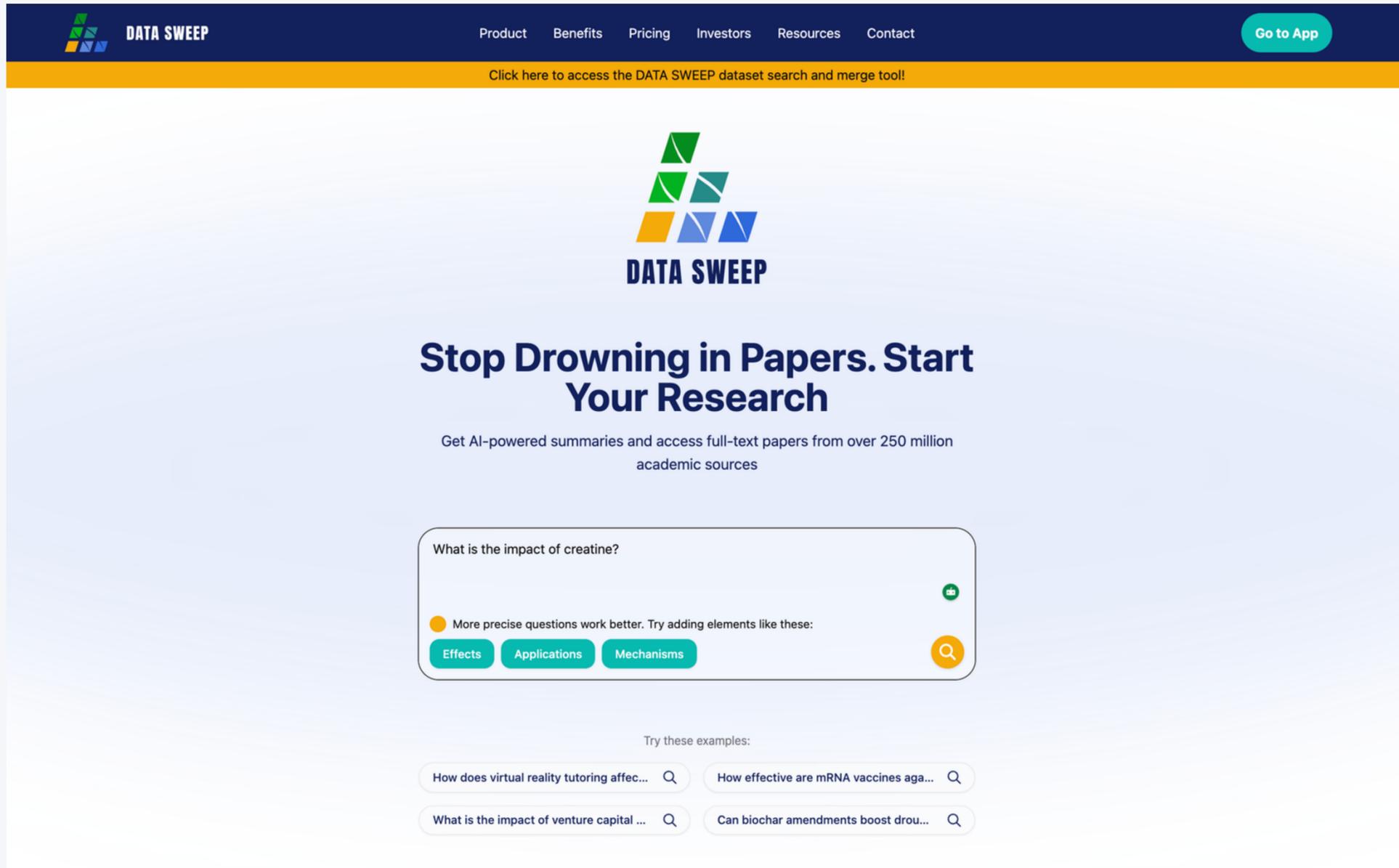
Folosiți adresa de e-mail aferentă contului E-nformation.

3

Login

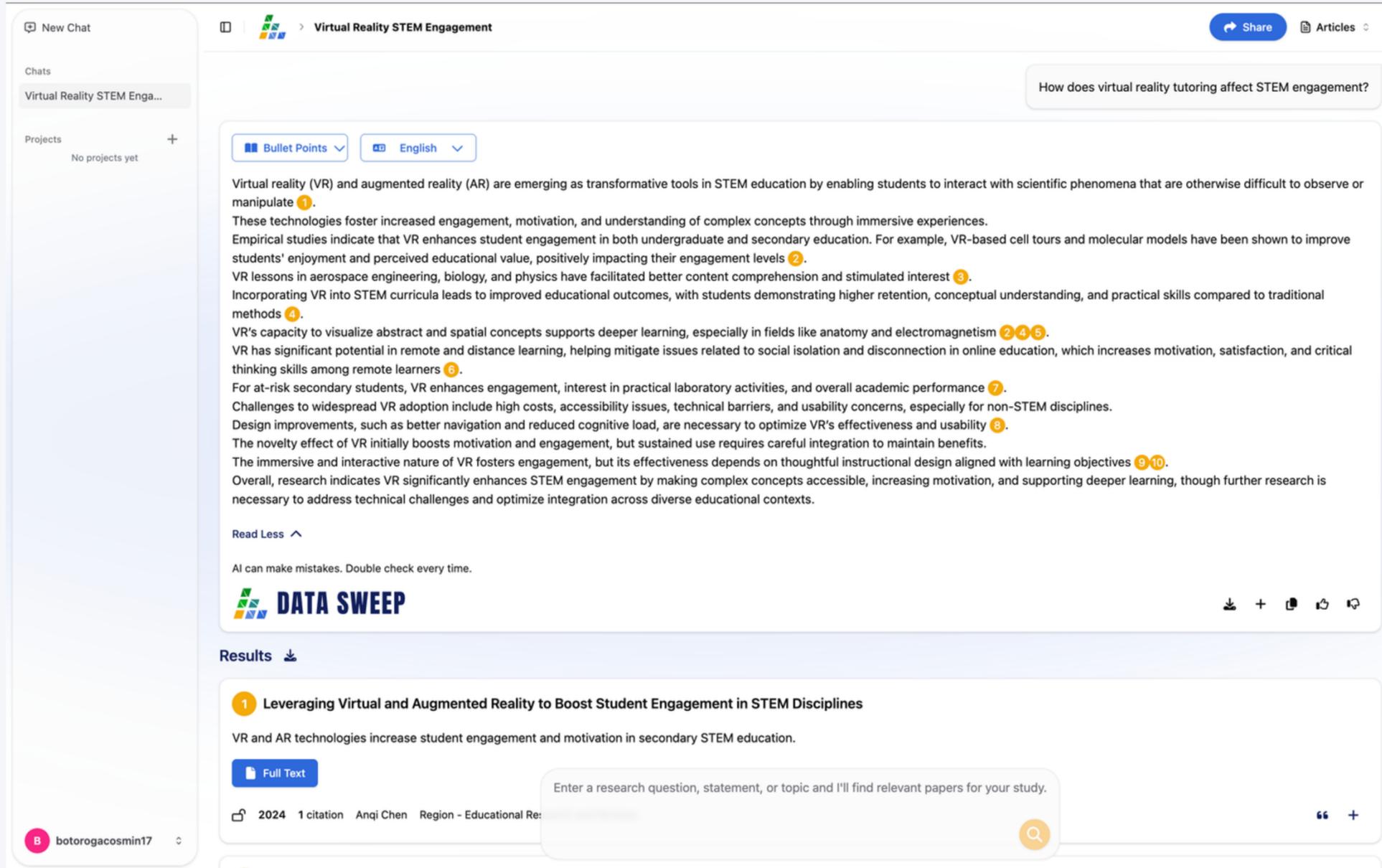
După ce ajungeți pe platforma DATA SWEEP prin E-nformation, vi se va cere să creați un cont local.

 **Platforma este gratuită pentru utilizatorii instituțiilor care au achiziționat DATA SWEEP.**



The screenshot shows the Data Sweep website interface. At the top, there is a dark blue navigation bar with the Data Sweep logo on the left, menu items (Product, Benefits, Pricing, Investors, Resources, Contact) in the center, and a 'Go to App' button on the right. Below the navigation bar is a yellow banner with the text 'Click here to access the DATA SWEEP dataset search and merge tool!'. The main content area features the Data Sweep logo and the headline 'Stop Drowning in Papers. Start Your Research'. Below the headline is a sub-headline: 'Get AI-powered summaries and access full-text papers from over 250 million academic sources'. A search input field contains the text 'What is the impact of creatine?'. Below the input field, there is a tip: 'More precise questions work better. Try adding elements like these:' followed by three buttons: 'Effects', 'Applications', and 'Mechanisms'. At the bottom, there are four example search queries in rounded rectangular boxes: 'How does virtual reality tutoring affec...', 'How effective are mRNA vaccines aga...', 'What is the impact of venture capital ...', and 'Can biochar amendments boost drou...'. Each example query has a magnifying glass icon to its right.

- 1 Introduceți o întrebare de cercetare sau un subiect în câmpul de text
- 2 Puteți scrie în orice limbă, platforma înțelege interogări complexe
- 3 Dacă apar sugestii alternative, alegeți varianta dorită sau apăsați ENTER pentru a continua cu interogarea originală
- 4 Apăsați ENTER sau butonul  cu lupă pentru a iniția căutarea



New Chat

Virtual Reality STEM Engagement

How does virtual reality tutoring affect STEM engagement?

Bullet Points English

Virtual reality (VR) and augmented reality (AR) are emerging as transformative tools in STEM education by enabling students to interact with scientific phenomena that are otherwise difficult to observe or manipulate 1. These technologies foster increased engagement, motivation, and understanding of complex concepts through immersive experiences. Empirical studies indicate that VR enhances student engagement in both undergraduate and secondary education. For example, VR-based cell tours and molecular models have been shown to improve students' enjoyment and perceived educational value, positively impacting their engagement levels 2. VR lessons in aerospace engineering, biology, and physics have facilitated better content comprehension and stimulated interest 3. Incorporating VR into STEM curricula leads to improved educational outcomes, with students demonstrating higher retention, conceptual understanding, and practical skills compared to traditional methods 4. VR's capacity to visualize abstract and spatial concepts supports deeper learning, especially in fields like anatomy and electromagnetism 2,4,5. VR has significant potential in remote and distance learning, helping mitigate issues related to social isolation and disconnection in online education, which increases motivation, satisfaction, and critical thinking skills among remote learners 6. For at-risk secondary students, VR enhances engagement, interest in practical laboratory activities, and overall academic performance 7. Challenges to widespread VR adoption include high costs, accessibility issues, technical barriers, and usability concerns, especially for non-STEM disciplines. Design improvements, such as better navigation and reduced cognitive load, are necessary to optimize VR's effectiveness and usability 8. The novelty effect of VR initially boosts motivation and engagement, but sustained use requires careful integration to maintain benefits. The immersive and interactive nature of VR fosters engagement, but its effectiveness depends on thoughtful instructional design aligned with learning objectives 9,10. Overall, research indicates VR significantly enhances STEM engagement by making complex concepts accessible, increasing motivation, and supporting deeper learning, though further research is necessary to address technical challenges and optimize integration across diverse educational contexts.

Read Less ^

AI can make mistakes. Double check every time.

DATA SWEEP

Results ↓

1 Leveraging Virtual and Augmented Reality to Boost Student Engagement in STEM Disciplines

VR and AR technologies increase student engagement and motivation in secondary STEM education.

Full Text

Enter a research question, statement, or topic and I'll find relevant papers for your study.

2024 1 citation Anqi Chen Region - Educational Re

Schimbare limbă

Rezumatul poate fi generat în limba dorită

Format flexibil

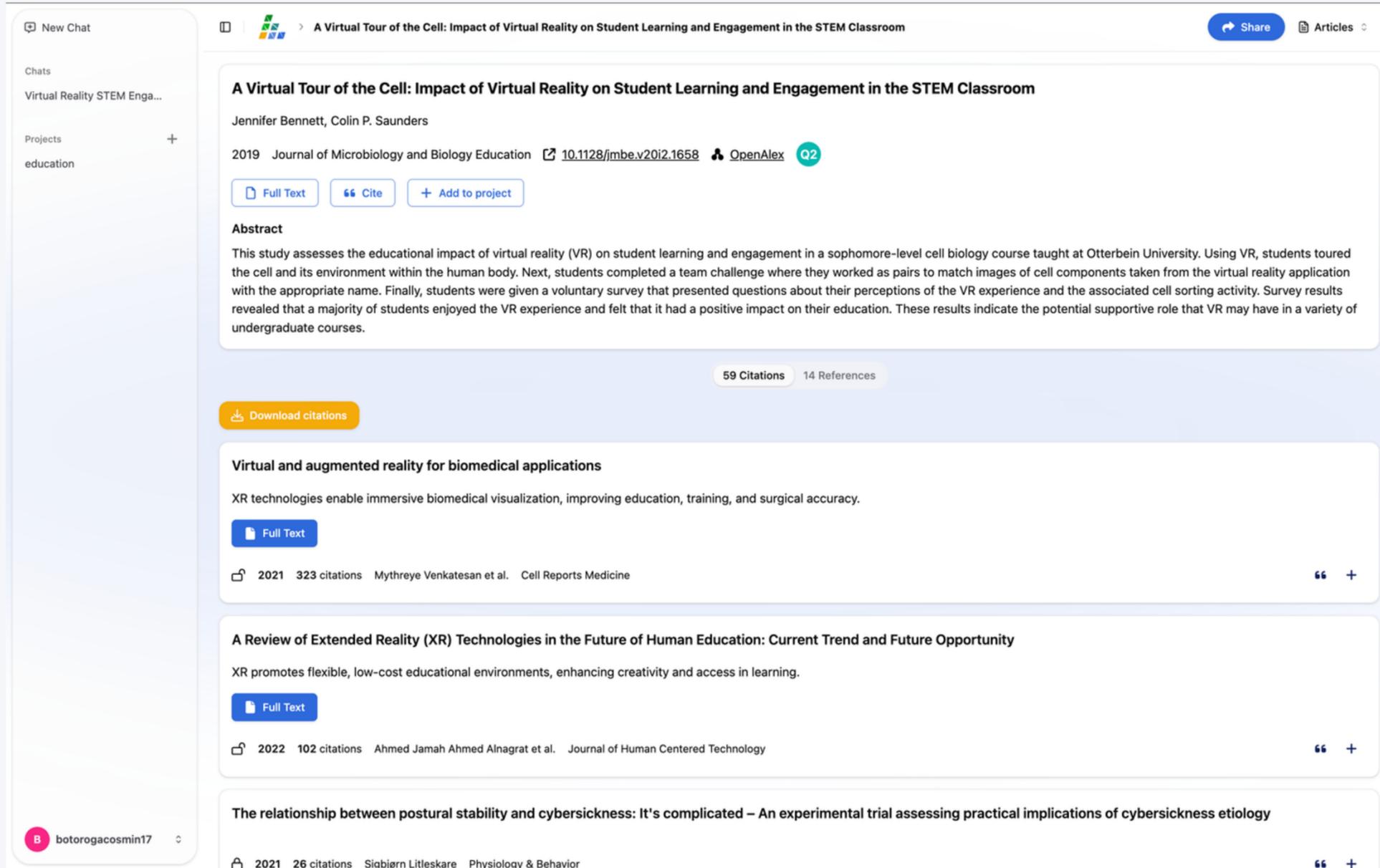
Afișare ca paragrafe sau puncte cheie

Distribuire (Share)

Generați un link public pentru colegi

Adăugare în proiect

Salvați materialele în proiecte tematice



The screenshot shows the DataSweep interface with a search result for the article "A Virtual Tour of the Cell: Impact of Virtual Reality on Student Learning and Engagement in the STEM Classroom" by Jennifer Bennett and Colin P. Saunders. The article is from the Journal of Microbiology and Biology Education (2019) and is available as Open Access. The interface includes buttons for "Full Text", "Cite", and "Add to project". Below the main article, there are three related articles, each with a "Full Text" button and citation information.

A Virtual Tour of the Cell: Impact of Virtual Reality on Student Learning and Engagement in the STEM Classroom
 Jennifer Bennett, Colin P. Saunders
 2019 Journal of Microbiology and Biology Education [10.1128/jmbe.v20i2.1658](https://doi.org/10.1128/jmbe.v20i2.1658) OpenAlex Q2
 Full Text Cite Add to project

Abstract
 This study assesses the educational impact of virtual reality (VR) on student learning and engagement in a sophomore-level cell biology course taught at Otterbein University. Using VR, students toured the cell and its environment within the human body. Next, students completed a team challenge where they worked as pairs to match images of cell components taken from the virtual reality application with the appropriate name. Finally, students were given a voluntary survey that presented questions about their perceptions of the VR experience and the associated cell sorting activity. Survey results revealed that a majority of students enjoyed the VR experience and felt that it had a positive impact on their education. These results indicate the potential supportive role that VR may have in a variety of undergraduate courses.

59 Citations 14 References
 Download citations

Virtual and augmented reality for biomedical applications
 XR technologies enable immersive biomedical visualization, improving education, training, and surgical accuracy.
 Full Text
 2021 323 citations Mythreye Venkatesan et al. Cell Reports Medicine

A Review of Extended Reality (XR) Technologies in the Future of Human Education: Current Trend and Future Opportunity
 XR promotes flexible, low-cost educational environments, enhancing creativity and access in learning.
 Full Text
 2022 102 citations Ahmed Jamah Ahmed Alnagrat et al. Journal of Human Centered Technology

The relationship between postural stability and cybersickness: It's complicated – An experimental trial assessing practical implications of cybersickness etiology
 2021 26 citations Sigbjørn Litleskare Physiology & Behavior

Detalii disponibile per material:

- Titlu, autori, jurnal, cuartilă
- Citări și referințe
- Abstract
- Acces Full Text (Open Access)
- DOI și baza de date sursă

Butonul " (ghilimele):

Alegeți stilul de citare dorit (APA, MLA, Chicago etc.). Citarile se copiază instant!

💡 Apăsați pe titlul unui material pentru a accesa pagina completă a acestuia.

59 Citations 14 References

Download citations

Virtual and augmented reality for biomedical applications
XR technologies enable immersive biomedical visualization, improving education, training, and surgical accuracy.
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Full Text
2022 102 citations Ahmed Jamah Ahmed Alnagrat et al. Journal of Human Centered Technology

New Chat

Chats
Virtual Reality STEM Enga...

Projects
education

education 8 Articles 1 Chat

Virtual and augmented reality for biomedical applications
Extended reality technologies improve biomedical education, surgical guidance, and complex data visualization.
Full Text
2021 324 citations Mythreye Venkatesan et al. Cell Reports Medicine

A Review of Extended Reality (XR) Technologies in the Future of Human Education: Current Trend and Future Opportunity
Extended Reality technologies offer innovative, flexible, and immersive educational tools for future learning environments.
Full Text
2022 102 citations Ahmed Jamah Ahmed Alnagrat et al. Journal of Human Centered Technology

Engaging students in virtual tours to learn language and digital literacy
Full Text
2023 23 citations Davy Tsz Kit Ng et al. Journal of Computers in Education

High School Students' Engagement in Biology in the Context of XR Technology
XR technology enhances high school students' emotional, social, behavioral, and cognitive engagement in biology.
Full Text
2023 12 citations Mohammad Hmoud et al. IEEE Access

Impact of virtual reality on promoting understanding of research in rural Africa: The KEMRI-Wellcome Trust virtual tour of research laboratories

botorogacosmin17

Descărcare Citări & Referințe

Se descarcă un fișier Excel cu: Titlu, Abstract, Jurnal, DOI, Cuartilă. Ideal pentru revizuirea literaturii!

Crearea de Proiecte

Adăugați materialele la proiecte tematice personale (ex: "educatie", "teza"). Organizați-vă cercetarea eficient.

Chat Continuu

Adresați mai multe întrebări succesive în același chat. Toată sesiunea de cercetare într-un singur loc!



DATA SWEEP

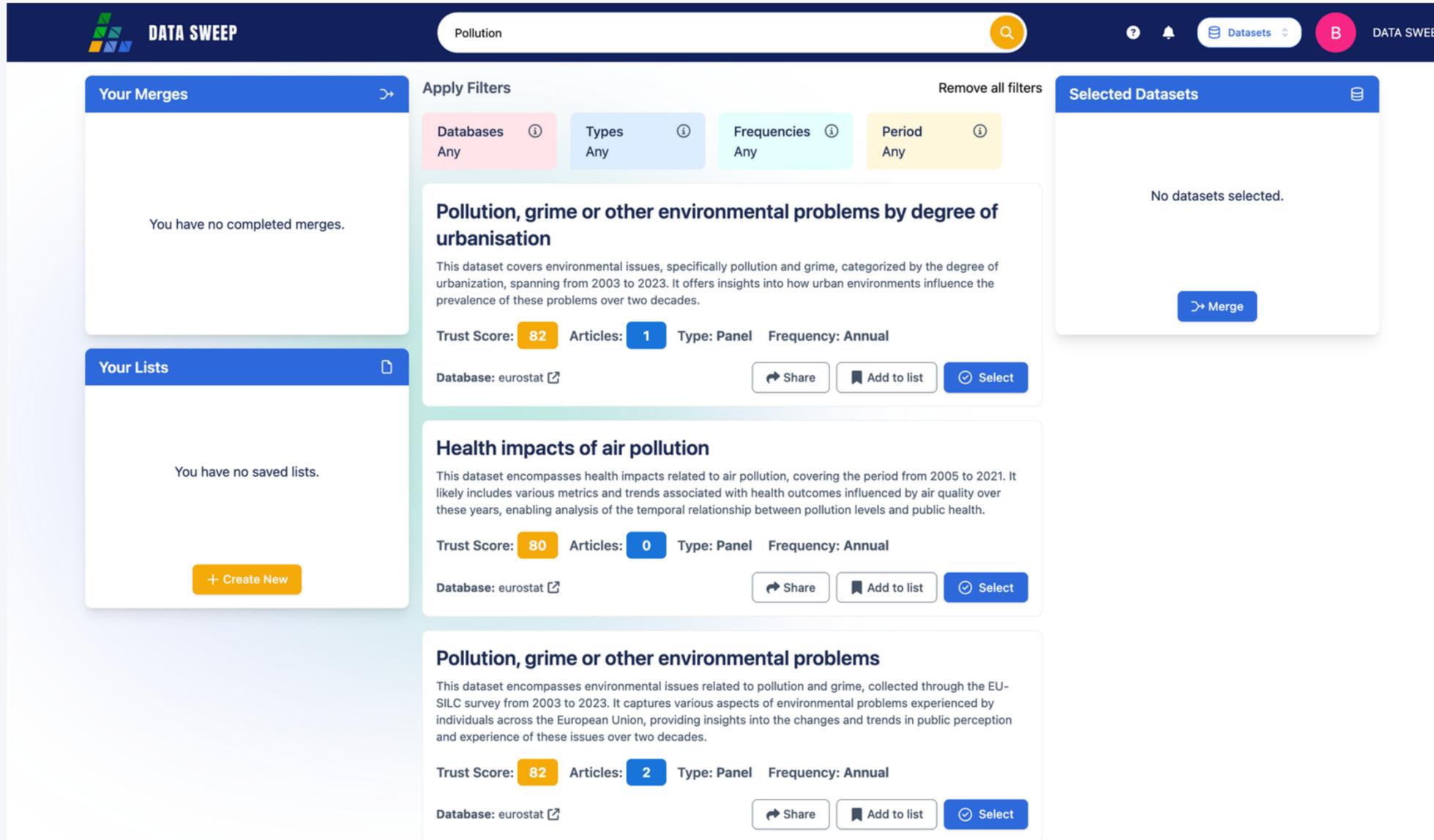
MODUL 2

Căutare & Descărcare Indicatori Cantitativi



Eurostat · Banca Mondială · BCE · FRED

Peste 3,1 milioane de indicatori



The screenshot shows the Data Sweep application interface. At the top, there is a search bar with the text 'Pollution' and a magnifying glass icon. To the right of the search bar are icons for help, notifications, and a user profile labeled 'B DATA SWEEP'. Below the search bar, there are three main sections: 'Your Merges', 'Your Lists', and 'Apply Filters'. The 'Your Merges' section shows 'You have no completed merges.' The 'Your Lists' section shows 'You have no saved lists.' and a '+ Create New' button. The 'Apply Filters' section has four filter buttons: 'Databases: Any', 'Types: Any', 'Frequencies: Any', and 'Period: Any'. Below the filters, there are three search results for 'Pollution, grime or other environmental problems by degree of urbanisation'. Each result includes a description, a Trust Score (82, 80, 82), the number of articles (1, 0, 2), the type (Panel), and the frequency (Annual). Each result also has a 'Database: eurostat' label and buttons for 'Share', 'Add to list', and 'Select'. On the right side of the interface, there is a 'Selected Datasets' panel that says 'No datasets selected.' and has a '> Merge' button.

1

Accesați

datasweep.app și logați-vă

2

Căutare generală

Începeți cu un termen general (ex: "pollution")
în limba engleză

3

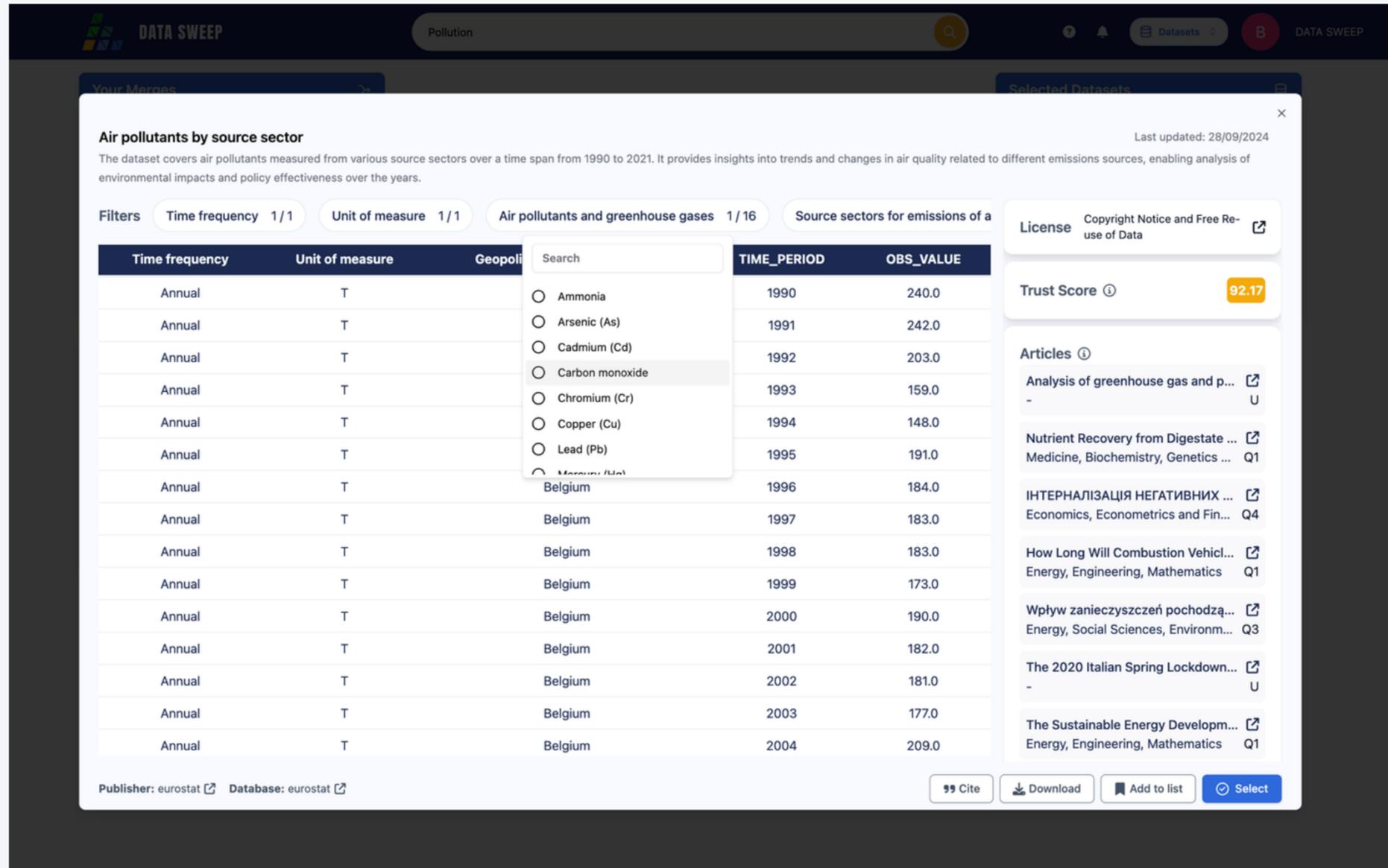
Rafinare

Adresați întrebări specifice (ex: "What is the
impact of pollution on EU economies?")

4

Filtre disponibile

Baza de date (Eurostat/FRED), tipul de date
(panel / serii de timp), perioadă



Air pollutants by source sector Last updated: 28/09/2024

The dataset covers air pollutants measured from various source sectors over a time span from 1990 to 2021. It provides insights into trends and changes in air quality related to different emissions sources, enabling analysis of environmental impacts and policy effectiveness over the years.

Filters: Time frequency 1/1 | Unit of measure 1/1 | Air pollutants and greenhouse gases 1/16 | Source sectors for emissions of a

Time frequency	Unit of measure	Geopol	Search	TIME_PERIOD	OBS_VALUE
Annual	T		<input type="radio"/> Ammonia	1990	240.0
Annual	T		<input type="radio"/> Arsenic (As)	1991	242.0
Annual	T		<input type="radio"/> Cadmium (Cd)	1992	203.0
Annual	T		<input type="radio"/> Carbon monoxide	1993	159.0
Annual	T		<input type="radio"/> Chromium (Cr)	1994	148.0
Annual	T		<input type="radio"/> Copper (Cu)	1995	191.0
Annual	T		<input type="radio"/> Lead (Pb)	1996	184.0
Annual	T		<input type="radio"/> Mercury (Hg)	1997	183.0
Annual	T	Belgium		1998	183.0
Annual	T	Belgium		1999	173.0
Annual	T	Belgium		2000	190.0
Annual	T	Belgium		2001	182.0
Annual	T	Belgium		2002	181.0
Annual	T	Belgium		2003	177.0
Annual	T	Belgium		2004	209.0

License: Copyright Notice and Free Re-use of Data

Trust Score: 92.17

Articles:

- Analysis of greenhouse gas and p... U
- Nutrient Recovery from Digestate ... Q1
- Медцина, Біохімія, Генетика ... Q1
- ІНТЕРНАЛІЗАЦІЯ НЕГАТИВНИХ ... Q4
- Economics, Econometrics and Fin... Q4
- How Long Will Combustion Vehicl... Q1
- Energy, Engineering, Mathematics
- Wpływ zanieczyszczeń pochodzą... Q3
- Energy, Social Sciences, Environm...
- The 2020 Italian Spring Lockdown... U
- The Sustainable Energy Developm... Q1
- Energy, Engineering, Mathematics

Publisher: eurostat | Database: eurostat

Cite | Download | Add to list | Select

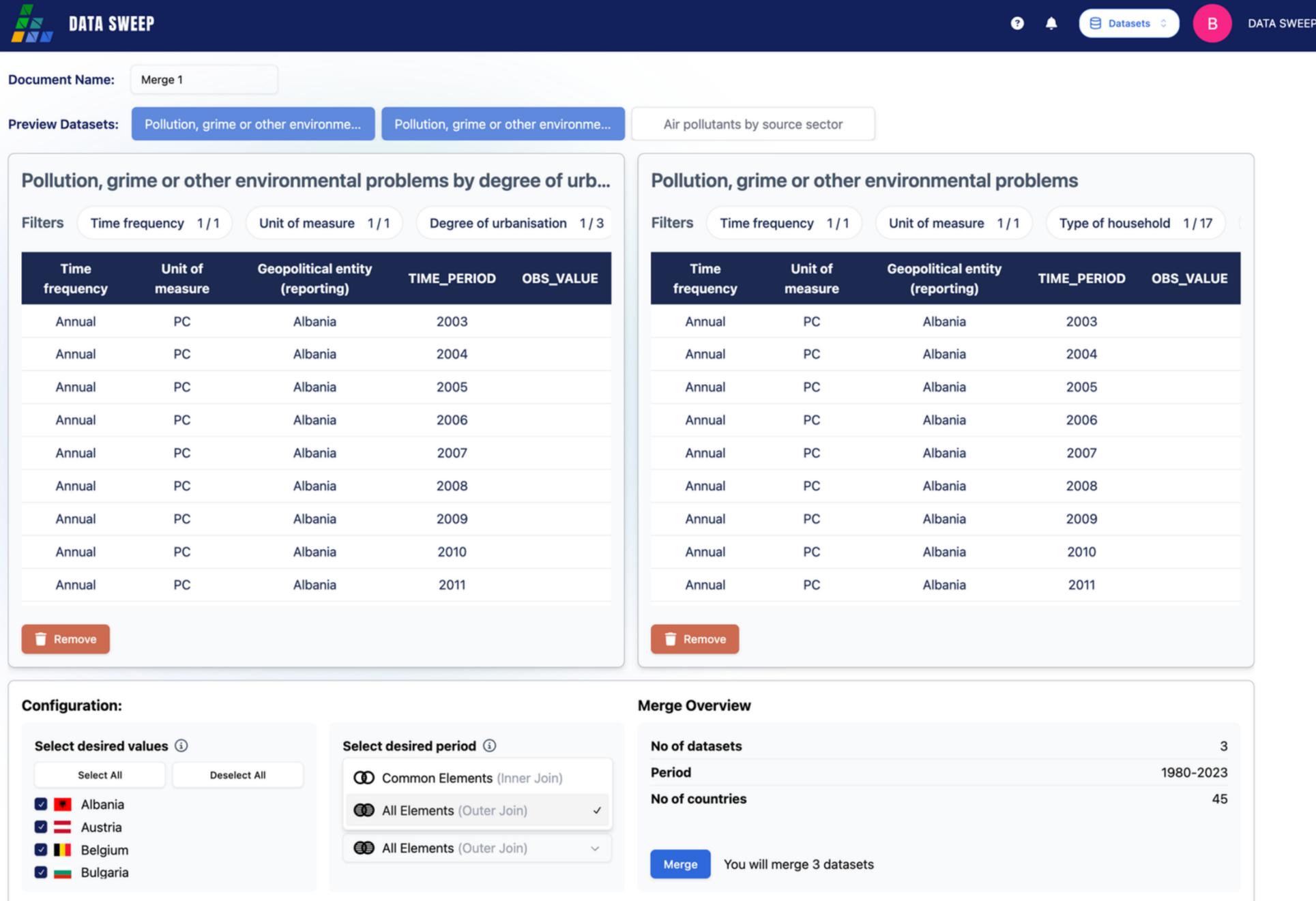
Trust Score

Fiecare indicator are un Trust Score calculat în baza utilizării sale în publicații indexate (Crossref). Cu cât scorul e mai mare, cu atât indicatorul a fost mai utilizat de mediul academic și de cercetare.

Filtre per indicator:

Unitate de măsură, gen, regiune, perioadă. Vizualizați datele înainte de selecție!

! Recomandare: Selectați indicatori cu frecvență similară (lunari cu lunari, anuali cu anuali) și același tip de date (panel cu panel, serii cu serii).



Document Name: Merge 1

Preview Datasets: Pollution, grime or other environme... Pollution, grime or other environme... Air pollutants by source sector

Pollution, grime or other environmental problems by degree of urb...

Filters: Time frequency 1/1, Unit of measure 1/1, Degree of urbanisation 1/3

Time frequency	Unit of measure	Geopolitical entity (reporting)	TIME_PERIOD	OBS_VALUE
Annual	PC	Albania	2003	
Annual	PC	Albania	2004	
Annual	PC	Albania	2005	
Annual	PC	Albania	2006	
Annual	PC	Albania	2007	
Annual	PC	Albania	2008	
Annual	PC	Albania	2009	
Annual	PC	Albania	2010	
Annual	PC	Albania	2011	

Remove

Pollution, grime or other environmental problems

Filters: Time frequency 1/1, Unit of measure 1/1, Type of household 1/17

Time frequency	Unit of measure	Geopolitical entity (reporting)	TIME_PERIOD	OBS_VALUE
Annual	PC	Albania	2003	
Annual	PC	Albania	2004	
Annual	PC	Albania	2005	
Annual	PC	Albania	2006	
Annual	PC	Albania	2007	
Annual	PC	Albania	2008	
Annual	PC	Albania	2009	
Annual	PC	Albania	2010	
Annual	PC	Albania	2011	

Remove

Configuration:

Select desired values ⓘ

Select All Deselect All

- Albania
- Austria
- Belgium
- Bulgaria

Merge Overview

No of datasets: 3

Period: 1980-2023

No of countries: 45

Merge You will merge 3 datasets

1

Previzualizare

Comparați indicatorii 2 câte 2 și aplicați filtre specifice

2

Tip de unire

Inner Join (elemente comune) sau Outer Join (toate elementele)

3

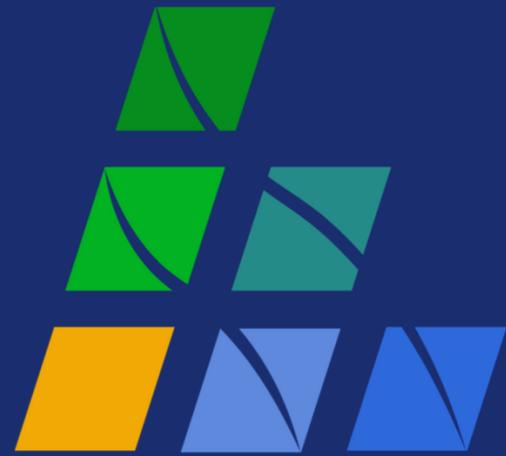
Apăsați Merge

Se generează un fișier Excel în arhivă ZIP

4

Rezultatul Excel

Sheet 1 = indicatori concatenați. Celelalte sheets = detalii per indicator



DATA SWEEP

Succes în cercetare!

DATA SWEEP este partenerul tău academic.



Materiale Științifice

[Click aici](#)

Indicatori Cantitativi

[Click aici](#)

Folosiți înregistrarea prin E-nformation pentru acces gratuit la toate funcționalitățile, dacă instituția dvs. a achiziționat serviciile DATA SWEEP sau este în perioada de trial.