



# European IP Helpdesk

Stay ahead of the innovation game.

European IP Helpdesk  
Ip Management in ICT

15.10.2024





# European IP Helpdesk

- Service initiative of the European Commission
- Addressing **current and potential beneficiaries of EU-funded 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



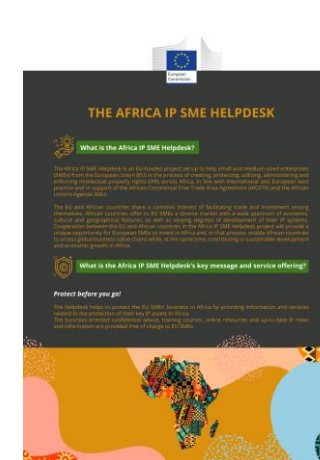
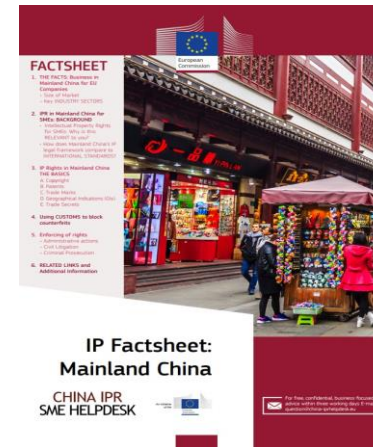
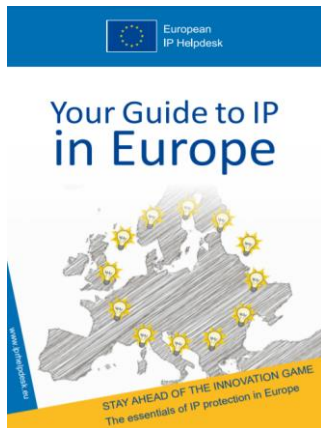


# The EC IP Helpdesks





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

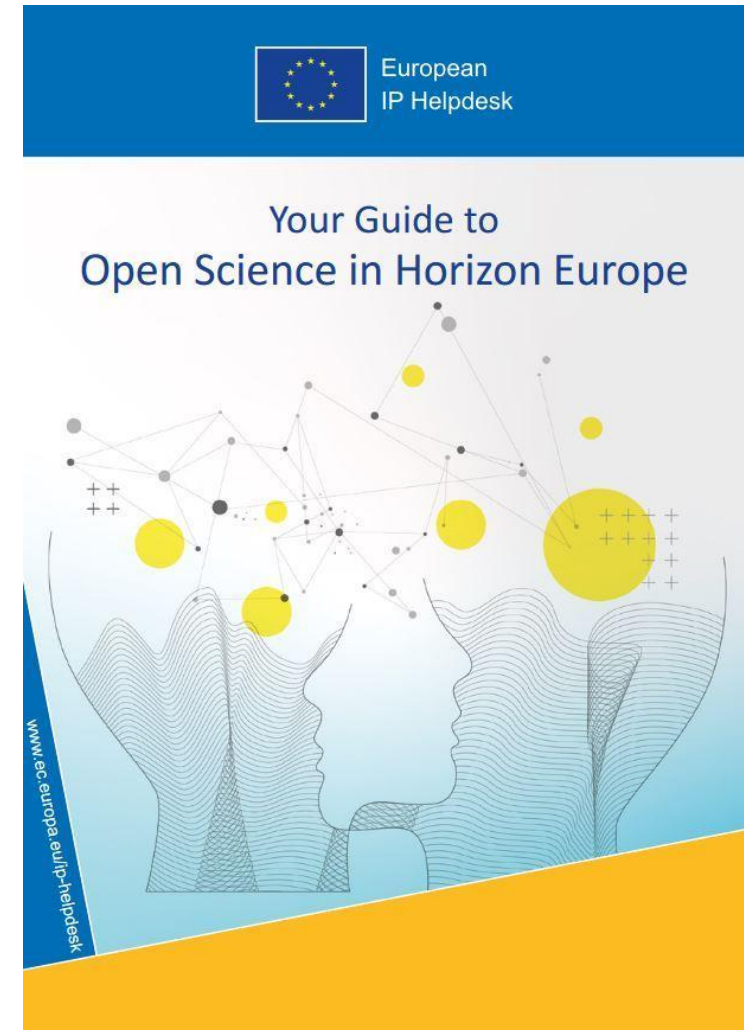


- E-learning modules & more
- Guides / Topic, country, sector-specific factsheets / Infographics
- Case studies



# 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



## Europa - Upcoming events

09  
OCT  
2024

Training and workshops

[EU - Webinar: IP and Artificial Intelligence](#)

(\*) Live streaming available

09  
OCT  
2024

Training and workshops

[Coop: EIC & EPO Webinar: Licensing-based business models](#)

(\*) Live streaming available

14  
OCT  
2024

Training and workshops

[EU - Webinar: IP Commercialisation & Licensing - Advanced](#)

(\*) Live streaming available

15  
OCT  
2024

Training and workshops

[EU - Webinar: IP Management in ICT Projects](#)

(\*) Live streaming available

21  
OCT  
2024

Training and workshops

[EU - Webinar: Patents and Innovation](#)

(\*) Live streaming available

22  
OCT  
2024

Training and workshops

[EU - Webinar EPO Coop: Patent protection for EU funding beneficiaries - MedTech](#)

(\*) Live streaming available

22  
OCT  
2024

Training and workshops

[EPO Event: Patents and Innovation in European Universities](#)

(\*) Live streaming available

24  
OCT  
2024

Training and workshops

[EU-13 Roadshow: Strengthening IP Awareness and Community Engagement in the Widening Countries - Novi Sad](#)

📍 Novi Sad, Serbia



- 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](http://www.ec.europa.eu/ip-helpdesk)
- [helpline@iprhelppdesk.eu](mailto:helpline@iprhelppdesk.eu)
- [training@iprhelppdesk.eu](mailto:training@iprhelppdesk.eu)
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## European IP Helpdesk

Stay ahead of the innovation game.

### IP Management in ICT projects

Dr Eugene Sweeney, CEO, Iambic Innovation Ltd  
Senior IP Advisor, European IP Helpdesk  
[es@iambicinnovation.com](mailto:es@iambicinnovation.com)

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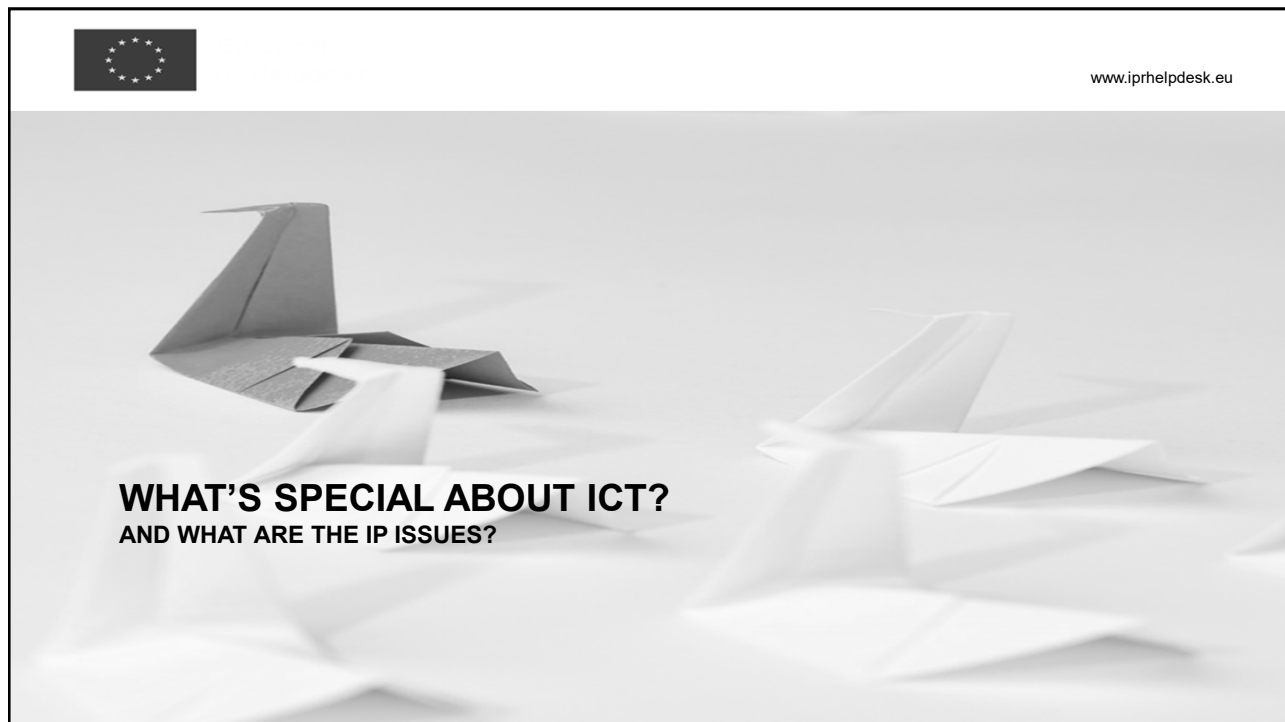
## Today's speaker

### *Dr. Eugene Sweeney*

- Over **25 years** experience with EC as **proposal evaluator and project reviewer**
- **Over 40 years in the ICT industry**
  - 1970's **Researcher – computer modelling/simulation**
  - 1978 First **start-up**: microcomputer software applications for engineers
  - 1980's Computer **industry**: Developing, sourcing and taking new ICT technologies to market
  - 1990's Early stage technology/IP **investment and commercialisation**: Focus on **ICT**
  - 2000 - Formed Iambic Innovation Ltd: **Consultancy** in Innovation, IPR and research exploitation
- Member of International (ISO) and European (CEN) Standards Committees on **Innovation Management and IP Management**
- Member of Licensing Executive Society



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A slide with a light gray background. In the top left corner is the European Union flag, and in the top right corner is the URL [www.iprhelpdesk.eu](http://www.iprhelpdesk.eu). The main text is **ICT is ..**. Below this, there are three rows of information, each consisting of a rounded rectangular box on the left and a list of bullet points on the right:

- All-pervasive**
  - Any time, any place, any device, any sector
- Critical**
  - ICT controls critical infrastructures
- Horizontal**
  - usually an essential component in other innovations, whatever sector

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## ICT is...

### Dependent

- **Relies on** other technologies, systems or data

### Cumulative

- **Based on** pre-existing components, integration, derivatives
- Can be combined in different ways to create new products and services

### Convergent

- **Takes advantage of** merging/converging technologies; e.g. Cloud, sensors, IoT, etc.

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## ICT is ...

### Global

- scalable

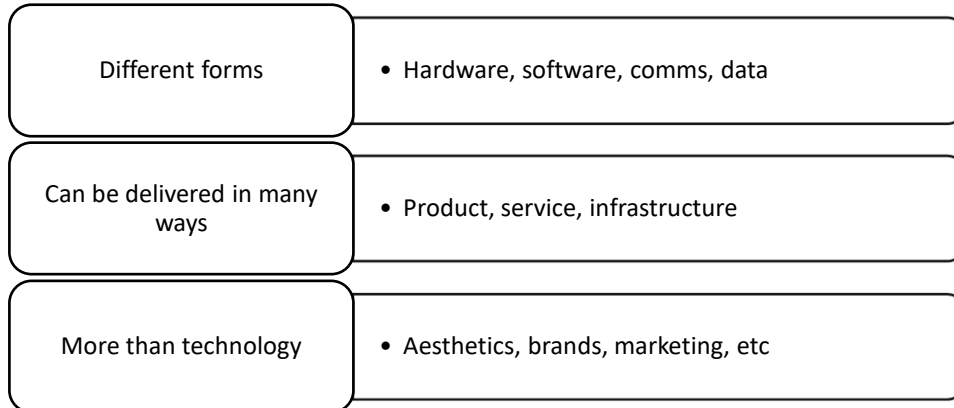
### Trans-border

- Cloud, Internet, IoT, blockchain, AirBnB, etc.

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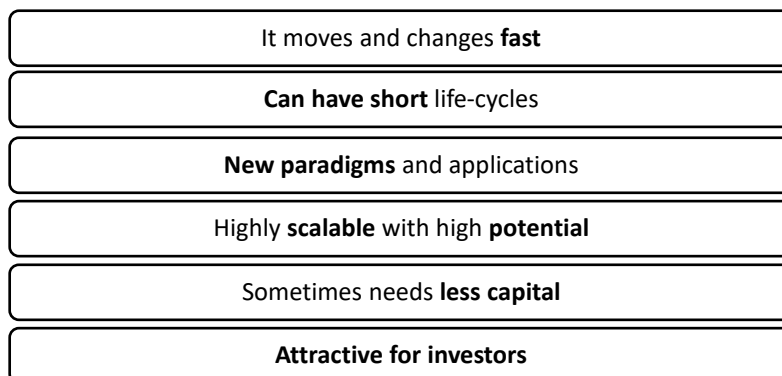
## ICT has many faces..



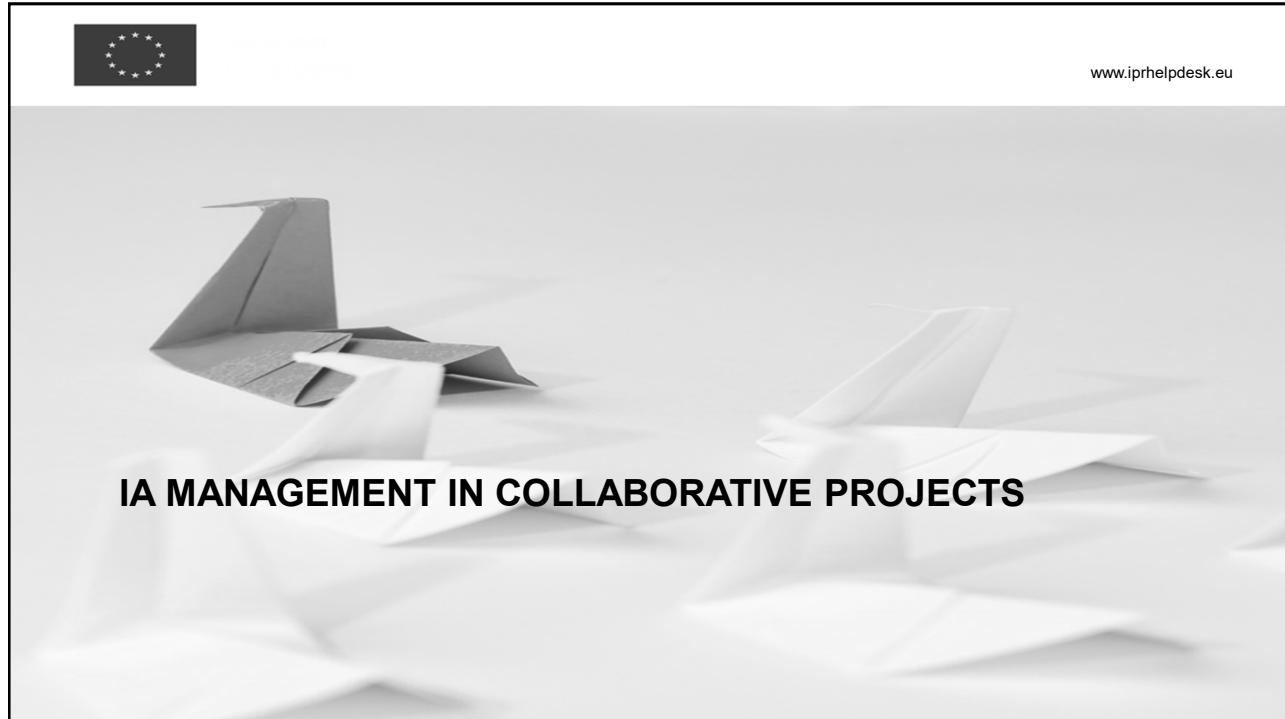
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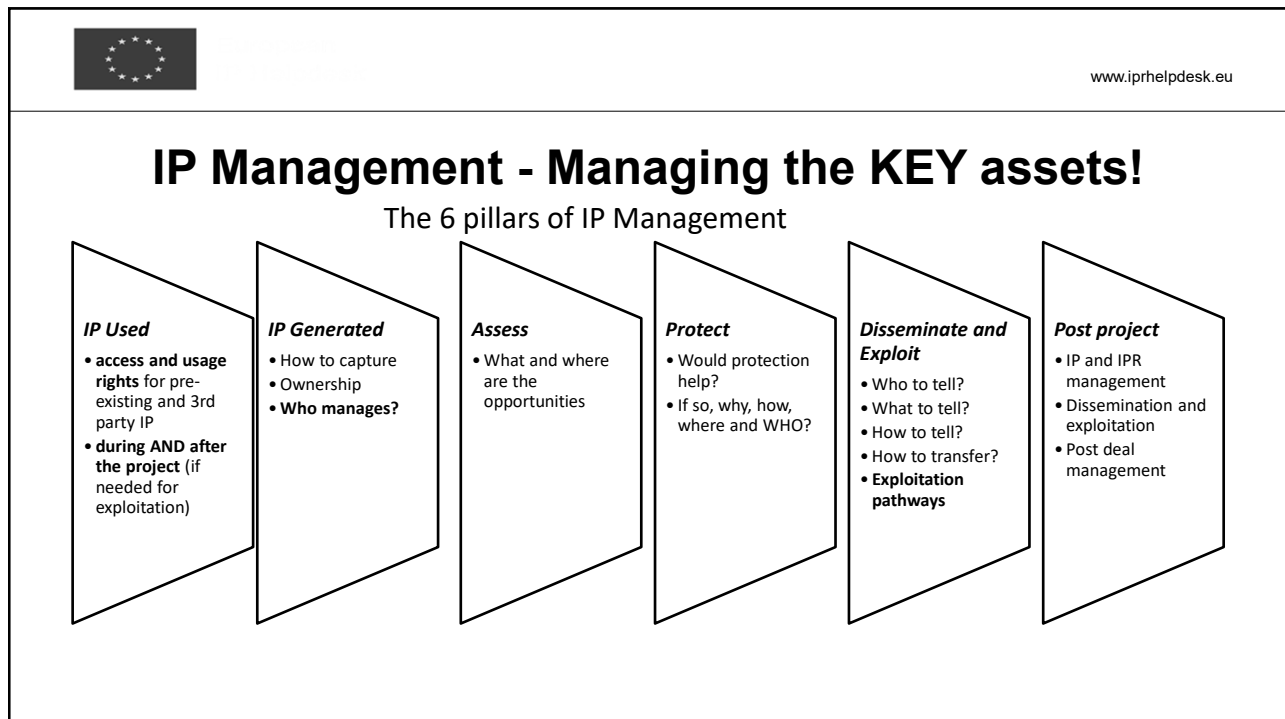
## ICT is dynamic and disruptive



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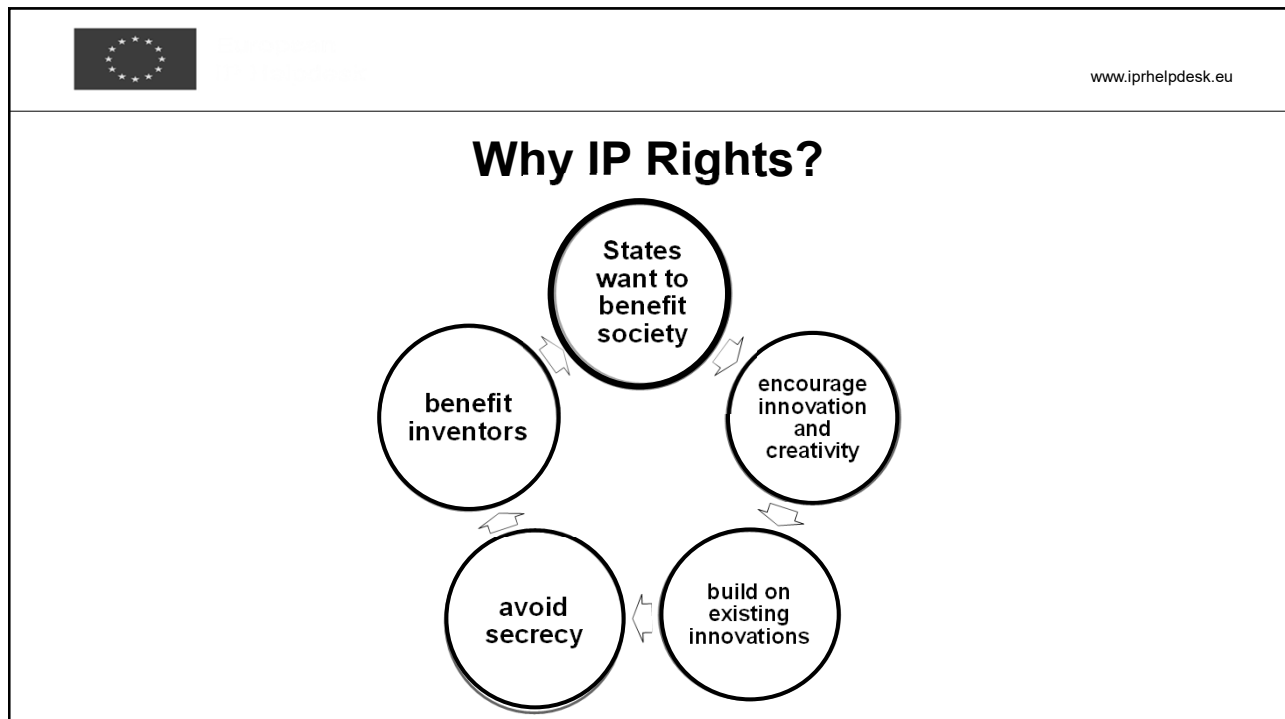
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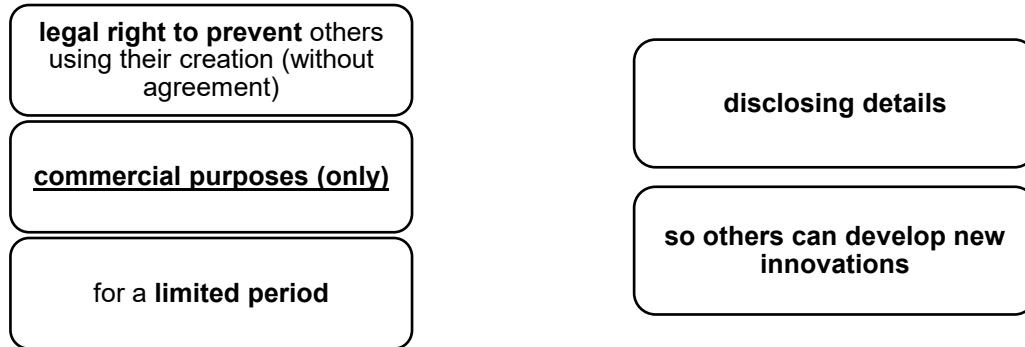
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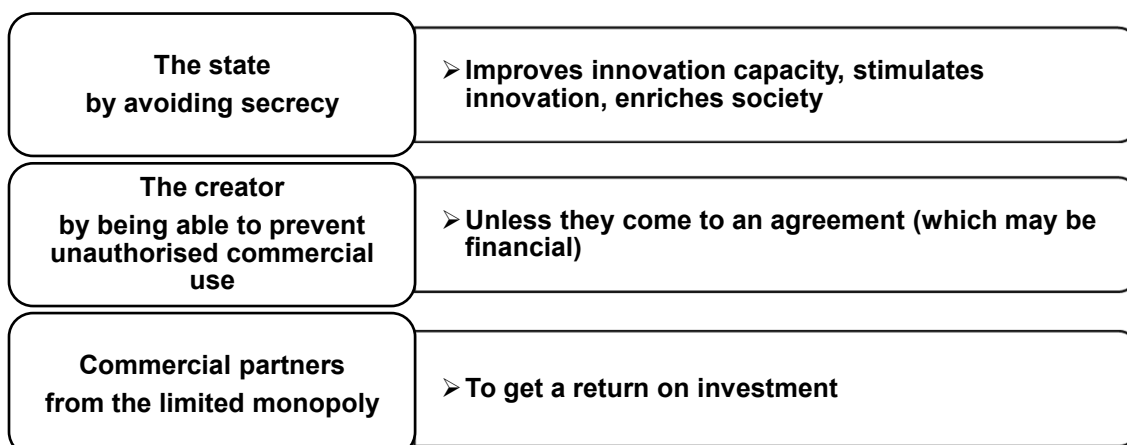
## What is the deal?



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## Who benefits?



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## Many types of Intellectual Property (IP)

Products of the mind

Assets which can be traded

- Inventions
- Software code
- New methods
- Manuals/Reports
- Designs (aesthetic/functional)
- Databases
- Works of art
- Music
- Videos
- Books
- Roadmaps
- etc

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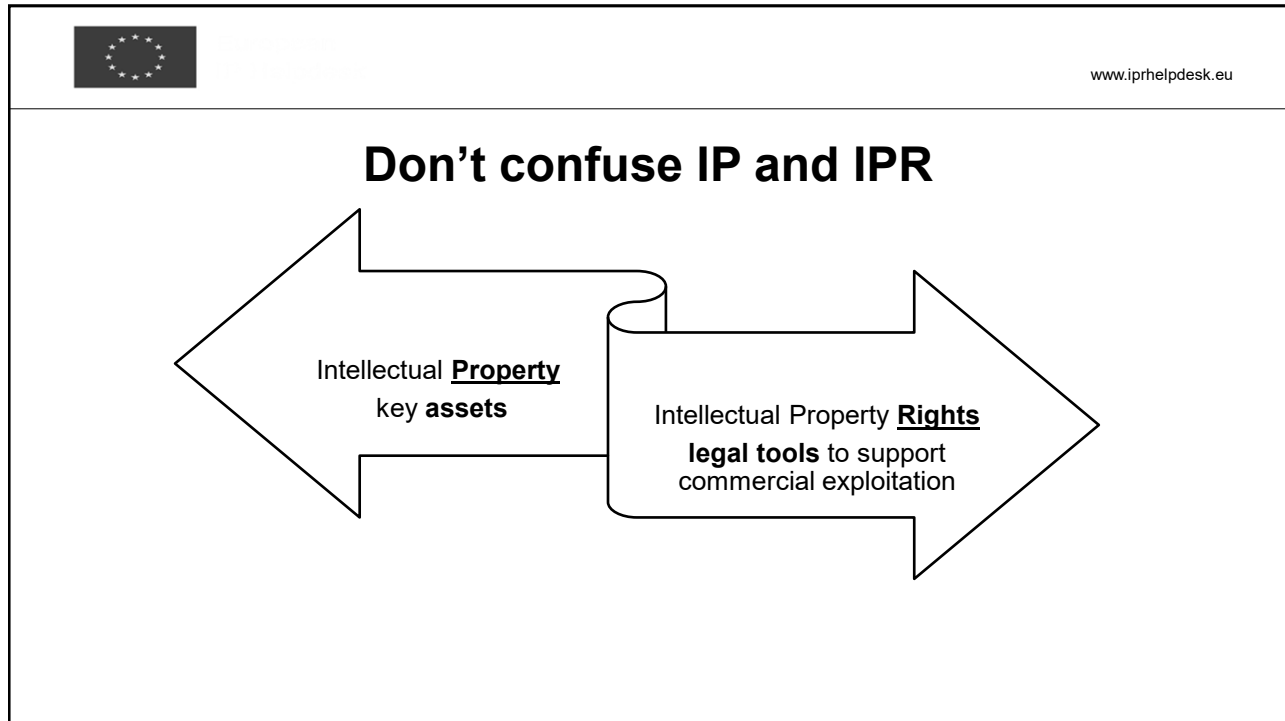
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## Many types of Intellectual Property Right (IPR)

- Patents
- Copyright
- Design Rights
- Database Rights
- Trade marks
- Plant Breeders Rights
- Utility Models/petty patents
- Plant varieties
- etc

- Some legal rights come into existence automatically
- Some need registration
- Confidentiality Agreements (Know-how)
- Secrets (Trade Secrets)
- Time limited rights
- National rights

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The slide features a background of crumpled white paper. In the center, there is a 3D-rendered paper airplane. The text 'PROTECTING ICT ASSETS' is written in bold, black, uppercase letters on the left side. On the right side, there is a bulleted list of legal tools.

**PROTECTING ICT ASSETS**

- Patents
- Copyright
- Trademarks
- Design rights
- Database right

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## Obligation to protect the results

*“Beneficiaries which have received funding under the grant must adequately protect their results for an appropriate period and with appropriate territorial coverage if protection is possible and justified, taking into account all relevant considerations, including the prospects for commercial exploitation, the legitimate interests of the other beneficiaries and any other legitimate interests.”*

*Horizon Grant Agreement*

If commercial

- Should you protect it?
- If so, **why, how** and **where**?

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## Strategic decisions



**Assessment, protection and exploitation must be considered together**

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## More than just patents!

Patents dominate  
Telecomms and  
Hardware

trademarks and  
copyright  
dominate  
Software &  
Services

*JRC Report, "IP and Innovation in ICT", 2015*

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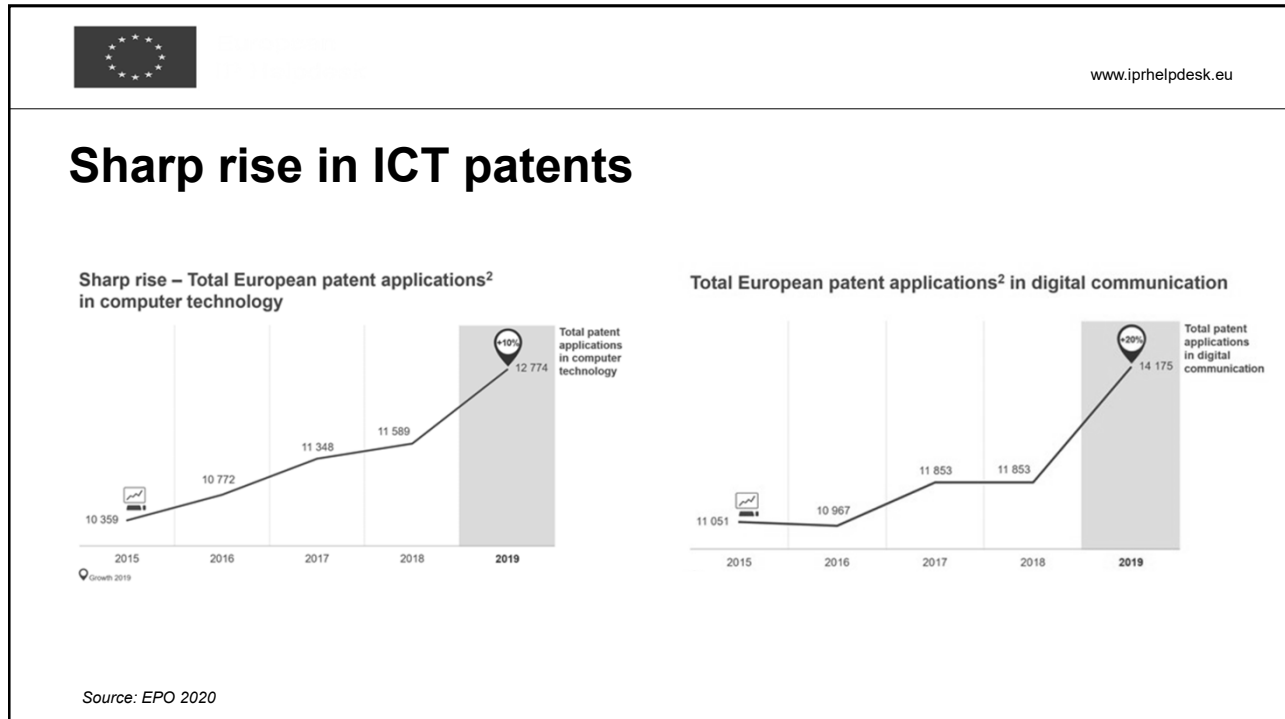
## ICT Patents

Technical Field	Number of Applications	Change (%)
Digital communication	17 749	+8.6%
Medical technology	15 985	+1.3%
Computer technology	15 746	+1.2%
Electrical machinery, apparatus, energy	15 304	+12.2%
Measurement	9 565	+3.5%
Transport	9 445	0.0%
Pharmaceuticals	9 273	-3.4%

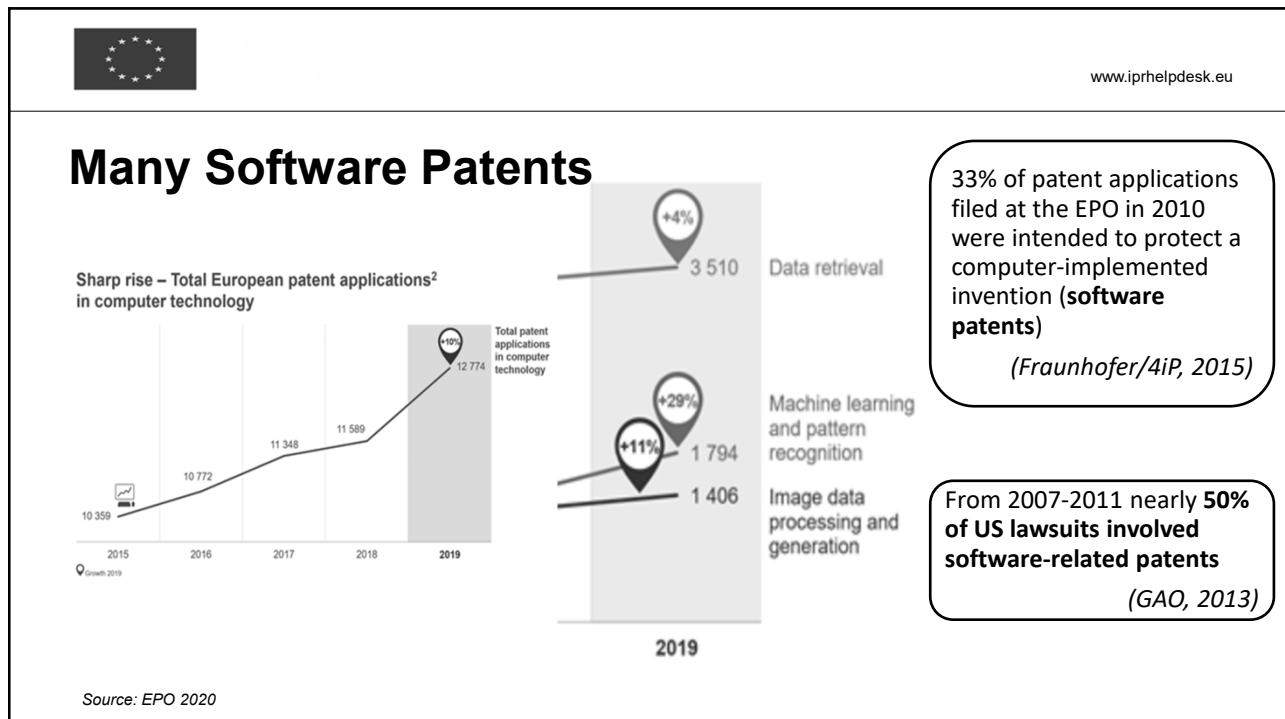
**Top technical fields based on European patent applications**

*Source: EPO Patent Index 2023*


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### What can you patent?

Almost anything of **technical character** that is not a mere discovery and is:

- **New/Novel** (not previously disclosed publicly)
- **Inventive** (not obvious to “one skilled in the art”)
- **Industrially applicable/has a technical effect**
- **Sufficiently described**




### What can't you Patent?

- **Computer programs** (*per se*)
- Scientific theories
- **Mathematical methods/algorithms**
- Aesthetic creations
- Schemes, rules and methods for performing mental acts
- Playing games or doing business
- Presentations of information

*Some important exceptions in law and its interpretation in the USA and elsewhere*

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## Software Patents in Europe..

### European Patent Convention

Computer programs are not patentable	software code
Computer-implemented inventions are patentable	<i>“inventions whose implementation involves <b>the use of a computer, a computer network or other programmable apparatus, realised by means of a computer program (i.e. software)</b>”</i>
Needs to have a technical effect	not <b>business</b> or <b>financial</b>

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## Software Copyright

Copyrights protects the **expression** of the method **not the method** itself; for example:

- The code as such (source and binary)
- Design material
- User guides
- Graphical elements such as icons


Comes into existence **automatically**

- so **keep good records** to prove date of creation.

Lasts at least **50 years**


- national variations

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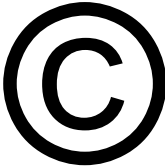
## Software patent *OR/AND* Software copyright

**Patent**




What it does (regardless of how expressed)

**Copyright**




What it is (its expression)

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## Trademarks

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## Brands can be Valuable!!

Amazon	60% growth
Microsoft	53% growth
Spotify	52% growth
Netflix	41% growth
Adobe	41% growth
PayPal	38% growth
Apple	38% growth
Salesforce.com	34% growth
Nintendo	31% growth
MasterCard	17% growth

**Biggest risers**

01  +38% 322,999 \$m	02 <b>amazon</b> +60% 200,667 \$m	03  +53% 166,001 \$m	04 <b>Google</b> -1% 165,444 \$m	05 <b>SAMSUNG</b> +2% 62,289 \$m
06  -10% 56,894 \$m	07  -8% 51,595 \$m	08  -3% 49,268 \$m	09  -6% 42,816 \$m	10  -8% 40,773 \$m
11  -4% 39,756 \$m	12 <b>intel.</b> -8% 36,971 \$m	13 <b>FACEBOOK</b> -12% 35,178 \$m	14 <b>IBM</b> -14% 34,885 \$m	15  +8% 34,388 \$m
16  -4% 34,119 \$m	17 <b>LOUIS VUITTON</b> -2% 31,720 \$m	18  +12% 28,011 \$m	19  New 26,060 \$m	20 <b>HONDA</b> -11% 21,694 \$m

*Source Interbrand Best Global Brands 2020*

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## Database Rights

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

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**MANAGING THE COMMERCIALISATION OF ICT IP**

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## Obligation to exploit the results

*“Beneficiaries which have received funding under the grant must — up to four years after the end of the action — use their best efforts to exploit their results directly or to have them exploited indirectly by another entity, in particular through transfer or licensing.”*

*Horizon Grant Agreement*

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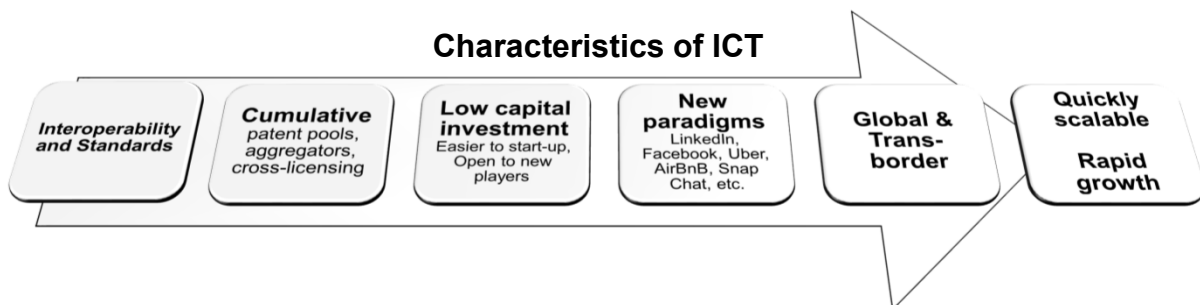


## Issues to consider when commercialising ICT

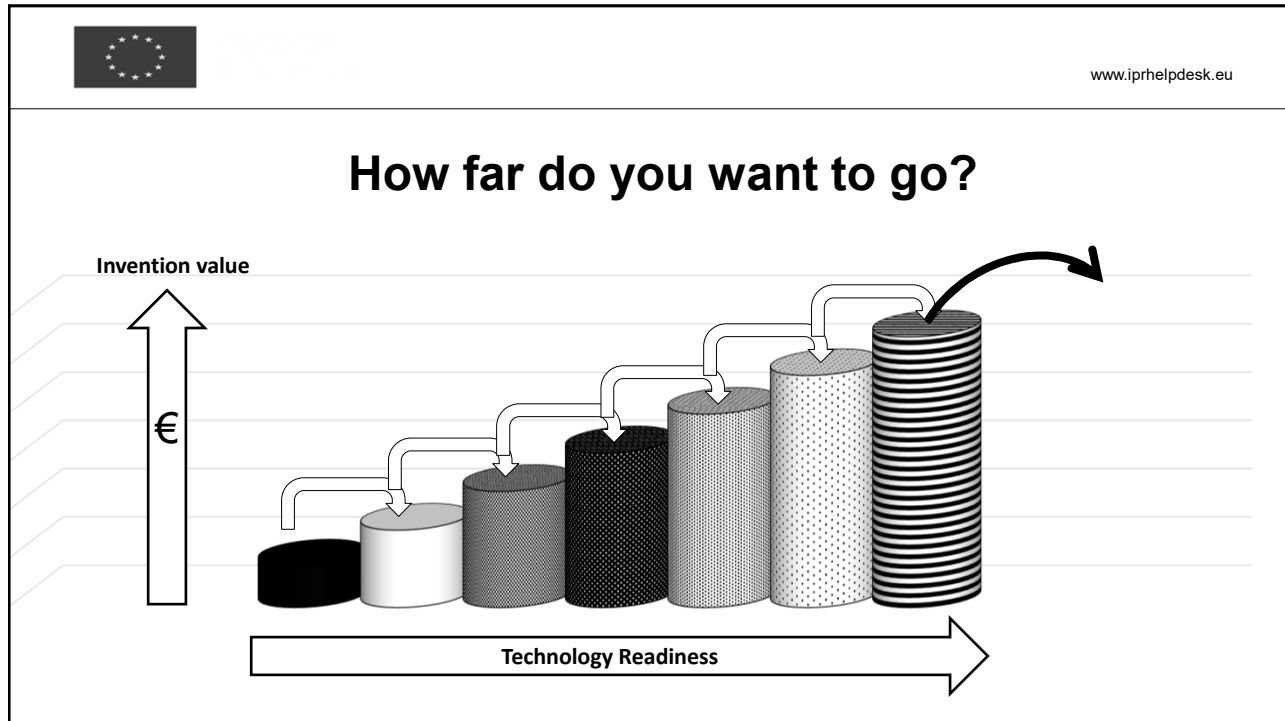
### Wide variety of business models

Open/free	Product or service	Per use/seat	one-off fee	subscription based	ad based	voluntary contributions	community supported	etc.
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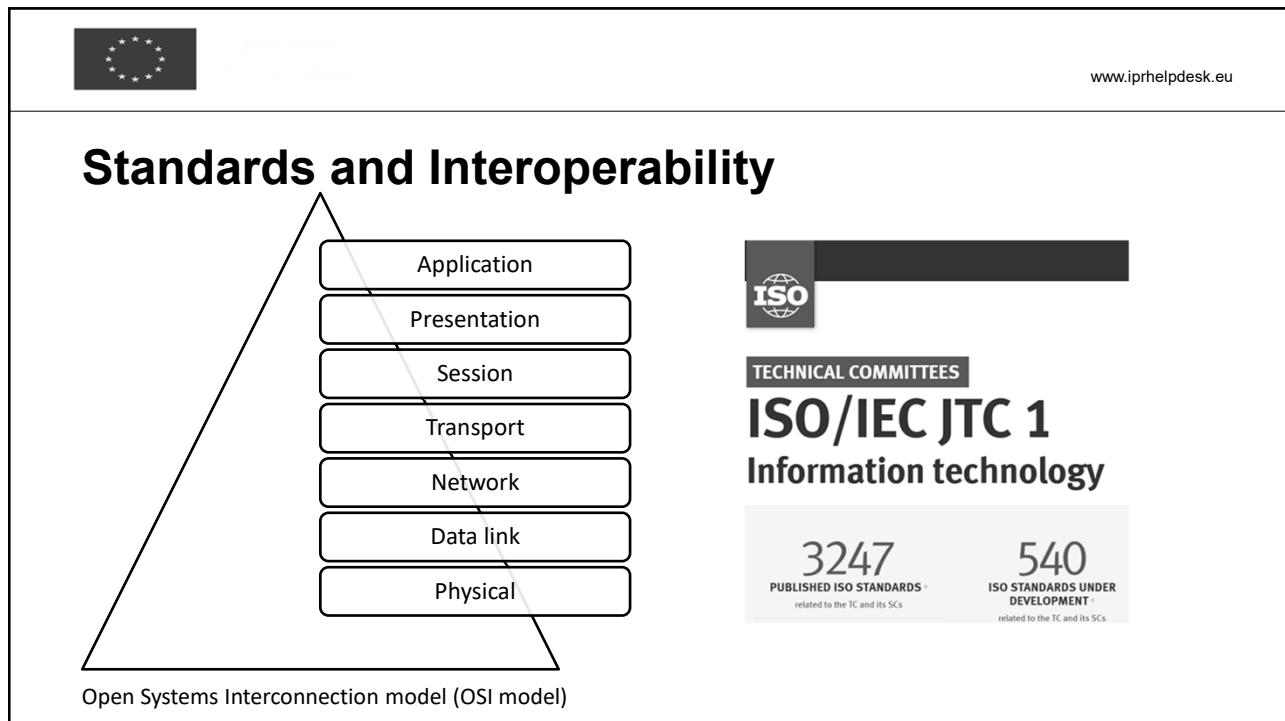
### Characteristics of ICT



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### ISO/IEC 21823-1:2019

#### Internet of things (IoT) — Interoperability for internet of things systems — Part 1: Framework

ISO/IEC 21823-1:2019(E) provides an overview of **interoperability** as it applies to IoT systems and a framework for interoperability for IoT systems. This document enables IoT systems to be built in such a way that the entities of the IoT system are **able to exchange information and mutually use the information** in an efficient way. This document enables **peer-to-peer interoperability between separate IoT systems**. This document provides a common understanding of interoperability as it applies to IoT systems and the various entities within them.

**Status :** Published

**Publication date :** 2019-02

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About Projects Experts Orientation Tool Training Academy

### Standardisation Support for Research & Innovation Projects

Apply for standardisation expert services to increase and valorise your project results through standardisation

Learn more →



#### COMMISSION RECOMMENDATION (EU) 2023/498

of 1 March 2023

##### on a Code of Practice on standardisation in the European Research Area

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 292 thereof,

Whereas:

- (1) Standards help researchers and innovators bring their innovation closer to the market and spread technological advances by establishing uniform criteria and by developing methods, practices and procedures which are publicly available in a formal document. European and international standards provide access to large global and regional markets for innovative new products and services.
- (2) Standards offer a basis for the integration of diverse technologies into complex, innovative systems and solutions, and enable interoperability between components, products and services thereby avoiding vendor lock-in and providing more choice for customers globally – a critical role in a world undergoing digital transformation across all industries and sectors.

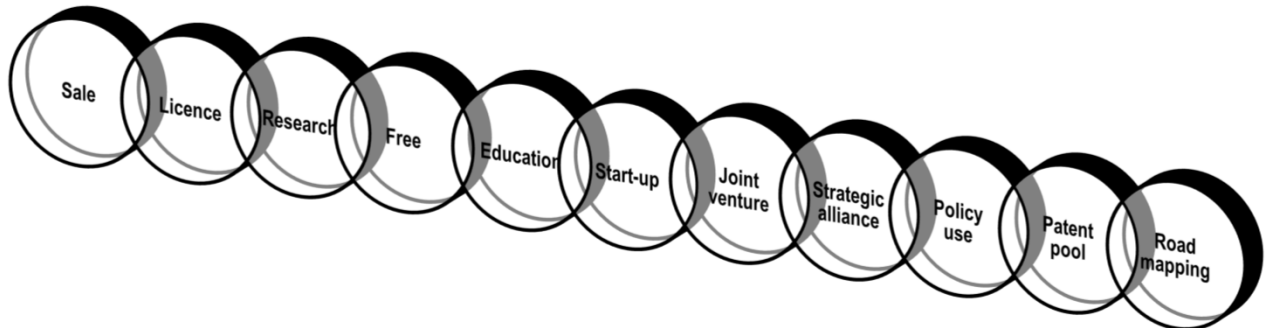
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## Exploitation Strategies

Like physical property, **intellectual property is a valuable asset** which can be **traded** – bought, sold or leased, given away free, used in JV's, as collateral, etc...

But, many more ways of extracting value...



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### Licence

Licensee has expertise and resource

Can address different fields of use and geographical areas

Established markets & suppliers

Evolutionary/incremental technology

The IP fits a gap in someone else's portfolio

Low financial commitment – less risk

Early returns – may grow over time

or

### New Venture?

New Company must acquire expertise and resource

Needs a critical mass of expertise and a committed and enthusiastic team

New markets for new suppliers

Revolutionary or platform technology

Delivers a unique business advantage

Needs capital - more risk

Returns take longer – but could be large

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## ICT ventures

VC funds investing heavily in favour of ICT	Drive for <b>capital growth</b> rather than profitability
Investors don't wait around....	ICT has <b>rapid growth</b> potential
New paradigms, low capital investment and rapid growth	make <b>ICT start-ups attractive</b> for investors

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## Licensing (in general)

IP Helpdesk Webinar  
"IP Commercialisation and Licensing"

Granting right to use your property under agreed terms and conditions


- Field of use
- Geographic territory
- To validate not sell
- etc

European IP Helpdesk Bulletin No.1 - IP Licensing



[http://www.iprhelpdesk.eu/sites/default/files/newsdocuments/bulletin/01/IP-H\\_b01\\_content-3.html](http://www.iprhelpdesk.eu/sites/default/files/newsdocuments/bulletin/01/IP-H_b01_content-3.html)

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## Open Source Licences

<b>Just another type of licence!</b>	<ul style="list-style-type: none"><li>• Usually <b>requires source code</b> to be made available</li><li>• <b>Many different versions</b> and variations</li><li>• <b>Beware</b> clauses which affect commercial use</li></ul>	<b>Needs management –</b> how will it be funded?
<b>Good for</b>	<ul style="list-style-type: none"><li>• building <b>community</b> of developers and users</li></ul>	How will it be <b>sustainable?</b>
		Choose <b>only if appropriate</b> and can be <b>justified</b>
		<b>not “policy”</b> or “ideology” decision

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## Business models for Open Source

Must provide <b>source for free</b>	<ul style="list-style-type: none"><li>• Can charge for executable, added value services or products (e.g. training or toolkits)</li></ul>
Added value <b>services and products</b> may be supplied	<ul style="list-style-type: none"><li>• Software freely available under OSS licence</li><li>• Support contract or consultancy services may be purchased from owner or <b>third parties</b></li></ul>
Someone must <b>manage and sustain</b>	<ul style="list-style-type: none"><li>• Quality and validation</li><li>• New releases into community</li><li>• Build and sustain community</li></ul>
Beware <b>too many “forks”</b>	<ul style="list-style-type: none"><li>• Detrimental to building critical mass in the community, and “brand” identity and commercial success</li></ul>

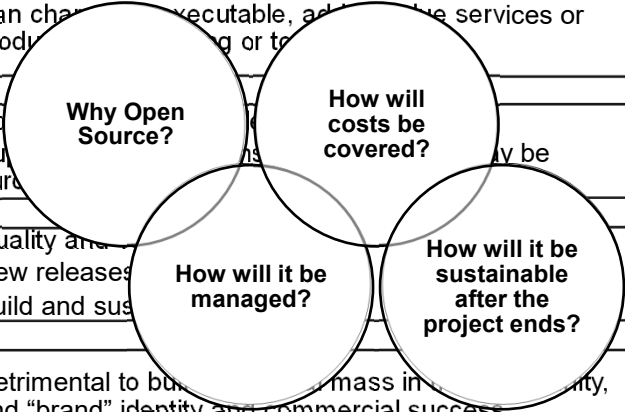
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## Business models for Open Source

Must provide <b>source for free</b>	<ul style="list-style-type: none"> <li>• Can charge for executable, additional services or products and/or training or technical support</li> </ul>
Added value <b>services and products</b> may be supplied	<ul style="list-style-type: none"> <li>• Some services may be provided</li> <li>• Some products may be provided</li> </ul>
Someone must <b>manage and sustain</b>	<ul style="list-style-type: none"> <li>• Quality and security</li> <li>• New releases</li> <li>• Build and sustain community</li> </ul>
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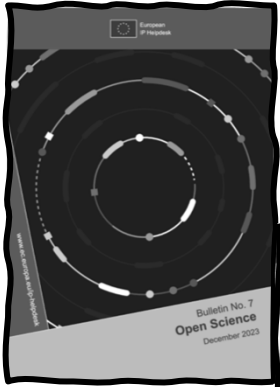

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## More information....

More on software licensing, Incl: <b>Open Source</b>	<ul style="list-style-type: none"> <li>• IP Helpdesk Webinar <b>“IPR and Software”</b></li> </ul>
More on other <b>Open things</b>	<ul style="list-style-type: none"> <li>• IP Helpdesk Webinar <b>“Open Science”</b></li> <li>• IP Helpdesk Bulletin No 1 (Dec 2023) <b>“Open Science”</b></li> <li>• IP Helpdesk Bulletin No 7 (Oct 2024) <b>“Open Innovation”</b></li> </ul>

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## More Help... "Knowledge Valorisation in R&I Collaborations" Thematic Package from IP Helpdesk

- **Successful Valorisation of Knowledge and Research Results in Horizon Europe**
- **Your Guide to Intellectual Property Management in Horizon Europe**
- **Article: Leveraging Innovation Through Collaboration - IP Challenges And Opportunities For SMEs In The Context Of EU-Funded Collaborative Research Projects**



[Knowledge Valorisation in R&I Collaborations \(europa.eu\)](https://europa.eu/knowledge-valorisation-in-r-i-collaborations)



**Code of practice on the management of intellectual assets for knowledge valorisation**  
Commission Recommendation

**Intellectual assets management is key for both individuals and organisations to improve their ability to collaborate, communicate and valorise knowledge. Together with stakeholders, we have developed a code of practice to support the Guiding Principles for knowledge valorisation and promote the effective use and sharing of intellectual assets.**

**Marjolein Gohel**  
Commissioner for Innovation, Research, Culture, Education and Youth

**Intellectual asset** means any result or products generated by any R&I activities (such as intellectual property rights, data, know-how, patents, processes, practices, technologies, software).

The **code of practice** provides guidance for R&I actors to successfully manage their intellectual assets in order to maximise the socio-economic benefits of research results and innovative techniques for the EU taking into account sustainability.

**Key elements**

- Revised guidance**: Replaces the 2006 code of practice for universities and other public research organisations to reflect the changes in the R&I landscape.
- Inclusiveness**: Co-creation with a wide range of R&I stakeholders with an interest in intellectual assets management through a community of practice.
- From ideas to market**: Identifying the most suitable means to control intellectual assets, to find the appropriate markets and to involve business partners.

5 March 2024

**VALORISATION POLICIES**  
**CODE OF PRACTICE ON INDUSTRY-ACADEMIA CO-CREATION**  
COMMISSION RECOMMENDATION

**"To develop new technologies, products and services in Europe and to ensure that innovative solutions are taken up, academic and industry must work closely together. This code of practice, developed with stakeholders, will be a valuable tool for bridging the gap between the lab and the market and for boosting knowledge valorisation."**

**Marie Perle**  
Member of the Commission for Innovation, Research, Culture, Education and Youth

**Industry-academia co-creation** means the process of joint production and the valorisation of knowledge between industry, academia and other R&I actors, such as public authorities, social partners and civil society.

The **code of practice** is a detailed guidance to facilitate industry-academia co-creation, to strengthen valorisation of research results and to bridge the gap between research outputs and marketable innovations and the uptake to society.

**KEY ELEMENTS**

- STRATEGIC APPROACH**: Industry and academia to create enabling environment for collaboration and actively seek for common interests and work together in research and innovation from early on.
- MATCHING SUPPLY AND DEMAND**: Using online and digital platforms for match-making, interactive needs for co-creation, support from infrastructures and cooperation facilities.
- SUCCESSFUL PARTNERSHIPS**: Creating the right conditions for partnerships, professional support from intermediaries, effective valorisation of results, fair sharing of value created.

5 March 2024

**VALORISATION POLICIES**  
**MAKING RESEARCH RESULTS WORK FOR SOCIETY**  
**INTELLECTUAL ASSETS MANAGEMENT FOR SOCIETAL AND ECONOMIC PROGRESS**

The effective management of intellectual assets is key to accelerate the uptake of innovative solutions to address challenges like health, crisis or the green and digital transitions. The 2022 **Guiding principles for knowledge valorisation** emphasise **leveraging the broadest range of intellectual assets** for an increased social and economic value of research results.

**INTELLECTUAL ASSETS INCLUDE:**

- Intellectual property rights systems (patents, trademarks, designs, copyrights etc.)
- Know-how, processes and practices
- Data
- Prototypes, software


To support the implementation of the Guiding Principles, the Commission developed with stakeholders a **Code of Practice on the management of intellectual assets** and **Article 184** of the **Amending Directive** and **Directive on awareness-raising campaign** co-organised with Member States.

The Commission is exploring further tools to **improve the access and sharing of intellectual assets** while **finding a balance between commercialisation and societal impact**, such as socially responsible and impact financing.

**INTELLECTUAL ASSETS MANAGEMENT FOR KNOWLEDGE VALORISATION**

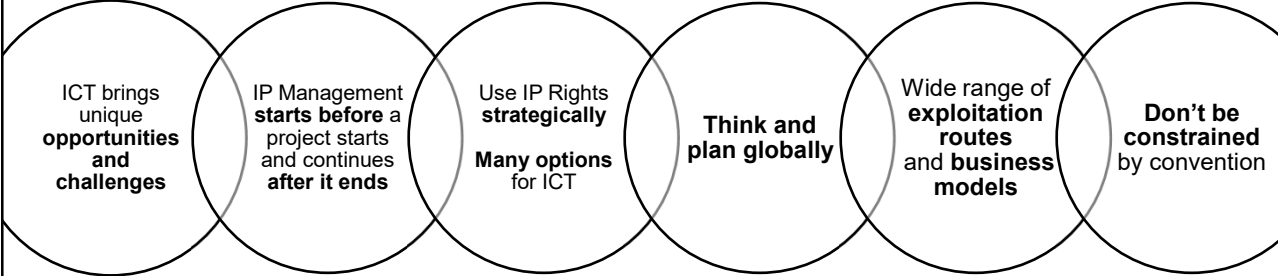
- Establishing a community for the efficient management of intellectual assets and a framework for training and awareness raising
- Generating intellectual assets through R&I activities
- Managing intellectual assets efficiently, including clarifying ownership and establishing clear collaboration conditions
- Ensuring a smooth market uptake by suitable means for access, such as intellectual property rights

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## Summary



- ICT brings unique **opportunities and challenges**
- IP Management **starts before** a project starts and continues **after it ends**
- Use IP Rights **strategically**  
**Many options** for ICT
- Think and plan globally**
- Wide range of **exploitation routes and business models**
- Don't be constrained** by convention

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### DISCLAIMER

The European IP Helpdesk provides free-of-charge first-line support on IP-related issues aiming to help current and potential beneficiaries of EU-funded projects, as well as EU SMEs, manage their Intellectual Property assets.

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