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# HOW TO CHOOSE LICENSES FOR GREEN OA PUBLICATION AND RESEARCH DATA?

Short introduction to free digital tools

Tibor Faragó-Szilvási

Research support librarian



# OPEN LICENSES – DIGITAL TOOLS

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Two digital free applications for employing open licenses

- **Licence Chooser:** <https://chooser-beta.creativecommons.org/>
- **Licence Clearance Tool:** <https://lct.ni4os.eu/lct/login> (developed by NI4OS)



# COMMON PUBLICATION USAGE RIGHTS / LICENSES

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1. **All Rights Reserved:** The most restrictive form of copyright.
2. **Open Access (OA):** Open Access content is free to read and often to reuse. But the specific rights depend on the license.
3. **Public Domain (CC0 or expired copyright):** Use, modify, distribute freely — no attribution required.
4. **Fair Use / Fair Dealing:** Allows limited use without permission for purposes like: Commentary, Criticism, Teaching, Research



# OPEN LICENSES– WHY SHOULD WE USE LICENSES?

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Under international copyright laws (e.g., the [Berne Convention](#), which most countries follow):

- **Copyright is automatic** upon creation of a work.
- **No registration or notice** is required.
- This includes blog posts, images, datasets, source code, articles, videos, etc.

No one **can legally reuse**, copy, modify, or distribute content you find online **unless**:

- The author explicitly granted permission (via an open license or terms of use), **or**
- Your use qualifies as **fair use** (limited exceptions for commentary, parody, etc.), **or**
- The content is in the **public domain** (copyright expired or waived).

[https://www.wipo.int/treaties/en/ip/berne/?utm\\_source=chatgpt.com](https://www.wipo.int/treaties/en/ip/berne/?utm_source=chatgpt.com)



# OPEN LICENSES – WHAT CONCERNS ARE THERE?

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- Being afraid of intellectual property theft
- No knowledge on legal matters
- Complex licencing of reused data
- Research security



# OPEN LICENSES– WHY SHOULD WE USE LICENSES?

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## Importance of Licencing

- **Licensing ensures that intellectual property is reused in accordance with the copyright holder's rights.**
- **1. Protection:** Licensing defines how others can use your work, safeguarding your intellectual property rights and preventing unauthorized use or misuse.
- **2. Collaboration:** Licensing can facilitate collaboration and sharing, allowing you to specify the terms under which others can build upon or extend your work.
- **3. Legal Clarity:** Licensing provides a legal framework, making it clear to users what they can and cannot do with your work, reducing ambiguity and potential conflicts.



# OPEN LICENSES – OA ROUTES

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- **Gold Open Access:** Predefined licenses are typically available.
- **Green Open Access** or author's self-archiving: There are several factors to consider, but usually, a broader array of licenses is available to choose from.



# OPEN LICENSES – BEFORE YOU SUBMIT

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Before you submit an article, should check:

- **Funder Requirements:** Check the specific requirements of your research funder regarding open access publishing.
- **Institutional Requirements:** Similarly, consider any institutional requirements that may differ from those of your funder.
- **Journal/Publisher Policies:** Review the policies of your chosen journal or publisher regarding sharing preprints.
- **Repository Policies:** If you plan to share your content through a repository, be aware of their policies on content sharing.



## 6 Confirm that CC licensing is appropriate

I confirmed the appropriateness of CC licensing.

## 7 Attribution Details

Filling out this form is optional, but helps others attribute your work to you, and fills in machine-readable code.

### Title of Work

European Research Data Management Online Tool

### Creator of Work

Peter Pan

### Link to Work

<https://neverland.edu>

### Link to Creator Profile

[https:// neverland/creators.edu](https://neverland/creators.edu)

### Year Of Creation

2025

BACK

DONE

Start again

## MARK YOUR WORK

Choose the kind of work to get appropriate license code or public domain marking.

### Website **Print Work or Media**

If you are licensing or marking one work, paste the code next to it. If you are licensing or marking the whole page or blog, you can paste the code at the bottom of the page.

Rich Text

HTML

XMP

European Research Data Management Online Tool © 2025 by Peter Pan is licensed under CC BY-NC-SA 4.0    

license abbreviation  full license name

Copy



# LICENCE CLEARANCE TOOL







Our wizard guides you through the needed information for clearing your resources, facilitating openness and reproducibility in research.






Login via NI4OS AAI

[Explore the tool as a guest user](#)

Explore the tool as a guest user

-  Dashboard
-  Resource driven clearance
-  License driven clearance
-  License information

Login via NI4OS AAI

-  Dashboard
-  Resource driven clearance
-  License driven clearance
-  License information
-  My Clearances



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# LICENCE CLEARANCE TOOL



## Resource driven clearance

I have a resource and want to clear derivate work licenses

Ideal when you have a composite resource (e.g., software, dataset, multimedia) comprising multiple components, each potentially under different licenses, and you need to determine a suitable overarching license for the entire resource.



## License driven clearance

I have a target license and want to understand license compatibility for initial resources

Designed for situations where you have a specific target license in mind for your resource and need to verify if this license is compatible with the licenses of the components you're using.



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**1** Resource Information

**2** Licensing In

**3** Licensing Out

**4** Personal Data

**5** Other Rights

**6** Additional notes and clarifications

I am interested in: \*

Select a resource type ▼

- Select a resource type
- Software
- Hardware
- Font
- Tabletop Game
- Audio
- Other(Data, Content, etc)

Name of the new/generated resource



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## 1 Resource Information

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## 6 Additional notes and clarifications

I am interested in: \*

Software

Name \*

AI based skin cancer pre-tester diagnostic tool

Name of the new/generated resource

Description \*

The newly generated source is a comuter code that dives the optic diagnostic tool. The code contains pre-developed open source codes. ...

Description for the new/generated resource



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## 1 Resource Information

## 2 Licensing In

## 3 Licensing Out

## 4 Personal Data

## 5 Other Rights

## 6 Additional notes and clarifications

URL

URL to the existing resource if any

DOI

DOI of the new resource if any

Manager's Full Name \*

Fullname of the resource manager

Manager's Email \*

User's email address

NEXT STEP



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## 1 Resource Information

## 2 Licensing In

## 3 Licensing Out

## 4 Personal Data

## 5 Other Rights

## 6 Additional notes and clarifications

Resource Name \*

The Cancer Imaging Archive

Name of the existing resource being used by your resource

*Please provide information about the license(s) of each different element (subset) of the resource.*

Resource Description

CIA is a service which de-identifies and publishes medical images of cancer for download.

Resource description

URL

<https://www.cancerimagingarchive.net/>



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## 1 Resource Information

## 2 Licensing In

## 3 Licensing Out

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## 5 Other Rights

## 6 Additional notes and clarifications

DOI

DOI of the existing resource if any

Owner's fullname

Fullname of the owner of the resource

Owner's email

Email address of the owner of the resource

Type \*

Existing License \*

[Click here to view the added resources](#)

ADD RESOURCE

PREVIOUS

NEXT STEP

*Please provide information about the license(s) of each different element (subset) of the resource.*

Type \*

Select the type of the resource

Software

Hardware

Font

Tabletop Game

Audio

Other(Data, Content, etc)



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# 1 Resource Information

# 2 Licensing In

# 3 Licensing Out

# 4 Personal Data

# 5 Other Rights

# 6 Additional notes and clarifications

DOI

DOI of the existing resource if any

Owner's fullname

Fullname of the owner of the resource

Owner's email

Email address of the owner of the resource

Type \*

Existing License \*

[Click here to view the added resources](#)






ADD RESOURCE

PREVIOUS

NEXT STEP

Please provide information about the license(s) of each different element (subset) of the resource.

## Added Resources

#	RESOURCE NAME	SELECTED LICENSE	
1	The Cancer Imaging Archive	Creative Commons Attribution	
2	International Skin Imaging Collaboration	Creative Commons Attribution NonCommercial	
3	Simple Image Compare!	Apache License	
4	ResNet	BSD License	
5	GPT-NeoX	Apache License	

Close



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## Desired License \*

[Need help choosing a license?](#)

*This section provides information regarding the types of licenses under which the resource will be made available on the basis of the compatibility calculation. You may choose any type of license regardless of the type of resource selected in section 1 'Resource Information'.*

Software

Hardware

Font

Tabletop Games

Audio

Other(Data, Content, etc)

Select one of the compatible licenses for the new resource

PREVIOUS

NEXT STEP

## Software

- MIT License
- GNU General Public License
- BSD-like non-copyleft licenses
- WTFPL
- Unlicense
- Zero Clause BSD license
- Academic Free License
- Apache License
- Artistic License
- Beerware
- BSD License
- Boost Software License

1 Resource Information

2 Licensing In

3 Licensing Out

4 Personal Data

5 Other Rights

6 Additional notes and clarifications

Does the resource contain personal data?



*This section contains questions identifying the legal bases under which the resource may be lawfully processed.*

Does the resource contain a special category of personal data?



Are there personal data anonymised?



Are there personal data pseudoanonymised?



What is the legal basis for processing the data?

What is the legal basis for processing the data?

Consent

- Consent
- Contract
- Legal Obligation
- Vital Interests
- Public Task
- Legitimate Interests
- Special Categories of Data
- Criminal Offense Data

Consent



Information provided to the data subject

Data subject

an identified or identifiable natural person whose personal data are processed.

Legal Obligation: Relevant provisions

Article 6(1)(c) GDPR  
HIPAA  
State-level public health laws

Legal obligation

You can rely on this lawful basis if you need to process the personal data to comply with a common law or statutory obligation.

Public Interest: Justification

It contributes to the advancement of early detection methods for early cancer. Early diagnosis can significantly reduce healthcare burdens and improve public health outcomes. The project supports medical research and innovation aligned with public health priorities and benefits.

Public interest

You can rely on this lawful basis if you need to process personal data: in the exercise of official authority'. This covers public functions and powers that are set out in law.

Contract: Description of allowed processing

PREVIOUS

NEXT STEP



### National legislation limitations

Are there any limitations from national legislation in relation to the use of statistical information?

### National limitations

These may be security or other limitations.

### Statistical limitations

Specify any statistical limitation

### Statistical limitations

These are limitations on releasing resources on the basis of legislation for statistical confidentiality.

### Confidentiality agreements

Are there any confidentiality agreements in relation to the resource?

### Confidentiality: Describe

Describe any confidentiality

### Confidentiality agreement

These are agreements establishing a confidential relationship between the data provider and the data recipient. Such data cannot be disseminated without previous permission.

### Embargo period for the data?

Is there an embargo period for the data to be used?

### Embargo

The data issuer may impose time or geographical restrictions for the release of data.

Embargo conditions

Specify any embargo conditions

National Security limitations?

Are there any national security limitations in relation to the resource?

National Security limitations: Specify

Cultural heritage legislation limitations?

Are there any limitations related to the cultural heritage legislation?

Cultural heritage limitations: Specify

Cultural heritage limitations

These would normally require permission by a public authority, normally the ministry of Culture.

Has the resource been vetted by an Ethics Committee

PREVIOUS

[Névtelen]

NEXT STEP



### Additional notes and clarifications

Medical notes: "This software is provided for research or educational purposes only and is not intended for clinical use or diagnosis. It has not been approved by regulatory authorities (e.g., FDA, EMA). Use at your own risk."

"Users of this software agree not to use it for purposes that violate ethical standards, privacy, or medical data protection regulations."

PREVIOUS

SUBMIT



Are you sure you want to submit the assessment?

Yes, Submit!

Cancel

## Successful Submission

Your clearance request has been submitted successfully.

[Back to home](#)

[Download](#)



**Submitted!**

OK



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LCT  
License Clearance Tool

Submitted on 12 May 2025

RESOURCE-DRIVEN CLEARANCE SUBMISSION THROUGH LCT

FIRST NAME:

Tibor

LAST NAME:

Faragó-Szilvási

EMAIL:

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## Resource-driven Clearance Report

### Resource Information

I am interested in:	Software
Name	a
Description	a
URL	-
DOI	-
Manager's Full Name	a
Manager's Email	a@s.org

### Licensing In

#### Resource 1

Resource Name	The Cancer Imaging Archive
Resource Description	CIA is a service which de-ide[Névtelen] publishes medical images of cancer for download.
URL	<a href="https://www.cancerimagingarchive.net/">https://www.cancerimagingarchive.net/</a>
DOI	-
Owner's fullname	-
Owner's email	-
Type	Other(Data, Content, etc)
Existing License	Creative Commons Attribution
Existing License URL	<a href="https://creativecommons.org/licenses/by/3.0/legalcode">https://creativecommons.org/licenses/by/3.0/legalcode</a>

#### Resource 2

Resource Name	International Skin Imaging Collaboration
Resource Description	The dataset was generated by the International Skin Imaging Collaboration (ISIC) and images are from the following sources: Hospital Clínic de Barcelona, Medical University of Vienna, Memorial Sloan Kettering Cancer Center, Melanoma Institute Australia, The University of Queensland, and the University of Athens Medical School.
URL	<a href="https://challenge.isic-archive.com/data/#2020">https://challenge.isic-archive.com/data/#2020</a>
DOI	-
Owner's fullname	-
Owner's email	-
Type	Other(Data, Content, etc)
Existing License	Creative Commons Attribution NonCommercial
Existing License URL	<a href="https://creativecommons.org/licenses/by-nc/4.0/legalcode">https://creativecommons.org/licenses/by-nc/4.0/legalcode</a>

#### Resource 3

Resource Name	Simple Image Compare!
Resource Description	Easy image comparisons. A completely free and open source application.
URL	<a href="https://github.com/Sirosky/Simple-Image-Compare">https://github.com/Sirosky/Simple-Image-Compare</a>
DOI	-
Owner's fullname	-
Owner's email	-
Type	Software
Existing License	Apache License
Existing License URL	<a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a>

#### Resource 4

Resource Name	ResNet
Resource Description	ResNet-50 is CNN architecture that belongs to



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	the ResNet (Residual Networks) family, a series of models designed to address the challenges associated with training deep neural networks.
URL	<a href="https://github.com/adamcasson/resnet152/blob/master/resnet152.py">https://github.com/adamcasson/resnet152/blob/master/resnet152.py</a>
DOI	-
Owner's fullname	-
Owner's email	-
Type	Software
Existing License	BSD License
Existing License URL	<a href="https://opensource.org/licenses/bsd-3-clause">https://opensource.org/licenses/bsd-3-clause</a>

#### Resource 5

Resource Name	GPT-NeoX
Resource Description	GPT-NeoX is a 20 billion parameter autoregressive language model developed by EleutherAI. Trained on the Pile dataset, GPT-NeoX-20B is a dense autoregressive model with publicly available weights. This model, made freely accessible under a permissive license, offers advanced capabilities in language understanding, mathematics, and knowledge-based tasks.
URL	<a href="https://github.com/EleutherAI/gpt-neox">https://github.com/EleutherAI/gpt-neox</a>
DOI	-
Owner's fullname	-
Owner's email	-
Type	Software
Existing License	Apache License
Existing License URL	<a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a>

#### Licensing Out

Desired License	Apache License
Desired License URL	<a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a>

#### Personal Data

Does the resource contain personal data?	Yes
Does the resource contain a special category of personal data?	Yes
Are there personal data anonymised?	Yes
Are there personal data pseudoanonymised?	Yes
What is the legal basis for processing the data?	Consent
Information provided to the data subject	-
Legal Obligation: Relevant provisions	Article 6(1)(c) GDPR HIPAA.State-level public health laws: <a href="#">[Névtelen]</a>
Public Interest: Justification	It contributes to the advancement of early detection methods for skin cancer. Early diagnosis can significantly reduce healthcare burdens and improve public health outcomes. The project supports medical research and innovation aligned with public health priorities and benefits.
Contract: Description of allowed processing	-

#### Other Rights

National legislation limitations	No
Statistical limitations	-
Confidentiality agreements	No
Confidentiality: Describe	-
Embargo period for the data?	No
Embargo conditions	-

National Security limitations?	No
National Security limitations: Specify	-
Cultural heritage legislation limitations?	No
Cultural heritage limitations: Specify	-
Has the resource been vetted by an Ethics Committee	No

#### Additional notes and clarifications






#### Additional notes and clarifications

Medical notes: "This software is provided for research or educational purposes only and is not intended for clinical use or diagnosis. It has not been approved by regulatory authorities (e. g., FDA, EMA). Use at your own risk." "Users of this software agree not to use it for purposes that violate ethical standards, privacy, or medical data protection regulations."



## Submitted Clearances

View and Edit your clearances

#	RESOURCE NAME	SELECTED LICENSE	WORKFLOW	SUBMISSION DATE	ACTIONS
1	Egyptian Artifact in the Levant	Creative Commons Attribution	Resource-Driven	13/09/2023, 13:34:54	
<span>[Névtelen]</span> 2	Archeo2	Creative Commons Attribution	Resource-Driven	16/10/2023, 09:46:30	
3	Archeo3	Creative Commons Attribution	Resource-Driven	17/10/2023, 11:22:13	
4	AI powered cancer risk mapping	CC0	Resource-Driven	26/10/2023, 12:05:42	
5	a	Apache License	Resource-Driven	12/05/2025, 13:47:37	



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# TOVÁBBITÁJÉKOZÓDÁSHOZ

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Creative Commons: <https://creativecommons.org/share-your-work/>

Open Source Initiative approved licences <https://opensource.org/licenses>



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# Research Security and Open Science in the European Union

Tibor Faragó-Szilvási  
Research support librarian



# THE DUAL IMPERATIVE – OPENNESS AND SECURITY

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- **Ensure it is as secure as necessary to protect European values, rights, and strategic interests**
- **Keep research as open as possible to drive excellence and innovation.**



Resource Title	Date	Publisher / Source	Contents Summary	Relevance
<a href="#">Council Recommendation on Enhancing Research Security</a>	May 2024	Council of the EU	29 recommendations for Member States to manage foreign interference, due diligence, and dual-use technology risks	Core legal and policy framework for research security in the EU
<a href="#">European Charter for Access to Research Infrastructures</a>	November 2024	European Commission, DG R&I	Principles for open access, non-discrimination, legal conformity, and integration of FAIR/open science policies	Defines open access while aligning with research security needs
<a href="#">European Economic Security Strategy (JOIN/2023/20)</a>	June 2023	European Commission	Introduced EU-wide approach to economic resilience; identified tech areas for risk assessments	Foundation for EU tech-related security assessments
<a href="#">Commission Recommendation (EU) 2023/2113 - Critical Technology Areas</a>	October 2023	European Commission	Listed 10 key technology domains vulnerable to misuse; basis for targeted risk assessments	Directly linked to research security priorities and technology-specific policies
<a href="#">ERA Policy Agenda 2025-2027 (Proposal)</a>	February 2025	European Commission	Sets future priorities for EU R&I, including open science, research security, and AI integration	Updates strategic direction for ERA and introduces new monitoring mechanisms
<a href="#">Cyber Resilience Act (CRA)</a>	Adopted Oct 2024	European Parliament & Council	Introduces mandatory cybersecurity requirements for digital products, including research software	Impacts digital research security and data infrastructure
<a href="#">European Open Science Cloud (EOSC) - Roadmap Updates</a>	March 2025	EOSC Association / European Commission	Federation of research data infrastructures across EU; supports FAIR data, access control, and secure sharing	Promotes secure open science through infrastructure
<a href="#">SIPRI Report on Research Security and Export Controls in Academia</a>	March 2025	Stockholm International Peace Research Institute (SIPRI)	Explores how universities manage export controls and dual-use risks in research collaborations	Independent expert view; provides practical insights into research-security policy integration
<a href="#">“Super Grant” Campaign - EU Strategy to Attract Global Researchers</a>	May 2025	European Commission	Initiative to protect and promote scientific freedom, legal safeguards, and funding excellence	Shows how research security complements openness and academic freedom
<a href="#">European Code of Conduct for Research Integrity (Revised)</a>	2023	ALLEA / ESF	Lays down principles for reliability, honesty, respect, and accountability in science	Forms ethical backbone for secure and responsible international collaboration



# RESEARCH SECURITY AND OPEN SCIENCE IN THE EUROPEAN UNION

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two core documents:

- **The Council Recommendation on Enhancing Research Security (May 2024)** and
- **The European Charter for Access to Research Infrastructures (2024 Update).**



# THE BACKGROUND – WHY RESEARCH SECURITY MATTERS

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„Openness, international cooperation, and academic freedom are at the core of world-class research and innovation.” (C/2024/3510 )

the EU recognizes that:

- Rising geopolitical tensions,
- Strategic competition,
- Foreign interference, and
- The misuse of critical technologies



# CRITICAL TECHNOLOGY AREAS

Technology Area	Key Risks	EU Policy Responses
Advanced Semiconductors	IP theft, foreign dependency, sabotage of supply chains	Support EU Chips Act, investment in domestic production, export screening, Horizon Europe safeguards
Artificial Intelligence (AI)	Misuse in surveillance, military AI, bias manipulation, deepfakes	Ethical AI frameworks, research funding with risk screening, guidelines on data transparency
Quantum Technologies	Espionage, disruption of encryption, dual-use (e.g. military navigation)	Export control alignment, due diligence on partnerships, critical risk assessment in funding decisions
Biotechnologies	Bioterrorism, synthetic pathogens, misuse of CRISPR/gene editing	Bioethics oversight, containment protocols, screening of dual-use research, enhanced risk appraisal
Advanced Connectivity (5G/6G)	Espionage via infrastructure, backdoors, dependency on third-country tech	Telecom security measures, strategic supplier vetting, interoperability standards, cyber hygiene training
Advanced Sensing Technologies	Surveillance misuse, battlefield applications, cross-border tracking	Risk-based access to RIs, export screening, data protection compliance
Space & Propulsion	Dual-use for missiles, satellite control, military surveillance	ESA-EU coordination, international partnership screening, compartmentalized access to sensitive projects
Energy Technologies	Cyberattacks, sabotage, foreign control over energy R&D and critical inputs	Diversification strategies, cyber-secure research platforms, EU-wide cooperation on energy resilience
Robotics & Autonomous Systems	Weaponization, surveillance, misuse in conflict zones	Ethics guidelines, remote access monitoring, funding scrutiny for civil-military crossover



# WHO'S INVOLVED? THE STAKEHOLDERS

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Key players include:

- **European Commission** – Setting guidance and coordinating with Member States.
- **Member States** – Developing national-level risk assessment and security protocols.
- **Research Performing Organisations (RPOs)** – Universities and research centres on the frontlines of international collaboration.
- **Research Funding Organisations (RFOs)** – Setting funding conditions that include security screening.
- **Private Sector**, particularly start-ups and high-tech SMEs involved in dual-use research.
- **International Partners**, through strategic dialogues and cooperation platforms.



# ROLE OF RESEARCH FUNDERS AND PERFORMERS

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Funders are encouraged to:

- Integrate risk assessments into grant applications,
- Monitor international partnerships,
- Include clauses for IP protection and ethical use in international agreements

Meanwhile, universities and labs are advised to:

- Develop in-house security guidelines,
- Provide staff training,
- Report suspicious behaviour, and
- Ensure infrastructure, like servers and lab access, meets cybersecurity standards



# THE OPEN SCIENCE VISION

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EU continues to promote **Open Science** that includes:

- **FAIR** handling of research data
- **Open access** to publications and data
- **Transparent** research methodologies
- **Public engagement** and knowledge dissemination

The European Charter for Access to Research Infrastructures (2024) emphasizes that:

- **Access** should be inclusive and non-discriminatory.
- **Open data** must respect security and ethical boundaries.
- **Remote and hybrid access models** should enable collaboration without compromising integrity



# THE TENSION – OPENNESS VS SECURITY

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Here lies the **central tension**:

- **Open science** requires *transparent, international cooperation*.
- **Research security** demands *restrictions, due diligence, and sometimes limited access*.

**"As open as possible, as closed as necessary"**.

The Recommendation makes it clear that the EU must **resist false dichotomies**:

- It is not a choice between security and openness.
- It is not about ending collaboration, but about making it **responsible and risk-aware**.
- It is not about retreating into isolationism, but about **strengthening resilience**.



# PRACTICAL RECOMMENDATIONS

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- **For the European Commission and Member States**
- **For Research Institutions**
- **For Researchers**
  - Remain committed to **open science principles** while understanding their responsibilities in the broader political context.
  - Conduct due diligence when engaging with **international collaborators**, particularly from countries with opaque or militarized research structures.
  - Engage in **public communication** about the value of open, ethical science and the risks of misuse.





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Thank you all for joining today—  
both in person and online!

**Tibor Faragó-Szilvási**  
Research support librarian

