



Protect your IP in health technology: Focus on robotics and health appliances



Series protect your IP in

- Protect your IP in quantum technologies: Focus on quantum computing. (20th March 2026)
- Protect your IP in health technology: Focus on robotics and health appliances (24th June 2026)
- Protect your IP in medical technology: Focus on oncology (Tbd July 2026)
- Protect your IP in biotechnology: Focus on water treatment technologies (Tbd October 2026)
- Protect your IP in green technologies: Focus on offshore energy (Tbd Nov/Dec. 2026)



Agenda

- **10.00 Introduction**
 - **Francesco Panni**, European Patent Academy, EPO
 - **Michele Dubbini**, IP Advisor European IP Helpdesk
- **10.05 Innovation market and trends in robotics and health appliances**
 - **Christian Soltmann**, Patent Analyst, Chief Economist Unit, EPO
- **10.25 Patentability issues in Focus on robotics**
 - **Vladimir Shmonin**, EPO Examiner
- **10.45 Case Study from HEU funded project: SWAG**
 - **Ilaria Pacifico**, Research Manager, IUVO Srl, **Panagiotis Polygerinos**, Associate Professor of Soft Robotics and Mechatronics at HMU, **Ilias Zourantzis**, CTO and Co-Founder of Bendabl
- **11.05 Short Overview of the European IP Helpdesk and EPO Academy services**
 - **Francesco Panni**, European Patent Academy, EPO
 - **Michele Dubbini**, IP Advisor European IP Helpdesk
- **11.15 Q&A**
- **11.30 End of the Event**

INNOVATION MARKET AND TRENDS IN ROBOTICS AND HEALTH APPLIANCES

OVERVIEW OF THE EPO TECHNOLOGY INSIGHT REPORT ON ASSISTIVE ROBOTICS FOR PEOPLE WITH SPECIAL NEEDS

CHRISTIAN SOLTSMANN | PD03 PATENT RESEARCH AND POLICIES | 24 JUNE 2026

OUTLINE

Part I

EPO technology insight reports: Overview

EPO technology insight report on assistive robotics for people with special needs

Part II

The EPO's Observatory on Patents and Technology: Useful services related to health topics

EPO TECHNOLOGY INSIGHT REPORTS

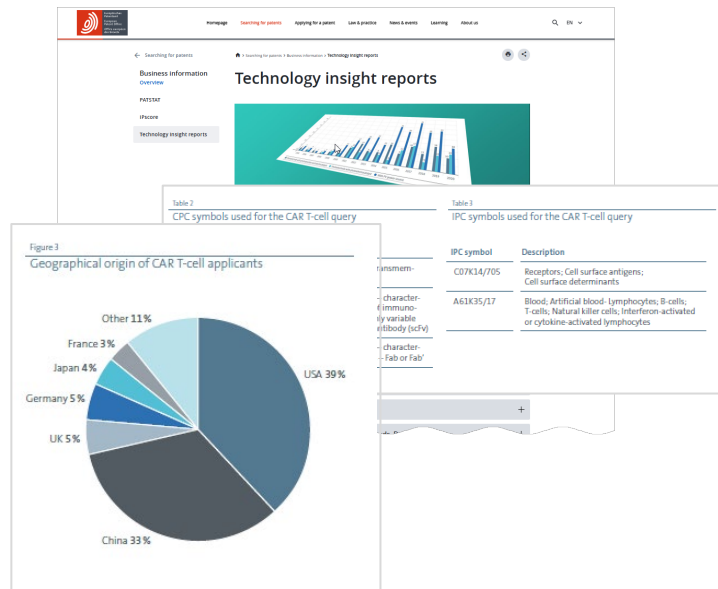


EPO TECHNOLOGY INSIGHT REPORTS

Characteristics

Focus	Newly emerging technologies with high potential
Content	Analysis of filing trends and applicants in the targeted field
Target audience	Researchers, companies, investors, patent professionals

Available at: epo.org/insight-reports

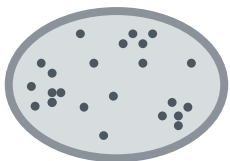


EPO TECHNOLOGY INSIGHT REPORTS: WORKFLOW

1: Basic result set

Using:

- patent classification codes
- keywords
- applicant and inventor names
- countries of residence
- [...]



2: Analytics

$$q_{ijt} = AL_{ijt}^\alpha K_{ijt}^\beta$$

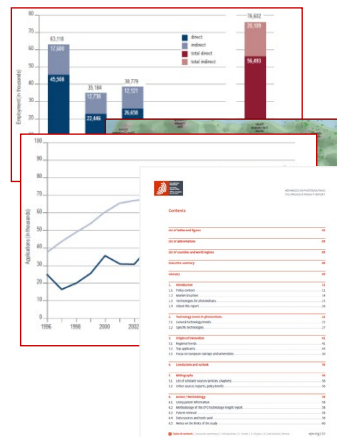
Period	(1)	(2)	ln(q _{ijt})
1981-2009	Fixed-effects regression	Fixed-effects regression	Fixed-effects regression
Estimation method	9.6374*** (2.0202)	10.337*** (1.823)	12.122*** (1.823)
ln(k _{ijt})	0.89323*** (0.16839)	0.93882*** (0.1388)	0.93882*** (0.1388)
ln(L _{ijt})	1.1018 (0.7014)	0.84791 (0.5102)	0.84791 (0.5102)
Other_stock _{ijt}	0.002*** (0.7e-05)	-0.0023* (0.0017)	0.002*** (0.0017)
Other_stock _{ijt-1}	-3.1e-08** (2.5e-05)	-1.1e-08* (5.9e-05)	-3.1e-08** (5.9e-05)
Green_stock _{ijt}	0.0608 (0.5791)	1.1222** (0.5507)	1.1222** (0.5507)
Green_stock _{ijt-1}	-0.00122** (0.0023)	-0.0183* (0.0095)	-0.0183* (0.0095)
Green_stock _{ijt-2}	2.0e-07** (1.0e-07)	3.0e-07** (1.2e-07)	3.0e-07** (1.2e-07)
Year fixed effects	Yes	Yes	Yes
Country-specific fixed effects	Yes	Yes	Yes
Industry-specific fixed effects	No	No	No
Observations		1999	

Group 1

Group 2

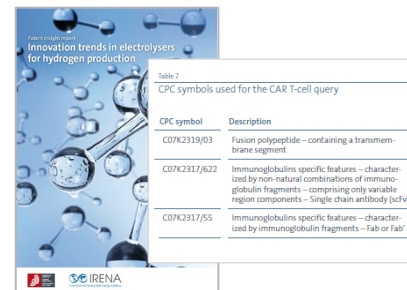
3: Further processing

- Further analyses/processing
- Visualisation
- Reporting



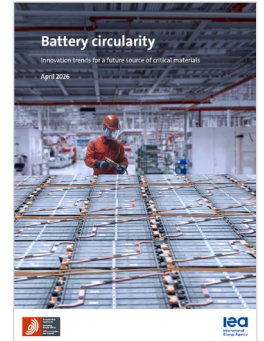
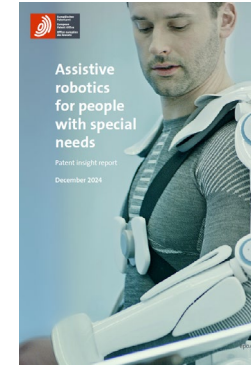
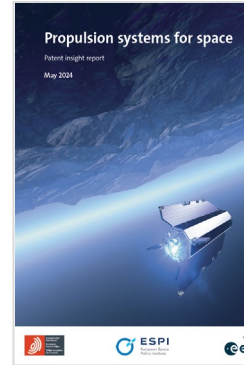
4: Dissemination

- EPO report
- Supplementary materials
- Promotion campaign
- Online seminars
- Speeches at conferences
- Technical papers



EPO TECHNOLOGY INSIGHT REPORTS: RECENT AND PLANNED ACTIVITIES

Topic	Status
mRNA technologies	Published (2023)
Offshore wind energy production	Published (2023)
Propulsion systems for space	Published (2024)
Assistive robotics for people with special needs	Published (2024)
Plastics in transition	Published (April 2025)
Advances in photovoltaics	Published (July 2025)
Digital agriculture	Published (September 2025)
Battery circularity	Published (April 2026)
AI in medicine	Planned (November 2026)



Available at: epo.org/insight-reports

THE EPO TECHNOLOGY INSIGHT REPORT ON ASSISTIVE ROBOTICS FOR PEOPLE WITH SPECIAL NEEDS



Assistive robotics for people with special needs

Patent insight report

December 2024

EPO TECHNOLOGY INSIGHT REPORT ON ASSISTIVE ROBOTICS FOR PEOPLE WITH SPECIAL NEEDS

Dynamic sub-field of robotics that focuses on the **development of robotic systems** that help individuals with disabilities and those needing assistance in their **everyday lives**.

Another important area of application of these robotic systems is the **recovery and rehabilitation of individuals** whose condition requires physical assistance.

EPO TECHNOLOGY INSIGHT REPORT ON ASSISTIVE ROBOTICS FOR PEOPLE WITH SPECIAL NEEDS

Distinction between conventional and assistive robotic walking aids:

	Conventional walking aids	Assistive robotic walking aids
Technology	Simple mechanical and often light-weight structures	Rather complex structures with various mechanical and electronic components
Functionality and purpose	Offer support and stability, but users still often need to exert significant physical effort to move Rehabilitation: Help to maintain mobility and independence	Offer active support, and sometimes initiate user movement Rehabilitation: Improve mobility; may be used in targeted therapy to support recovery and muscle formation
Target group	People with a wide range of mobility deficiencies	Mainly people with significant mobility deficiencies (for stroke patients, people with spinal cord injuries, etc.)
Adaptability to user needs	Usually limited to basic adjustments	Highly adaptable to the user's needs, often in real-time
Costs	Rather inexpensive	Often expensive

EPO TECHNOLOGY INSIGHT REPORT ON ASSISTIVE ROBOTICS FOR PEOPLE WITH SPECIAL NEEDS

Insight report covers various technologies related to six different robotic concepts, its characteristics and potential uses

Robotics concept	Types	Purpose		Nature of the needs			Specific target group	
		Rehabilitation	Support in the everyday life	Mobility	Mental health (cognitive, emotional)	Sensorial	Children	Elderly
Cobots		●	●	●		●		●
Therapeutic Robots		●					●	●
Robotic walkers		●	●	●		●	●	●
Assistive exoskeletons	Active exoskeletons for lower limbs	●	●	●			●	●
	Active exoskeletons for upper limbs	●	●					●
	Active exoskeletons for the whole body		●	●				●
Robotic mobile platforms		●	●	●		●		●
Humanoid and pet robots					●	●	●	●

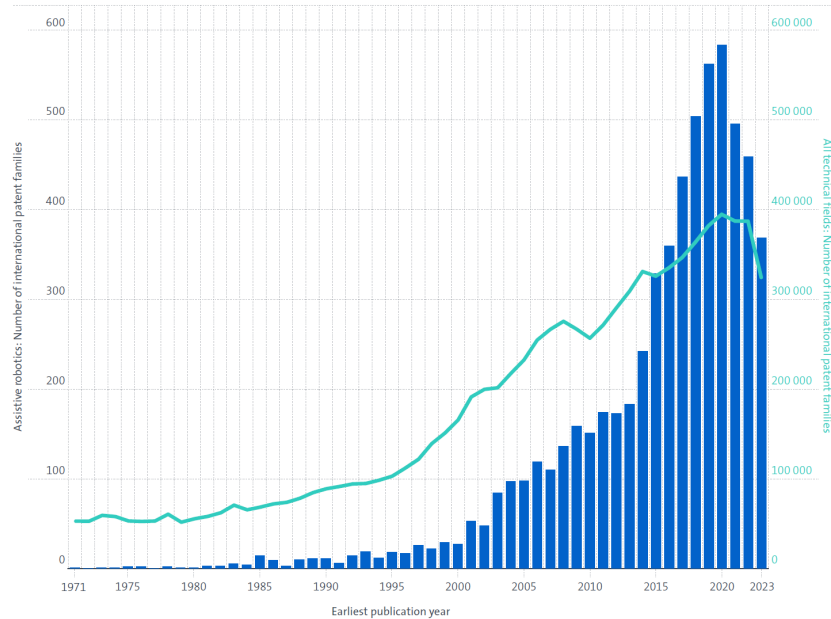
Details available at:
epo.org/insight-assistive-robotics

SOME TECHNICAL TERMS IN A NUTSHELL

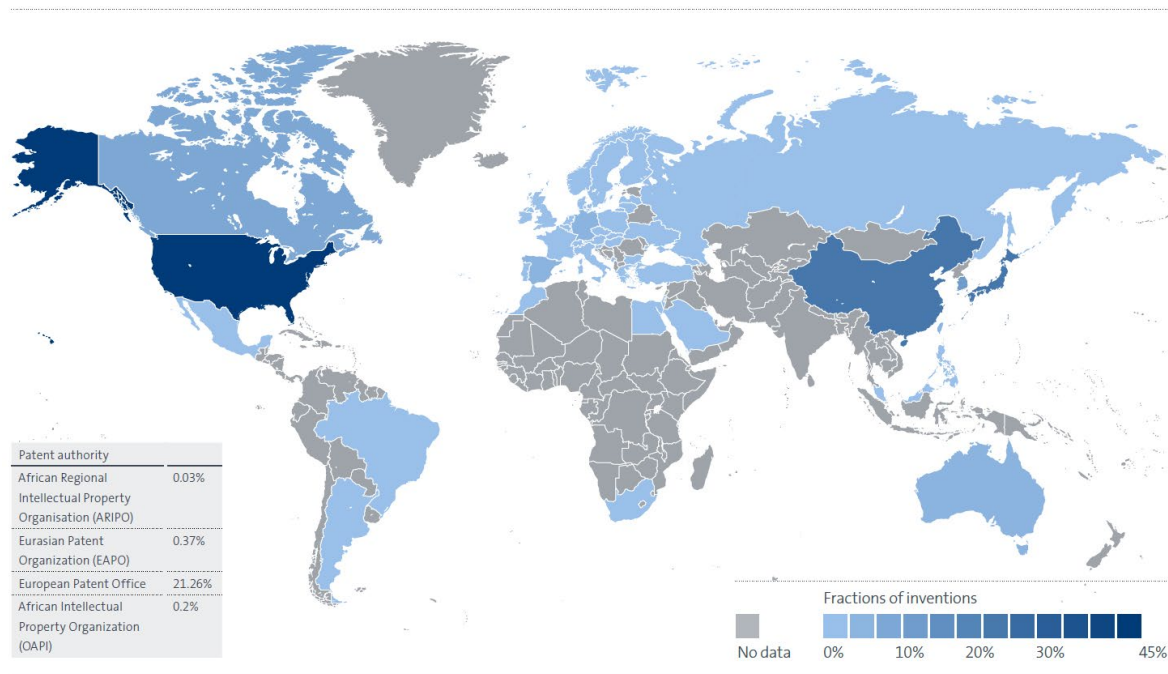
European patent	The European patent system makes it possible to obtain protection in up to 46 countries on the basis of a single application. As of 2023, it is also possible to request unitary effect for a granted European patent.	Invention	A practical solution to a (technical) problem. The invention may be a new product, process or apparatus or any new use thereof. To be patentable under the European patent system, an invention must be technical, novel, involve an inventive step (i.e. it must not be obvious to those having ordinary skill in the technical area of the invention), and be considered as susceptible of industrial application.
International patent family (IPF)	A set of applications for the same invention that includes a published international patent application, a published patent application at a regional patent office, or published patent applications at two or more national patent offices.	Patent	Legal title giving the patent owner(s) the right, for a limited period of time (usually 20 years as of the date of filing the patent application), to exclude others from using the protected invention in a commercial context without permission in those countries for which the patent has been granted. The protected invention is defined by the claims of the patent.
International patent application	Patent application filed under the Patent Cooperation Treaty (PCT). An international patent application may result in patent protection in more than 150 countries.	Patent application	Request for patent protection for an invention filed with the EPO or other patent office.

ASSISTIVE ROBOTICS IN A NUTSHELL: STEEP INCREASE IN INTERNATIONAL PATENT FAMILIES

Number of inventions by earliest publication year in the area of assistive robotics, limited to international patent families (left scale).
For comparison, the chart also shows the development across all technical fields combined (right scale).



ASSISTIVE ROBOTICS IN A NUTSHELL: GEOGRAPHICAL HOTSPOTS



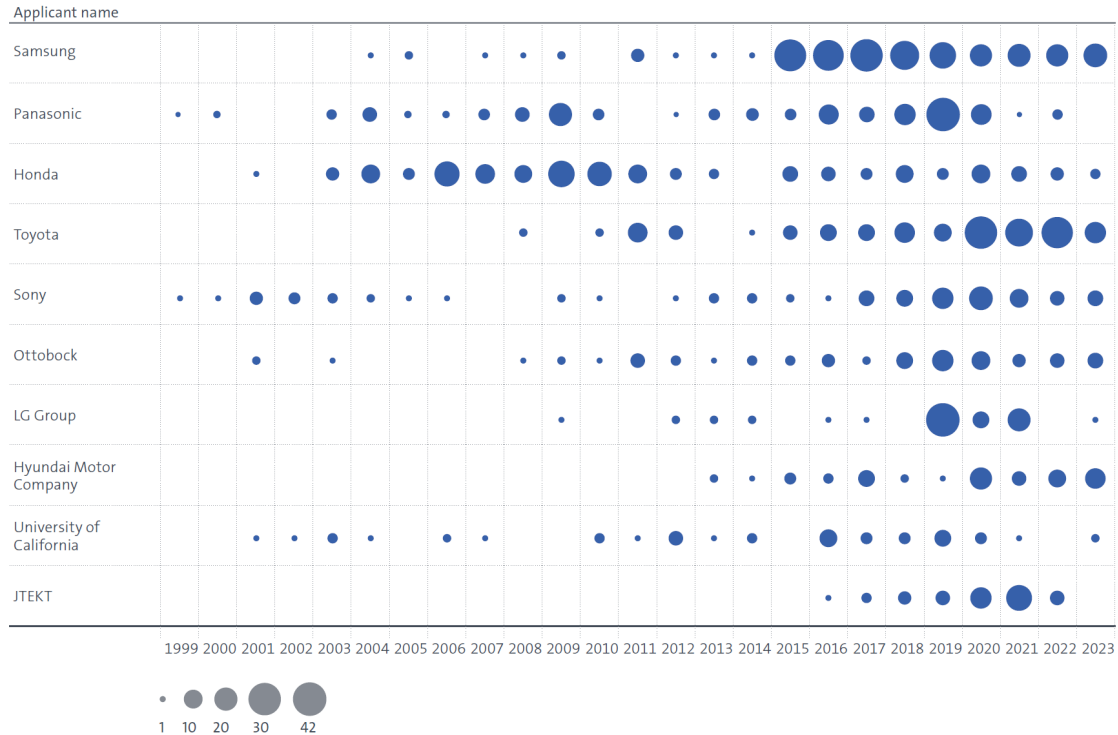
Source: EPO

ASSISTIVE ROBOTICS IN A NUTSHELL: TOP APPLICANTS

Most active applicants in the field of assistive robotics

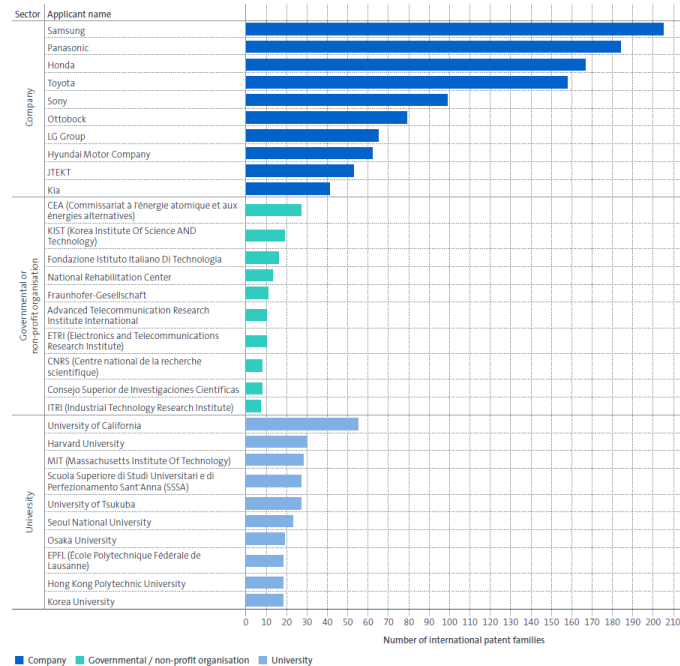
Applicant	Country	Sector	Number of international patent families
Samsung	KR	Company	206
Panasonic	JP	Company	184
Honda	JP	Company	170
Toyota	JP	Company	158
Sony	JP	Company	99
Ottobock	DE	Company	79
LG Group	KR	Company	65
Hyundai Motor Company	KR	Company	62
University of California	US	University	55
JTEKT	JP	Company	53

ASSISTIVE ROBOTICS IN A NUTSHELL: TOP APPLICANTS



ASSISTIVE ROBOTICS IN A NUTSHELL: TOP APPLICANTS

Most active applicants in the field of assistive robotics, with a breakdown according to main sectors to which the applicants belong



Source: EPO

SUMMARY OF IMPORTANT RESULTS

- Number of inventions in the field of assistive robotics multiplied over the last decade, with a recent decrease
- Upswing in filing numbers started in the early 2000s
- High proportion of International patent applications, suggesting high economic expectations with regard to the technologies in question
- Most active applicants in the field of assistive robotics are companies and universities from Korea, Japan, Europe and the United States

THE EPO'S OBSERVATORY ON PATENTS AND TECHNOLOGY: USEFUL SERVICES RELATED TO HEALTH TOPICS



TRANSFORMING PATENT DATA INTO EVIDENCE-BASED INNOVATION INSIGHTS

WHAT WE DO



Analyse and monitor technology trends



Publish research and case studies



Develop tools for the innovation ecosystem



Reach out to stakeholders through engagement activities

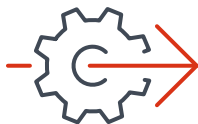


Support EU institutions with data-driven insights and technology cartographies

PURPOSE AND ADDED VALUE

To support better decisions by revealing innovation trends, anticipating emerging technologies, and strengthening Europe's competitiveness.

FOCUS AREAS OF THE OBSERVATORY



Technologies

Exploring the frontiers of technology, from cancer therapies and clean energy to quantum computing and beyond.



Foresight, policy and funding

Addressing how policies, funding and forward-looking analyses interact with patenting and innovation.



Innovation actors

Supporting inventors, researchers, startups, SMEs and institutions with information and tools to maximise the impact of their work.

COLLABORATION WITH EU INSTITUTIONS

We provide intelligence and support to several European institutions like EIC/ EISMEA, such as:

- **Technology Ownership analysis** based on patent data for **emerging technology** portfolios
- **Operational support to funding Juries**, patentability & technology **pre-evaluation for all requests** reaching jury stage
- In addition, EPO proposes training support in all aspects of patenting and patent-information

Patent cartographies on specific technical fields:






- DNA digital storage
- Cancer genomics
- Advanced Materials (Construction)
- Health Continuum
- Cell gene therapy
- Advanced Materials (Sustainable Electronics)
- Quantum Computing
- Advanced Materials (Storage)
- Hydrogen Technology

▶ Since 2023, the EPO provided its technical support for more than **170 projects**, representing **more than 350 M€** of requested funds by startups

DEEP TECH FINDER dtf.epo.org

Exploring deep technology in Europe • free digital tool

Over **13 000** startups and research institutions

-  **68 tech fields** Localise startups in their **technological fields**
-  **15 industry sectors** Combine **business** information with **patent** information
-  **Growth stage** Detect startups in their **development stage**
-  **Funding** Identify **investors** in startups
-  **European patents** Access to patent data on **Espacenet**



Recent releases

 **Mobile app** for iOS and Android

 New filters for **digital agriculture and quantum technologies**

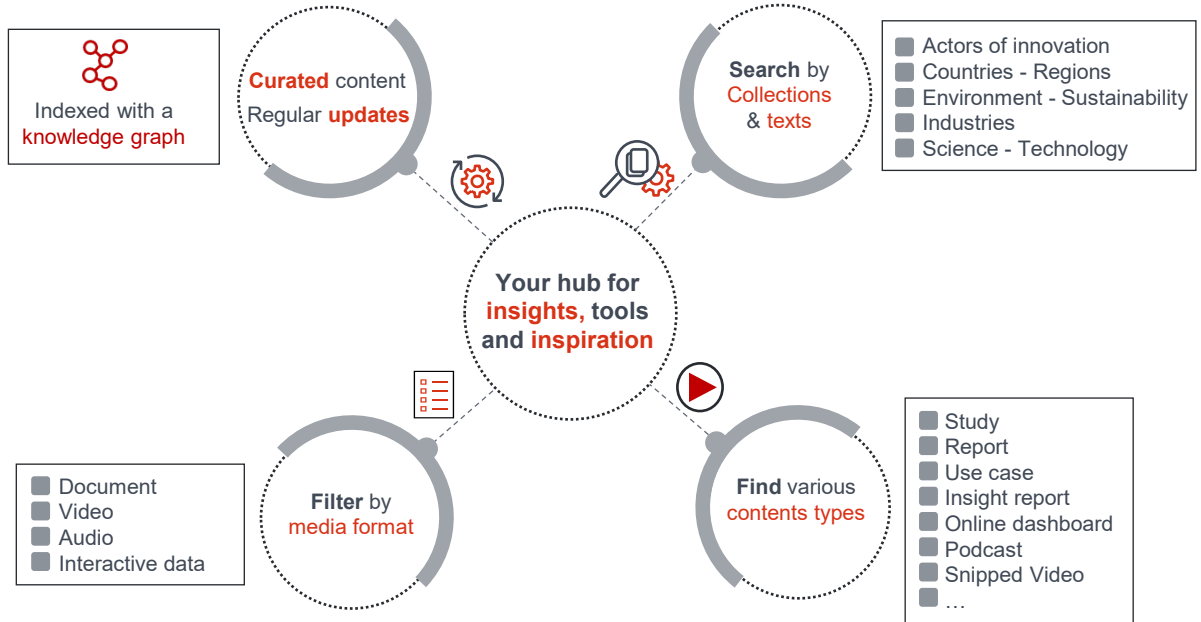
 Top European **public research organisations**

Future releases

 Improved technology exploration

DIGITAL LIBRARY ON INNOVATION – NOW LIVE!

"Exploring the knowledge about the ecosystem of the innovation process"



Digital Library Observatory on Patents and Technology

How can we help?
 Search by topic, country, region, industry, technology field.

The Observatory's digital library is a gateway to a wealth of critical analysis on technology and innovation. It provides easy access to studies by the EPO – some co-published with expert partners – and studies by our expert and stakeholder networks on technologies, economics, patent data and intellectual property (IP) law.

By making these resources more accessible, our main goal is to support those who 'source' how our IP system is used and who investigate trends in technological and economic development, policymakers, academics and journalists. Their work in turn gives us data and insights from various perspectives on the forces and actors in our innovation ecosystem.

Collections

In this library, curated collections guide you through various aspects of innovation ecosystems. Whether you're interested in who innovates, how it's fostered, or where it happens, collections help you explore related topics based on your interests.

<p>Actors of innovation</p> <p>The "who" in innovation: Organisations, individuals and public bodies</p>	<p>Countries and regions</p> <p>Innovation varies across regions and countries</p>	<p>Environment and sustainability</p> <p>Innovation aimed at greater sustainability and protecting the environment</p>
<p>Industries</p> <p>Trends and patterns in selected industries</p>	<p>Science and technology</p> <p>Technology and the science behind it</p>	

Latest additions

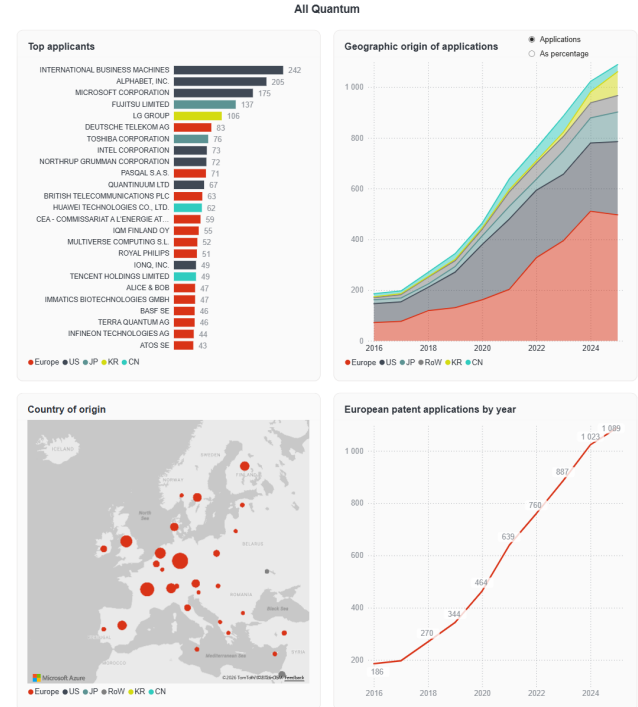
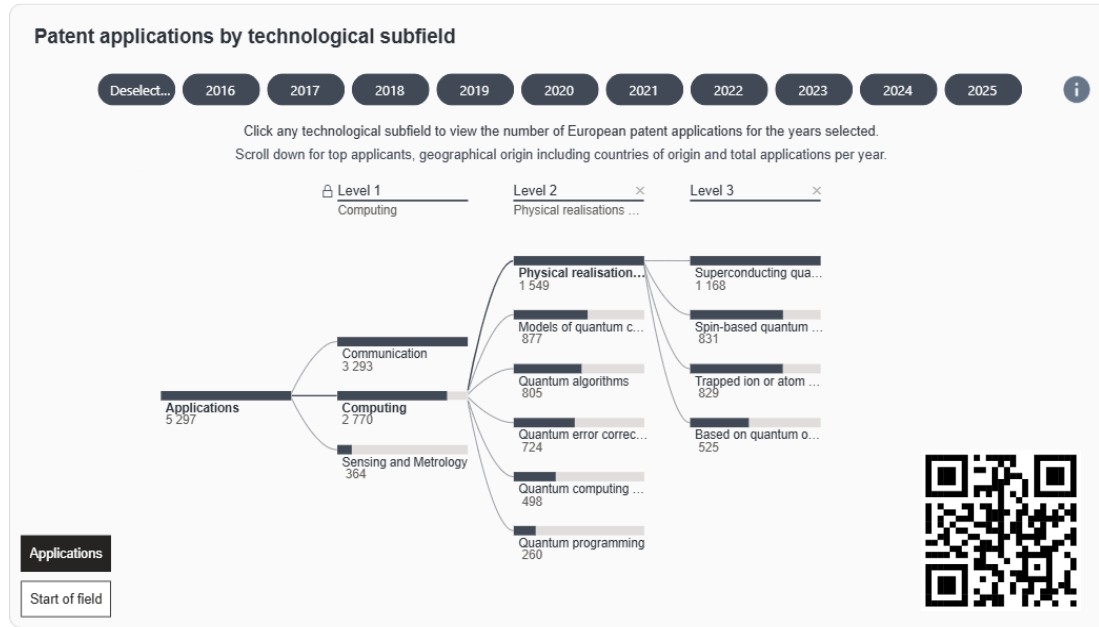
14.01.2024 - Study - EPO
Mapping Investors for European Innovators

The latest study by the European Patent Office (EPO) maps specialised technology investors and introduces a novel metric to help startups identify the...

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DATA DESK datadesk.epo.org

Strategic technology cartographies



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PATENTABILITY ISSUES IN THE FIELD OF HEALTHCARE ROBOTICS

VLADIMIR SHMONIN | PATENT EXAMINER IN THE FIELD OF HEALTH TECHNOLOGY | DIRECTORATE 1122 | 24.06.2026 | VERSION: 001

AGENDA

1. The three interfaces of a health robot
2. One claim, repaired live: Art. 53(c) EPC and two ways to fix it
3. The AI feature: inventive step and sufficiency
4. Claim language and the most common weak points
5. Practical advice

All claims are fictional and simplified for teaching purposes.

HEALTH ROBOTICS SIT AT A **TRIPLE INTERFACE**

Machine

(e.g. soft) structures

actuators

sensors

mechanical safety

Intelligence

sensor fusion

control loop

AI / ML model

prediction



Patient

wearer / patient

rehabilitation

gait therapy

therapy

Different patentability problems can arise at any of the three interfaces:

novelty, inventive step,
sufficiency of disclosure
(Art. 54, 56, 83 EPC)

computer-implemented
inventions: the “two
hurdles”

Art. 53(c) EPC
exception: specific to
health technologies

THE PROJECT ABSTRACT CLAIM (WITH HIDDEN PROBLEMS), **REPAIRED LIVE**

A **computer-implemented method for rehabilitating a patient having impaired gait**, comprising:

- (a) fitting a **soft, lightweight and comfortable smart-fabric exoskeleton garment** to a lower limb of the patient;
- (b) acquiring muscle-activity signals and inertial signals from sensors embedded in the garment;
- (c) using a **powerful artificial-intelligence model** to predict movement intent and provide **optimal variable stiffness**;
- (d) inflating a fabric actuator based on the predicted movement intent to apply assistive torque to a joint; and
- (e) thereby **restoring normal gait function and improving rehabilitation in a predictive and immersive manner**.

PITFALL 1 : METHOD OF THERAPY

A ... method for rehabilitating a patient... ..
patient having impaired gait ...
... applying assistive torque to a joint ...
... restoring normal gait function ...

Examiner's verdict:

Excluded under **Art. 53(c) EPC**: method of treatment of the human body by **therapy**

- The claim is directed to treatment of a patient.
- The technology is not excluded; this way of claiming it is.
- One therapeutic step is enough in a multi-step method to get an Art. 53(c) EPC objection.
- Removing “restore gait” will not remove the implicit therapeutic act.

WHY ARE METHODS OF THERAPY EXCLUDED UNDER ART. 53(C) EPC ?

- Purpose: medical practitioners must remain **free to apply the best available treatment** (G 1/07)
- “Therapy”** includes curing, alleviating or lessening the symptoms of a disorder - including **prophylaxis** (G 1/04)
- Rehabilitation of an impaired gait is normally therapeutic
- One therapeutic step** is sufficient to exclude an entire multi-step method (G 1/04, G 1/07)
- It is **irrelevant who performs** the method - therapist, patient or the machine itself (it is still excluded)
- A **computer-implemented** version remains excluded - a computer does not change the therapeutic nature (T 1680/08)
- The technology is not excluded - this way of claiming it is**

FIRST REPAIR ATTEMPT: “METHOD OF OPERATING THE DEVICE”

A method of operating a wearable assistive garment fitted to a user having impaired gait, comprising:

- (a) receiving EMG and inertial signals from sensors worn by the user;
- (b) predicting an intended joint movement; and
- (c) inflating an actuator to apply assistive torque to the user’s joint during gait training.

Examiner’s verdict:

Still excluded under **Art. 53(c) EPC** (in this example)

Why?

- ❑ The claim still describes a closed loop: a signal from the body steers an action applied back to the same body.
- ❑ The patient is still present in substance, even if the word “patient” is gone.
- ❑ Removing “restore gait” will not remove the implicit therapeutic act.

Note: a device-operation method can be allowable under Art. 53(c) if it has no functional link to treatment.

FIRST WAY TO ADDRESS ART. 53(C) : “**A NON-THERAPEUTIC METHOD**”

A non-therapeutic method of assisting movement of a wearer during load handling, comprising: receiving EMG and inertial signals; predicting intended joint movement; and inflating the actuator to assist the movement.

Needs basis in the application as filed (Article 123(2) EPC).

- ❑ Only allowed if the application as filed supports that (non-therapeutic) use (Art. 123(2) EPC) - separable vs inextricably linked: for example, the original description teaches industrial assistance, ergonomic load handling, sports training, or testing the garment on an able-bodied user.

SECOND WAY TO ADDRESS ART. 53(C) – CHANGE TO A PRODUCT CLAIM

A wearable assistive garment comprising:

- (a) a textile support structure wearable around a joint;
- (b) an inflatable fabric actuator arranged to generate torque about the joint;
- (c) an EMG sensor and an inertial sensor;
- and
- (d) a controller configured to control inflation of the actuator based on sensor signals.

Art. 53(c) EPC problem removed

- ❑ Article 53(c) EPC, second sentence:
... this provision shall not apply to products ...

Note: there is no 'second medical use' for devices (only for substances) :

Art. 54(4)/(5) EPC covers only substances and compositions

'an apparatus for use in rehabilitation'



'Use of the apparatus in rehabilitation'

AI AS A CLAIM FEATURE: TWO HURDLES AND DISCLOSURE

... a controller configured to predict an intended movement of the user **using an artificial-intelligence model** and to control inflation of the actuator accordingly.

**A GENERIC “AI” FEATURE
(BUZZWORD)**

1st hurdle

technical means

Usually not the issue for a device claim

2nd hurdle

inventive step

“Using AI” does not identify the technical contribution

Disclosure

sufficiency

What inputs, labels, output and performance are taught?

COMVIK approach (T 641/00; Guidelines G-VII, 5.4): *only features with technical character count for inventive step. A non-technical aim may enter the problem as a given constraint — it cannot supply the inventive step.*

AI: THE SUBSTANTIATED FEATURE

- c) a controller configured to:
 - (i) **predict an onset time** of an intended leg movement by processing the acquired muscle-activity signals with a **trained neural network**; and
 - (ii) start inflating the actuator **a lead time before the predicted onset time**, the lead time corresponding to an **inflation delay of the actuator**.

- Concrete technical purpose:** the prediction compensates the actuator's inflation delay - assistance arrives *at* the movement, not after it
- Controlling a physical system on the basis of measurements is a **technical application** of a mathematical method (*Guidelines G-II, 3.3 and 3.3.1*)
- Inventive step may rest on this **specific adaptation** - not on the mere use of a neural network

SUFFICIENCY OF DISCLOSURE FOR MACHINE LEARNING (ART. 83 EPC)

- ❑ **T 161/18** - a neural network in a medical device; the application stated only that the network is *trained with patient data*
- ❑ Which input data, how obtained and labelled - **not disclosed** → **insufficiency of disclosure (Article 83 EPC)**
- ❑ The alleged improvement could then **not support inventive step** either
- ❑ **For your applications: describe input features, labelling and data characteristics so that the effect is reproducible**
- ❑ The requirement is **reproducibility of the effect** - not publication of the (raw) data set

THE LANGUAGE OF THE CLAIM (ART. 84 EPC)

As found in many first drafts:

A **soft, lightweight** and **comfortable** wearable garment made of **high-strength smart** fabric, providing **improved** variable stiffness and a **superior** force-to-weight ratio, wherein a **powerful** AI model assists the user **in a predictive and immersive manner**.

- ❑ **Relative terms** define no objective boundary (Guidelines F-IV, 4.6)
- ❑ “Assists ... in a predictive manner”: a **result to be achieved**, not the means (F-IV, 4.10)
- ❑ **Parameters** are welcome - together with the **measurement method and conditions** (F-IV, 4.11)
- ❑ **Trade marks** do not belong in claims (F-IV, 4.8);
- ❑ State **all features essential for the effect** (F-IV, 4.5)

FIVE WEAK POINTS WE OFTEN SEE

- 1. Claiming the therapy instead of the technology** - device, program and manufacturing claims remain available (Art. 53(c))
- 2. Publishing before filing - no general grace period in Europe** (Art. 54(2)): the conference demonstration, the online video, the open-access paper become prior art *against your own application* - **file first, publish after**
- 3. Research-paper descriptions** - results and validation, but too little implementation detail to reproduce the invention (Art. 83), especially training data
- 4. Proposal vocabulary in the claims** - relative terms, results to be achieved (Art. 84) and no fallback positions for later amendment (Art. 123(2))
- 5. Relying on a new medical use of a known device** - purpose-limited protection (Art. 54(4)/(5)) exists **only for substances and compositions**

IS THE EXAMINATION OF AI IN ROBOTICS CHANGING?

- ❑ **The legal framework is stable:** the same two hurdles, the same problem-solution approach
- ❑ The guidance has been consolidated: dedicated **AI/ML section** in the Guidelines (G-II, 3.3.1); **G 1/19** confirms the established approach for computer-implemented inventions
- ❑ Greater weight on **sufficiency for machine learning** (T 161/18 and subsequent case law)
- ❑ **AI that controls a physical system is generally on the favourable side of the line - when disclosed and claimed concretely**

PRACTICAL ADVICE

- ❑ **File before you publish** - then publish as planned
- ❑ Study **granted claims** in your field - free via **Espacenet** (e.g. classes A61H, B25J)
- ❑ Search broadly : A61H, B25J, G05B, G06N, G16H, prosthetics, cobots, soft actuators
- ❑ Choose claim categories deliberately: device/system, control method, computer-program product, manufacturing method
- ❑ Describe AI as engineering: inputs, labels, output, training/calibration and validation metric
- ❑ Involve a **professional representative** early

SUMMARY

- ❑ Health-robotics inventions meet **three sets of requirements**: the machine, the intelligence, the patient interface
- ❑ **Art. 53(c) EPC** excludes treatment methods - **products and manufacturing methods remain available**; the wording decides
- ❑ AI features support inventive step when they serve a **concrete technical purpose** and are **sufficiently disclosed**
- ❑ Claim language: **precise, measurable, complete** - proposal vocabulary belongs in proposals

Thank you.

LEARNING RESOURCES

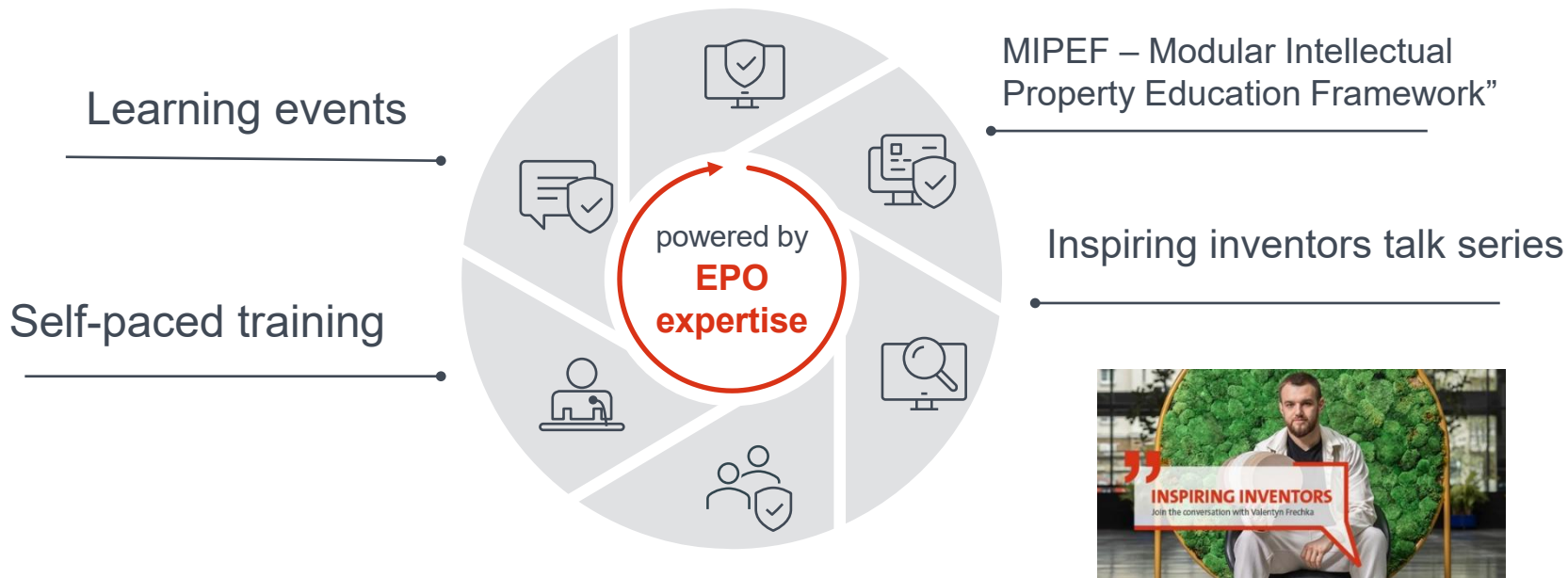
JÜRGEN MÜHL, EUROPEAN PATENT ACADEMY, 20 MARCH 2026

THE EUROPEAN PATENT ACADEMY <https://www.epo.org/en/learning>

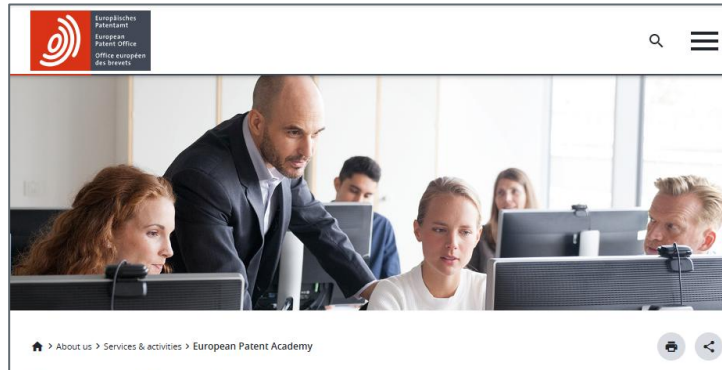
- Patent-related education opportunities to stakeholders in Europe and beyond.
- Wide range of audiences: examiners and national patent office staff, patent attorneys and professionals, inventors, businesses, universities, technology transfer centres and anyone interested in patent-related topics
- Areas covered: patent granting, patent information, technology transfer and patent litigation and enforcement.
- Self-paced training courses and learning events.

OUR OFFER

Supporting IP awareness and promoting IP education



LEARNING EVENTS – SEARCHING FOR UPCOMING SESSIONS



European Patent Academy

The European Patent Academy is the external education and training centre of the EPO, reflecting the need to improve intellectual property training and education.

Set up in 2004, the Academy operates in partnership with a broad range of stakeholders, including the European Union Intellectual Property Office (EUIPO).

Areas and audiences

The Academy's activities are structured around three training areas: **dissemination, and patent litigation and enforcement**. These activities are aimed at the inception of a patentable

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LEARNING EVENTS – SEARCHING FOR UPCOMING SESSIONS

Filter options **3**

Start Date —

From
23-03-2026 

to
30-04-2026 

Language —

English 8

Fee —

All
 Free
 Paid

Format —

Online 8

Target audience —

Patent attorneys and paralegals 15
 Business and IP managers 6
 National Offices and IP authorities 5
 Universities, research centres and technology transfer centres 2
 PATLIBs 1

Available languages —

English 3

Training area —

Technology transfer and dissemination 8

Location +

Activity type —


Seminar 3
 Lecture 3
 Course 1
 Workshop 1

Level —

Intermediate 4
 Entry 3
 Advanced 1



1 - 8 of 8 search results




E-Learning Courses/Events

IP assessment: a practical workshop for innovators and entrepreneurs

€ Free 3h Certification

This workshop is a follow-up for those who attended the seminar "IP assessment: how to improve informed decision-making" ...

Learning




E-Learning Courses/Events

Intellectual property rights for deep tech businesses

€ Free 8h

This training activity aims to provide the target audience with the knowledge and skills to handle IP-related matters in the early stages of busine...

Learning




E-Learning Courses/Events

Protect your IP: Patents and health technology - focus on robotics

€ Free 1h

This lecture series, organised in collaboration with the European IP Helpdesk, explores key aspects of intellectual property (IP) across five...

Learning



E-Learning Courses/Events

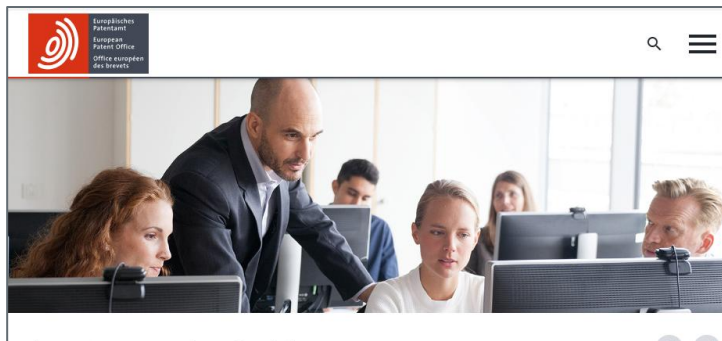
Legal event codes from Asia in INPADO

€ Free 1h

With over 60% of all patent applications now originating from Asia, it is increasingly important not only to monitor filings but also to stay infor...

Learning

ON-LINE LEARNING RESOURCES: SELF-PACED TRAINING



Home > About us > Services & activities > European Patent Academy

European Patent Academy

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ON-LINE LEARNING RESOURCES: SELF-PACED TRAINING




Patent granting
Why and how to apply for and obtain a European patent

→ See Courses




Patent tools and analytics
How to search, analyse and use patent data to support innovation

→ See Courses




Patent litigation
How to defend or fight against existing patents

→ See Courses



Technology transfer and IP dissemination
How to turn research into innovation and bring IP to market

→ See Courses



EQE and EPAC
How the EPO can help you preparing for the examination

→ See Courses



IP Assessment: How to improve informed decision-making | BS20-2026



This training focuses on the IP-related challenges and issues that arise during systematic assessment of technologies and patents. It offers effective strategies and introduces the tool, IPscore, that you can use to evaluate your research projects and innovations. It will give you a clearer picture of their commercialization potential and support strategic decision-making by helping you set priorities that save time and resources. The program is designed for R&D project leaders, entrepreneurs, and intrapreneurs: intellectual capital managers in small and medium-sized enterprises (SMEs), start-ups, technology transfer offices and investors.

EPO search tools to improve business decisions | BS01-2026

A seminar demonstrating how to effectively use the EPO's free search tools and the additional features offered by more advanced tools, that are of particular use to business decision makers.

Main subject matter:

- Using Espacenet to filter and analyse search results
- Using PATSTAT for more advanced statistics

Train the Trainer Espacenet | NW02-2025



This course enables you to plan and implement courses on Espacenet and other EPO search tools quickly and in a resource-efficient way. It is based on case studies, two of which you will look at as examples and another three on which you will actually work in hands-on sessions and transform by following the training approach.

How to make best use of the unitary patent system | BS03-2025



This training focuses on the advantages offered by the Unitary Patent system. Exploring how businesses can harness these benefits to protect and monetise their intellectual property paves the way for subsequent trainings featuring selected case studies from different industries. This training may be also of special interest for PATLIB centres.

Train the Trainer Espacenet | NW01-2026



This course enables you to plan and implement courses on Espacenet and other EPO search tools quickly and in a resource-efficient way. It is based on case studies, two of which you will look at as examples and another three on which you will actually work in hands-on sessions and transform by following the training approach.

Patenting Innovation (RTPP-recognised) | NV07-2025



Patents are a powerful asset in the toolbox of a technology transfer professional. This two-day interactive course covers how innovative ideas are protected within the patenting system.

INSPIRING INVENTORS TALK SERIES

Inspiring inventors: Talk series

e-learning centre > Courses > Courses > Inspiring inventors: Talk series

Information

+ open all - close all

Marie Perrin: Transforming e-waste into a valuable resource

Valentyn Frechka: Turning fallen leaves into sustainably made paper

Rhona Togher: Reducing noise with an advanced acoustic material

Together with **Eimear O'Carroll**, **Rhona Togher** developed an advanced acoustic material to tackle noise pollution. What began as a school science fair project evolved into a business with a unique product and exceptional potential. In this episode, Rhona delivers a masterclass in IP and provides a fascinating look at acoustic technology.

Learn more about the inspiring inventors **Eimear O'Carroll**, **Rhona Togher** (IE).

Watch the recorded talk

07:42

EUROPEAN INVENTOR AWARD

European Inventor Award finalists share their success stories on patenting and commercialising their inventions

[Course: Inspiring inventors: Talk series | e-learning centre](#)

Modular IP Education Framework (MIPEF)

Benefits

- Enrich your curriculum with a free of charge and high-quality IP course co-labelled with the European Patent Office
- Integrate a flexible, ready-made offer tailored to Master's and PhD programmes
- Adapt content easily to your academic calendar and specific course needs
- Benefit from expert-led online sessions and engaging, modular formats
- Inspire students with real-world case studies featuring European Inventor Award finalists and winners
- Provide students with the opportunity to earn an EPO certificate and ECTS credits
- Increase career opportunities for students through IP education



MIPEF timeline

- Courses are being offered twice a year with an autumn and a spring edition

Create – Protect – Innovate: Bringing ideas to market

Part 1: Entry level

- Module I**
Introduction to IP
- Module II**
Patent essentials
- Module III**
Introduction to patent information
- Module IV**
Patent information in practice
- Module V**
Developing an IP strategy

→ [Syllabus Entry](#)

→ [Course Description Entry](#)

→ [Overview of skills and learning outcomes](#)

Part 2: Advanced level

- Module I**
Grant of patents
- Module II**
Enforcement of patents
- Module III**
Scouting and assessment of technology
- Module IV**
IP commercialisation
- Module V**
Use of IPRs

→ [Syllabus Advanced](#)

→ [Course Description Advanced](#)

Over
100 partner
universities
across Europe

MIPEF

Modular IP Education Framework



- | | | | |
|--|--|---|---|
| AL Polytechnic University of Tirana | DE Technical University of Dresden
Technical University of Munich
Ludwig Maximilian University of Munich
Technical University of Ilmenau
Karlsruhe Institute of Technology
RWTH Aachen University
Technical University of Darmstadt
University of Konstanz
University of Ulm
Technical University of Dortmund | GR International Hellenic University
National and Kapodistrian University of Athens
University of Western Macedonia
University of West Attica | IE Maastricht University
University of Groningen |
| AT Graz University of Technology
University of Graz
Technical University of Leoben
Wirtschaftsuniversität Wien | DK Aalborg University | HU Obuda University | PL Cardinal Stefan Wyszyński University in Warsaw
Jagiellonian University
University of Silesia in Katowice
AGH University of Krakow |
| BE University of Antwerp | ES Tallinn University of Technology | IT Trinity College Dublin
Technical University of Shannon
Atlantic Technological University
University College Cork | PT Técnico University of Lisbon
NOVA University Lisbon
University of Trás-Montes and Alto Douro
Polytechnic University of Coimbra
University of Algarve
Polytechnic Institute of Castelo Branco |
| BG Sofia University
Trakia University | FR Carlos III University of Madrid
Pompeu Fabra University
University of Alicante
University of Valencia
Autonomous University of Barcelona
University of Alcalá
Comillas Pontifical University
University of Barcelona
Polytechnic University of Catalonia
University of Zaragoza | IS University of Iceland | RO Babes-Bolyai University
West University of Timișoara
University of Agronomic Sciences and Veterinary Medicine of Bucharest
Technical University of Cluj-Napoca |
| CH École Polytechnique Fédérale de Lausanne
ETH Zurich
University of Bern
University of Zurich | IT Bocconi University
University of Brescia
Sant'Anna School of Advanced Studies – Pisa
University of Parma
Polytechnic University of Turin
Sapienza University of Rome
University of Calabria
University of Insubria
Libera Università Mediterranea
University of Naples Federico II
IUSS University School of Advanced Studies in Pavia
University of Taramo
University of Perugia
Ca' Foscari University of Venice
University of Rome III
IMT School for Advanced Studies
Università Cattolica del Sacro Cuore | SE University of Belgrade | RS University of Belgrade |
| CY University of Cyprus
Open University of Cyprus | LU EIT KIC Manufacturing
EIT HEI
28Digital | SI University of Ljubljana | SK Stockholm University
Karolinska Institute
Chalmers University of Technology |
| CZ VSB - Technical University of Ostrava | HR University of Turku
Hanken School of Economics
University of Oulu | SM Comenius University Bratislava
University of San Marino | UA Comenius University Bratislava
University of San Marino |
| | FR University of Strasbourg
Paris-Saclay University
University of Technology of Compiègne | LV Rīga Stradiņš University
University of Latvia
Latvian University of Life Sciences and Technologies | TR Istanbul Bilgi University
Ankara University
Koc University
Istinye University
Yildiz Technical University |
| | GB University of Leeds- Faculty of Engineering & Physical Sciences
Centre for IP Policy & Management,
Bournemouth University
University of Portsmouth
University of Exeter
University of Liverpool | MT University of Malta | |

mipef@epo.org

[Modular IP Education Framework \(website\)](#)

**EU - Webinar EPO Coop: Protect your IP in health
technology: Focus on robotics and health appliances**



European
IP Helpdesk

Soft Wearable Assistive Garments: The EU SWAG Project



Panagiotis (Panos) Polygerinos, Ph.D.

Associate Professor of Soft Robotics and Mechatronics

Department of Mechanical Engineering

Hellenic Mediterranean University

and

Department of Industrial Design and Production Engineering

University of West Attica



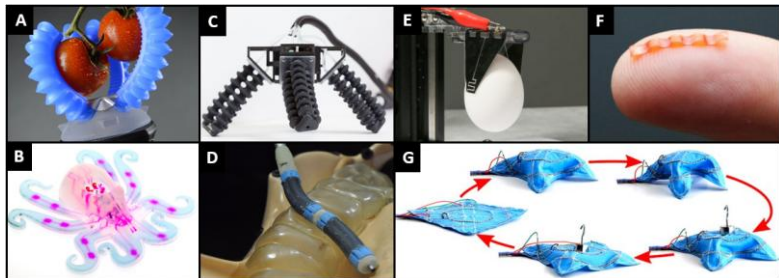
24.06.2026



This project has received funding from the European Union's Horizon Europe programme under Grant Agreement No 101120408

Project Motivation

- **Soft robotics** has become one of the fastest growing fields in robotics over the past decade...



(A) pneumatic grasping without prior knowledge of size and shape (Soft robotics Inc., 2012), (B) robot powered by chemical reactions and microfluidic logic (M. Wehner, 2016), (C) legged robot navigating unstructured terrains (D. Drotman, 2017), (D) stiffness-controllable robot for minimally invasive surgeries (A. Stilli, 2014), (E) gripper uses electroadhesion to grasp (J. Shintake, 2016), (F) light-driven robot mimics caterpillar locomotion (M. Rogó , 2016), (G) roboticized fabric powered by functional fibers (T. L. Buckner, 2020).

Compared to their rigid counterparts:

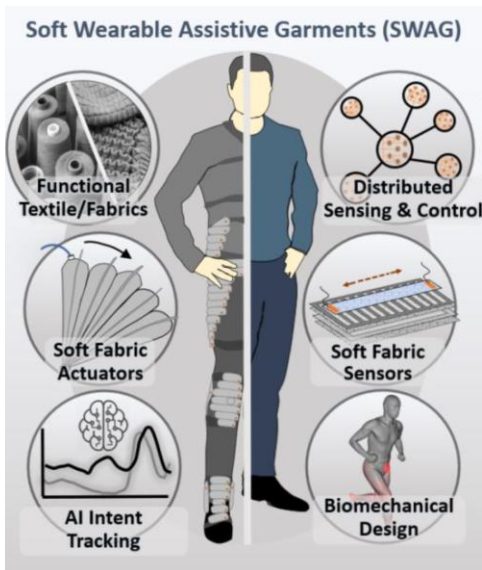
- lighter than rigid exoskeletons
- higher variable stiffness and force-to-weight ratios
- centralized weight at center of mass, reducing limb inertia
- soft, compliant drives adapt to joint kinematics
- concealable under clothing, lowering psychological burden

- **Soft exosuits** have valuable applications in industry, the military, healthcare and more, but remain **a challenging research area** requiring multidisciplinary expertise in biomechanics, robotics, neuroscience, and ergonomics.



Selection of indicative wearable soft robotic solutions that utilize fluidic and cable driven principles of operation to assist individual biological joints with motion of: (A) the wrist (N. W. Bartlett, 2015), (B) the elbow (T. Noritsugu, 2008), (C) the hand (P. Polygerinos, 2015), and (D-F) the legs (M. Wehner, 2013, K. Subramanyam, 2015, Y.-L. Park, 2014).

Project Ambition



- SWAG aims to be the **first soft exosuit** providing **active** actuation at **all lower body joints** simultaneously: lower back, hip, knee, and ankle.
- SWAG aims to **broaden SWRs' use** across various sectors, aiding users with many daily tasks.
- SWAG's progress will be **validated** through **four** diverse demonstration cases:

❖ As a motion assistance exosuit for individuals with **mobility impairments**

❖ In an **occupational enhancement** context

❖ As **wellness training** gear offering resistive training for athletes.

❖ As a **haptic feedback** solution integrated with **VR** to deliver an immersive experience.

Project Partners

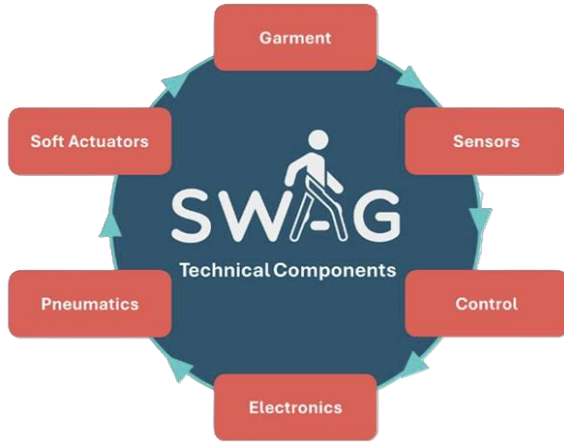


- 13 Partners
- 7 countries



Project Specifics

“SWAG will bring together several core technologies to enhance the way soft wearable robots can assist human motion”



Duration: 48 months (2023-2027)

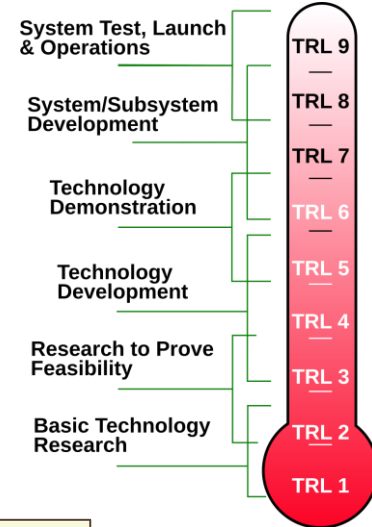
Started: November 1st, 2023

Total Budget: **6,896,312.50 €**

EU budget: 5,366,195.00 €

Associated Partners Budget: 1,530,117.50 €

- SWAG began at **TRL 2/3**, as some its system modules had never been combined or tested before in soft wearable robotics.
- Partners leverage prior research to develop an integrated prototype, aiming for **TRL 5** validation in relevant environments.



By Hari Seldon

This level of R&D provides opportunities for the creation and evaluation of innovative ideas with potential exploitable results...

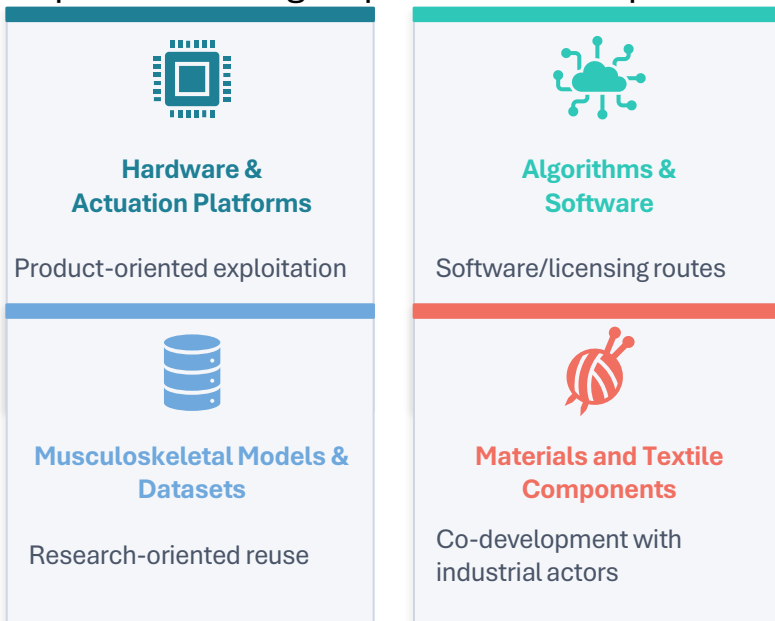
Exploitation and IAM workflow

From research output to exploitable assets:



Managing SWAG results as a portfolio

- The KER portfolio was grouped into four exploitation routes:

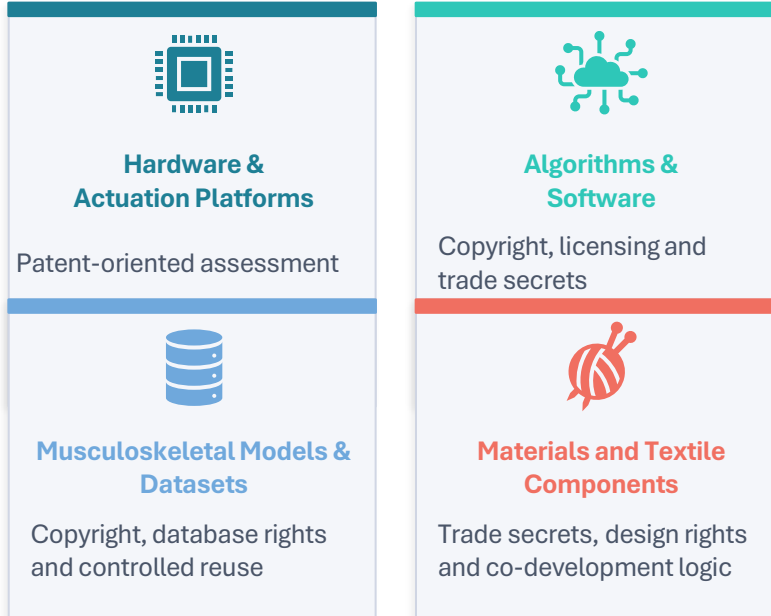


Key exploitable results	Work Package
1. Soft wearable actuators	WP4
2. Embedded sensors for soft actuator shape sensing	WP4
3. Smart sensorized textiles	WP4
4. Computational models for soft actuator design	WP4
5. Portable fluidic platform	WP5
6. Miniaturized pumping system for actuator control	WP5
7. Real-time user intent tracking algorithms	WP6
8. Distributed multi-node control algorithms for fluidic platforms	WP6
9. Musculoskeletal Models	WP3
10. Integrated SWAG Solution	WP7
11. Biomechanics Datasets	WP8

Each cluster requires a different approach to timing, ownership, protection, and route to uptake.

Different assets, different protection logics

- IAM activities established a differentiated protection framework



Key exploitable results	Work Package
1. Soft wearable actuators	WP4
2. Embedded sensors for soft actuator shape sensing	WP4
3. Smart sensorized textiles	WP4
4. Computational models for soft actuator design	WP4
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10. Integrated SWAG Solution	WP7
11. Biomechanics Datasets	WP8

From IAM framework to concrete IP case studies

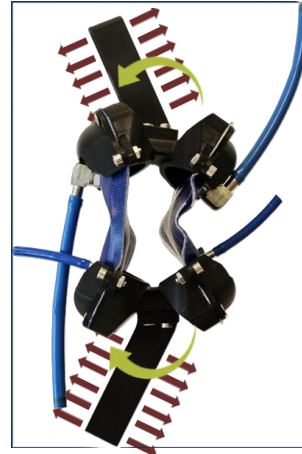
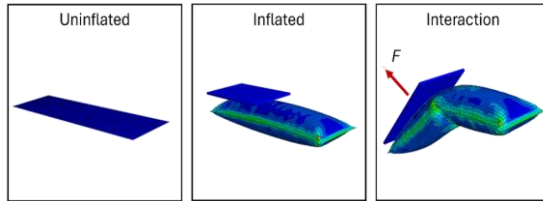
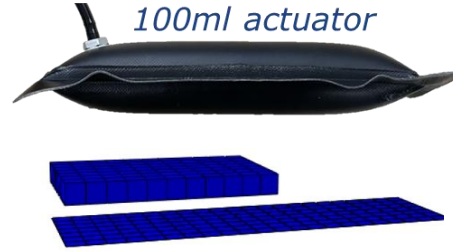
Within SWAG, the exploitation and IAM process helped the consortium identify results where patent-related discussions became particularly relevant.

- **KER1 – Soft Wearable Actuators**
- **KER5 – Portable Fluidic Platform (ValVida)**

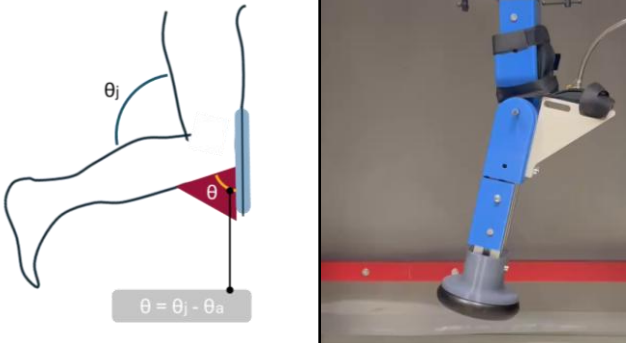
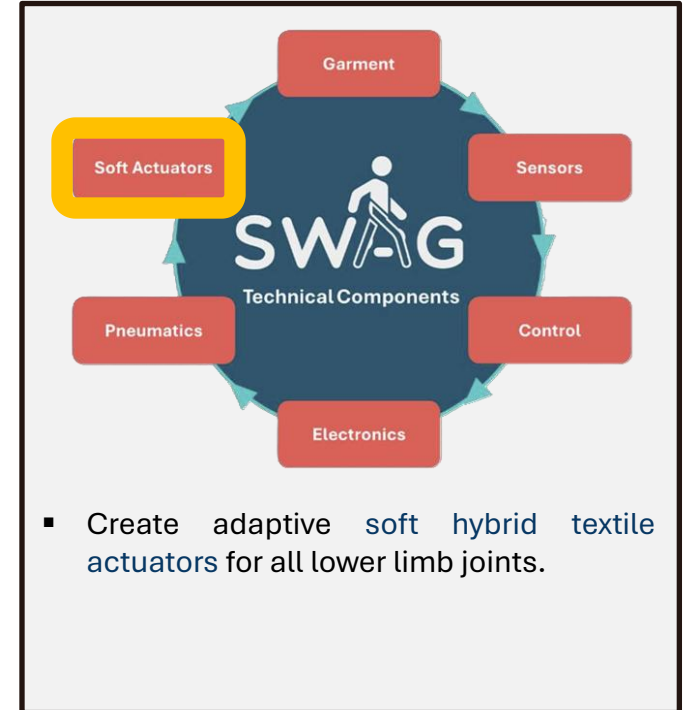
→ Patent-related work is progressing selectively, in line with the portfolio-based IAM approach

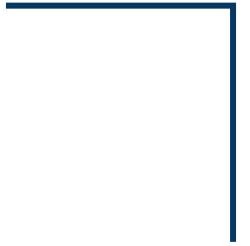
KER 1: Project Specifics

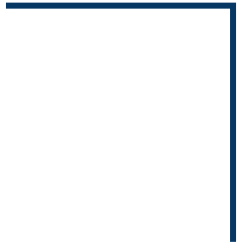
“SWAG will bring together several core technologies to enhance the way soft wearable robots can assist human motion”



SWAG objectives:







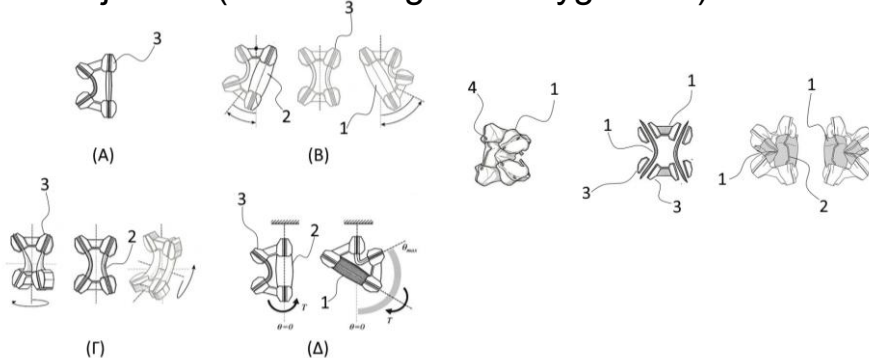
IP protection – KER 1 Soft Actuators

The gap:

- The potential inventive step was identified in the design and utility of the novel soft actuators
- Utilizing the research project outputs a patent application was drafted in collaboration with the Technology Transfer Office of HMU

Inventors:

- PhD student (Mr. Odysseas Simatos) 50%
- Project PI (Prof. Panagiotis Polygerinos) 50%



Συνέργεια
ΓΡΑΦΕΙΟ ΜΕΤΑΦΟΡΑΣ
ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΚΑΙΝΟΤΟΜΙΑΣ

 ΟΡΓΑΝΙΣΜΟΣ ΒΙΟΜΗΧΑΝΙΚΗΣ ΙΔΙΟΚΤΗΣΙΑΣ		ΑΙΤΗΣΗ ΓΙΑ ΧΟΡΗΓΗΣΗ ΔΙΠΛΩΜΑ ΕΥΡΕΣΙΤΕΧΝΙΑΣ	
Στοιχεία αίτησης :			
Αριθμός υπόθεσης :	000017808	Αριθμός υπόθεσης e-filing :	118-0005033424
Αριθμός παραλαβής :	2026-02014	Ημερομηνία παραλαβής :	15-05-2026
Αριθμός κατάθεσης :	20260100506	Ημερομηνία κατάθεσης :	15-05-2026
Καταθέτης/ες :			
Είδος Προσώπου : EDUCATIONAL_INSTITUTION			
Επωνυμία/Επίπνομο : Ελληνικό Μεσογειακό Πανεπιστήμιο-Ειδικός Λογαριασμός Κονδυλίων Έρευνας			
Όνομα :	Όνομα πατρός :		
Διεύθυνση: Εσταυρωμένος	T.Κ. :	71410	
	Πόλη :	Ηράκλειο Κρήτης	
	Χώρα :	Ελλάδα	
ΑΦΜ :			
Τηλέφωνο :	2109358482	Fax/σταθερό :	
Email :	tto@hmu.gr	Ref No/Κυδικός :	

15/05/2026 national patent submission

 HELLENIC INDUSTRIAL PROPERTY ORGANISATION



IP protection – Soft Actuators

- 15/05/2026 National patent submission HIPO (offers protection in Greece)
- but also provides priority date for a year for filling an EU patent application
- allows for academic publications and conference presentations in the meantime
- this also provides extra time for the University/Inventors to identify potential exploitable pathways
- such protection will also provide a first proof-of-patentability from OBI
- ultimately this offers a first level of protection for the work developed in the project, supports future exploitation opportunities, and makes the technology more attractive for further development or industrial uptake
- Concluding, within a year, if there are identifiable pathways and more confidence about the utility of the technology, an EU patent application will be filled



KER 5 — KEY EXPLOITABLE RESULT

ValVida

A modular pneumatic control system: The high-flow, high-precision driver unit behind SWAG's soft actuation, and our latest patented exploitable result.

Presented by **Ilias Zourantzis** · Bendabl CTO & Co-Founder

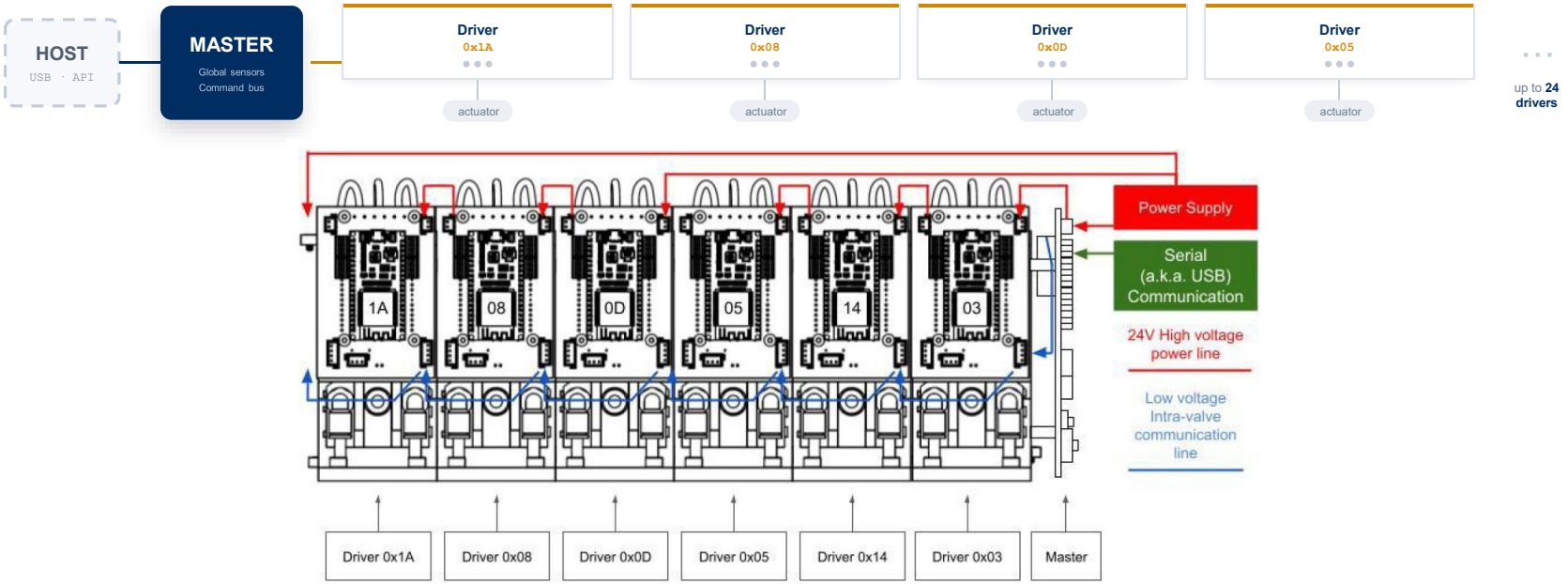


Funded by the European Union under the Horizon Europe programme. Views and opinions expressed are those of the author(s) only.

THE TECHNOLOGY

A distributed pneumatic control platform

One **Master** coordinates up to 24 independent **Driver** cells over a daisy-chained serial bus — each driver brings high-flow valves and a closed-loop controller directly to its actuator.



200L/min
Nominal valve flow

100Hz
System refresh rate

<10ms
Latency · 24 drivers

24V / 5 V
Dual-rail power bus

4states
Per-driver flow control

THE CORE INNOVATION

Four-state control with deflation energy re-usage

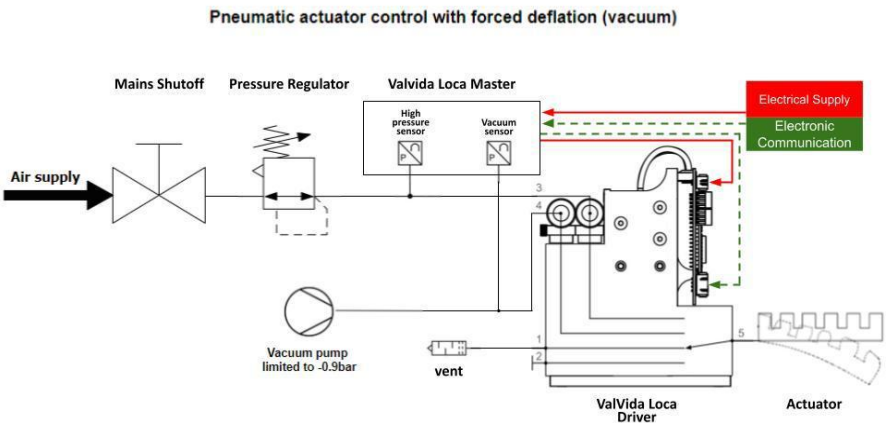
Three solenoid valves → four pneumatic states

Inflate
HP → OUT
High-pressure line to the output

Block
OUT | sealed
Output held — pressure maintained

Deflate → atmosphere
OUT → ATM
Free venting - no stored energy used

Deflate → vacuum
OUT → VAC
Forced / sub-atmospheric retraction

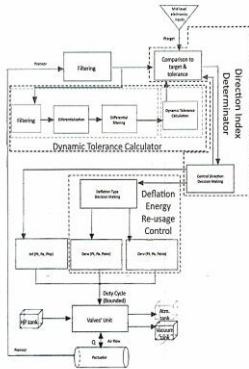


Three inventive steps, twelve claims

01

Distributed localized control

Each driver is an autonomous closed-loop cell that arbitrates its own pressure, offloading real-time control from the master.



Independent claim 1

02

Deflation energy re-usage

Four-state scheme that autonomously chooses atmosphere vs. vacuum on a direction index to harvest energy — the heart of the invention.



Claims 2 - 4

03

Robust scalable architecture

Electrically isolated dual-rail daisy-chain (100 Hz, <10 ms ·24) and a hardware failsafe reset forcing safe deflate-to-atmosphere.

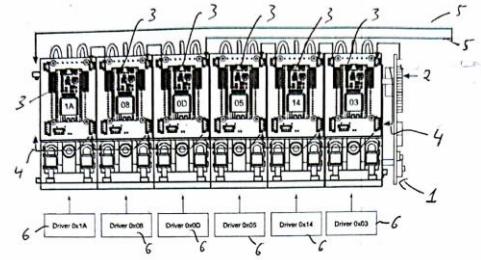


Figure 1

Claims 5 - 9

Method claims 11 - 12

The control method itself is also claimed.

Protected via an international PCT application

A single Patent Cooperation Treaty filing — *"Modular pneumatic control system"*

1

One filing, global priority

Secures a single international priority date across 150+ PCT contracting states.

2

Up to 30 months to decide

Keeps EU, US and Asian national-phase options open while exploitation pathways mature.

3

Early patentability signal

International Search Report gives an independent read before committing to national costs.

4

Publish in the meantime

Frees the team to publish and present at conferences without losing protection.

MARKET REACH

Broad claims, broad markets

PRIMARY MARKETS

Robotics

Explosive actuation & rapid retraction for multi-chambered soft robots that medical pumps can't drive.

Vacuum systems

Precision negative pressure at the suction cup; vacuum drawn only when holding, not releasing.

Industrial automation

Drivers mounted at each piston — no central cabinet, less dead volume, tighter cycle synchronisation.

SECONDARY MARKETS

4D & haptics

Synchronised explosive seat motion for rides & cinema.

Smart hospital beds

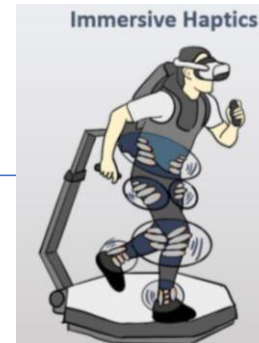
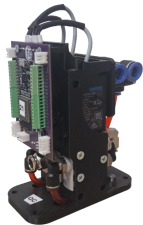
Quiet pressure-cell arrays that prevent bedsores.

Logistics exoskeletons

High-pressure assist mounted on the suit, untethered.

Fluidic displays

Addressable inflated "pixels" without a tube tangle.



Conclusion - Beyond the visible IP outcome



Patent applications

KER identification

Ownership & contribution mapping

Protection strategy

Dissemination vs confidentiality

Exploitation routes

Market and uptake potential



Thank you for
your
attention!

www.swag-project.eu



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Horizon Europe programme under Grant Agreement No
101120408

LEARNING RESOURCES

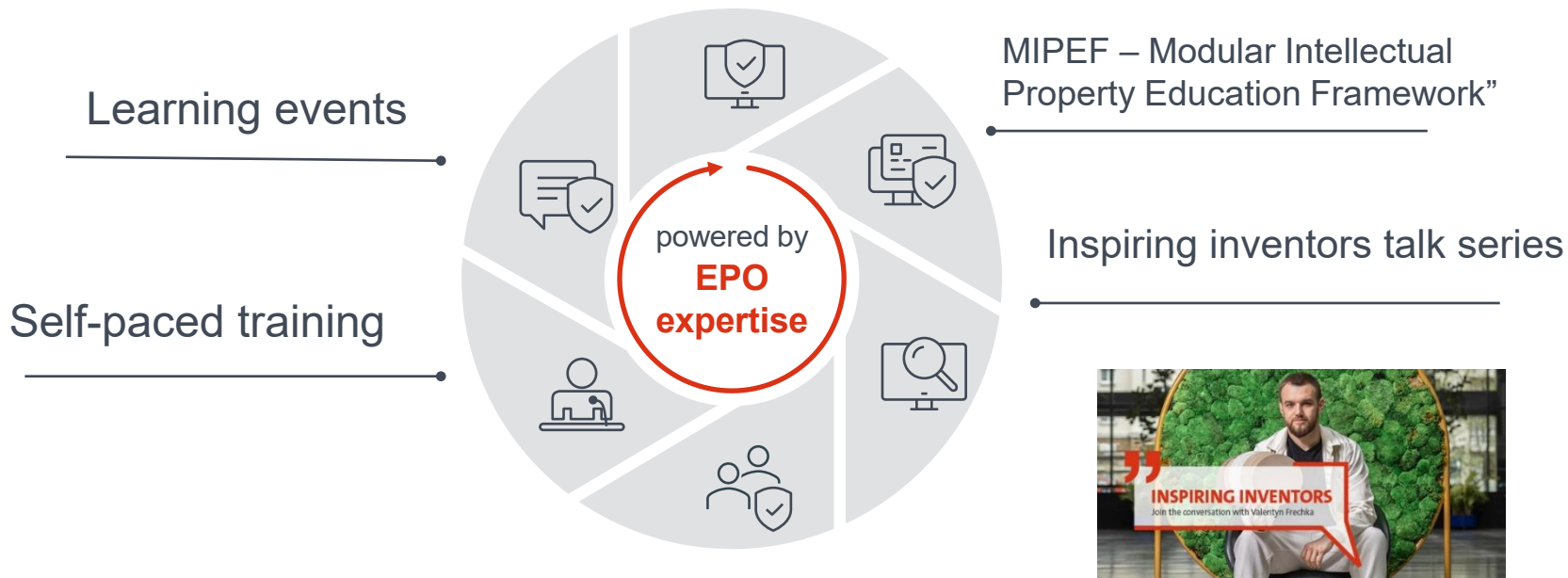
JÜRGEN MÜHL, EUROPEAN PATENT ACADEMY, 20 MARCH 2026

THE EUROPEAN PATENT ACADEMY <https://www.epo.org/en/learning>

- Patent-related education opportunities to stakeholders in Europe and beyond.
- Wide range of audiences: examiners and national patent office staff, patent attorneys and professionals, inventors, businesses, universities, technology transfer centres and anyone interested in patent-related topics
- Areas covered: patent granting, patent information, technology transfer and patent litigation and enforcement.
- Self-paced training courses and learning events.

OUR OFFER

Supporting IP awareness and promoting IP education



LEARNING EVENTS – SEARCHING FOR UPCOMING SESSIONS



European Patent Academy

The European Patent Academy is the external education and training centre for the EPO, reflecting the need to improve intellectual property training and awareness.

Set up in 2004, the Academy operates in partnership with a broad range of stakeholders, including the European Union Intellectual Property Office (EUIPO).

Areas and audiences

The Academy's activities are structured around three training areas: **dissemination, and patent litigation and enforcement**. These activities are designed to support the inception of a patentable

[→ Training catalogue](#)

Training activities

Explore all the upcoming learning activities and join us soon for a course, lecture, seminar, study visit, workshop or conference.

[→ All training activities](#)

e-Learning centre


Delve deeper into the world of intellectual property (IP) by signing up for our e-learning centre and access a wide range of training activities and learning resources at different levels to deepen your knowledge of IP.


[→ e-Learning centre](#)

LEARNING EVENTS – SEARCHING FOR UPCOMING SESSIONS

Filter options **3**

Start Date —

From
23-03-2026 

to
30-04-2026 

Language —

English 8

Fee —

All
 Free
 Paid

Format —

Online 8

Target audience —

Patent attorneys and paralegals 15
 Business and IP managers 6
 National Offices and IP authorities 5
 Universities, research centres and technology transfer centres 2
 PATLIBs 1

Available languages —

English 3

Training area —

Technology transfer and dissemination 8

Location +

Activity type —


Seminar 3
 Lecture 3
 Course 1
 Workshop 1

Level —


Intermediate 4
 Entry 3
 Advanced 1




1 - 8 of 8 search results




E-Learning Courses/Events
IP assessment: a practical workshop for innovators and entrepreneurs
€ Free 3h Certification
This workshop is a follow-up for those who attended the seminar "IP assessment: how to improve informed decision-making" ...
Learning



E-Learning Courses/Events
Intellectual property rights for deep tech businesses
€ Free 8h
This training activity aims to provide the target audience with the knowledge and skills to handle IP-related matters in the early stages of busine...
Learning

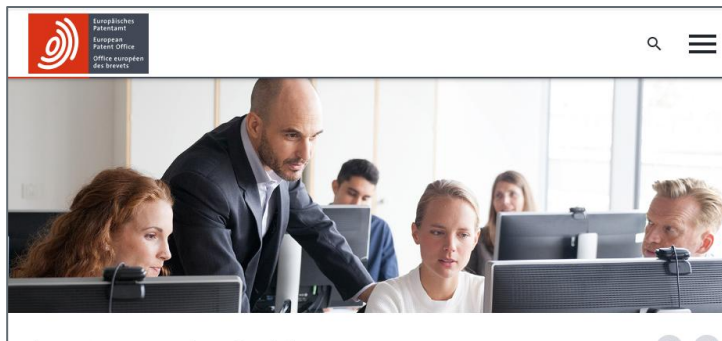


E-Learning Courses/Events
Protect your IP: Patents and health technology - focus on robotics
€ Free 1h
This lecture series, organised in collaboration with the European IP Helpdesk, explores key aspects of intellectual property (IP) across five...
Learning



E-Learning Courses/Events
Legal event codes from Asia in INPADOC
€ Free 1h
With over 60% of all patent applications now originating from Asia, it is increasingly important not only to monitor filings but also to stay infor...
Learning

ON-LINE LEARNING RESOURCES: SELF-PACED TRAINING



Home > About us > Services & activities > European Patent Academy

European Patent Academy

The European Patent Academy is the external education and training of the EPO, which reflects the need to improve intellectual property training and awareness.

Set up in 2004, the Academy operates in partnership with a broad range of stakeholders, including the European Union Intellectual Property Office (EUIPO).

Areas and audiences

The Academy's activities are structured around three training areas: **dissemination, and patent litigation and enforcement**. These activities are the first step in the inception of a patentable

[→ Training catalogue](#)

Training activities

Explore all the upcoming learning activities and join us soon for a course, lecture, seminar, study visit, workshop or conference.


[→ All training activities](#)

e-Learning centre

Delve deeper into the world of intellectual property (IP) by signing up for our e-learning centre and access a wide range of training activities and learning resources at different levels to deepen your knowledge of IP.


[→ e-Learning centre](#)

ON-LINE LEARNING RESOURCES: SELF-PACED TRAINING




Patent granting
Why and how to apply for and obtain a European patent

→ See Courses




Patent tools and analytics
How to search, analyse and use patent data to support innovation

→ See Courses




Patent litigation
How to defend or fight against existing patents

→ See Courses



Technology transfer and IP dissemination
How to turn research into innovation and bring IP to market

→ See Courses



EQE and EPAC
How the EPO can help you preparing for the examination

→ See Courses



IP Assessment: How to improve informed decision-making | BS20-2026



This training focuses on the IP-related challenges and issues that arise during systematic assessment of technologies and patents. It offers effective strategies and introduces the tool, IPscore, that you can use to evaluate your research projects and innovations. It will give you a clearer picture of their commercialization potential and support strategic decision-making by helping you set priorities that save time and resources. The program is designed for R&D project leaders, entrepreneurs, and intrapreneurs: intellectual capital managers in small and medium-sized enterprises (SMEs), start-ups, technology transfer offices and investors.

EPO search tools to improve business decisions | BS01-2026

A seminar demonstrating how to effectively use the EPO's free search tools and the additional features offered by more advanced tools, that are of particular use to business decision makers.

Main subject matter:

- Using Espacenet to filter and analyse search results
- Using PATSTAT for more advanced statistics

Train the Trainer Espacenet | NW02-2025



This course enables you to plan and implement courses on Espacenet and other EPO search tools quickly and in a resource-efficient way. It is based on case studies, two of which you will look at as examples and another three on which you will actually work in hands-on sessions and transform by following the training approach.

How to make best use of the unitary patent system | BS03-2025



This training focuses on the advantages offered by the Unitary Patent system. Exploring how businesses can harness these benefits to protect and monetise their intellectual property paves the way for subsequent trainings featuring selected case studies from different industries. This training may be also of special interest for PATLIB centres.

Train the Trainer Espacenet | NW01-2026



This course enables you to plan and implement courses on Espacenet and other EPO search tools quickly and in a resource-efficient way. It is based on case studies, two of which you will look at as examples and another three on which you will actually work in hands-on sessions and transform by following the training approach.

Patenting Innovation (RTPP-recognised) | NV07-2025



Patents are a powerful asset in the toolbox of a technology transfer professional. This two-day interactive course covers how innovative ideas are protected within the patenting system.

INSPIRING INVENTORS TALK SERIES

Inspiring inventors: Talk series

e-learning centre > Courses > Courses > Inspiring inventors: Talk series

Information

+ open all - close all

Marie Perrin: Transforming e-waste into a valuable resource

Valentyn Frechka: Turning fallen leaves into sustainably made paper

Rhona Togher: Reducing noise with an advanced acoustic material

Together with **Eimear O'Carroll**, **Rhona Togher** developed an advanced acoustic material to tackle noise pollution. What began as a school science fair project evolved into a business with a unique product and exceptional potential. In this episode, Rhona delivers a masterclass in IP and provides a fascinating look at acoustic technology.

Learn more about the inspiring inventors **Eimear O'Carroll**, **Rhona Togher** (IE).

Watch the recorded talk

EUROPEAN INVENTOR AWARD

European Inventor Award finalists share their success stories on patenting and commercialising their inventions

[Course: Inspiring inventors: Talk series | e-learning centre](#)

Modular IP Education Framework (MIPEF)

Benefits

- Enrich your curriculum with a free of charge and high-quality IP course co-labelled with the European Patent Office
- Integrate a flexible, ready-made offer tailored to Master's and PhD programmes
- Adapt content easily to your academic calendar and specific course needs
- Benefit from expert-led online sessions and engaging, modular formats
- Inspire students with real-world case studies featuring European Inventor Award finalists and winners
- Provide students with the opportunity to earn an EPO certificate and ECTS credits
- Increase career opportunities for students through IP education



MIPEF timeline

- Courses are being offered twice a year with an autumn and a spring edition

Create – Protect – Innovate: Bringing ideas to market

Part 1: Entry level

- Module I**
Introduction to IP
- Module II**
Patent essentials
- Module III**
Introduction to patent information
- Module IV**
Patent information in practice
- Module V**
Developing an IP strategy

→ [Syllabus Entry](#)

→ [Course Description Entry](#)

→ [Overview of skills and learning outcomes](#)

Part 2: Advanced level

- Module I**
Grant of patents
- Module II**
Enforcement of patents
- Module III**
Scouting and assessment of technology
- Module IV**
IP commercialisation
- Module V**
Use of IPRs

→ [Syllabus Advanced](#)

→ [Course Description Advanced](#)

Over
100 partner
universities
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MIPEF

Modular IP Education Framework



AL Polytechnic University of Tirana	DE Technical University of Dresden Technical University of Munich Ludwig Maximilian University of Munich Technical University of Ilmenau Karlsruhe Institute of Technology RWTH Aachen University Technical University of Darmstadt University of Konstanz University of Ulm Technical University of Dortmund	GR International Hellenic University National and Kapodistrian University of Athens University of Western Macedonia University of West Attica	IE Maastricht University University of Groningen
AT Graz University of Technology University of Graz Technical University of Leoben Wirtschaftsuniversität Wien	DK Aalborg University	HU Obuda University	PL Cardinal Stefan Wyszyński University in Warsaw Jagiellonian University University of Silesia in Katowice AGH University of Krakow
BE University of Antwerp	ES Tallinn University of Technology	IT Trinity College Dublin Technical University of Shannon Atlantic Technological University University College Cork	PT Técnico University of Lisbon NOVA University Lisbon University of Trás-Montes and Alto Douro Polytechnic University of Coimbra University of Algarve Polytechnic Institute of Castelo Branco
BG Sofia University Trakia University	FR Carlos III University of Madrid Pompeu Fabra University University of Alicante University of Valencia Autonomous University of Barcelona University of Alcalá Comillas Pontifical University University of Barcelona Polytechnic University of Catalonia University of Zaragoza	IS University of Iceland	RO Babes-Bolyai University West University of Timișoara University of Agronomic Sciences and Veterinary Medicine of Bucharest Technical University of Cluj-Napoca
CH École Polytechnique Fédérale de Lausanne ETH Zurich University of Bern University of Zurich	IT Bocconi University University of Brescia Sant'Anna School of Advanced Studies – Pisa University of Parma Polytechnic University of Turin Sapienza University of Rome University of Calabria University of Insubria Libera Università Mediterranea University of Naples Federico II IUSS University School of Advanced Studies in Pavia University of Taramo University of Perugia Ca' Foscari University of Venice University of Rome III IMT School for Advanced Studies Università Cattolica del Sacro Cuore	SE University of Belgrade	RS University of Belgrade
CY University of Cyprus Open University of Cyprus	LU EIT KIC Manufacturing EIT HEI 28Digital	SI University of Tuzla Hanken School of Economics University of Oulu	SK Stockholm University Karolinska Institute Chalmers University of Technology
CZ VSB - Technical University of Ostrava	FR University of Strasbourg Paris-Saclay University University of Technology of Compiègne	TR University of Strabourg Paris-Saclay University University of Technology of Compiègne	SI University of Ljubljana
	GB University of Leeds- Faculty of Engineering & Physical Sciences Centre for IP Policy & Management, Bournemouth University University of Portsmouth University of Exeter University of Liverpool	LV Rīga Stradiņš University University of Latvia Latvian University of Life Sciences and Technologies	SK Comenius University Bratislava
		MT University of Malta	SM University of San Marino
			TR Istanbul Bilgi University Ankara University Koc University Istinye University Yildiz Technical University

epo.org

mipef@epo.org

[Modular IP Education Framework \(website\)](#)



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



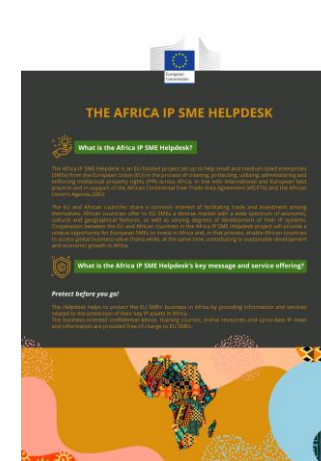
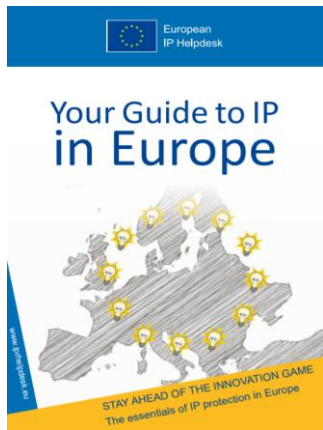


The EC IP Helpdesks





EC IP (SME) Helpdesk Hub – Gateway to Information



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



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**





Thank you!

- www.ec.europa.eu/ip-helpdesk
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