

## **European IP Helpdesk**

Stay ahead of the innovation game.

# **European IP Helpdesk Ip and Open Science**

24.10.2024





## **European IP Helpdesk**

- Service initiative of the European Commission
- Addressing current and potential beneficiaries of EUfunded projects, researchers and EU SMEs
- Free-of-charge first-line support on intellectual property (IP)
- Hands-on IP and innovation management support
- International pool of IP experts from various thematic fields
- Unique cooperation scheme with the Enterprise Europe
   Network: 43 ambassadors from 26 EU countries





Ambassadors
local IP support throughout
Europe



frequent updates from the world of IP and innovation



practical IP knowledge through high-level publications



info point at key networking events and conferences



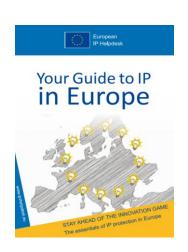


## The EC IP Helpdesks





## EC IP (SME) Helpdesk Hub – Gateway to Information











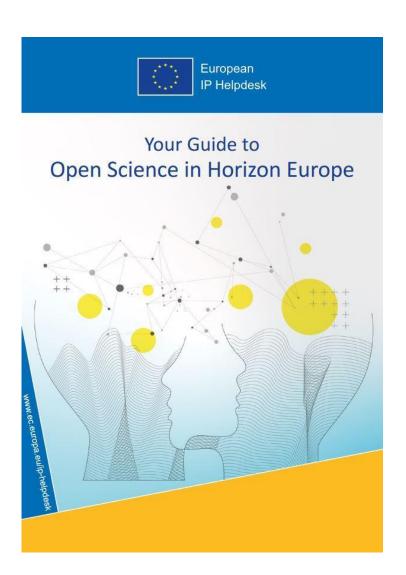


- E-learning modules & more
- Guides / Topic, country, sector-specific factsheets / Infographics
- Case studies



## Out Now: Your Guide to Open Science in Horizon Europe

- Open science promotes transparency, accessibility, and collaboration in scientific research
- This Guide helps readers understand OS, offering explanations and guidelines for those preparing or already implementing a Horizon Europe project proposal.





#### **Ambassador Scheme**

- Cooperation scheme with the Enterprise Europe Network (EEN): 43 ambassadors – 26 countries
- Building IP capacities among European SMEs
- Overcoming language barriers
- Making the topic more accessible
- Exchange and feedback from ambassadors on needs of SMEs
- Local awareness and training events



## **Upcoming events**



24 OCT 2024 Training and workshops

EU-13 Roadshow: Strengthening IP Awareness and Community Engagement in the Widening Countries - Novi Sad

Novi Sad. Serbia

OCT

Training and workshops

EU - Webinar: IP & Open Science

2024

(-) Live streaming available

2024

Training and workshops

EU-13 Roadshow: Strengthening IP Awareness and Community Engagement in the Widening Countries - Brno

Brno-Medlánky, Czechia

Training and workshops

EU - Webinar: Freedom to Operate

2024

( ) Live streaming available

30 2024 Training and workshops

EU - Webinar: IPR and Software

(+) Live streaming available

Training and workshops

Webinar: IP in EU funded projects with a special

focus on MSCA

(+) Live streaming available

13 NOV 2024 Training and workshops

EU - Webinar: IP and Artificial Intelligence -Advanced

(+) Live streaming available

NOV

Training and workshops

EU - Webinar: Consortium Agreements

(iii) Live streaming available





- Enhance the dissemination of IP-related knowledge
- Provide innovation support to SMEs, researchers, and EU beneficiaries from EU-13 and Widening countries.

Register for Novi Sad, Serbia

Register for Brno, Czechia



## Thank you!

- www.ec.europa.eu/ip-helpdesk
- <u>helpline@iprhelpdesk.eu</u>
- training@iprhelpdesk.eu
- X @iprhelpdesk
- LinkedIn /european-ipr-helpdesk
- Subscribe / Newsletter





### **About me**

BSc (Physical) Chemistry (*Exon UK*)
PhD Neutron Science (*Exon UK*)

Harwell (UK), Rutherford Appleton (UK), ILL Grenoble (FR)

Royal Society of Chemistry, Institute of Physics,

Science Council (UK)

HM Govt, X-ray, electron, laser beam microanalysis

Looooooooooong time at European Patent Office (NL, AT)

Patent examiner (electron and ion optics) IT manager, internet

services Espacenet et al, manager, research manager

Consultant; bring worlds of STEM and IP together IPHelpdesk,

EUIPO, WIPO

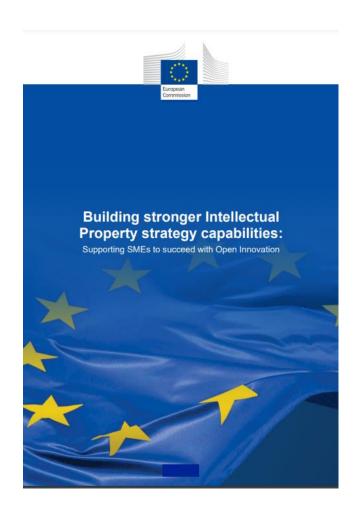
Cambridge University Technology Management teaching and research (*Cantab UK*) Visiting Fellow





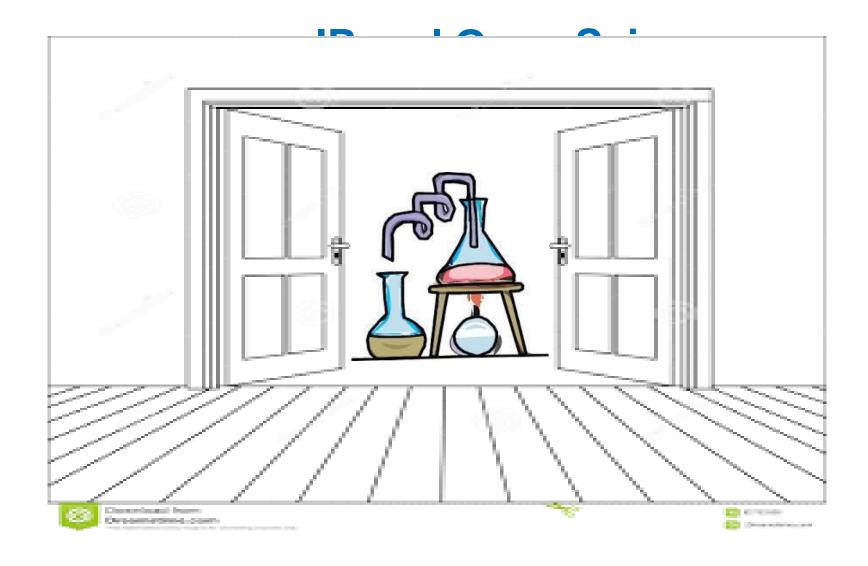
## **Acknowledgements**

- Dr Eugene Sweeney
  - lambic Innovation
- Prof. Frank Tietze et al
  - IIPM Cambridge University
- Dr Teresa Gomez-Dias
  - CNRS
- Torie Eva
  - Elsevier
- Katie Eve
  - Elsevier



Teresa Gomez-Diaz, Tomas Recio. Towards an Open Science definition as a political and legal framework: sharing and dissemination of research outputs. *Polis*, 2020, 19, pp.5-25. (hal-03318932) https://data.europa.eu/doi/10.2826/527592









## **IP and Open Science**

# Capacity Building

Early stage Researchers





- Intellectual Property
- An agreed system (to reward and encourage innovation)
- Backed up by law

- "Openness"
- A movement (to support and enhance innovation)
- Backed up by culture



## Roadmap

What is IP?

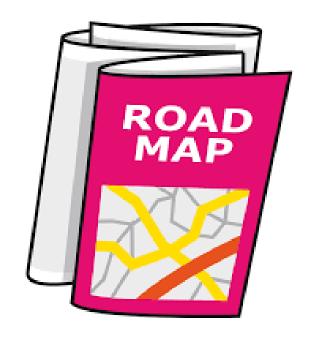
What is Open? Kinds of "openness"

IP cf Open Science

Secrecy vs disclosure

IP sharing Closed vs Open

Scholarly publishing





## Roadmap

What is IP?

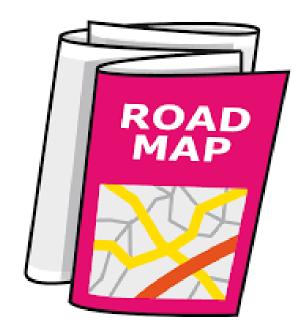
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## What is Intellectual Property?

- Ideas
- Product of mental creation
- Inventions
- Works of art
- Literature









## What are Intellectual Property Rights?

#### **Registrable Rights**

- Industrial Property Rights
- Patents
- Trademarks
- Industrial designs
- Utility models

#### Non Registrable Rights

- Copyright
- Authors rights, performance rights
- Trade secrets
- Confidential Information
- Know-how
- Show how
- Goodwill



## Roadmap

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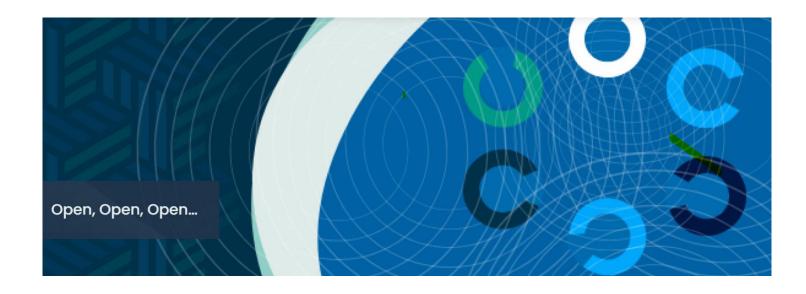
Secrecy vs disclosure

IP sharing Closed vs Open

Scholarly publishing









by Eugene Sweeney, lambic Innovation Ltd





Providing researchers with the skills and competencies they need to practise Open Science

Open Science Skills Working Group Report

Written by the Working Group on Education and Skills under Open Science July – 2017





Monitoring the open access policy of Horizon 2020

Final Report



https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science\_en



## **Open Science and IP**

https://research-andinnovation.ec.europa.eu/system/files/2022-04/ec\_rtd\_open-science-and-ip-report.pdf







## European IP Helpdesk Bulletin / December 2023, Open Science

https://intellectual-propertyhelpdesk.ec.europa.eu/publications/europeanip-helpdesk-bulletin-december-2023-openscience en



#### **OPEN SCIENCE**



Open Science, a priority for programmes like Horizon Europe, focuses on freely sharing research results without barriers or pay-walls.



Practices include Open Access to scientific publications and data, adhering to **FAIR principles** for responsible data management.



Engages stakeholders across the value chain to promote innovation and interdisciplinary research.

#### **OPEN ACCESS**



Open Access in Horizon Europe involves making scientific publications and data **freely available** without restrictions.



Enables further research, development of new innovations, and validation of results.





## **Open science**

 Open science is the movement to make scientific research (including publications, data, physical samples, and software) and its <u>dissemination</u> <u>accessible</u> to all levels of society, amateur or professional

https://en.wikipedia.org/wiki/Open\_science



## Open science

- Open science practices include
- > early and open sharing of research (for example through preregistration, registered reports, preprints, or crowd-sourcing);
- research output management;
- measures to ensure reproducibility of research outputs;
- providing open access to research outputs (such as publications, data, software, models, algorithms, and workflows); participation in open peer-review;
- > involving all relevant knowledge actors including citizens, civil society and end users (citizen science)



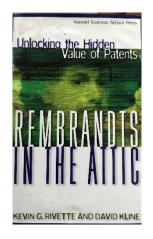
## **Open Access**

**Open access** (**OA**) is a set of principles and a range of practices through which <u>research</u> outputs are distributed online, free of access charges or other barriers. Under some models of open access publishing, barriers to copying or reuse are also reduced or removed by applying an <u>open license</u> for copyright.

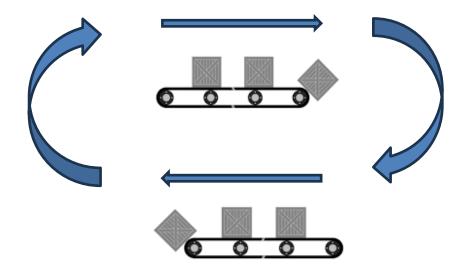
https://en.wikipedia.org/wiki/Open\_access



1999



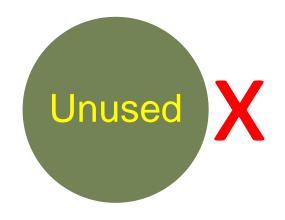
Your results



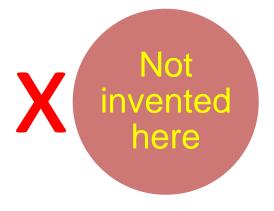
2003



Others' results









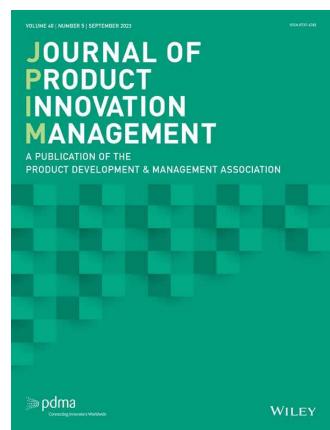
## [Open innovation]

Intellectual property and open innovation ... enemies or friends?

<u>Journal of Product Innovation Management</u>

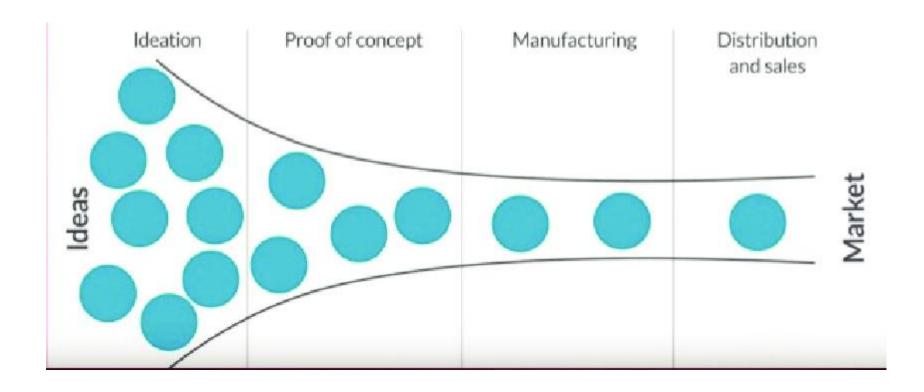
https://onlinelibrary.wiley.com/doi/10.1111/jpim.12668

Anja Tekic, Kelvin W. Willoughby, Johann Füller

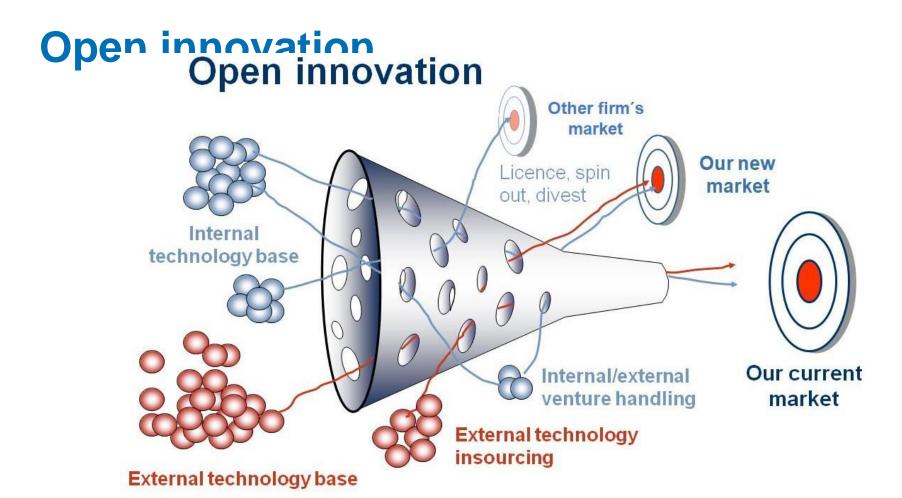




## [Innovation]







https://www.eoi.es/blogs/imsd/innovation-what-is-open-innovation/



## **Open source**

Generally, open source refers to software in which the <u>source code</u> is available to the general public for use or modification from its original design. Code is released under the terms of a <u>software license</u>. Depending on the <u>license</u> terms, others may then download, modify, and publish their version (fork) back to the <u>community</u>.

https://en.wikipedia.org/wiki/Open\_source



## **Open standards**

An open standard is a standard that is freely available for adoption, implementation and updates. A few famous examples of open standards are XML, SQL and HTML. Businesses within an industry share open standards because this allows them to bring huge Value to both themselves and to customers.

Fair

Reasonable

And

Non-discriminatory



## [Standards and IP]

A standard essential patent is a patent that protects technology that is essential to implementing a standard. A standard is an agreed or established technical description. It is also referred to as a 'technical standard' or 'technical interoperability standard'.

SEP

Standard

Essential

Patent

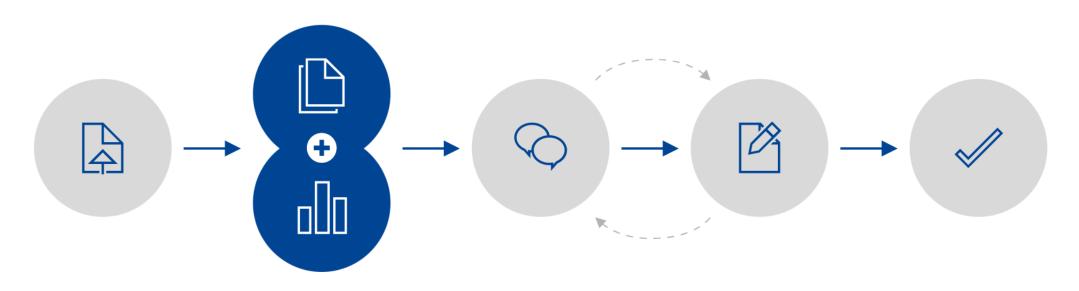


## **European Openness Initiatives - 1**

- Open Research Europe
- Rapid & Transparent Publishing
- Fast publication and open peer review for research stemming from Horizon 2020,
   Horizon Europe and Euratom funding across all subject areas.
- Browsable web site <a href="https://open-research-europe.ec.europa.eu/">https://open-research-europe.ec.europa.eu/</a>



## **European Openness Initiatives - 2**



**Article Submission** 

**Publication & Data Deposition** 

Open Peer Review & Article Revision

Send to Indexers & Repositories



## European Openness Initiatives - 3 European Open Science Cloud





https://eosc-portal.eu/





## Open-

- -Science
- -Innovation
- -Access
- -Data





## **Open Science in Horizon Europe**

Mandatory and Pecommanded Practices

#### **Mandatory**

- early and open sharing of research (for example through preregistration, registered reports, pre-prints, or crowd-sourcing)
- research output management including research data management
- measures to ensure reproducibility of research outputs
- providing open access to research outputs (e.g. publications, data, software, models, algorithms, and workflows) through deposition in trusted repositories

#### Recommended

- participation in open peer-review
- involving all relevant knowledge actors including citizens, civil society and end users in the co-creation of R&I agendas and contents (such as citizen science)



## **Open Science**

### **Open Access**

#### **MANDATORY**

for Horizon projects

for scientific publications

for **research** data

Can opt out if there are legitimate reasons

As open as possible

As closed as necessary

Enhances innovation capacity

Its NOT about making results free for commercial use

**Validates** research results and data

For scientific publications immediate open access through trusted repository will be expected.



## **Open** ≠ unprotected or no IPR

**Copyright** protects the scientific publication

**Copyright** protects (creative) data

Database right protects the collection if there has been a "substantial investment" in obtaining, verifying or presenting the contents of the database

Other protection for other aspects of the creation/invention (IP Rights, secrecy, NDA, contracts, etc)

J. Albors \*, E. Sweeney & A. Hidalgo (2005) Transnational technology transfer networks for SMEs. A review of the state-of-the art and an analysis of the European IRC network, Production Planning & Control, 16:4, 413-423, DOI: 10.1080/09537280500063434

#### "TRANSNATIONAL TECHNOLOGY TRANSFER NETWORKS FOR SMES, A REVIEW OF THE STATE-OF-THE ART AND AN ANALYSIS OF THE FURGIFIAN IRC NETWORK"

José Albors G\*, Eugene Sweeney \*\*

\* Univ. Politécnica de Valencia, 46.071 Valencia (Spain)

\*\* lambic Innovation Ltd, Abingdon, Oxfordshire, United Kingdon
Lalbors@retemail.ex; ex@sambicinnovation.com

#### ABSTRAC

This paper will review effectiveness of the network approach to technology transfer. It will consider the current state-of-the-set, and lost specifically at the results and status of the latest development of the contract of the contract

1.- Introduction. Technology transfer. State of the art and the european context.

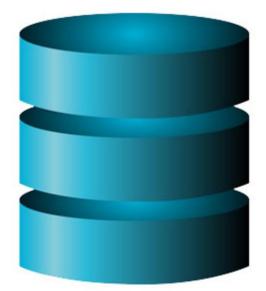
#### 1.1. Key Concepts

Auto and Lammen, (1995) state that "echnologic comprises the ability to recognite reducing problems, the daility to develop new concept and tamples solutions to reclusion problems, and exceeding a reducing problems, and the ability to exploit enhanced concepts and tamplished seveloped to solve technical problems, and the ability to exploit their concepts and tamples in an effective sol.". These authors in their classic article vise technology as a first their concepts and tamples in an effective solve." These authors in their classic article vise technology in the concept solve their concepts and the social environment. The ability aspect, as it will be decisioned line; the decision districts and the concepts and its social environment. The ability aspect, as it will be decisioned line;

A general definition of technology transfer can be controved by taking a look at the Latin origins of the word transfer. In Latin, transment over, or across the border, and ferre means to carry. The notion of carrying refers to something, which is done actively, on purpose. The word transagests that during the process of carrying, a border is cross-Accordingly, technology transfer can be viewed as an active process, during which technology is carried across the border of two entities. Those entities can be countries, companies, or even individuals.

"Technology transfer is intentional, goal oriented interaction between two or more social entities, during which the pool of technological knowledge remains stable or increases through the transfer of one or more components of technological knowledge remains stable or increases through the transfer of one or more components of technology." (Autio and Laamanen 1995). It should be noted that the time dimension is considered in the previous definition. The time factor is very relevant, yet often

1





## Open Science Open Access

Not an obligation to disseminate (publish) or ignore IP rights

The dissemination of results can be postponed to allow the appropriate protection of results beforehand

**If/when** a scientific article, research data, is published, it **will have to be in open access** 

At the latest upon publication:

deposit the AAM or VoR in a trusted repository, and ensure open access via the repository under CC BY licence, or equivalent

Owners of the copyright must:
retain sufficient intellectual property
rights (copyright) to comply with the
OA requirements



## Works in open access are usually protected by copyright, other IP rights may protect the underlying content

e.g. a publication made available as open access, may also have the method described protected by a patent and/or design rights, and software code protected by copyright



# **Open Science**Research data management

Digital research data generated must be managed responsibly

• In line with the **FAIR** principles and:

Findable
Accessible
Interoperable
Reusable

As soon as possible deposit the data

- In a trusted repository
- Ensure open access under CC BY or equivalent
- Follow principle 'as open as possible as closed as necessary'

Provide information via the repository

- Any research output/tools/instruments needed to re-use or validate the data
- Information about the licensing terms

Metadata must be open

• Under **CC 0 or equivalent** (to the extent legitimate interests or constraints are safeguarded), in line with the FAIR principles



- Open Science
- Open Innovation
- Open Source
- Open Access
- Open Data



"Free" for commercial use

No IPR Issues



## Roadmap

What is IP?

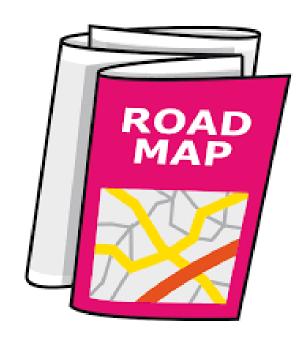
What is Open? Kinds of "openness"

IP cf Open Science

Secrecy vs disclosure

IP sharing Closed vs Open

Scholarly publishing





# Patent system – probably the origin of open innovation

Open – (Lat. Patere – open)

"it's patently obvious"

Japanese - Kokai - laid open





## Patent system: open innovation

- > Inventions having technical effect
  - Ultimately based on scientific principles
- "Deal" inventor/applicant/patent authority
  - Warning, public service, stimulus
- Protection in return for publication



## **Patent publications**

- ➤ Enabling disclosure
  - Definitive (clear?), unambiguous, legal certainty
- > Technical, legal, commercial, information



## Patent publications copyright (1)

- Copyright owned by applicant (not inventor not attorney)
- ➤ But copying for purposes of disseminating information NOT infringement of copyright
- > Attribution



## Patent publications copyright (2)

- Copyright owned IPO
- >IPO waives right to allow free dissemination of information
- **≻** Attribution



## Open Science cf IP

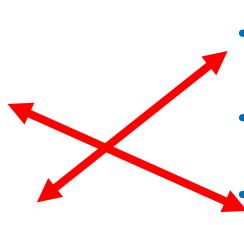
- Open Science data
  - FAIR
- Findable
- Accessible
- Interoperable
- Reusable

- IP (e.g.) EPO dataACTUS
- Accurate
- Complete
- Timely
- Useable



## Open Science cf IP

- Open Science
- Open as possible
- Closed as necessary



- Patents
- Filing, Search examination
  - Patent Application
    - Substantive examination

#### Grant

And beyond



## IP and Open Science – no conflict





## Open culture meets IP law



### Paris Convention 1883.....

....[a signatory patent office] shall publish an official periodical journal. It shall publish regularly: (a) the names of the proprietors of patents granted, with a brief designation of the inventions patented; (b) the reproductions of registered trademarks.

### But not disseminate



### **Example: EPO Patent data/information**

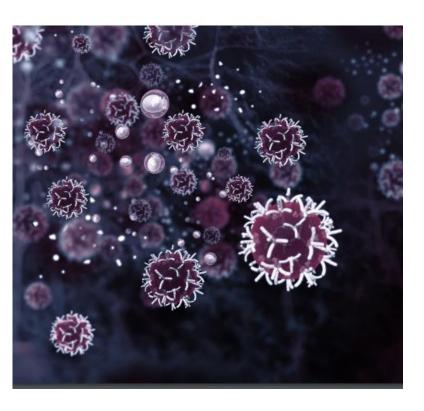
- Espacenet Worldwide patent database
- Publication server
   EP and EuroPCT published by EPO
- European Patent Register Legal status EP and EuroPCT
  - Global Dossier, Federated Register, ECLI
- Common Citation Document Family member citations
- GPI
- PATSTAT
- OPS
- Raw data products
- IPScore





Landscape study on patent filing

Chimeric Antigen Receptor T-cell Immunotherapy

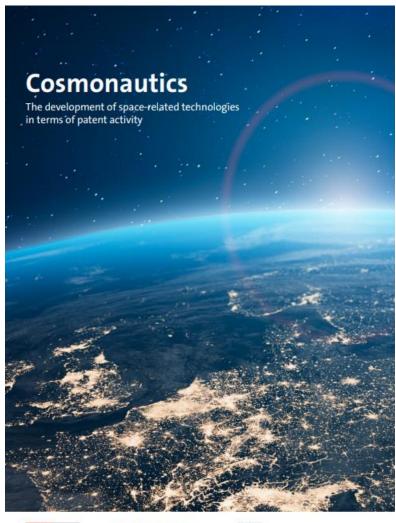




Landscape study on patent filing

Quantum metrology and sensing













## Example: EPO Patent insight reports - metadata "supplementary information"

Search strategy

Dataset

Allows third parties to repeat, adapt, improve

https://www.epo.org/searching-for-patents/business/patent-insight-reports.html



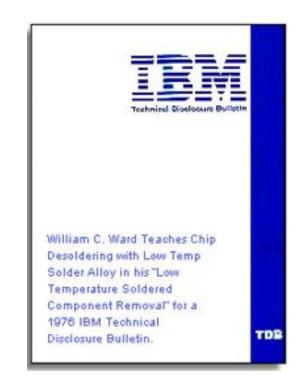
Main class	Scheme	Definition
General:		
G06N10	IPC/CPC	Quantum computers, i.e. computer systems based on quantum-mechanical phenomena
G06N99	IPC/CPC	COMPUTER SYSTEMS BASED ON SPECIFIC COMPUTATIONAL MODELS - Subject matter not provided for in other groups of
		this subclass
B82Y10	IPC/CPC	Nanotechnology for information processing, storage or transmission, e.g. quantum computing or single electron logic
Superconducting q	ubits:	
H01L27/18	IPC/CPC	Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate
		including components exhibiting superconductivity
H01L39	IPC/CPC	Devices using superconductivity; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts
		thereof
Magnetic spin base	ed devices	
H01L27/22	IPC/CPC	Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate
		including components using galvano-magnetic effects, e.g. Hall effects; using similar magnetic field effects
H01L43	IPC/CPC	Devices using galvano-magnetic or similar magnetic effects; Processes or apparatus peculiar to the manufacture or
		treatment thereof or of parts thereof
General semicondu	ictor arrangem	ents exploiting quantum effects
H01L29/66	IPC/CPC	Semiconductor devices adapted for rectifying, amplifying, oscillating or switching, or capacitors or resistors with at least one
		potential-jump barrier or surface barrierTypes of semiconductor device
H01L29/66439	CPC	Unipolar field-effect transistorswith a one- or zero-dimensional channel, e.g. quantum wire FET, in-plane gate transistor
		[IPG], single electron transistor [SET], striped channel transistor, Coulomb blockade transistor
H01L29/76	IPC/CPC	Unipolar devices , e.g. field effect transistors
H01L29/7613	CPC	Unipolar devices , e.g. field effect transistorsSingle electron transistors; Coulomb blockade devices
H01L29/12	IPC/CPC	Semiconductor bodies; Multistep manufacturing processes thereforcharacterised by the materials of which they are
		formed
H01L29/122	CPC	Single quantum well structures
H01L29/125	CPC	Quantum wire structures
H01L29/127	CPC	Quantum box structures
H01L49	IPC/CPC	Solid state devices not provided for in groups
H01L49/006	CPC	Quantum devices, e.g. Quantum Interference Devices, Metal Single Electron Transistor



## [Defensive Publication]

Defensive Publication is a method to establish prior art by publishing details of an invention into the public domain, with the purpose to stop others obtaining a patent on the same invention.

The end goal is to ensure the right to practice the published invention.





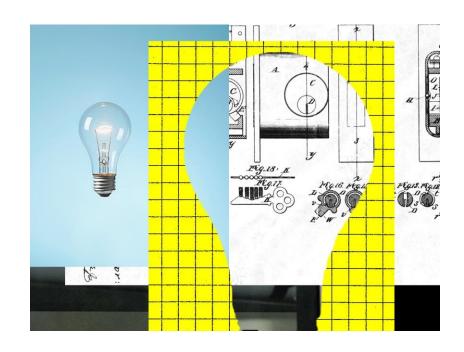
### **IDefensive Publication**

# Questel



#### **Defensive Publication**

introducing the strategy

















Denis Naughten TD
Referendum
Ireland
Unified Patent Court
Plea for use of lapsed/expired
patents
Developing Countries

https://denisnaughten.ie/2024/03/14/what-is-the-patent-court-referendum-about/









## Roadmap

What is IP?

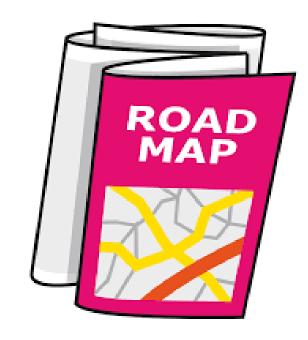
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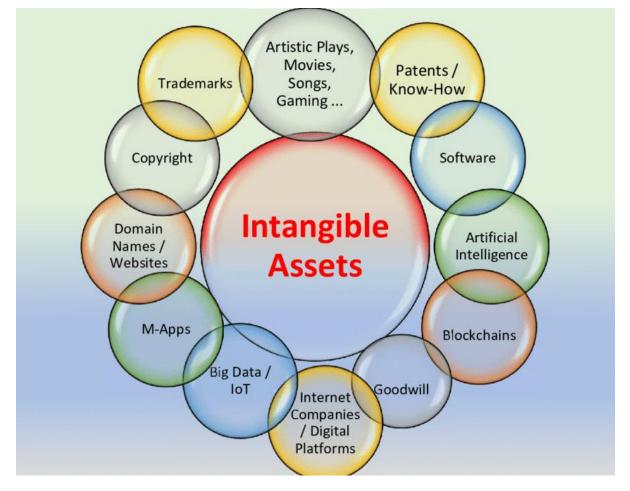
Scholarly publishing





## Sharing; secrecy vs disclosure

- Registered IP
- Trade secrets
- Confidential information
- Know- how
- Show- how
- Goodwill
- •





## Roadmap

What is IP?

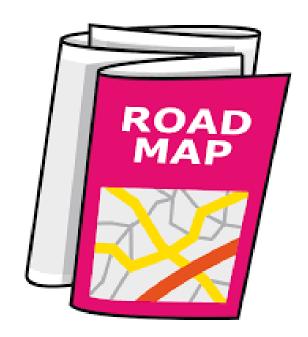
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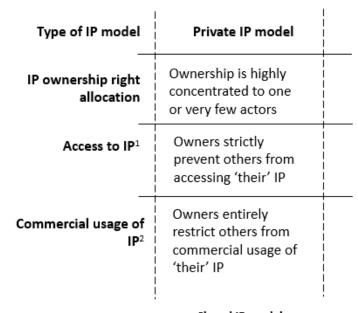
Degree of openness				
Type of IP model	Private good IP model	Club good IP model	Common good IP model	Public good IP model
IP ownership right concentration	Ownership is highly concentrated to one or very few actors	Ownership is relatively highly concentrated on few actors	Ownership is concentrated or distributed to several / many owners	No one owns the IP (anymore). IP is in the public domain
Access to IP <sup>1</sup>	Owners strictly prevent others from accessing 'their' IP	Owners allow only members of the club to access 'their' IP. Entry barriers are high for outsider actors.	Owners allow almost anyone to access 'their' IP with or without contributing IP. Entry barriers are relatively low for outsider actors.	Owners allow anyone to access 'their' IP
Commercial usage of IP <sup>2</sup>	Owners entirely restrict others from commercial usage of 'their' IP	Owners entitle only members of the club for commercial usage of 'their' IP. Owners prohibit non-members from commercial usage of 'their' IP.	Owners allow almost anyone to use 'their' IP but with some commercial restrictions	Owners cannot/do not restrict anyone from commercial usage of 'their' IP
	Closed	Half closed	Half open	Open

Closed, Semi-Open, or Fully-Open? Towards an Intellectual Property Strategy Typology Pratheeba Vimalnath Frank Tietze Elisabeth Eppinger Jan Sternkopf\_Academy of Management Annual Meeting Proceedings 2020(1):22070

Pratheeba Vimalnath, Frank Tietze, Akriti Jain, Anjula Gurtoo, Elisabeth Eppinger, Maximilian Elsen, Intellectual property strategies for green innovations - An analysis of the European Inventor Awards, Journal of Cleaner Production, Volume 377, 2022, <a href="https://doi.org/10.1016/j.jclepro.2022.134325">https://doi.org/10.1016/j.jclepro.2022.134325</a>



## Sharing; "Closed" IP



Closed IP model

Trade secrets < Single owner IPR 3 Edison's light bulb patent KFC Herbs mix Secret recipe of the cola Firms employing private IP models rigorously protect their IP, disclose as little IP as possible, vigilantly monitor, oppose and litigate others' patent

applications to prevent patents by third parties to potentially restrict them in using their IP (Chen et al., 2016).

Variance within the category is due to secrecy

1https://allthatsinteresting.com/wordpress/wp-content/uploads/2016/03/edison-first-



## Sharing; "Half closed" IP

Type of IP model	Club IP model	Bilateral IP sharing –	Decentralized IP sharing – Patent	
IP ownership right allocation	Ownership is relatively highly concentrated on few actors	Bilateral IP sharing — unidirectional  Exclusive licensing of cellophane  SYLVANIA	Pool model PHILIPS	
Access to IP <sup>1</sup>	Owners allow only members of the club to access 'their' IP. Entry barriers are high for outsider actors.		Pool SONY Pool P	
Commercial usage of IP <sup>2</sup>	Owners entitle only members of the club for commercial usage of 'their' IP. Owners prohibit non- members from commercial usage of 'their' IP. Semi-open type 1 IP model		Patent pool to share IP for their rewriteable audio compact disc patents in the 1990s	



## Sharing; "Half open" IP

Type of IP model	Common IP model	Commercial restriction	No commercial restriction
IP ownership right allocation	Ownership is concentrated or distributed to several / many owners	Linux	Patent pledges by
Access to IP <sup>1</sup>	Owners allow almost anyone to access 'their' IP with or without contributing IP. Entry barriers are relatively low for outsider	Open source free license	Non-assertion real clause 'Fair'
Commercial usage of IP <sup>2</sup>	actors.  Owners allow almost anyone to use 'their' IP but with some commercial restrictions	Variance within the category is due to usage obligations and commercial restrictions	
	Semi-open type 2 IP model		

## Sharing; "Fully open" IP

Type of IP model	Public IP model	
IP ownership right allocation	No one owns the IP (anymore). IP is in the public domain	_
Access to IP <sup>1</sup>	Owners allow anyone to access 'their' IP	_
Commercial usage of IP <sup>2</sup>	Owners cannot/do not restrict anyone from commercial usage of 'their' IP	_
	Fully open IP model	



Variance within the category is due to ease of use of publicly available free IP



## Roadmap

What is IP?

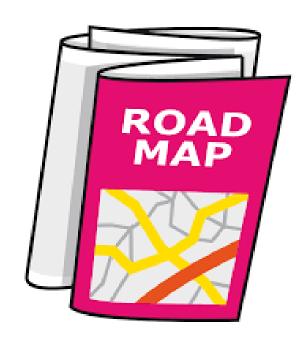
What is Open? Kinds of "openness"

IP vs Open Science

Secrecy vs disclosure

IP sharing Closed vs Open

Scholarly publishing





## Scholarly publishing • Full open access – "gold"

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