

Tendinte privind stiinta deschisa (*Open science*)

Viziunea si practica europeana

Alina Irimia,

UEFISCDI, NOAD Representative in Romania

OpenAIRE National Workshop | Bucharest | 22 Oct. 2018



ADVANCE



@openaire_eu



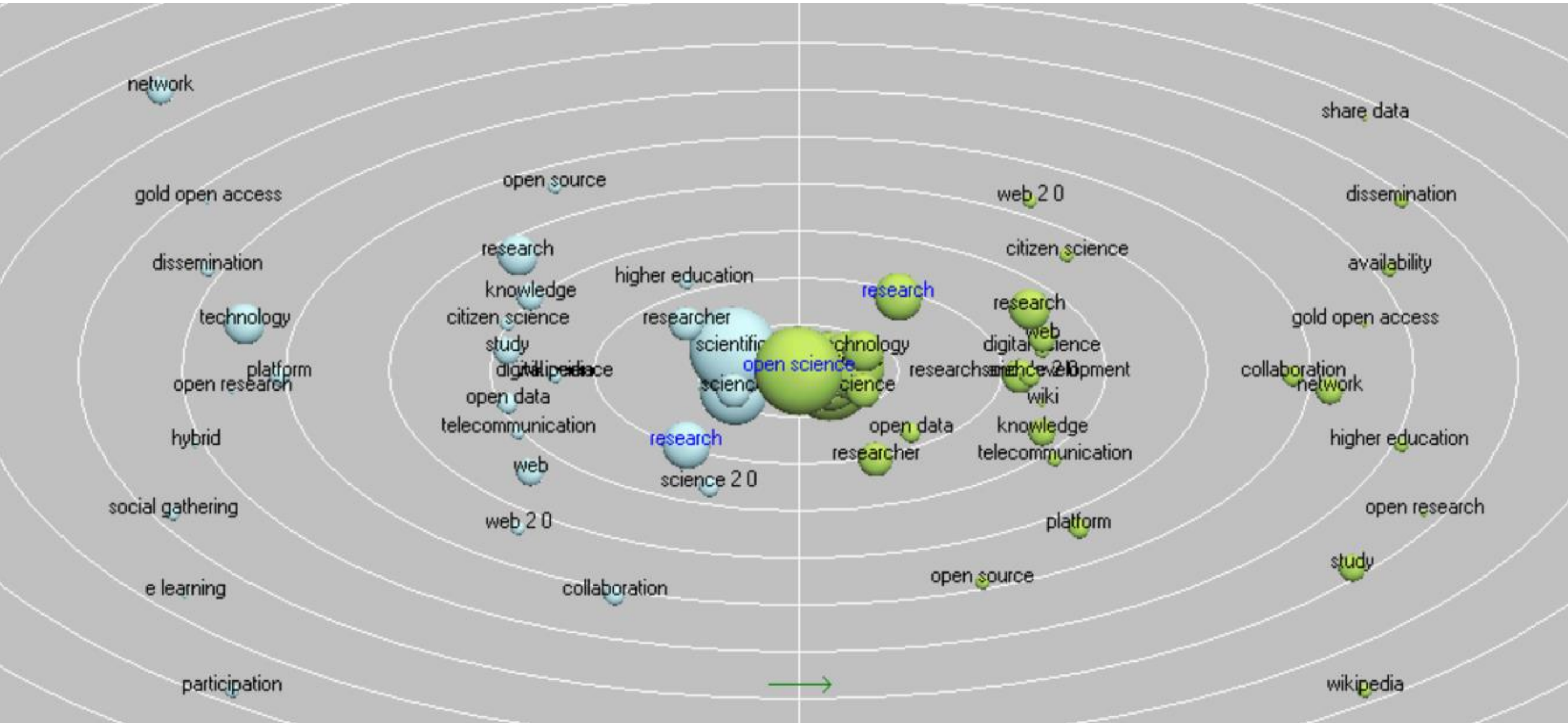
Abordare

- Ecosistemul si evolutia stiintei deschise
- Initiativele recente
- Provocari pentru implementarea stiintei deschise

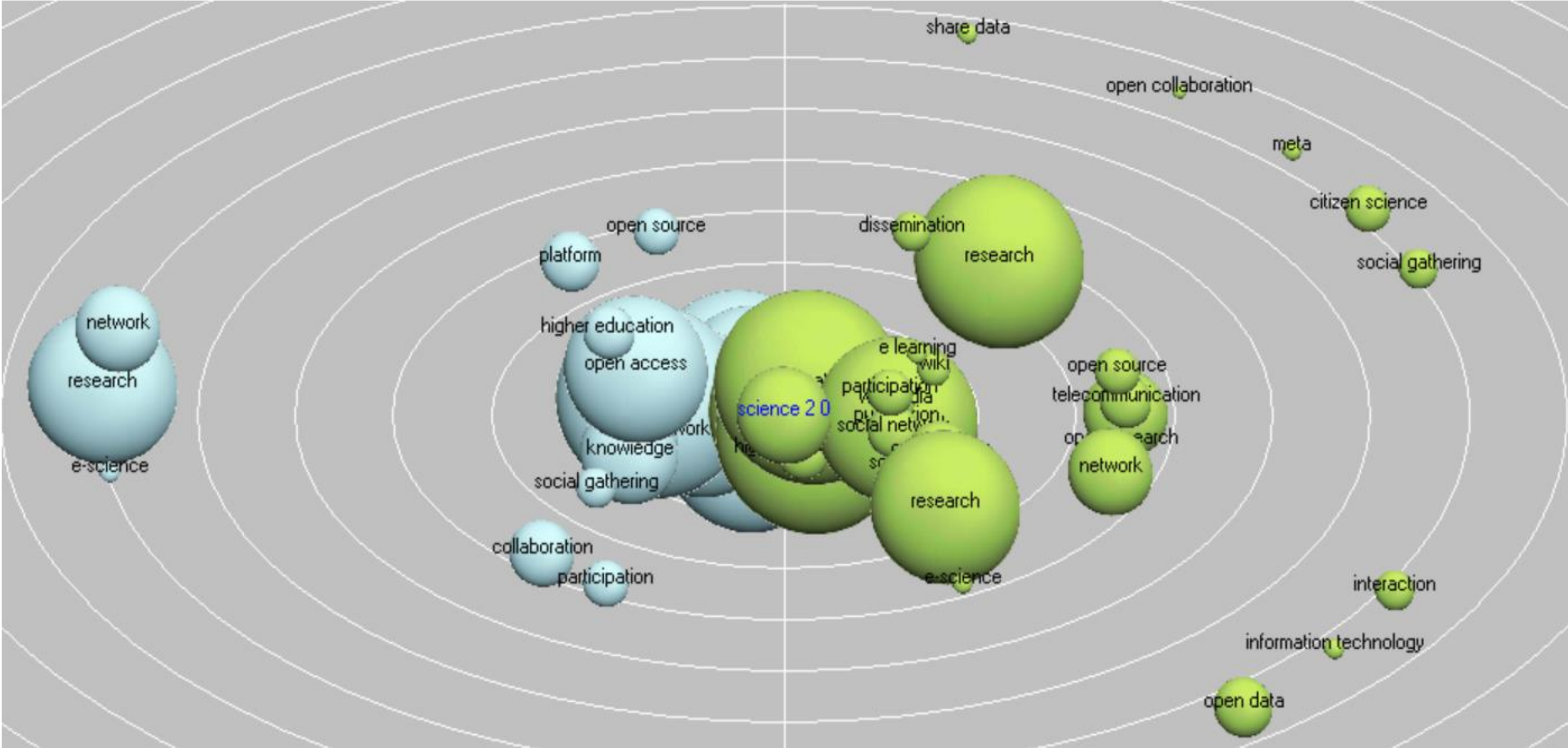
Ce este stiinta deschisa (Open science)?

Stiinta deschisa „este un mijloc si nu un scop în sine si este mult mai mult decat doar acces liber la publicatii sau date; include numeroase aspecte si etape ale proceselor de cercetare, permitand astfel reproducerea completa si reutilizarea rezultatelor stiintifice.” (OECD, 2015)

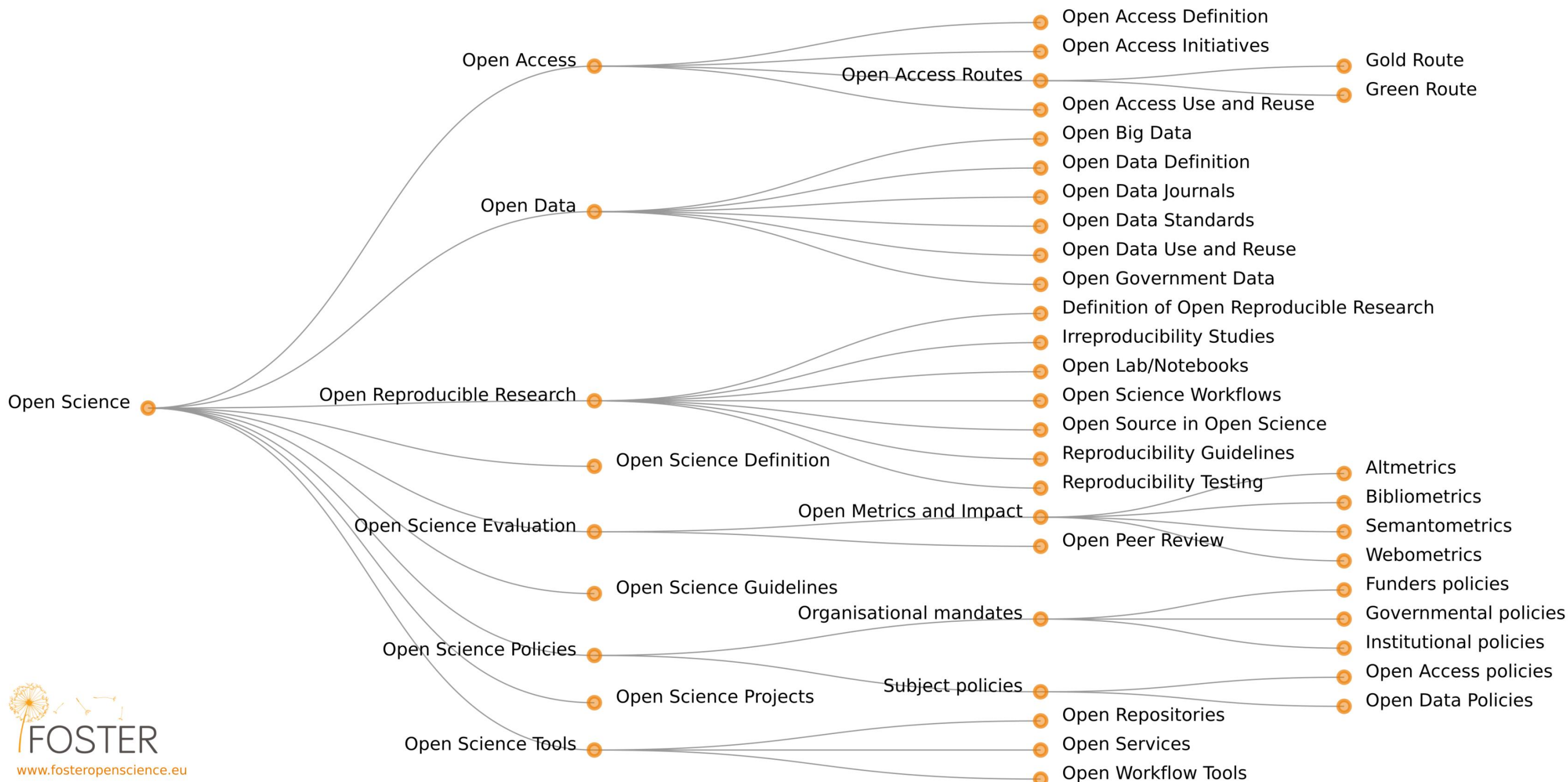
Ecosistemul stiintei deschise



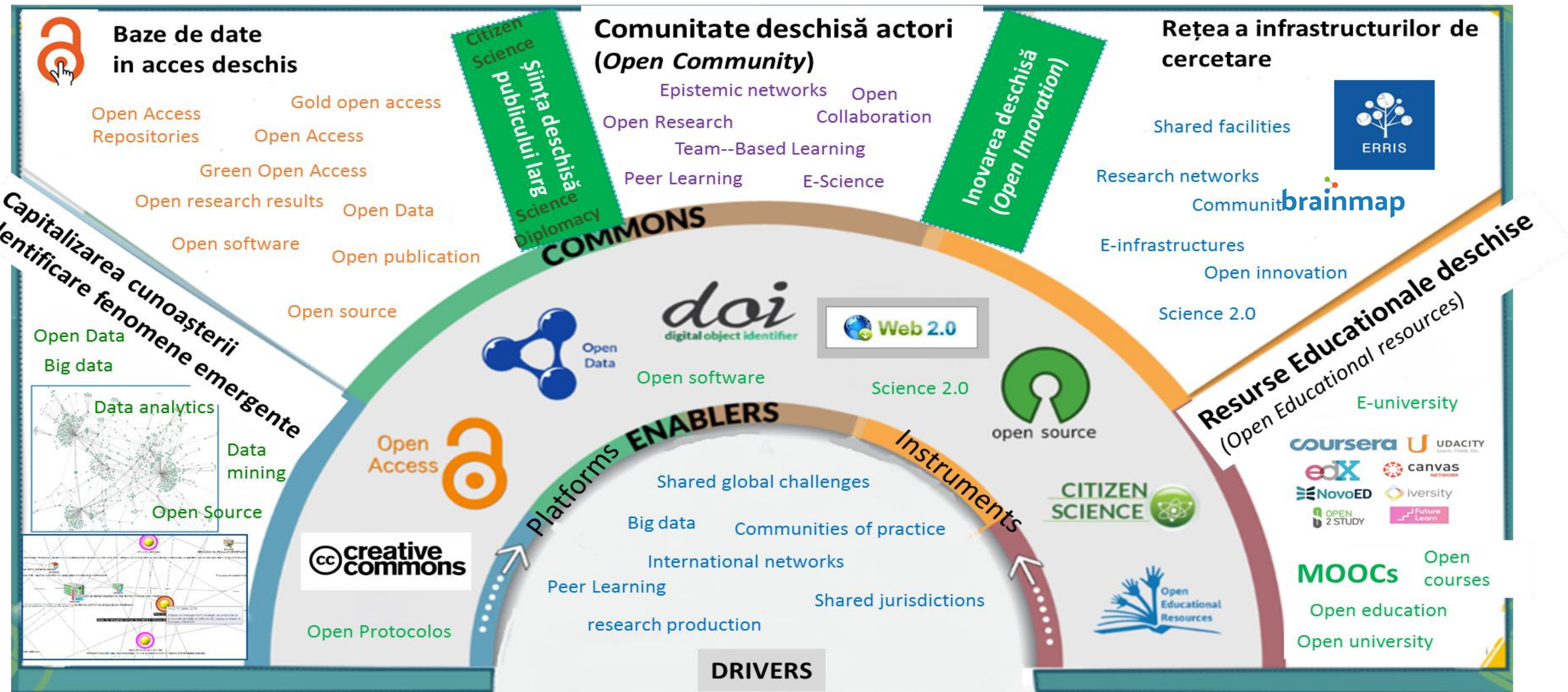
Ecosistemul stiintei deschise



Open Science Taxonomy



Un ecosistem al științei deschise



Adaptare după platforma de știință deschisă a Africii (The Sci-GaIA Open Science Platform), sursa:

<http://www.sci-gaia.eu/osp/>

Ce este stiinta deschisa (Open science)?

...un ecosistem de cercetare si inovare guvernat de

accesul deschis (*open access*) la rezultatele de cercetare finantare din fonduri publice (publicatii si date), reutilizarea optima a datelor de cercetare (***open data***) prin adoptarea principiilor FAIR (*findable, accessible, interoperable and re-usable*), deschiderea, intensificarea si internationalizarea colaborarii in stiinta (***open collaboration***), deschiderea catre societate - stiinta cu cetatenii (***citizen science***) si adoptarea, dezvoltarea de tehnologii care sprijina stiinta deschisa (**e-infrastructuri, science 2.0**).

De ce OA pentru rezultatele cercetării?



reducerea costurilor de colectare a datelor;
facilitarea exploatarei datelor latente sau inaccesibile la costuri reduse;
cresterea oportunitatilor de colaborare in cercetare, precum si in inovare;
calitatea imbunatatita a publicatiilor si rezultatelor de cercetare prin reutilizare;
incurajarea colaborarii si asigurarea eficientei cercetării prin evitarea duplicarii



accelerarea inovarii;

“Open innovation”

cresterea impactului rezultatelor de cercetare in definirea politicilor publice;

consolidarea legaturii intre comunitatea de cercetare, decidenti si societate civila;

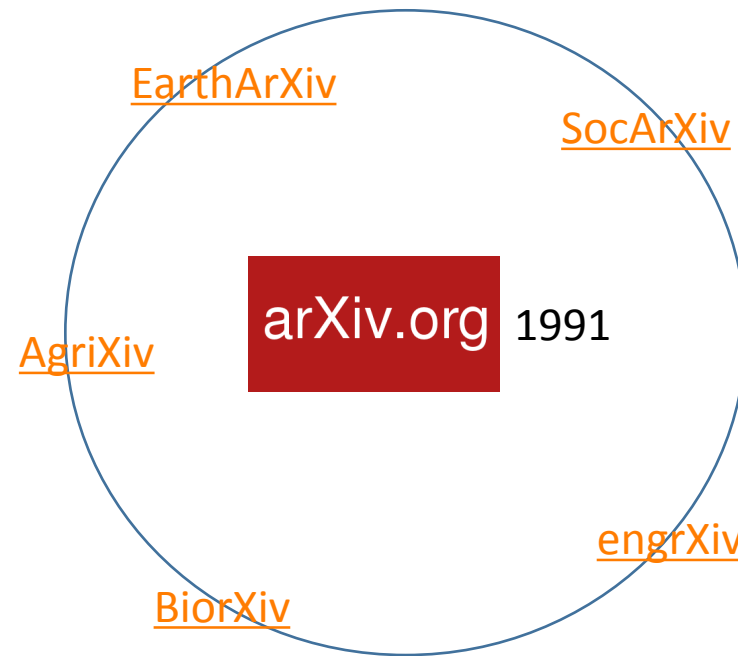
implicarea publicului larg in stiinta si producerea ei, crescand transparenta procesului stiintific;

cresterea responsabilizarii si presiunii pentru rezultate de cercetare competitive

prin verificarea publica a acestora.



Miscareca Open science.. 'Bottom-up'



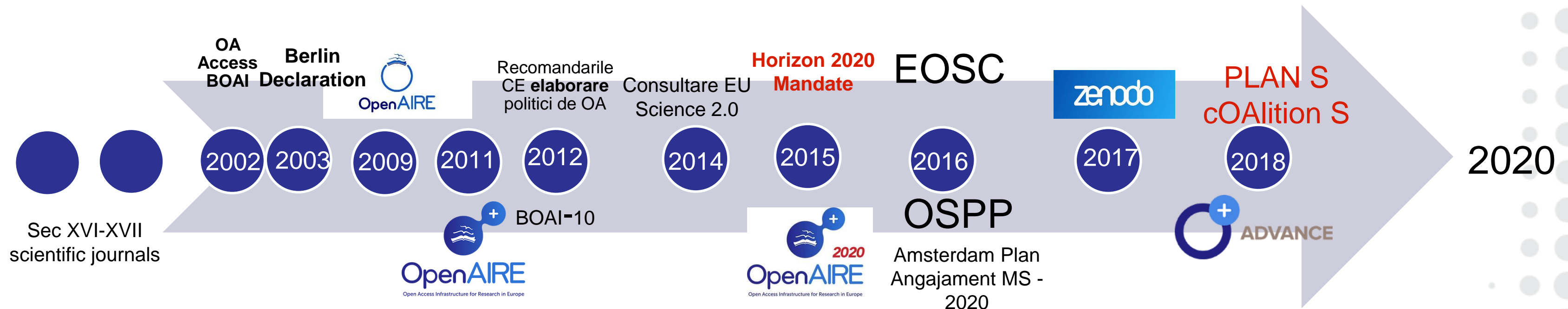
(1994) Social Science Research Network



FigShare



Scurt istoric - Milestones



Sec XVI-XVII scientific journals

Viziunea EU – 3 Os
open innovation
open science
open to the world



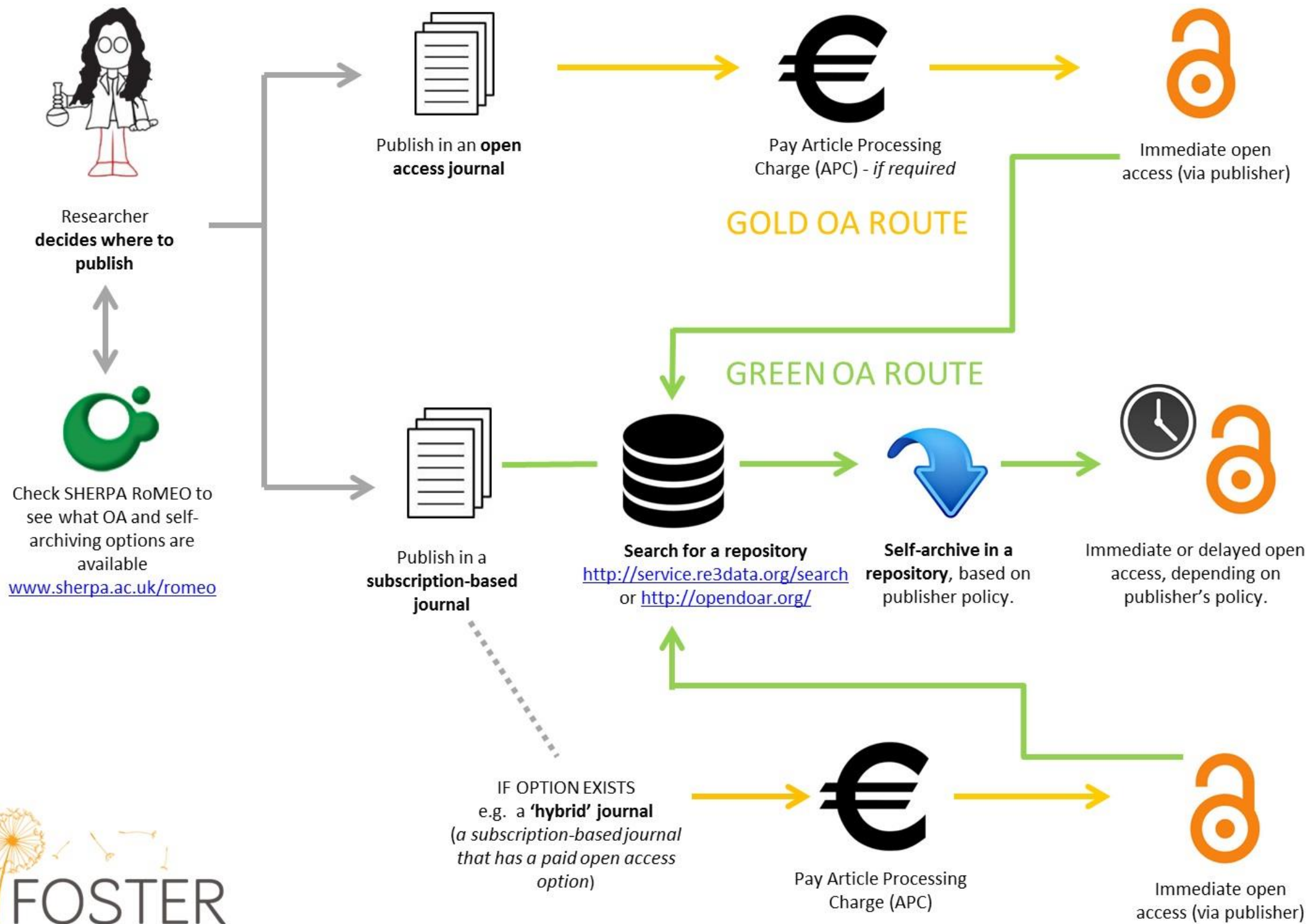
Horizon 2020 - Obligativitatea publicarii in OA

Toate publicatiile stiintifice ce deriva din proiecte Horizon 2020 trebuie sa fie facute publice in regim *open access*

Publicare in reviste OA (**Gold** sau **Hybrid**) – acces deschis imediat
Green – “publicare paralela” (embargo) intr-o arhiva OA(Repository)

*Depozitarea intr-o arhiva OA se face si in cazul publicarii Gold sau Hybrid

H2020 OA Mandate



www.fosteropenscience.eu



Plan S – Coalitia S



Plan S

Accelerating the transition to full and immediate Open Access to scientific publications

The key principle is as follows:

“After 1 January 2020 scientific publications on the results from research funded by public grants provided by national and European research councils and funding bodies, must be published in compliant Open Access Journals or on compliant Open Access Platforms.”

Planul S.

Schimbare radicala

a comunicarii cunoasterii stiintifice:

Incepand cu 1 ianuarie 2020,

toate articolele stiintifice rezultate din finantari publice trebuie sa fie publicate in OA.

Initiatori:

Science Europe

11 organizatii de finantare a cercetarii din Europa

Comisia Europeana

European Research Council (ERC)

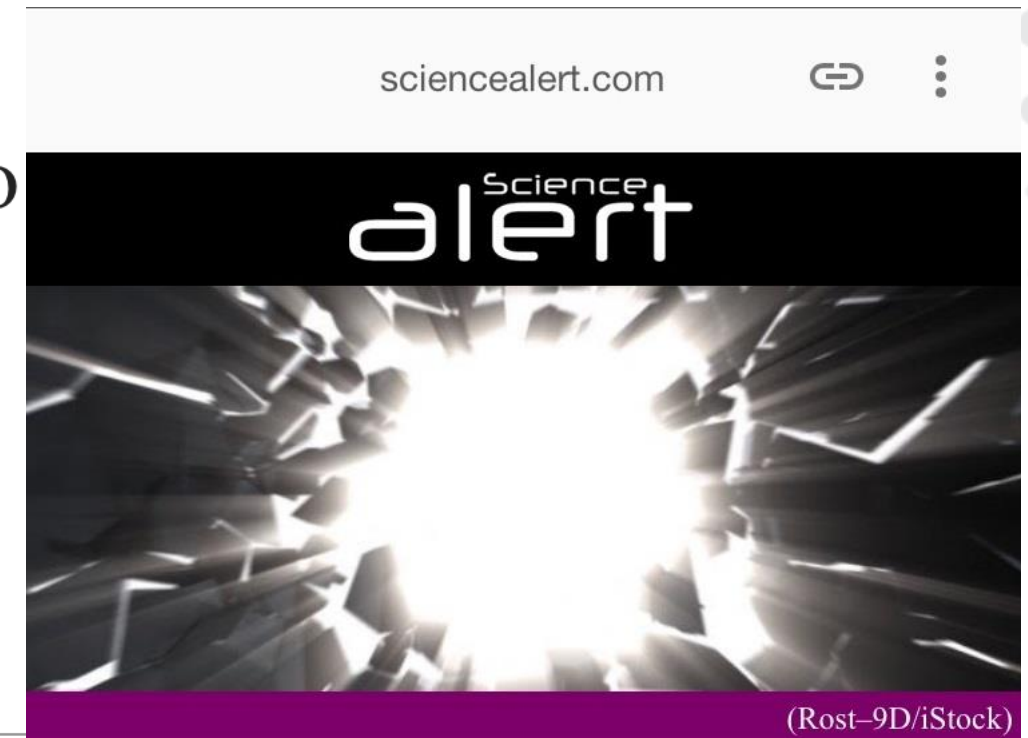


NEWS • 04 SEPTEMBER 2018

Radical open-access plan could spell end to journal subscriptions

Eleven research funders in Europe announce 'Plan S' to make all scientific works free to read as soon as they are published.

Holly Else



11 EU Nations Just Kicked Off a Plan to Make Public Science Free For All of Us

BY PETER DOCKRILL
SEPTEMBER 05, 2018

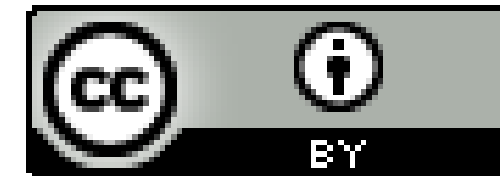
The [paywall](#) that separates millions from [free access to scientific knowledge](#) is

Planul S

- ~~Hybrid OA~~

Autorii vor retine drepturile de autor asupra publicatiilor proprii fara restrictii.

Publicare sub licente deschise



- ~~EMBARGO~~

Daca este cazul, taxele pentru publicarea cu Acces Deschis - vor fi suportate de finantatori sau de catre universitati, nu de catre cercetatori

- ~~APCs mari~~

- finantare standardizata si limitata (in întreaga Europa)

Provocari

Pentru atingerea obiectivelor setate pana in 2020, actiunile necesare se impart in:

- **Implementarea de noi sisteme de evaluare si recompensare:** sisteme care sa tina cont de nucleul crearii cunoasterii si de impactul cercetarii stiintifice asupra stiintei si societatii in general, inclusiv asupra economiei si stimulării stiintei cu implicarea cetatenilor (*citizen science*). Aceste noi sisteme ar trebui sa valorifice impactul cercetarii si gradul ridicat de distribuire, nu doar numarul de publicatii si citari.
- **Alinierea politicilor si schimbul de bune practici.** Activitati, practici si politici ar trebui aliniate, exemplele de succes si informatia ar trebui impartasite pentru a spori claritatea si comparabilitatea (sistem de monitorizare si inventariere sistematica - Observatorul European pentru Stiinta Deschisa).

Provocari

- Schimbarea modului de evaluare si recompensare in stiinta
- Analiza de tip Big data/ data mining
- Imbunatatirea intelegerii drepturilor de proprietate intelectuala (IPR) si a altor aspecte privind confidentialitatea - utilizarea licentelor deschise
- Crearea transparentei costurilor si conditiilor comunicarii academice/ stiintifice
- Introducerea principiilor FAIR
- Crearea de e-infrastructuri comune, interoperabilitate (OAI-PMH)
- Adoptarea principiilor open access pentru rezultatele cercetarii, alinierea politicilor EU
- Stimularea noilor modele de publicare pentru transferul cunoasterii
- Stimularea cercetarii bazate pe dovezi privind inovatiile in open science
- Dezvoltarea, implementarea, monitorizarea si rafinarea planurilor referitoare la OA
- Implicarea cercetatorilor si a noilor utilizatori in OS
- Incurajarea stakeholderilor de a impartasi expertiza si informatiile cu privire la open science

altmetrics

CC creative commons



Findable 
Accessible 
Interoperable 
Reusable 

CITIZEN SCIENCE
COMMUNITY RESOURCES 



Open Access Week 2018

October 22 - 28



Join OpenAIRE and FOSTER for a series of webinars and tutorials!

- <https://www.openaire.eu/open-access-week-2018>

Referinte:

- <https://www.openaire.eu>
- Creative Commons website: <https://creativecommons.org/>
- FOSTER <https://www.fosteropenscience.eu/content/what-open-science-introduction>
- <https://openscience.com/>
- [Registry of Open Access Mandatory Archiving Policies \(ROARMAP\)](#)
- Plan S. https://www.scienceeurope.org/wp-content/uploads/2018/09/Plan_S.pdf
- https://ec.europa.eu/commission/commissioners/2014-2019/moedas/announcements/plan-s-and-coalition-s-accelerating-transition-full-and-immediate-open-access-scientific_en
- Coalitia S. – preambul https://www.scienceeurope.org/wp-content/uploads/2018/09/cOAlitionS_Preamble.pdf
- Amsterdam Call for Action on Open Science <http://english.eu2016.nl/documents/reports/2016/04/04/amsterdam-call-for-action-on-open-science> .
- The transition towards an Open Science system - Council conclusions (27/05/2016) <http://data.consilium.europa.eu/doc/document/ST-9526-2016-INIT/en/pdf>
- Commission Communication of 19 April 2016 on a "European Cloud Initiative - Building a competitive data and knowledge economy in Europe" <http://ec.europa.eu/transparency/regdoc/rep/1/2016/EN/1-2016-178-EN-F1-1.PDF>
- European Commission 'Recommendations on Access to and Preservation of Scientific Information', (July 2012) http://ec.europa.eu/research/science-society/document_library/pdf_06/recommendation-access-and-preservation-scientific-information_en.pdf
- European Commission 'Communication Towards better access to scientific information: Boosting the benefits of public investments in research' http://ec.europa.eu/research/science-society/document_library/pdf_06/era-communication-towards-better-access-to-scientific-information_en.pdf

Va multumim,

Echipa OpenAIRE Romania NOAD:

Mihaela Cucu Mihaela.cucu@uefiscdi.ro

Ioana Spanache ioana.spanache@uefiscdi.ro

Alina Irimia alina.Irimia@uefiscdi.ro