

The background features a collection of line-art icons. On the left, there are server racks, a laptop with a graph on its screen, and gears. In the center, a network diagram with a central node and several peripheral nodes is connected by lines. To the right, there are icons for a hard drive, a padlock, a globe, a magnifying glass, and a clock. At the bottom, there are icons for a hand pointing, a hand holding a pen, and another globe. Mathematical symbols like a plus sign and a multiplication sign are also scattered throughout.

Physics@Veldhoven
22-23 January 2019

Open Science
Robert-Jan Smits
EC Open Access Envoy

Science in Transition

Drivers of change

- ⊙ Exponential growth of data
- ⊙ Availability of digital technologies
- ⊙ Growth of the global science community
- ⊙ Increasing demands from society for:
 - quick solutions
 - transparency
 - agenda setting
 - ethics



Science in Transition

Advantages

- ⦿ More efficient science
- ⦿ More reliable science
- ⦿ Faster and wider innovation
- ⦿ More opportunities for global cooperation
- ⦿ Science more responsive to societal challenges
- ⦿ Greater scientific integrity
- ⦿ Reconnect science and society
- ⦿ More trust in science



Key words: More openness, more cooperation



Open Science

THE AGENDA

- ⦿ Open Access to scientific publications
- ⦿ Open Access to Data
- ⦿ Altmetrics
- ⦿ New reward systems
- ⦿ Open Science skills
- ⦿ Citizen Science
- ⦿ Research integrity



Open Science

The Agenda

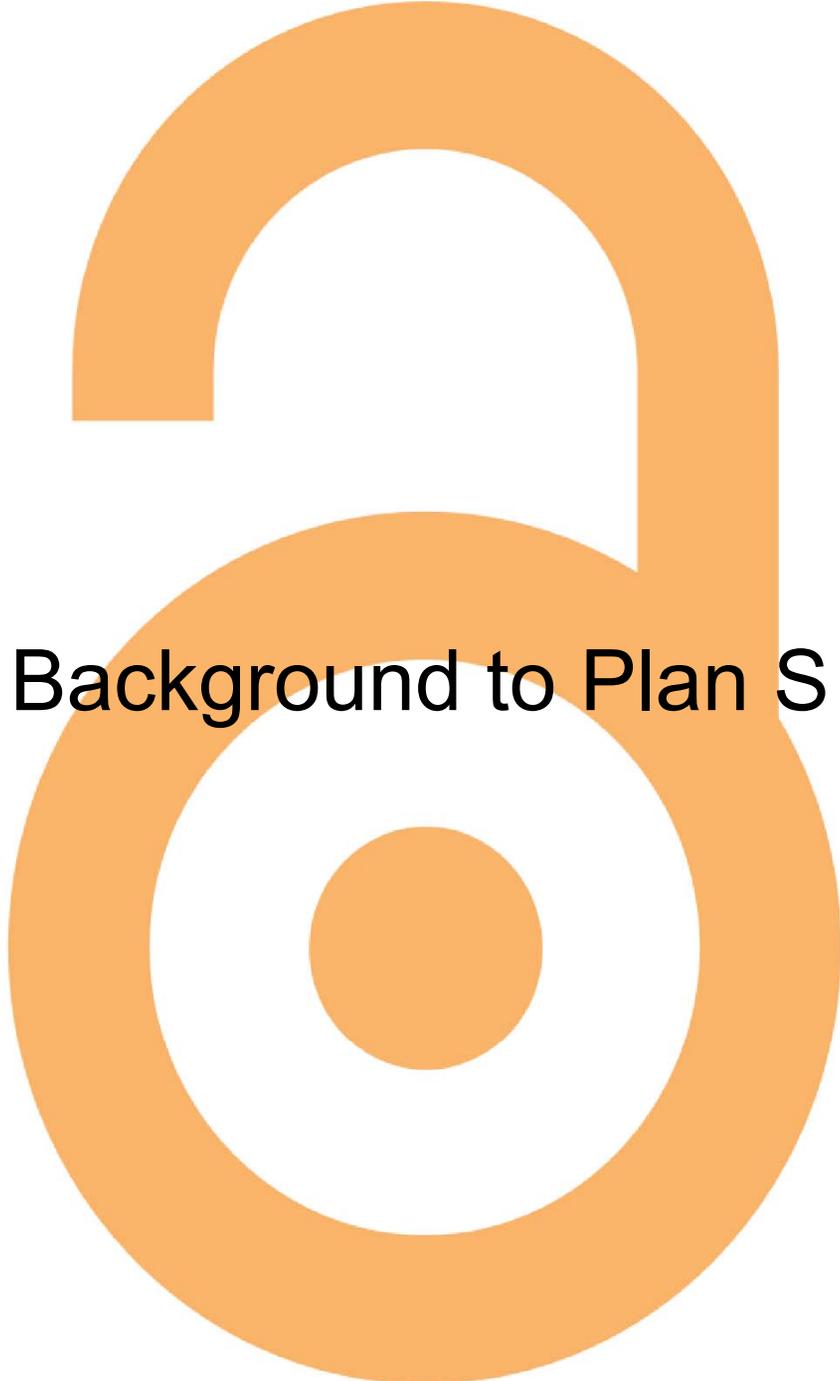
- ⊙ Open Access to scientific publications
- ⊙ Open Access to data
- ⊙ Altmetrics
- ⊙ New reward systems
- ⊙ Open Science Skills
- ⊙ Citizen Science
- ⊙ Research integrity

The Actions

- ⊙ Plan S
- ⊙ European Open Science Cloud
- ⊙ Development of next generation metrics
- ⊙ Development of next generation reward systems
- ⊙ Education and Training
- ⊙ Exchange of good practices (e.g. NWA)
- ⊙ Upgrade of European code of research integrity (2017)

The background features a collection of line-art icons. On the left, there are server racks, a laptop with an orange screen, and gears. In the center, a network diagram with a central node and five peripheral nodes is connected by lines. To the right, there are icons for a cloud with a downward arrow, a hard drive, a padlock, a globe, a magnifying glass, and a clock. At the bottom, there are icons for a hand pointing, a hand holding a pen, and a globe. Mathematical symbols like a plus sign and a multiplication sign are also scattered throughout.

Plan S: Making Open Access a Reality by 2020

A large, stylized orange number '8' logo is centered on the page. The logo consists of a thick orange line that forms a circle with a smaller circle inside it, and a vertical line that loops back to the top of the outer circle, creating a continuous shape.

Background to Plan S

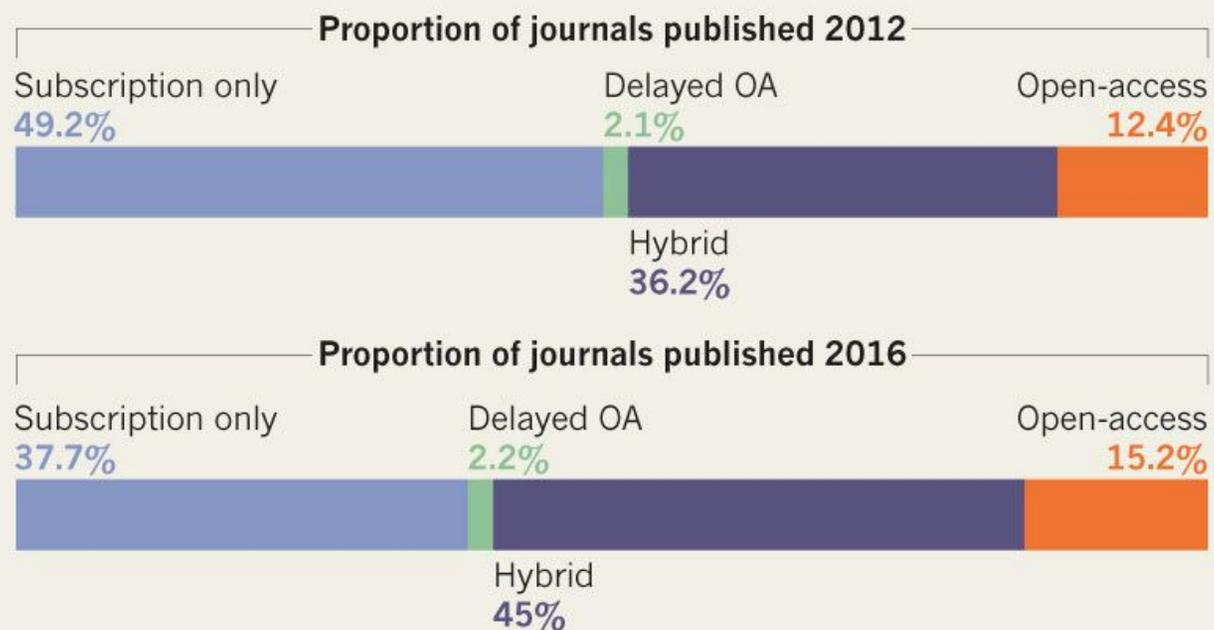
Principles and Declarations

- ⦿ 2002: Budapest Open Access Initiative 2002
- ⦿ 2003: Berlin Declaration 2003
- ⦿ 2013 and 2015 (updated): Science Europe Open Access Principles
- ⦿ 2016: European Council conclusions calling to reach goal of immediate Open Access by 2020
- ⦿ 2016: OA2020 Initiative

The Reality...

PUBLISHING MODELS

Worldwide, the proportion of subscription-only journals* shrank between 2012 and 2016, giving way to more open-access (OA) and hybrid journals.



*From Scopus database. Hybrid journals are subscription titles that allow authors to make individual papers open for a fee.

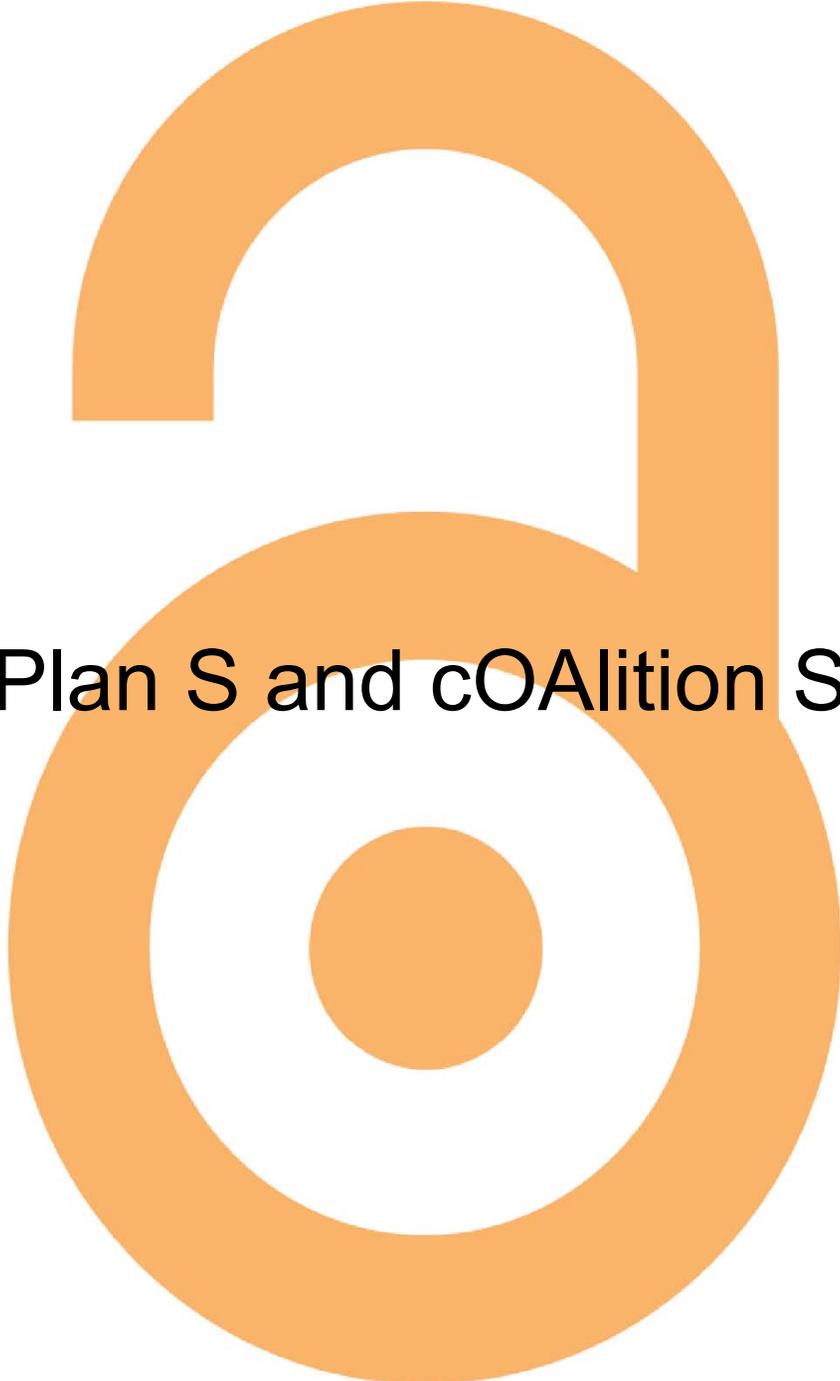
The Open Access Envoy of European Commission's mandate



28 February 2018

- **The Council Conclusions of 27 May 2016 on the transition towards an Open Science system state that all publicly funded scientific publications should be available in Open Access by 2020;**
- **The 2020 target is an achievable but demanding target, which can only be met with a clear roadmap, efficient coordination with Member States and an active dialogue with the publishing industry and other interested stakeholders;**
- **Decision to appoint a Senior Adviser for Open Access and Innovation to report on the state of play on Open Access in the EU and third countries and to come with concrete policy recommendations for the Commission by 30 June 2019;**

You will report to me, Vice President Ansip and Vice-President Katainen.



Plan S and cOAlition S

One Main Shared Objective

“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.”



The 10 Principles of Plan S

- ◉ Authors retain copyright of their publication with no restrictions. All publications must be published under an open license, preferably the Creative Commons Attribution Licence CC BY. In all cases, the license applied should fulfil the requirements defined by the Berlin Declaration;
- ◉ The Funders will ensure jointly the establishment of robust criteria and requirements for the services that compliant high quality Open Access journals and Open Access platforms must provide;
- ◉ In case such high quality Open Access journals or platforms do not yet exist, the Funders will, in a coordinated way, provide incentives to establish and support them when appropriate; support will also be provided for Open Access infrastructures where necessary;
- ◉ Where applicable, Open Access publication fees are covered by the Funders or universities, not by individual researchers; it is acknowledged that all scientists should be able to publish their work Open Access even if their institutions have limited means;
- ◉ When Open Access publication fees are applied, their funding is standardised and capped (across Europe);
- ◉ The Funders will ask universities, research organisations, and libraries to align their policies and strategies, notably to ensure transparency;
- ◉ The above principles shall apply to all types of scholarly publications, but it is understood that the timeline to achieve Open Access for monographs and books may be longer than 1 January 2020;
- ◉ The importance of open archives and repositories for hosting research outputs is acknowledged because of their long-term archiving function and their potential for editorial innovation;
- ◉ The 'hybrid' model of publishing is not compliant with the above principles;
- ◉ The Funders will monitor compliance and sanction non-compliance.



cOAlition S: Who is Involved?

National funders:

- ⊙ Austria: FWF
- ⊙ Finland: AKA
- ⊙ France: ANR
- ⊙ Ireland: SFI
- ⊙ Italy: INFN
- ⊙ Luxembourg: FNR
- ⊙ Netherlands: NWO
- ⊙ Norway: RCN
- ⊙ Poland: NCN
- ⊙ Slovenia: ARRS
- ⊙ Sweden: FORMAS
- ⊙ Sweden: FORTE
- ⊙ UK: UKRI

European funders:

- ⊙ European Research Council
- ⊙ European Commission

Charitable foundations:

- ⊙ The Wellcome Trust
- ⊙ The Bill & Melinda Gates Foundation
- ⊙ Riksbankens Jubileumsfond
- ⊙ Compagnia di San Paolo

Global dimension

Coordinated by:

**SCIENCE
EUROPE**
Shaping the future of research





First Reactions

cOAlition S | 16



Carlos Moedas @Moedas · Sep 4

I very much welcome and support today's launch of 'Plan S' and #cOAlitionS - a coalition of national research funders, w/ @EU_Commission's support - who have committed to accelerate the transition to open access of scientific publications. #OpenScience

→ europa.eu/1hw84rX



You, ERC Europe, EUScience&Innovation and 3 others

6 232 398



Nature News & Comment @NatureNews · Sep 4

#PlanS: from 2020, scientists funded by 11 major European agencies must make resulting papers free to read immediately on publication.



STM statement on Plan S: Accelerating the transition to full and immediate Open Access to scientific publications



Frédérique Vidal @VidalFrederique · Sep 4

Full support to @ScienceEurope who is making #OpenAccess a reality in 11 national research funding organisations including @AgenceRecherche through #cOAlitionS. A great initiative in total line with the Plan for #OpenScience launched by @French_Gov in July goo.gl/phS1xC



You, Sup-Recherche-Innov, Gouvernement and 4 others

2 15 33



The Economist @TheEconomist

Following

A new policy will prompt scientists to publish their work in open-access journals or accessible websites by 2020 #OpenFuture



eua @euatweets · Sep 7
EUA supports #PlanS, and its vision to accelerate the transition to full #OpenAccess, while also encouraging more national #research funders across Europe to adopt Plan S. Read the full position: bit.ly/2QhCazg



Kurt Deketelaere @KurtDeketelaere · Sep 4
.@LERUnews welcomes Plan S which has the potential to be a game changer in the move to full and immediate OA - all stakeholders must now sit together to make it a reality : leru.org/news/accelerat... @moedas @JEPaquetEU @ucylpay

LERU @LERUnews · Sep 4
Accelerating the transition to full and immediate #openaccess to scientific publications: LERU's reaction to #PlanS leru.org/news/accelerat...

LIBEREurope @LIBEREurope · Sep 4
LIBER Supports New Plan to Make #OpenAccess A Reality By 2020 libereurope.eu/blog/2018/09/0... #PlanS #openscience #libraries



Jon Tennant @Protohedgehog · Sep 4
11 EU countries conclude: from 2020 all scientific literature must be available free of charge.

That means no 'hybrid', no Nature, Science or Cell. Unless they all go 100% Open Access.

Nice to see the EU following Latin America, finally.

volkskrant.nl/nieuws-achterg... #PlanS



11 EU-landen besluiten: vanaf 2020 moet alle wetenschappelijke li...
Het is niets minder dan een revolutie. Vanaf 2020 mogen wetenschappers met belastinggeld betaald onderzoek niet meer publiceren in wetenschap...
volkskrant.nl

16 336 611

Marietje Schaake Retweeted
Marietje Schaake @MarietjeSchaake · Sep 4
Great news! #PlanS #openaccess

LIBEREurope @LIBEREurope
Key principles of #PlanS - From 2020, publications based on research funded by public grants from national and European research councils and funding bodies "must be published in compliant Open Access Journals or on...
Show this thread

Reactions from the Community

Hi

I am a student in India, and wished to thank you for advancing the decision to make science open and enable free access for all. As a student, I often struggled to get access to research papers or even articles written by the best researchers in my field.

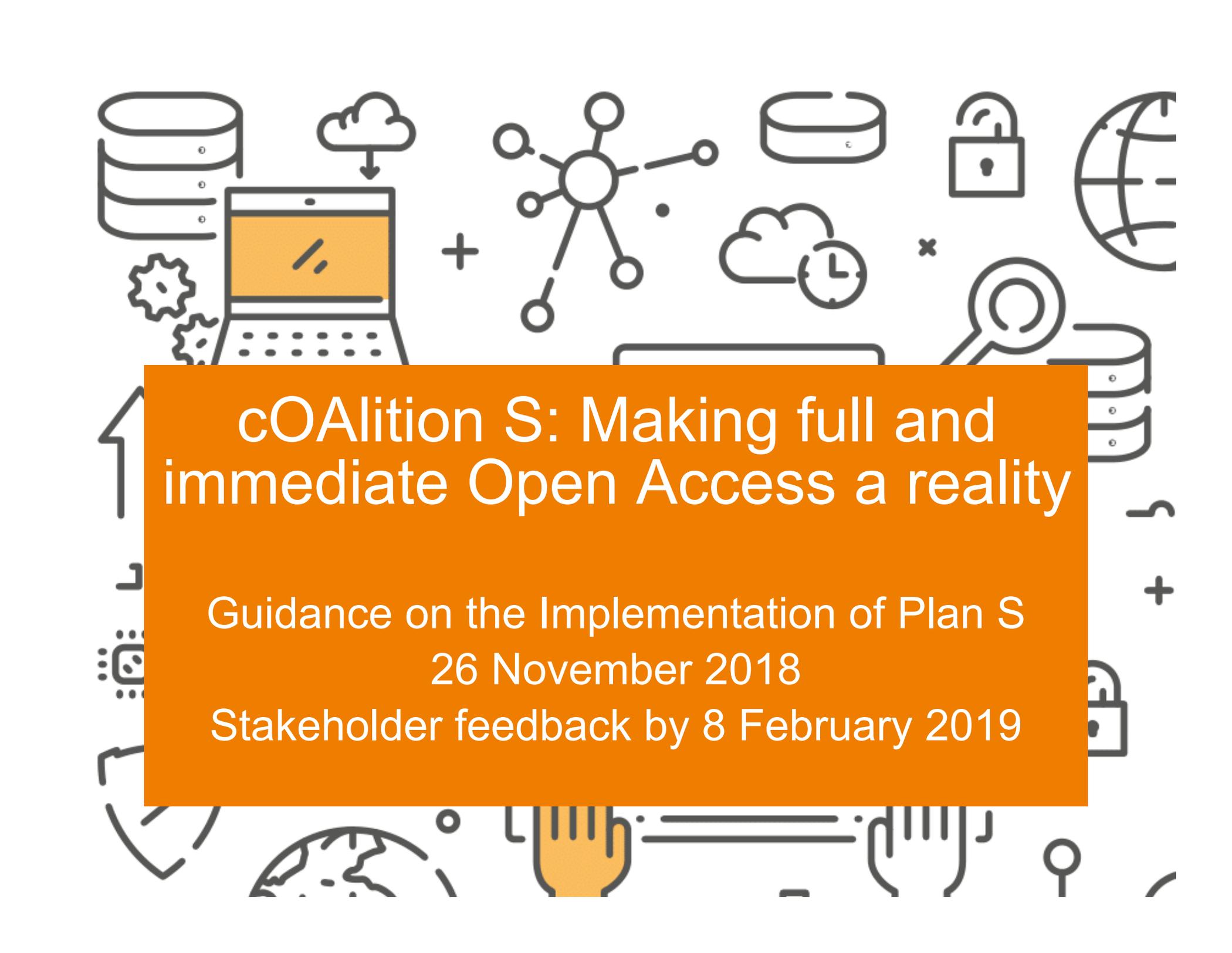
This step will enable countless students to learn freely without being blocked by insurmountable paywalls and researchers to focus on quality of research rather than quantity / perceived prestige of platform.

Thank you.

Best,

Aditya



The background features a collection of line-art icons in black and orange. These include a server rack, a laptop with a cloud download arrow, a network diagram with a central node, a hard drive, a padlock, a globe, a magnifying glass, a hand pointing, a clock, a gear, and a plus sign. The central text is overlaid on a solid orange rectangular background.

cOAlition S: Making full and immediate Open Access a reality

Guidance on the Implementation of Plan S

26 November 2018

Stakeholder feedback by 8 February 2019

Requirements for compliance

Open Access journals or Open Access platforms	Deposition of scholarly articles in Open Access repositories without embargo	Hybrid journals under Transformative agreements
<ul style="list-style-type: none"> • DOAJ registered 	<ul style="list-style-type: none"> • Version of Record (VoR) or Author's Accepted Manuscript (AAM) • OpenDOAR registered 	<ul style="list-style-type: none"> • Journal committed to a full OA transition • Collaborate with ESAC to register contracts

- CC-BY 4.0 license required. Rights retained by author/institution
- Scholarly articles reviewed according to the standards within the relevant discipline, and according to the standards of the Committee on Publication Ethics (COPE)



For More Information

🕒 <https://www.coalition-s.org/>

Thank you for your attention!
Robert-Jan Smits

