

Open Pharma workshop at the 2025 Researcher to Reader Conference

*More power to the reader: how can we improve research communication
by making content more readable?*

25–26 February 2025

Post-event report

More power to the reader

How can we improve research communication by making content more readable?

Objectives

In a crowded online world, we need **clear, concise, reliable scientific information** to make decisions about our research, environment and health.

Transparent reporting and plain language can **help non-specialists understand and use** scientific and medical research information and help **time-poor specialists** to keep up to date with developments in their field.

In this workshop, we will:

- explore the **value of readable research content** from multiple perspectives, with a focus on **plain language**
- explore the **barriers to implementation and dissemination** of plain language content
- co-create **recommendations to improve accessibility, readability and understandability** of research content for all readers
- identify **research gaps** that should be addressed.

Facilitators



Joana Osório

Communications Team Leader
Oxford PharmaGenesis



Laura Dormer

Co-founder and
Editorial Director
Becaris Publishing



Sarah Thomas

Publications and
Communications Senior Manager
Ipsen

Agenda

Tuesday 25 February | 10:30–11:30

The 'why': the need for understandable research content, with a focus on plain language

Aim: to explore the needs of different information seekers, how they engage with scientific literature, and the importance of plain language content to meet the United Nations Sustainable Development Goals.

Tuesday 25 February | 17:00–18:00

The 'how': implementation and dissemination of research summaries in plain language

Aim: to discuss minimum standards for plain language synopses; how to meet reader needs; and barriers to developing and publishing plain language content.

Wednesday 26 February | 10:00–11:00

The 'what next': reaching the readers

Aim: to co-create recommendations for how best to use plain language and other understandable research content formats to serve the needs of readers, highlighting research gaps that must be addressed to achieve this goal.

Wednesday 26 February | 16:00–16:30

Workshop feedback

The 'why'

The need for understandable
research content

Activity 1 | Understanding needs

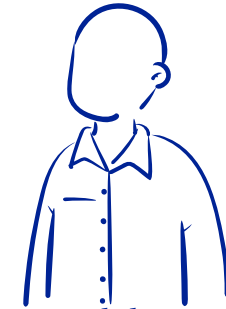
Each group will adopt the persona of a different information seeker.



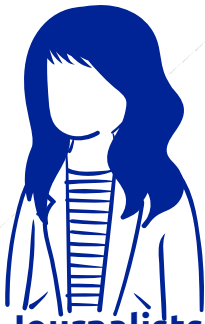
Policymakers



Authors and
researchers



Healthcare
professionals



Journalists

Over the next **30 minutes** you will consider the following questions:

1. **Why** do I need to be able to read and understand reliable scientific information?
2. **How** can I access reliable scientific information?
3. Which information formats are **most useful** for me?
4. What are the **consequences** if I can't read and understand reliable scientific information (related to UN SDGs)?

Each group will be asked to provide a summary of your discussions at the end of the activity.



Patients and
caregivers



Publishers

Activity 1 | Understanding needs

Summary of workshop discussions (1/4)



Patient/caregiver

Why do I need to be able to read and understand reliable scientific information?

- To know WHY – informed perspective on clinical advice and ability to judge
- To have confidence that advice is the best given available knowledge

How can I access reliable scientific information?

- Trusted sources
- Clear lay summaries
- Expert guidance – community regulated?

Which information formats are the most useful?

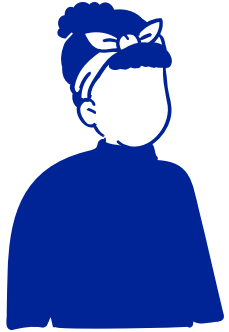
- TikTok
- Consumable
- Consumer-attractive formats
 - Video
 - Audio

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)?

- Language inaccessible
- Imbalanced conversation on health globally
- Life and death
- Inability to participate in decisions; over-reliance on doctors
- Lack of access to the best care
- Not educated in what I need

Activity 1 | Understanding needs

Summary of workshop discussions (2/4)



Author/researcher

Why do I need to be able to read and understand reliable scientific information?

- Not duplicating work that's already been done – building on it instead
- For 'novel' work, you need to know where to publish it (because there are gaps!)
- 'Shortcuts' can lead to lower processing/less understanding in the long term (e.g. AI summaries)

How can I access reliable scientific information?

- Institutional access to journals, books, and reports (grey literature)
- Indexes or bibliometric tools, e.g. Dimensions, Scopus, Web of Science
- Problems/challenges:
 - AI tools – summarizing research; question about the reliability element
 - OA licences – lack of knowledge
 - It should start earlier! Students are relying on a good supervisor, and you don't get that until Masters level.
 - Knowing where to look and understanding what citation can mean

Which information formats are the most useful?

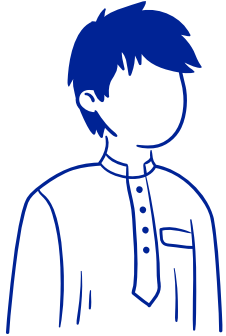
- Citable and findable resources, e.g. with a DOI
- Huge range of options – it's got to be flexible! (e.g. HTML – accessibility/optimized, PDF, print, video/audio)
- Datasets, figures – requirement for detail

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)?

- Misinformation!
- Slower progress towards the goal
- Lack of understanding can perpetuate in future generations of researchers

Activity 1 | Understanding needs

Summary of workshop discussions (3/4)



Policymaker

Why do I need to be able to read and understand reliable scientific information?

- Need to make research understandable to the public
- Versioning and retracting – how to track this
- Finding evidence to support policy making

How can I access reliable scientific information?

- Websites and trust markers for various publishers
- Open access – no direct subscriptions
- Direct contact with researchers: various points during process
- Indirect: team of researchers, partnerships or advisors
- Reviews and articles
- Wide range of research across the area – validate whole picture

Which information formats are the most useful?

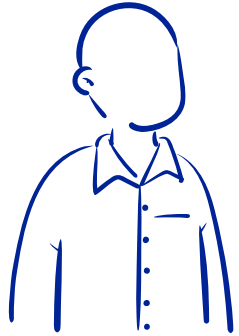
- Differentiate analysis and references
- Primary source versus summaries
- Data sets
- Plain language summaries – no jargon

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)?

- Not linking research to broad picture
- Delayed policy making
- Misinformation and poor policy decisions (e.g. if retracted/ out of date)

Activity 1 | Understanding needs

Summary of workshop discussions (4/4)



**Healthcare
professional**

Why do I need to be able to read and understand reliable scientific information?

- To do my job better
- So I don't kill anyone!
- So I can progress my career
- To offer better advice to patients and to colleagues

How can I access reliable scientific information?

- Language barriers – spoken and technical
- Discovery, especially anything that is not indexed
- Paywalls/registration walls
- How do I know what is 'reliable'?
- How do I find stuff in journals and not in journals?
- It is not just science, it is also policy, regulation and social science
- Time to absorb the information
- Journal article itself a barrier to anyone who's not an academic
- Via trusted influencers: peers, manager, librarian, professional association, influences on social media

Which information formats are the most useful?

- Ability to listen and watch on any device, including a phone
- Summaries and intros

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)?

- I can't do my job

The 'how'

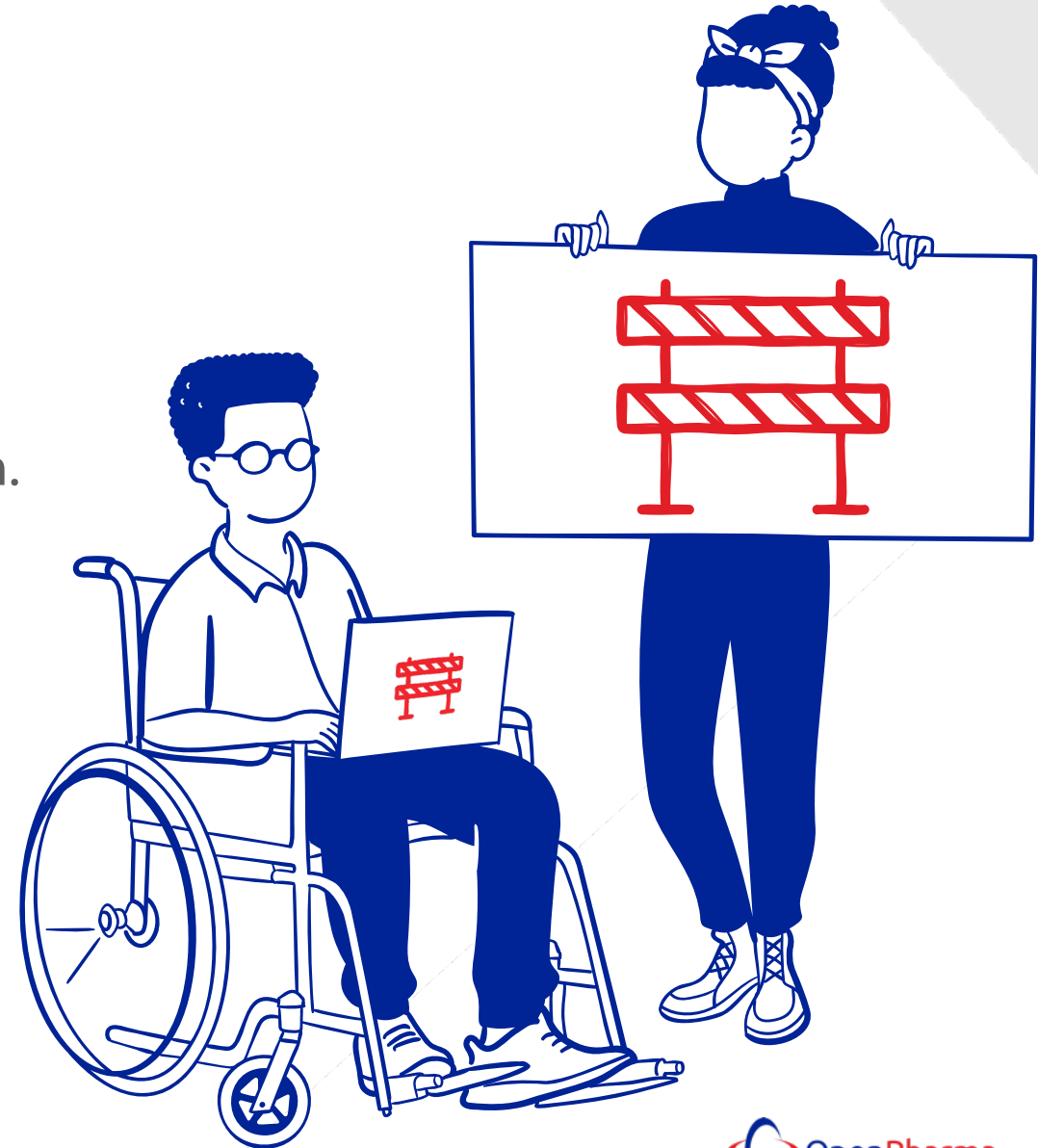
Implementation and dissemination of
research summaries in plain language

Activity 2 | Identifying barriers

Review the persona you developed this morning.

Spend the next **30 minutes** identifying **barriers** that could be preventing this reader group from **reading and understanding** scientific information.

Each group will be asked to provide a summary of your discussions at the end of the activity.



Activity 2 | Identifying barriers

Summary of workshop discussions



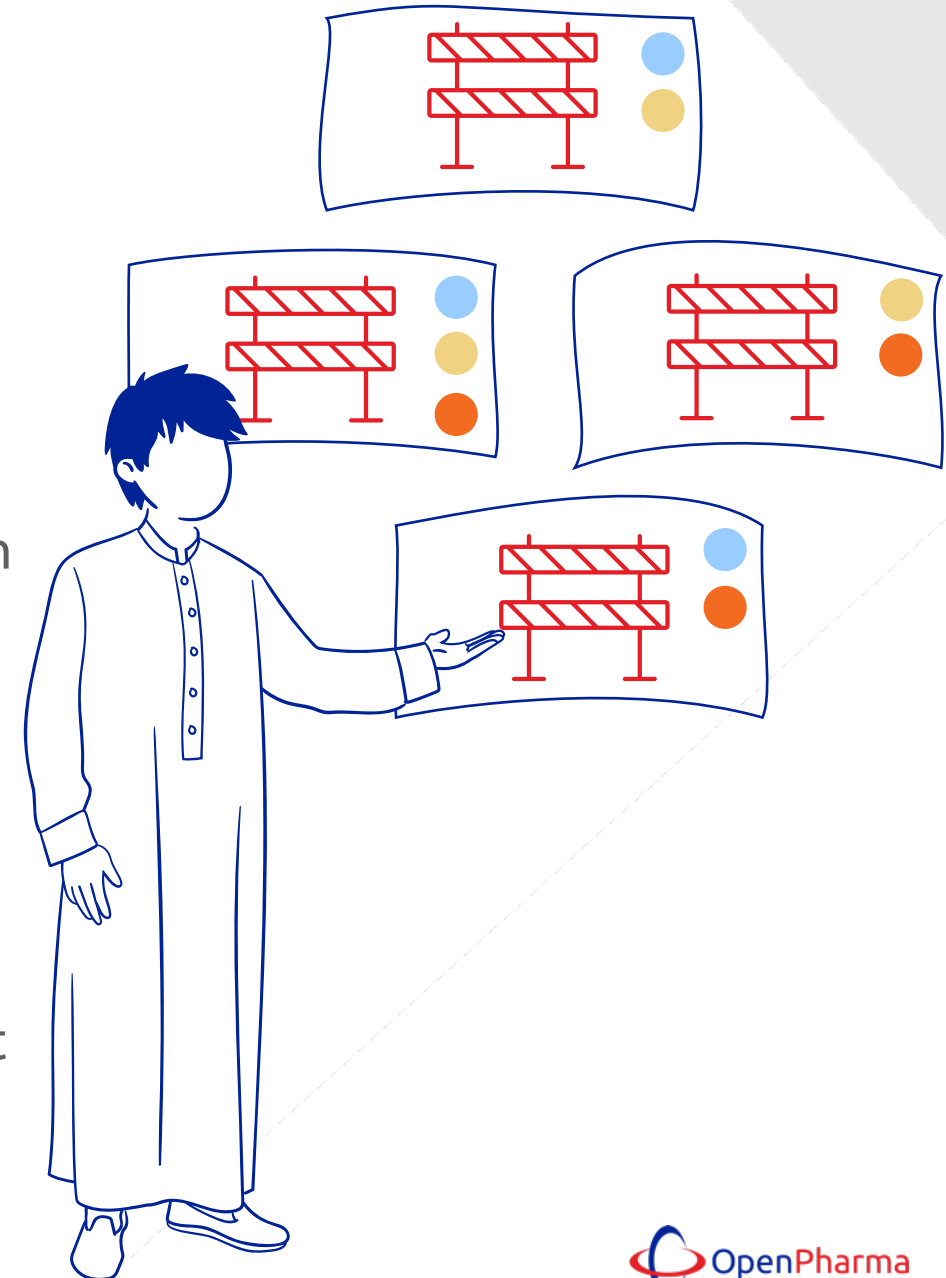
Activity 3 | Prioritization

Consider the barriers we identified during Activity 2.

You have **5 minutes** to identify the **three barriers** that you believe have the **greatest limiting effect** on the **implementation, dissemination and usage** of research information in plain language.

Use the three coloured stickers you have been given to place your votes.

We will consider solutions to the barriers with the most votes during tomorrow's session.



Activity 3 | Prioritization voting results



Misinformation and credibility

Audience-tailored content

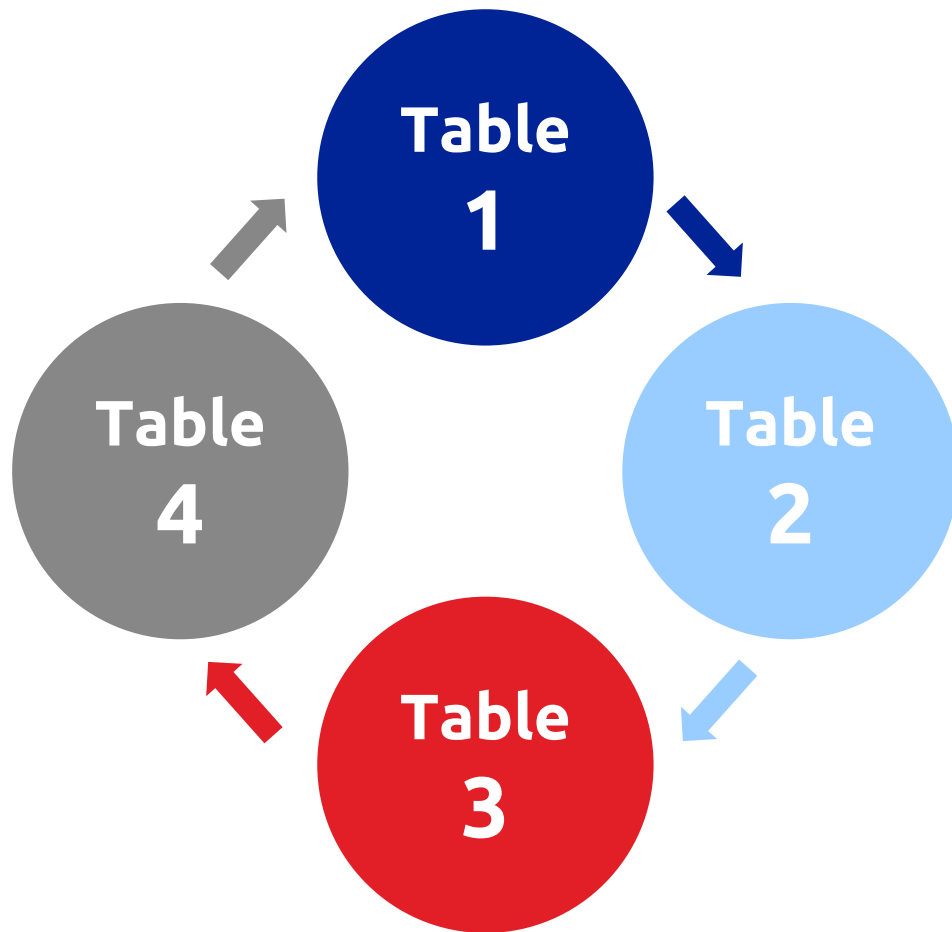
Literacy

Discoverability

The 'what next'

Reaching the readers

Activity 4 | Identifying solutions



4 tables

10 minutes discussion per table

1. Which stakeholder groups are affected by this barrier?
2. How could we address the barrier?
 - a. Are any resources required to help address this barrier?
 - b. Do any research gaps need to be addressed?
3. How can the solution best meet the needs of stakeholders?

Activity 4 | Identifying solutions

Summary of workshop discussions (1/4)



Misinformation and credibility

1. Which stakeholder groups are affected by this barrier?

- Patients and caregivers
- Policymakers
- Healthcare professionals

2. How could we address this barrier?

- Peer-review of lay summaries
- Mandate data
- Information, literacy and training
- Support systems for non-professionals
- Traffic-light system; something clear and consistent to immediately convey trust
- Institutional logos/trust markers
- Researcher 'TrustPilot'
- Public peer reviews – open processes and transparency
- Seeing the citations – who is referencing it and why?
- Pubpeer – post-publication reviews
- Link to related resources – community scrutiny
- Context for citations; historic or new, agree or disagree

a. Are there any resources required to help address this barrier?


- Critical thinking education
- Early education (high school) including questioning sources, etc.
- Training of publishers and editors to spot it at the start
- Sharing of problematic papers between publishers prior to publication

b. Do any research gaps need to be addressed?

- Transparent author records with good and bad info

Activity 4 | Identifying solutions

Summary of workshop discussions (2/4)

A large light blue circle containing the text "Audience-tailored content" in a white sans-serif font.

Audience-tailored content

1. Which stakeholder groups are affected by this barrier?

- Authors and researchers
- Policymakers
- Patients and carers
- Healthcare professionals
- Journalists

2. How could we address this barrier?

- Repurpose existing content into new formats and media
- Adapts authoring for lay summaries
- Different kinds of formats, i.e. podcasts (helps the time poor)
- Translations (e.g. spoken and technical, reliability)
- Older materials to be adapted as well as new research

a. Are there any resources required to help address this barrier?

- Education for researchers – what is done with research and how will it be used
- Creation of research in different formats and education about this
- Summarising sections relevant to the stakeholder

b. Do any research gaps need to be addressed?

- Data availability
- What works best for different people? Can different formats be created automatically?

3. How can the solution best meet the needs of stakeholder?

- Researchers: methods, data and references
- Policymakers: conclusions and next steps

Activity 4 | Identifying solutions

Summary of workshop discussions (3/4)

A large red circle containing the word "Literacy" in white text.

Literacy

1. Which stakeholder groups are affected by this barrier?

- All to varying extents, e.g. depending on familiarity with topic/jargon
- Patients and caregivers
- Policymakers
- Journalists (higher needs – less expertise in niche areas)

2. How could we address this barrier?

- A representative of the group sense checking on behalf of stakeholders
- Visualization and clear charts/graphs/infographics – easy for non-specialists
- Video formats – easier to digest info in short, clear snippets
- Plain language summaries and auto-tools
- Automatic translations
- Linkage to related resources and articles

a. Are there any resources required to help address this barrier?

- Early education on reliability of resources (information literacy)
- Advice for authors, e.g. knowing your audience
- Resource to automate and validate credibility

3. How can the solution best meet the needs of stakeholder?

- Multiple formats
- Versioning of content for different audiences, with automated views based on the user and the option to switch views
- Multiple language translations

Activity 4 | Identifying solutions

Summary of workshop discussions (4/4)

A large grey circle containing the word "Discoverability" in white text, representing the barrier being discussed.

Discoverability

1. Which stakeholder groups are affected by this barrier?

- All stakeholders

2. How could we address this barrier?

- Better metadata (to surface in search engines like google)
- Summaries available outside paywalls (with trust markers)
- Trust markers
- Better filtering systems
- Subject digest with informed and unbiased curation
- Linking out to other sources from the article
- Recommendations – systems, alerts and community newsletters
- Easy sharing tools (e.g. social media)
- Persistency – does the item still exist?
- Citation trails – keyword driven to surface content

a. Are there any resources required to help address this barrier?

- Metadata taxonomies
- (Crowdsourced) quality assurance index without regional bias

b. Do any research gaps need to be addressed?

- Engagement with search engines and indexes
- Cultural differences in perceptions of trust
- Educating readers on how to identify trustworthy sources

3. How can the solution best meet the needs of stakeholder?

- Use all kinds of search engines, not just google
- Meet needs for clarity and consistency
- Provider faster access to the information a reader needs (although risk of pigeonholing)

Key takeaways

To address the barriers identified, we need:

- **Critical thinking and education** around research information for non-specialists and about communication with multiple audiences for authors, publishers and editors
- Information in **non-technical language and languages other than English**
- A **variety of formats** tailored to different audiences and preferences (e.g. graphics, video, audio), and tailored to different information needs
- **Summaries** to help with information overload and online consumption of content
- **Peer review** of plain language summaries and other types of accessible content
- Improved discoverability through **better metadata** (including persistent identifiers), **indexing**, **clear versioning**, and **dissemination via non-scientific channels**
- **Trust markers**, transparency of peer review and retractions, clarity and consistency between publishers to counteract misinformation and promote credibility

*Open Pharma would like to thank the organizers of the Researcher to Reader Conference 2025 for allowing us to host this workshop.
Thank you to Joana Osório (Communications Team Leader at Oxford PharmaGenesis), Laura Dormer (Co-founder and Editorial Director at Becaris),
and Sarah Thomas (Publications and Communications Senior Manager at Ipsen) for facilitating the workshop.
We would also like to thank Ben Kaube, Cassie Bowman, Jade Koo, Jennifer Gibson, Michelle Herbert, Nazim Mohammedi, Riana Bahl, Ruth Miller,
Sarah Mckenna, Sarah Stanley, Simon Inger and Toby Green for participating in this workshop and sharing their valued contributions.*

Appendix

Why do I need to be able to read and understand reliable scientific information?

To know WHY

↳ Informed perspective
on clinical advice
+
ability to judge

To have confidence
that advice is the
best given available
knowledge.

TikTok

consumable

consumer-attractive formats

→ video ←

audio

Which information formats are most useful for me?

How can I access reliable scientific information?

clear lay summary
trusted sources - ?

expert guidance - community regulated?



Patient/caregiver

imbalanced conversation
on health globally

Life + death

Inability to participate
in decisions; over-
reliance
on docs.

Lack of access
to the best care



#3

#4 - noted or at least
what I need.

What are the consequences if I can't read and understand
reliable scientific information (related to SDGs)?

Why do I need to be able to read and understand reliable scientific information?

- Not duplicating work that's already been done
↳ building on it instead.
- For 'novel' work, you need to know where to publish it. (because there are gaps!)
- 'Shortcuts' can lead to lower processing / less understanding long term.
(eg AI summaries)

How can I access reliable scientific information?

- Institutional access to
 - journals
 - books
 - reports (grey literature)

~~- citeable & findable~~

- Indexes or bibliometric tools
eg. Dimensions, Scopus, WoS,

- Trust markers

Problems/challenges.

- AI tools - summarising research.
↳ Q about the reliability element!

- OA licenses. - lack of knowledge.

(it should start earlier!! students are relying on a good supervisor, and you don't get that until MA level)

- knowing where to look.
- understanding what a citation can mean.

- citeable & findable resources
eg with a DOI.

- huge range of options - it's got to be flexible!
 - HTML → accessibility/optimised.
 - PDF → comfort? physicality.
 - print.
 - video/audio?

- datasets, figures, - requirement for detail.

Author/researcher

- misinformation!
- slower progress towards the goals.

- lack of understanding can perpetuate in future generations of researchers.

Which information formats are most useful for me?

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)?

Why do I need to be able to read and understand reliable scientific information?

Need to make research understandable to the public.

Versioning / retracting
- how to track this

Differentiate:
- analysis
- reference

datasets

Finding evidence to support policy making

Primary source vs Summaries

Plain language summaries
- No jargon

How can I access reliable scientific information?

Websites
- trust makes for various publishers

OPEN ACCESS
- No direct subscriptions

Indirect
- team of researchers?
- full partnership or advisors

Direct contact with researchers:
Various points during process

All
Wide range of research across the area - a wider whole picture

Review articles

not linking research to broad picture

Personas:
- Government
- Think tanks
- NGOs

delayed policy making

misinformation
poor policy decisions



Policymaker

Policymaker

Which information formats are most useful for me?

What are the consequences if I can't read reliable scientific information (related

Why do I need to be able to read and understand reliable scientific information?

- to do my job better.
- so I don't kill anyone!
- so I can progress my career.
- to offer better advice - to patients
- to colleagues.

How can I access reliable scientific information? + barriers

- language barriers - spoken
- technical.
- discovery? esp. anything that's not indexed.
- are there paywalls/registration walls.
- how do I know what's "reliable"
- how do I find stuff in jals / not in jals.
- it's not just science, it's also policy/regulation
& social science.
- time to absorb the information.
- journal article itself a barrier to anyone who's not an academic.
- via trusted influences:
 - Locke peers
 - manager
 - librarian
 - non-local
 - influencer
 - or social media
 - prof assoc.

Healthcare professional

I can't do the above.

Which information formats are most useful for me?

- read
- listen
- watch.
- on any device incl. phone.
- summaries
- intro's.
- it's contextual.

What are the consequences if I can't read and understand reliable scientific information (related to SDGs)? — not relevant.

MISINFORMATION & CREDIBILITY

1

2.

2a

2b

PATIENT/
CAREGIVER
POLICYMAKER
HEALTHCARE
PROF.

PEER REVIEW
OF LAY
SUMMARIES

Critical
thinking
education

early education -
high school!
questioning
sources etc.

transparent
author records
- good & bad info

All of them

MANDATE
DATA

INFORMATION
LITERACY
TRAINING

Training of
publishers &
editors to spot
it at the start

SUPPORT
SYSTEMS
FOR NON-
SPEAKING
PROFESSIONAL

Sharing of
problematic
papers
prior to publicat.
btw publishers

traffic light
system - someth.
clear & consistent
to immediately
convey trust

Researcher
"Trust Pilot"

Public peer
reviews -
open process
& transparency

context for
citations
- historic vs new
- agree vs
disagree

Pub peer -
postpublication
reviews

Link to
related
resources -
community
scrutiny

AUDIENCE - TAILORED

CONTENT

1

AUTHOR / RESEARCHER
POLICY MAKER
PATIENT / CARE
HEALTH CARE
PROF.

Patient/caregiver
Policy maker
Author/researcher
Journalist

2

REPURPOSE
EXISTING CONTENT
INTO NEW
FORMAT/MEDIA

ADAPTING
AUTHORING
FOR 'LAY
SUMMARIES

Different kinds
of formats -
ie podcasts -
helps the time
poor

2. Translations
- spoken/technical
- reliability

Older materials
to be adapted
as well as new
research

2a

EDUCATION
FOR RESEARCH
- WHAT IS
DONE WITH
RESEARCH / HOW
WILL IT BE USED

Creation of
research in
different formats
- education on
this

SUMMARISING
SECTIONS
RELEVANT TO
THE
STAKEHOLDER

2b

DATA
AVAILABILITY

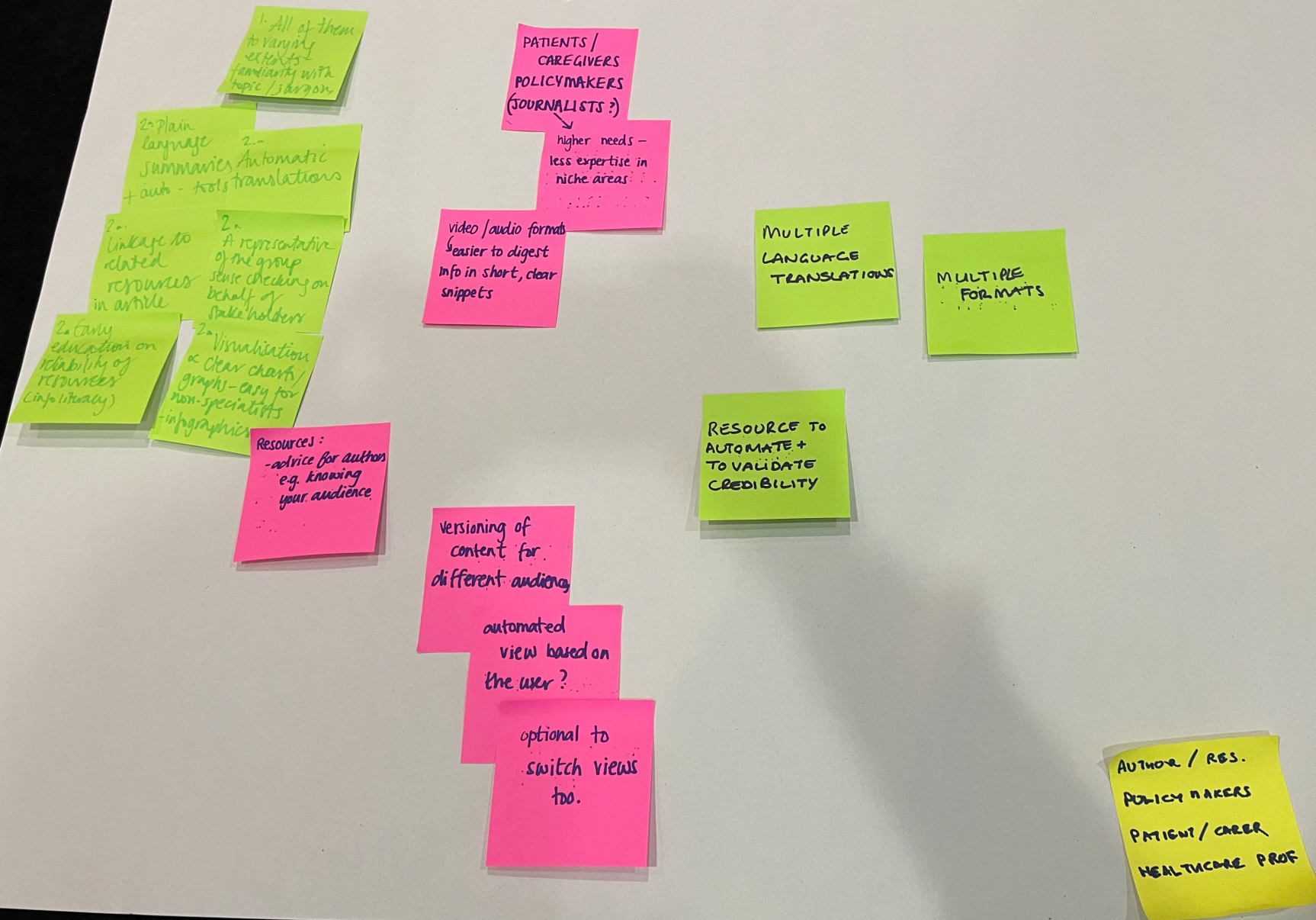
What works best
for different
people?
- can different
formats be
created automatically

3

Researcher:
- methods
- data
- references

Policymaker
- conclusions
(- next steps)

LITERACY



DISCOVERABILITY

ALL
STAKEHOLDERS
AFFECTED

All of them

AGREED

Linking out
to other
resources from
the article

Faculty Opinions
Systematic
reviews

Citation
trails -
keyword driven
to surface
content

Recommendations
- Systems
- Alerts
- Community
newsletters etc.

Easy sharing
tools, social
media etc.

Persistence of
the item -
does it still
exist?

BETTER
METADATA

(to surface in
s. engines like
Google)

gaps:
- engagement w/
search engines/
indexes

Using all kinds
of search
engines, not
just Google

Metadata
- Taxonomies
(SDGs)

SUMMARIES
AVAILABLE
OUTSIDE
PAYWALL
(WITH TRUST
MARKERS)

meeting needs:
- CLARITY
- CONSISTENCY

SUBJECT
DIGEST
- INFORMED
+ UNBIASED
CURATION

TRUST
MARKERS

gaps:
- cultural
differences
- educating
readers

BETTER
FILTERING
SYSTEMS

gaps:
- what is directly
relevant
- what is tangential
but helpful

meeting needs:
- faster to info
a reader needs
risk:
- pigeon-holing

COMMUNITY
CHANGE:
CROWD SOURCED
QUALITY

QUALITY
ASSURED
INDEX
WITHOUT REGIONAL
BIAS