



European IP Helpdesk

Stay ahead of the innovation game.

Patents & Innovation





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: 44 ambassadors from 27 EU countries





The EC IP Helpdesks





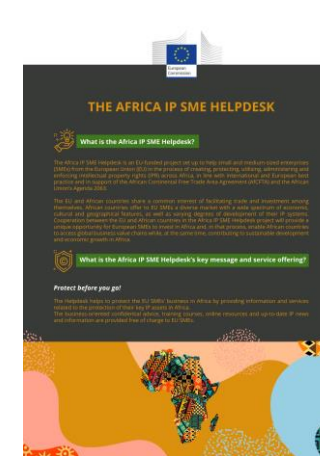
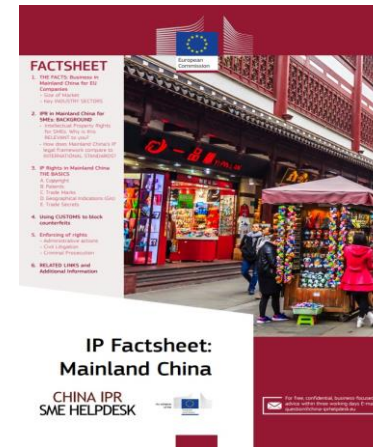
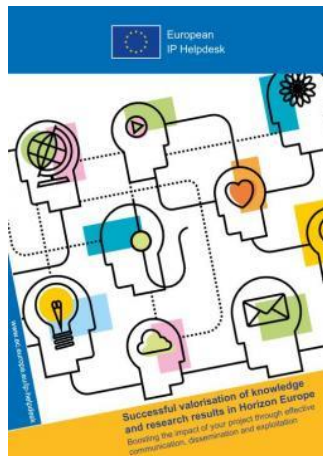
Upcoming webinars

Europa - Upcoming events

- | | |
|--|---|
| <p>01
MAR
2023</p> <p>Training and workshops
EU - Webinar: Patents and Innovation</p> <p>📺 Live streaming available</p> | <p>02
MAR
2023</p> <p>Training and workshops
EU - Webinar: Consortium Agreements</p> <p>📺 Live streaming available</p> |
| <p>09
MAR
2023</p> <p>Info days
Horizon IP Scan - Info Session</p> <p>📺 Live streaming available</p> | <p>15
MAR
2023</p> <p>Training and workshops
Workshop on Genetic Resources:
Introduction on Regulatory Aspects and
Protection of Intellectual Property</p> <p>📍 Dresden, Germany
📺 Live streaming available</p> |
| <p>16
MAR
2023</p> <p>Training and workshops
EU - Webinar EPO Coop: Patent protection
for EU funding beneficiaries - Artificial
Intelligence in Med Tech</p> <p>📺 Live streaming available</p> | <p>29
MAR
2023</p> <p>Training and workshops
EU - Webinar: Addressing IP impact and
innovation in EU projects</p> <p>📺 Live streaming available</p> |
| <p>05
APR
2023</p> <p>Training and workshops
EU - Webinar: IP and Artificial Intelligence</p> <p>📺 Live streaming available</p> | <p>12
APR
2023</p> <p>Training and workshops
EU - Webinar: IP in Business collaborations
for SMEs and Start-ups</p> <p>📺 Live streaming available</p> |



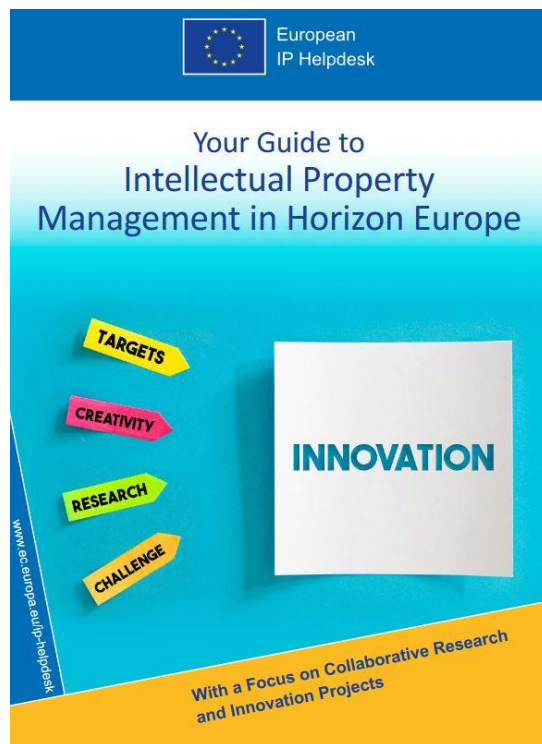
EC IP (SME) Helpdesk Hub – Gateway to Information



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



Your Guide to Intellectual Property management in Horizon Europe

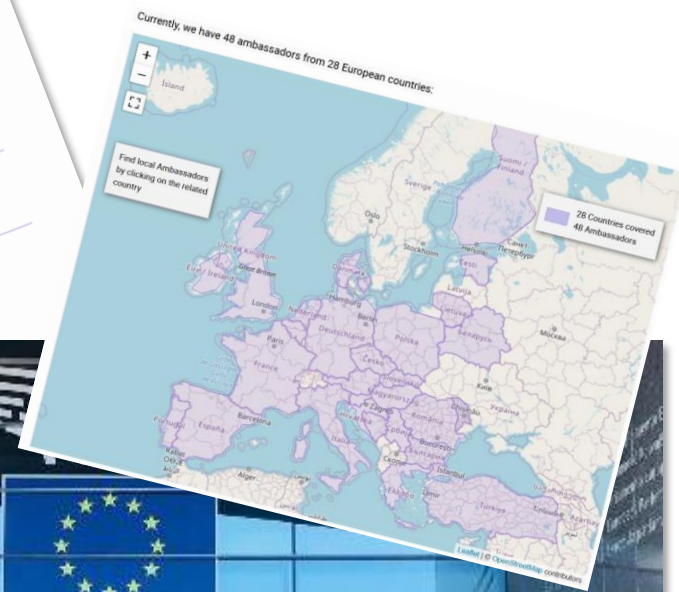


<https://op.europa.eu/en/publication-detail/-/publication/43e0204c-6ed3-11ed-9887-01aa75ed71a1/language-en/format-PDF/source-276235204>



Ambassador Scheme

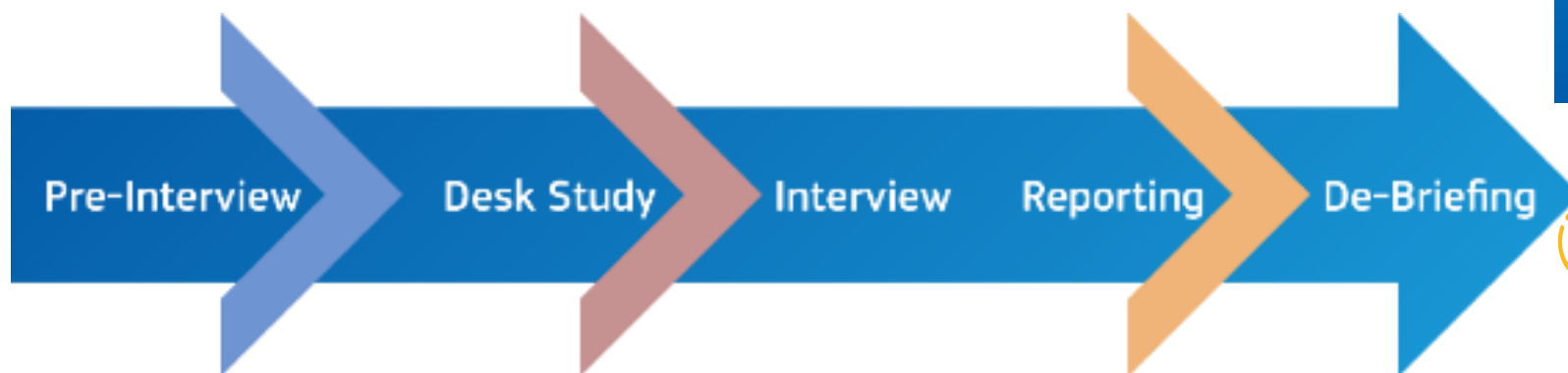
- **Cooperation scheme** with the Enterprise Europe Network (EEN): 44 ambassadors – 27 countries
- **Building IP capacities** among European SMEs
- **Overcoming language barriers**
- Making the topic **more accessible**
- Exchange and feedback from ambassadors on **needs of SMEs**
- Local **awareness** and **training events**





Horizon IP Scan

IP Support Service for SMEs in Collaborative EU-funded Research Projects



www.horizon-ipscan.eu



About me

BSc (Physical) Chemistry (*Exon UK*)

PhD Neutron Science (*Exon UK*)

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

Royal Society of Chemistry, Institute of Physics,
Science Council (UK)

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

Loooooooooooooooooong time at European Patent Office (NL, AT)

Patent examiner (electron and ion optics) IT manager,

.....internet services manager, research manager

Consultant; bring worlds of STEMM and IP together

Cambridge University Technology Management Teaching and
Research





Roadmap

- **IP basics**
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation





1 500 to 2 000
patents

Data-processing methods,
semiconductor circuits,
chemical compounds, etc.

Registered
design

Shape of phone

Registered trade
marks

Brand name, start-up tone

Copyright

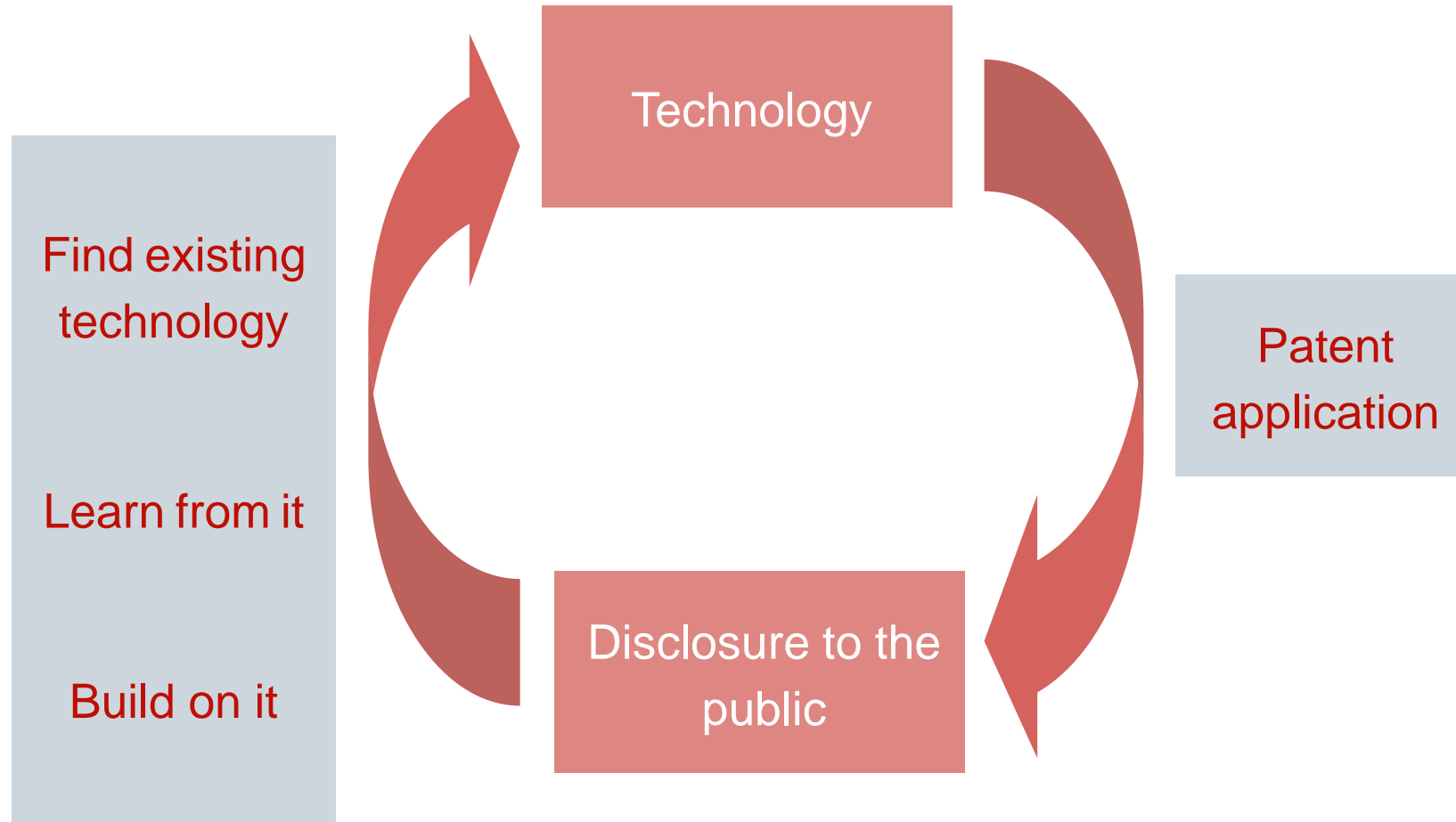
Software, ringtones and
images

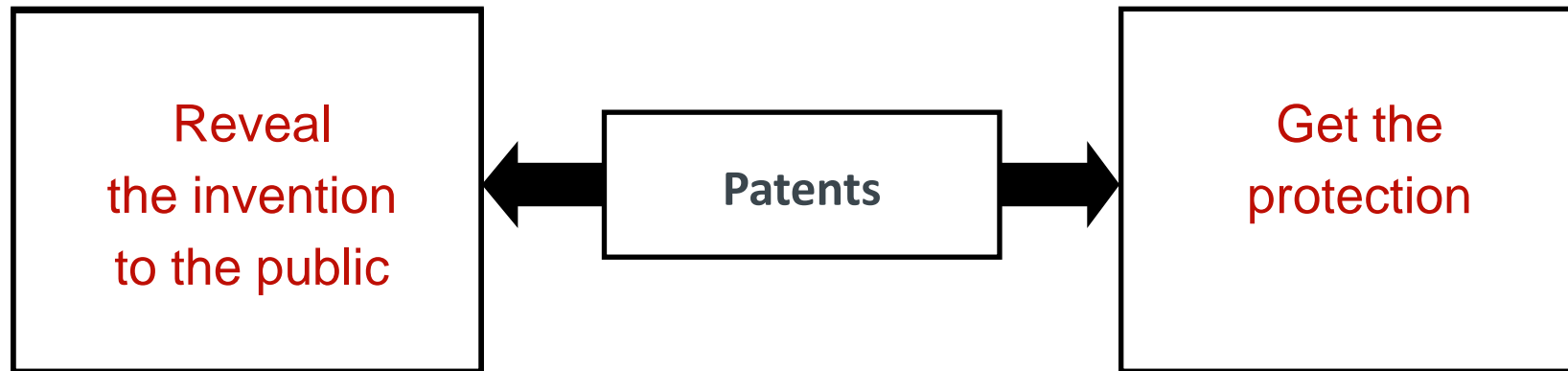


Roadmap

- IP basics
- **Patent basics**
- Patent information basics
- Invention vs innovation
- Patent information and innovation









Patentability

Patents are granted for inventions in all fields of technology

To be patentable, inventions must

- be **new**
- involve an **inventive step**
- be **industrially applicable**

They must relate to a product, process, apparatus or use.



Patentability - new

- Novel
- Never been seen in public (print, media, conference....)
- Patent first, then publish



Patentability – inventive step

- Not obvious
- Expert in the field
- Would look - not could look
- Thinking outside the box



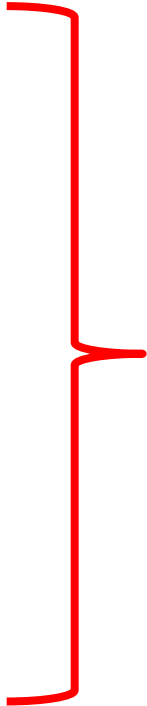
Patentability – industrially applicable

- Industry
- Agriculture
- Technical consumer goods, products, services



Patentability

- Product
- Process
- Apparatus
- Use



Allowable in one patent application but only one single inventive concept



Excluded

- Discoveries
- Scientific theories
- Mathematical methods
- Computer programs
- Aesthetic creations
- Business methods
- Methods for playing games
- Methods for performing mental acts
- Presentations of information



If claimed
"as such"



Exemptions

- Plant or animal varieties
- Inventions whose commercial exploitation would be contrary to "ordre public" or morality (e.g. processes for cloning of human beings)
- Methods for treatment of the human or animal body by surgery or therapy and diagnostic methods



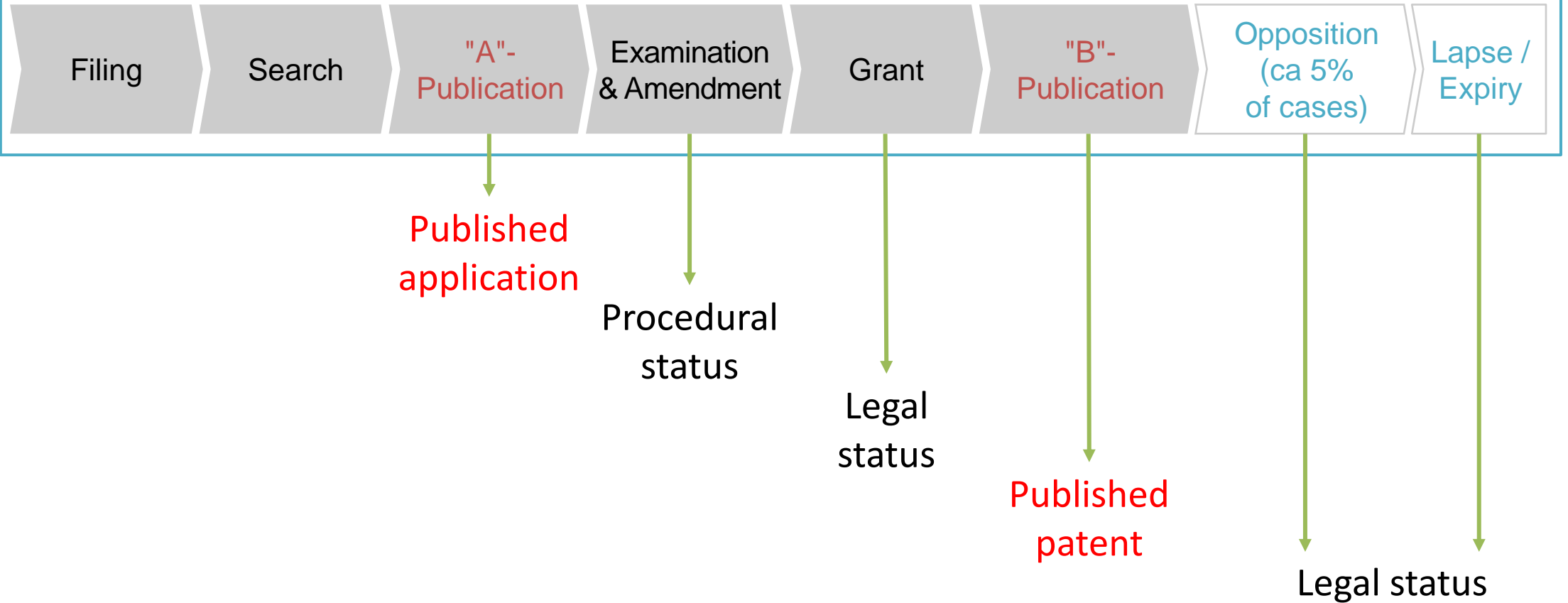
Roadmap

- IP basics
- Patent basics
- **Patent information basics**
- Invention vs innovation
- Patent information and innovation







Patent granting process







(19)   (11) EP 1 741 472 A2

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication: 10.01.2007 Bulletin 2007/02 (51) Int. Cl.: A62B 17/00 (2006.01) A41D 13/00 (2006.01)

(21) Application number: 06122328.5

(22) Date of filing: 15.02.2001

(84) Designated Contracting States: DE FR GB IT	• Taylor, Frank, P Dayton, OH 45409 (US)
(30) Priority: 03.03.2000 US 517919	(74) Representative: Asquith, Julian Peter Marks & Clerk, 4220 Nash Court, Oxford Business Park South Oxford OX4 2RU (GB)
(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 01912744.8 / 1 259 294	Remarks: This application was filed on 16 - 10 - 2006 as a divisional application to the application mentioned under INID code 62.
(71) Applicant: LION APPAREL, INC. Dayton, OH 45413-0576 (US)	
(72) Inventors: • Aldridge, Donald New Carlisle, OH 45344 (US)	

(54) **Firefighting garment**

(57) A protective garment comprises an outer shell of an abrasion, flame and heat resistant material a thermal barrier/moisture barrier composite positioned between the outer shell and a wearer of the garment, the thermal barrier/moisture barrier composite including a substantially liquid-impermeable membrane bonded to one surface of a heat and flame resistant fabric substrate, and a first layer of heat and flame resistant insulating material attached to an opposite surface of the fabric substrate; a face cloth positioned between the thermal barrier/moisture barrier composite and a wearer of the garment; and a second layer of heat and flame resistant insulating material attached to the face cloth and positioned between the thermal barrier/moisture barrier composite and face cloth.

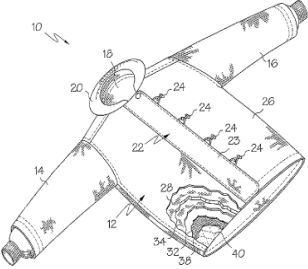


FIG. 1

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EP 1 741 472 A2

Title of the invention, name of the inventor

Detailed description of the invention: how it is constructed, how it is used, benefits compared with what already exists

Claims providing a precise definition of what the patent protects

Drawings

Abstracts: summary of the invention – particularly useful for search engines



Structure of Patent Documents

- Front Page
- Bibliographic Data
- Title
- Abstract
- Description
- Drawings
- Claims
- Search Report

Europäisches Patentamt
European Patent Office
Office européen des brevets

(19)

(11) EP 1 000 000 A1

EUROPEAN PATENT APPLICATION

(43) Date of publication: 17.05.2000 Bulletin 2000/20
(21) Application number: 99203729.1
(22) Date of filing: 08.11.1999

(51) Int. Cl.⁷: B28B 5/02, B28B 7/00, B28B 1/29

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor:
Kosman, Wilhelmus Jacobus Maria
6562 DA Groesbeek (NL)

(30) Priority: 12.11.1998 NL 1010536

(74) Representative:
Schumann, Bernard Herman Johan et al
Arnold & Siedsma,
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Sweelinckplein 1
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(71) Applicant:
Beheermaatschappij De Boer Nijmegen B.V.
6541 BS Nijmegen (NL)

(54) **Apparatus for manufacturing green bricks for the brick manufacturing industry**

(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

FIG. 2

EP 1 000 000 A1

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Front Page

Dates

Priority, application, publication nos.

IPO ID

Inventors

Applicants

Representatives

Titles

Classification

Abstracts

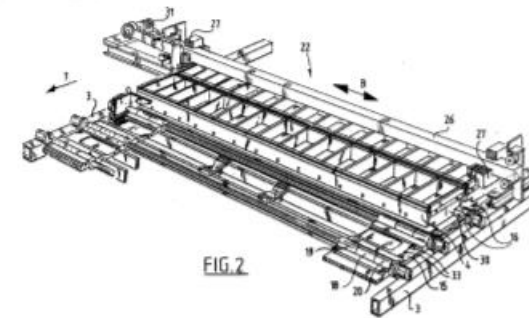
Image (if available)

 Europäisches Patentamt European Patent Office Office européen des brevets		 (11) EP 1 000 000 A1
EUROPEAN PATENT APPLICATION		
(43) Date of publication: 17.05.2000 Bulletin 2000/20	(51) Int. Cl. ⁷ : B28B 5/02 , B28B 7/00, B28B 1/29	
(21) Application number: 99203729.1	(22) Date of filing: 08.11.1999	
(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI	(72) Inventor: Kosman, Wilhelmus Jacobus Maria 6562 DA Groesbeek (NL)	(74) Representative: Schumann, Bernard Herman Johan et al Arnold & Siedsma, Advocaten en Octrooigemachtigden, Sweelinckplein 1 2517 GK Den Haag (NL)
(30) Priority: 12.11.1998 NL 1010536	(71) Applicant: Beheermaatschappij De Boer Nijmegen B.V. 6541 BS Nijmegen (NL)	

(54) **Apparatus for manufacturing green bricks for the brick manufacturing industry**

(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers,

means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.



EP 1 000 000 A1



Description

Enabling disclosure

Rigorous

Language sometimes
difficult

Text, keywords,
synonyms

1 EP 1 000 000 A1 2

Description

[0001] The invention relates to an apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the reservoir into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and placing take-off plates for the green bricks and means for discharging green bricks released from the mould containers. Such an apparatus is known in the field and is for instance described in the patent 1000186 of applicant. The known apparatus is extremely suitable for automated production of large numbers of green bricks for the brick manufacturing industry. The bricks fired from these green bricks have a substantially smooth, uniform appearance.

[0002] A recent demand has developed on the market for bricks which appear as if they have been manufactured according to traditional methods.

[0003] The invention has for its object to adapt the known apparatus such that it can produce in automated manner large numbers of green bricks with a traditional appearance.

[0004] For this purpose the apparatus according to the invention has the feature that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

[0005] The bricks fired from the green bricks produced using the apparatus according to the invention impart beautiful shadow effects to the wall into which they have been built when the sun shines thereon. This aesthetic effect is an important commercial advantage.

[0006] The edge-forming means are preferably adapted to move the mould container parts repeatedly for a certain period. Repetition a number of times, for instance three times, is found in practice to be sufficient to obtain the intended effect.

[0007] In a practical preferred embodiment the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.

[0008] In a further preferred embodiment the edge-forming means comprise a frame which is adapted to engage individually on a mould container part. This preferred embodiment has the significant advantage that the edge-forming means can act on one mould container part while another mould container part undergoes another operation and is for instance filled with clay. The edge-forming means can therefore be added to the known apparatus without this affecting the production time.

[0009] In yet another preferred embodiment the frame spans the mould container part and is provided on both sides with stop members which are situated during operation at the location of the side walls of the mould container part. An exceptionally compact embodiment of the invention is hereby realized which utilizes the available space economically and can be arranged without difficulty on the known apparatus.

[0010] In order to prevent unnecessary damage to the mould container parts, these latter are provided on their side walls with stop surfaces, preferably of plastic. In preference the stop members of the frame of the edge-forming means are also provided with these, preferably plastic, stop surfaces.

[0011] The invention is described in more detail hereinbelow with reference to the drawing in which:

figure 1 shows schematically a preferred embodiment of the apparatus according to the invention; figure 2 shows in more detail a perspective view of a part of the apparatus of figure 1 with the edge-forming means therein; figure 3 shows the edge-forming means of figure 2 in even more detail; figure 4 is a perspective view of a first preferred embodiment of a mould container part which is suitable for use in the apparatus according to the invention; figure 5 is a perspective view of a second preferred embodiment of a mould container part; and figure 6 shows schematically a part of a wall which has been built using bricks provided with an edge and fired from the green bricks manufactured using the apparatus according to the invention.

[0012] Like components are provided in the figures with like reference numerals.

[0013] Figure 1 shows a preferred embodiment of an apparatus for manufacturing green bricks for the brick manufacturing industry according to the invention. Apparatus 1 comprises a conveyor 3. Mould containers combined to a unit are placed in the form of a mould container part 4 on the conveyor. The mould container parts fit closely against each other. Placed above the mould containers is a reservoir 5 for clay which is kept in continuous movement by an agitator 6 which is driven by the electric motor 7. Clay is supplied to reservoir 5 by a circulating conveyor 8. The clay is carried out of reservoir 5 into the mould containers and then pressed down by pressing device 9 which is pivotable on shaft 10. The excess clay is also trimmed using means which are not drawn. The device 11 carries take-off plates 12 onto a mould container part such that, after turning over of the mould container part, the green bricks 13 come to lie on the plates after being released from the mould containers.

[0014] Edge-forming means 22 are arranged between device 9 and device 11. The edge-forming means move each mould container part 4 such that a protruding edge forms on the upper side of the green bricks received therein.

2



Claims

Claimed scope of protection
(as filed)

Independent and dependent
claims

Product, process, apparatus,
use

Text, synonyms

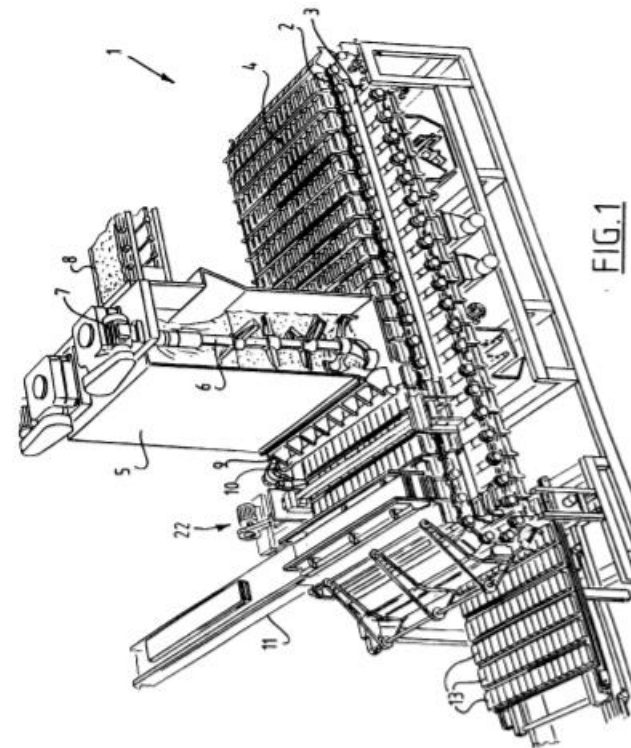
	5	EP 1 000 000 A1	6
2. Apparatus as claimed in claim 1, wherein the edge-forming means are adapted to move the mould container parts repeatedly for a certain period.			
3. Apparatus as claimed in claim 1 or 2, wherein the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.			5
4. Apparatus as claimed in any of the foregoing claims, wherein the edge-forming means comprise a frame which is adapted to engage individually on a mould container part.			10
5. Apparatus as claimed in claim 4, wherein the frame spans the mould container part and is provided on both sides with stop members which are situated during operation at the location of the side walls of the mould container part.			15
6. Apparatus as claimed in claim 5, wherein the stop members are provided with stop surfaces which preferably comprise plastic.			20
7. Apparatus as claimed in claim 5 or 6, wherein the mould container parts are provided on their side walls with stop surfaces which preferably comprise plastic.			25
8. Apparatus as claimed in claim 4, 5, 6 or 7, wherein the edge-forming means comprise an eccentric drive for the frame.			30
9. Apparatus as claimed in any of the foregoing claims, wherein each mould container part is provided with a number of spacer members for supporting the take-off plates at a distance above the green bricks.			35
10. Apparatus as claimed in any of the foregoing claims, wherein the mould container parts are fixed movably onto the conveyor with some clearance in the direction of movement.			40
11. Apparatus as claimed in claim 10, wherein the conveyor is a chain conveyor and the mould container parts are coupled with some clearance in the direction of movement to a chain part connectable to the chain.			45
			50
			55
			4



Drawings

*Worth a thousand
words*

EP 1 000 000 A1






Search Report

X – novelty

Y-Y - inventive step

A - general prior art

EP 1 000 000 A1

 **European Patent Office** **EUROPEAN SEARCH REPORT** Application Number
EP 99 20 3729

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (INCL.7)
A	EP 0 680 812 A (BOER BEHEER NIJMEGEN BV DE) 8 November 1995 (1995-11-08) * the whole document *	1, 10, 11	B2885/02 B2887/00 B2881/29
A	NL 9 400 663 A (BOER BEHEER NIJMEGEN BV DE) 1 December 1995 (1995-12-01) * the whole document *	1, 3	
A	DE 35 46 191 A (NETZSCH MASCHINENFABRIK) 2 July 1987 (1987-07-02) * the whole document *	1-3, 8	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 February 2000	Examiner Gourier, P
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons B: member of the same patent family, corresponding document	

TECHNICAL FIELDS SEARCHED (INCL.7)
B288



Roadmap

- IP basics
- Patent basics
- Patent information basics
- **Invention vs innovation**
- Patent information and innovation





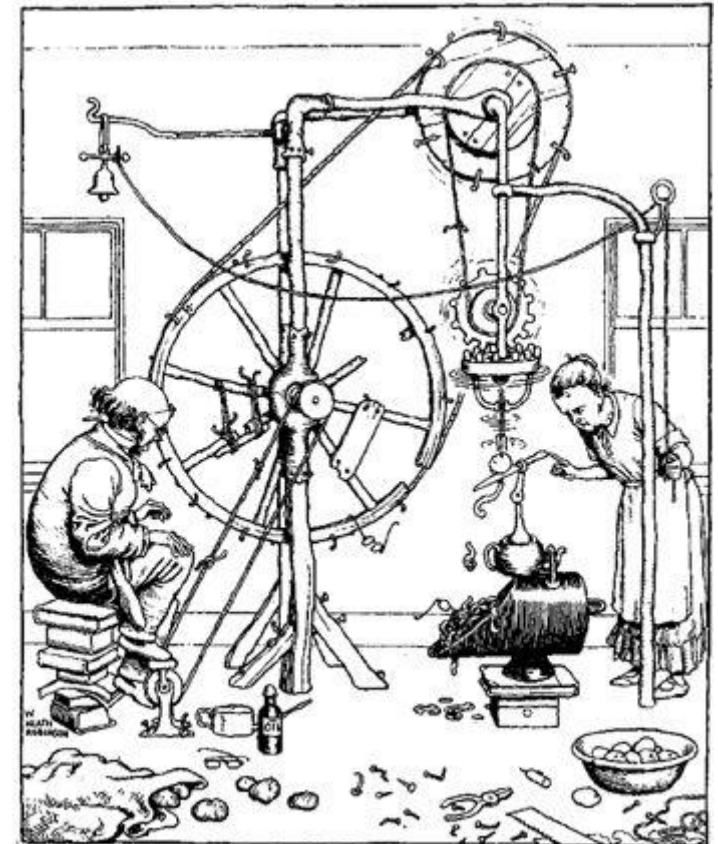
Invention – mouse kept alive for more than 90 years





Invention

- EPO – no definition of “invention”
- Except: “technical effect”
- Technical?

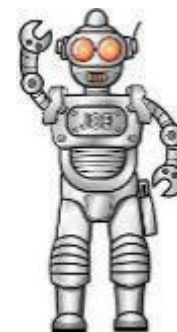


The Professor's invention for peeling potatoes.



Innovation

- Technical innovation
- A process
- From ideation to commercialisation





Innovation ≠ Invention



CREATIVITY

The act of turning
new and imaginative
ideas into reality.



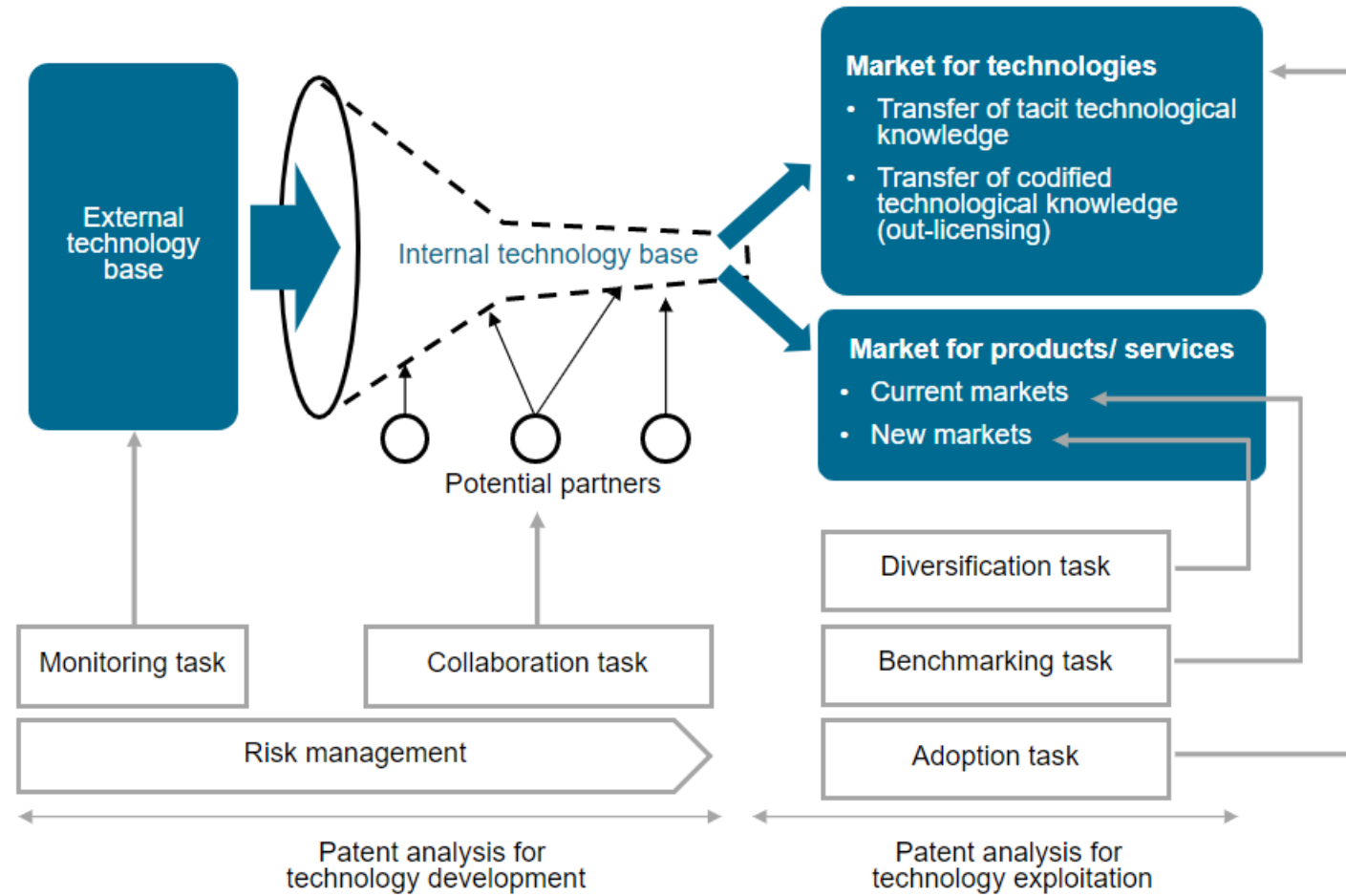
INVENTION

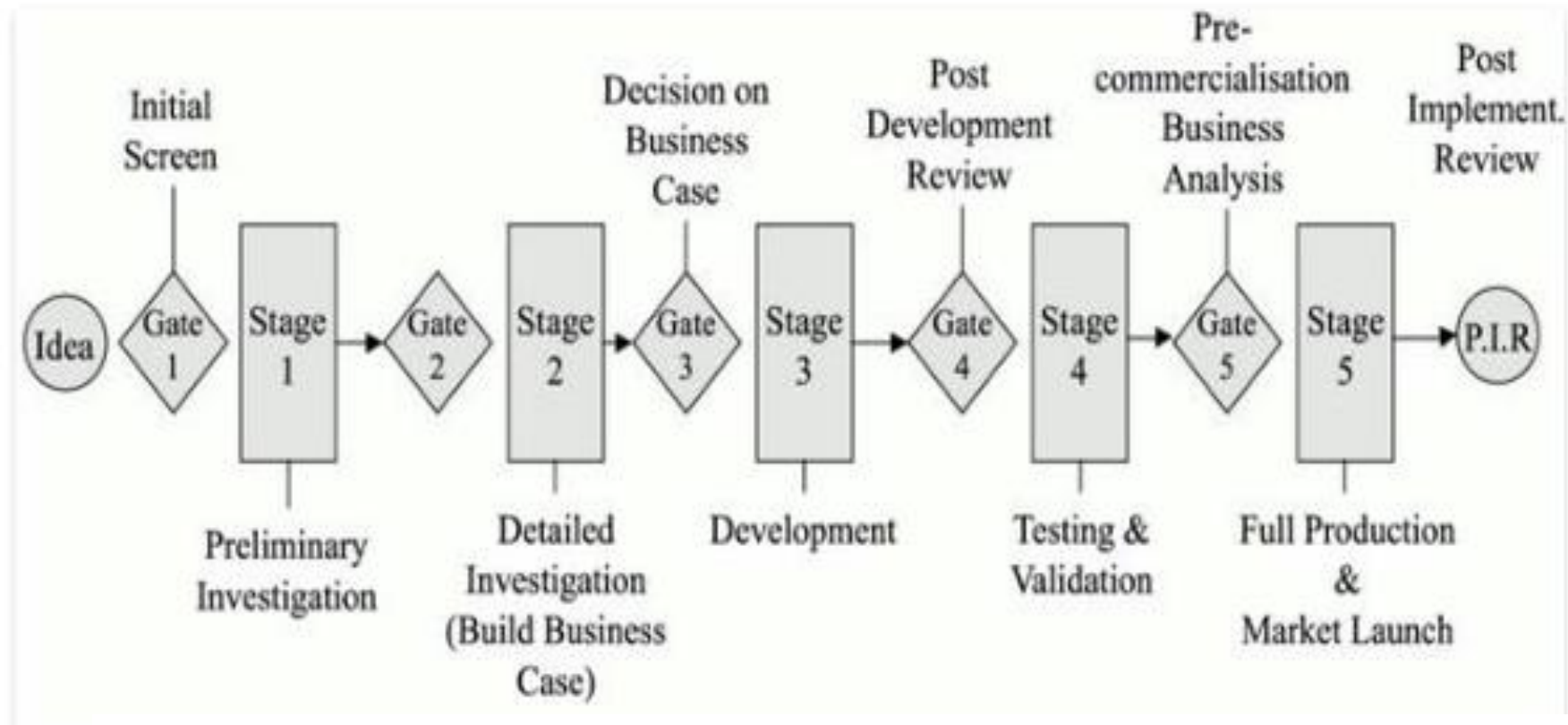
Creation of a new
idea or concept



INNOVATION

Turning a new
concept into
commercial success
or widespread use





Cooper, Robert G. (1993). [*Winning at New Products: Accelerating the Process from Idea to Launch*](#) (2 ed.). Cambridge, Massachusetts: [Basic Books](#). ISBN [978-0-201-56381-8](#).



Roadmap

- IP basics
- Patent basics
- Patent information basics
- Invention vs innovation
- **Patent information and innovation**





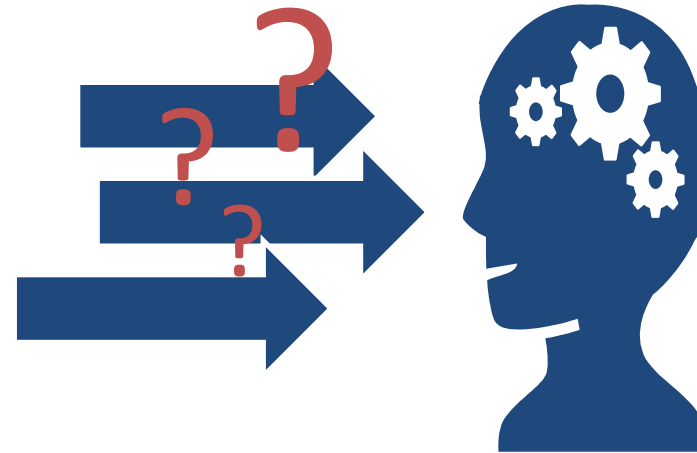
The role of patent information in innovation

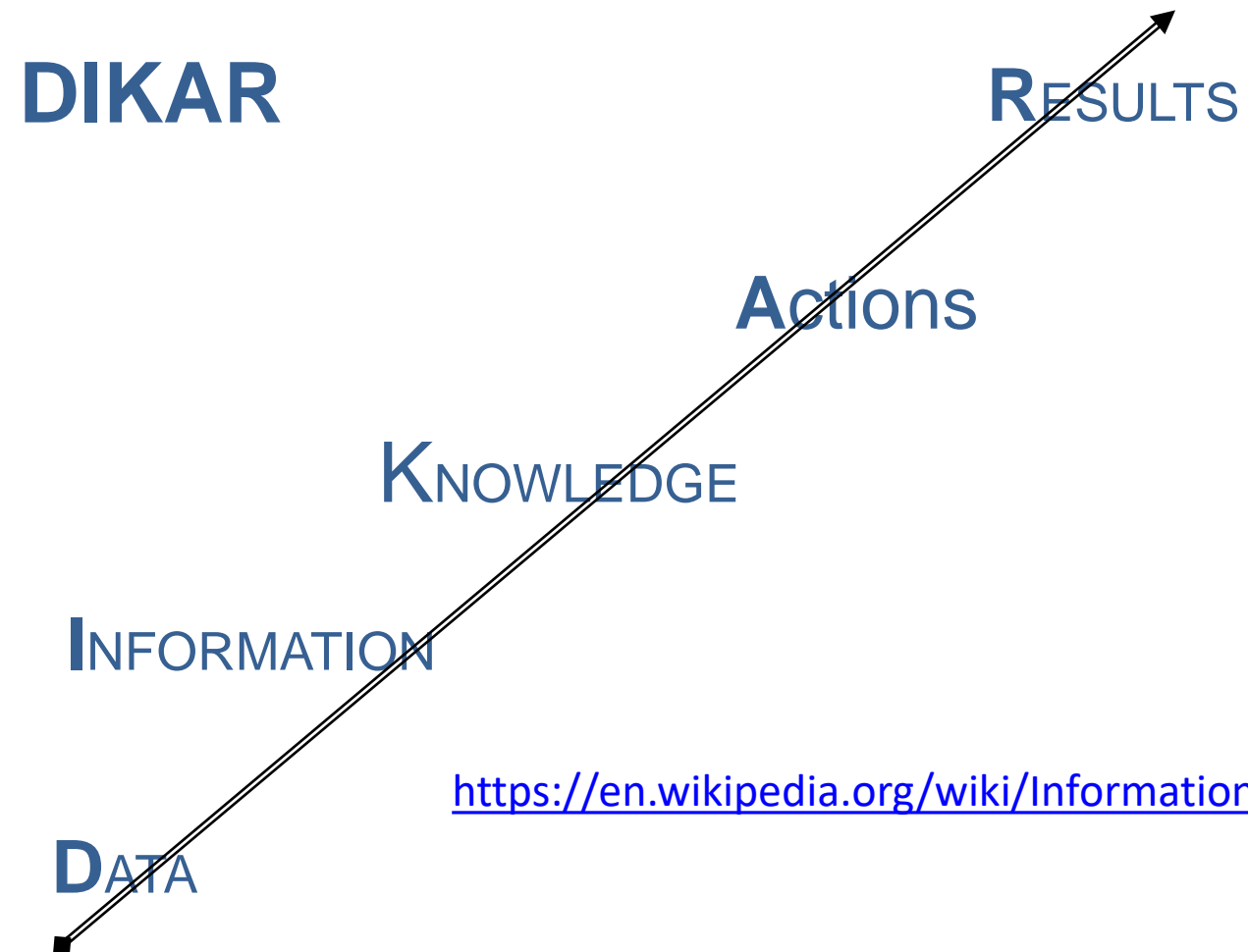
EPO 2017

[https://documents.epo.org/projects/babylon/eponet.nsf/0/F2E016B9DA1EC24AC125813D0056D720/\\$File/information_in_the_innovation_process_survey_results_en.pdf](https://documents.epo.org/projects/babylon/eponet.nsf/0/F2E016B9DA1EC24AC125813D0056D720/$File/information_in_the_innovation_process_survey_results_en.pdf)



Does patent information support innovation?

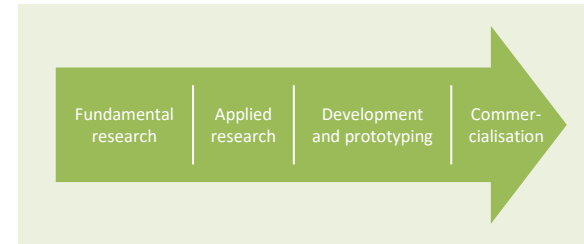






• Research

Model of the innovation process



Identify innovators

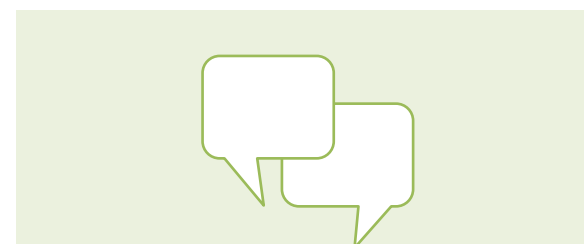
- Business / technology platforms
- **no** IP experts!



1. small group, qualitative answers
→ list of questions
2. larger group, quantitative evaluation

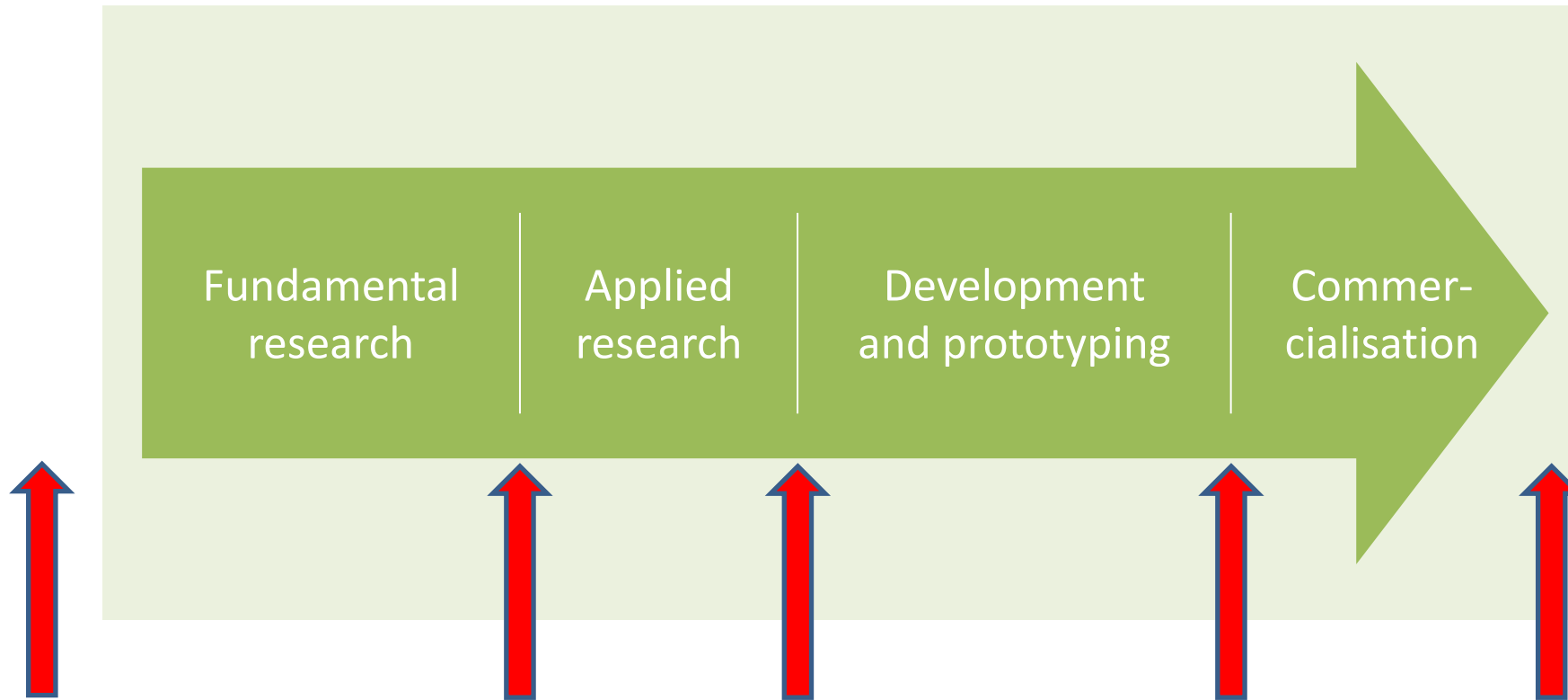


supported by market research experts





- The innovation process



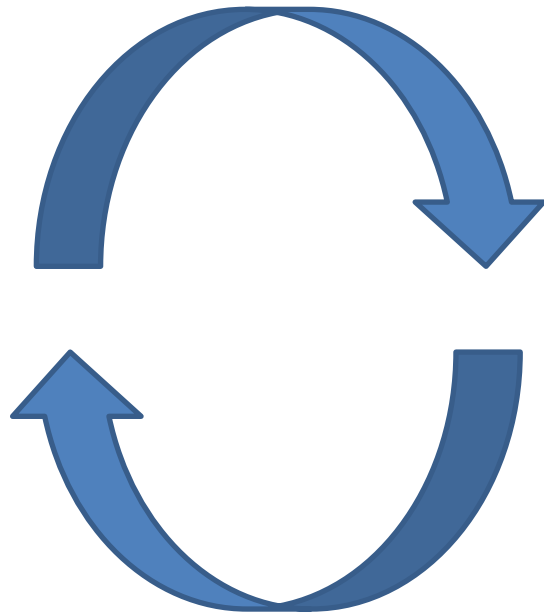


Linear – one off - process





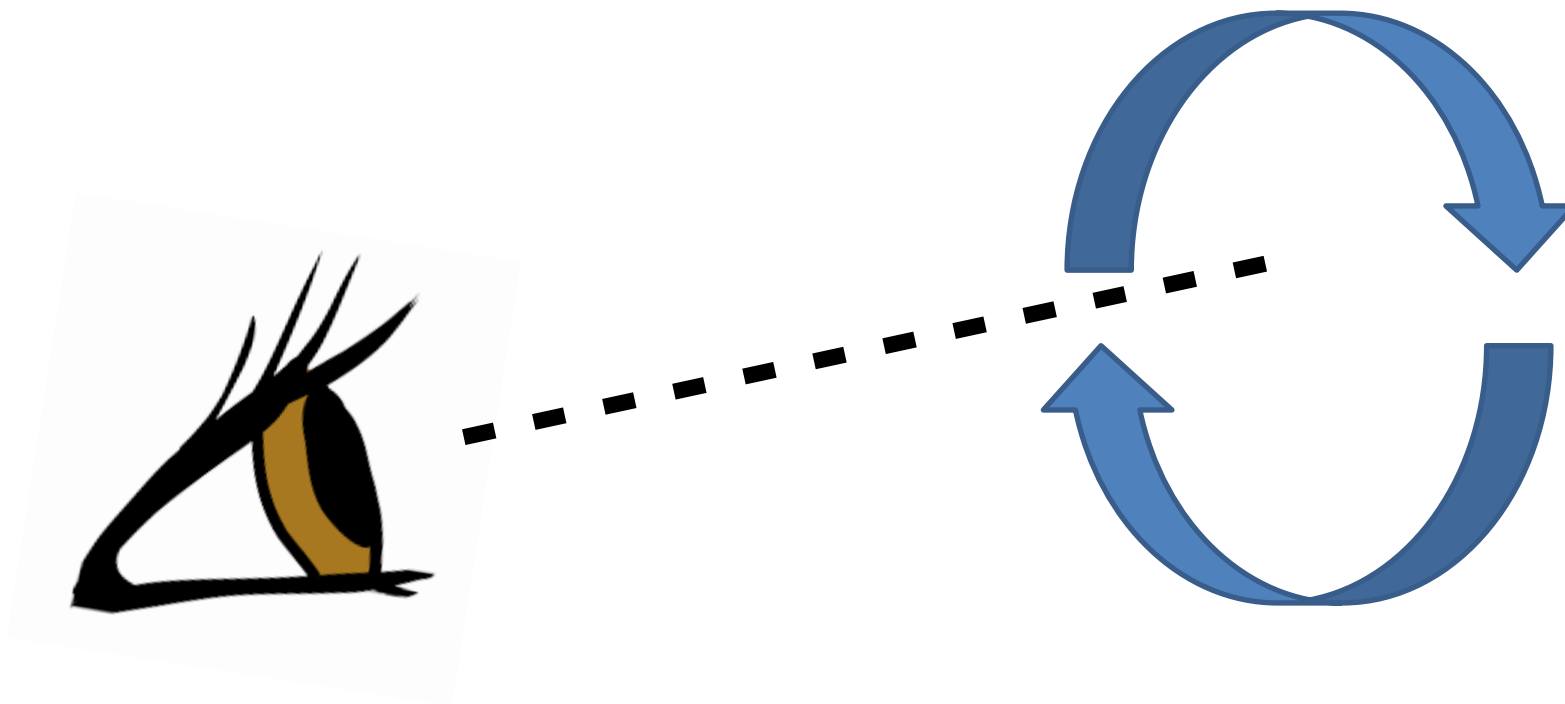
Innovation cycle – continued innovation



**The first rule of business is to stay
in business**

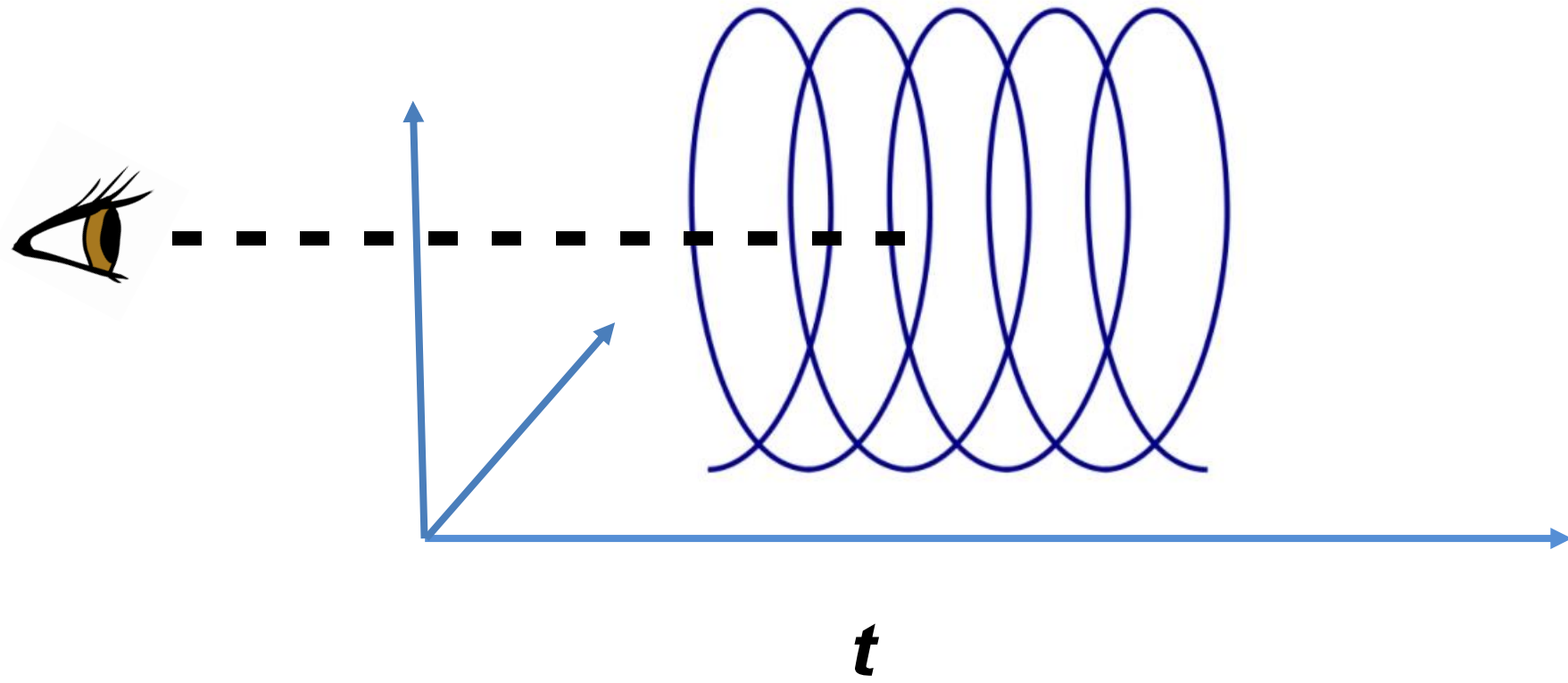


Innovation cycle – continued innovation





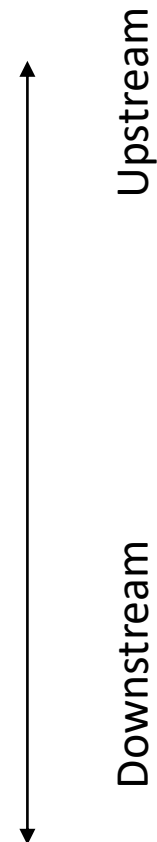
Helix





Applications of patent information

- Funding propositions
 - Bank Loans
 - Venture Capital
- Valuation
 - Intangible assets
- Licensing
- Technology Transfer
 - Disposal, trade outright sale
 - or assignment





- Prior art/state-of-the art
- Novelty/patentability
- Technology watch/competitive intelligence
- Legal status
- Freedom to act

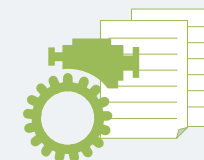


• Why patent information matters in innovation

- Avoid duplication of R&D expenditure
- Find out what technology already exists and build on it



Technical
information



- Check where an invention is protected (and where it is not)
- Avoid infringing other people's patent rights



Legal
information



- Keep track of what others are doing
- Identify new partners, e.g. for licensing
- Spot trends in technology or the market

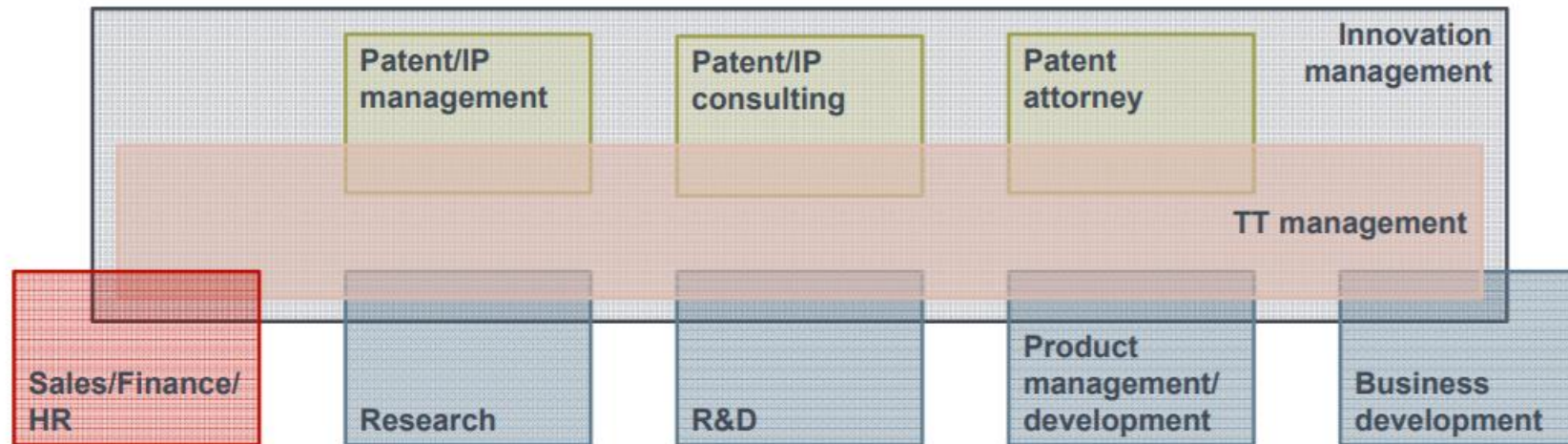


Business
information



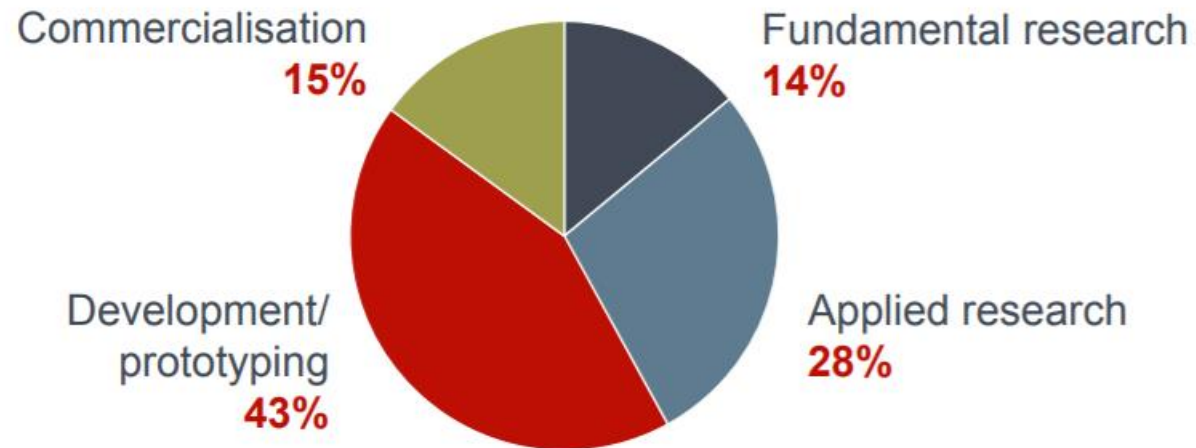


Mapping of innovation process actors





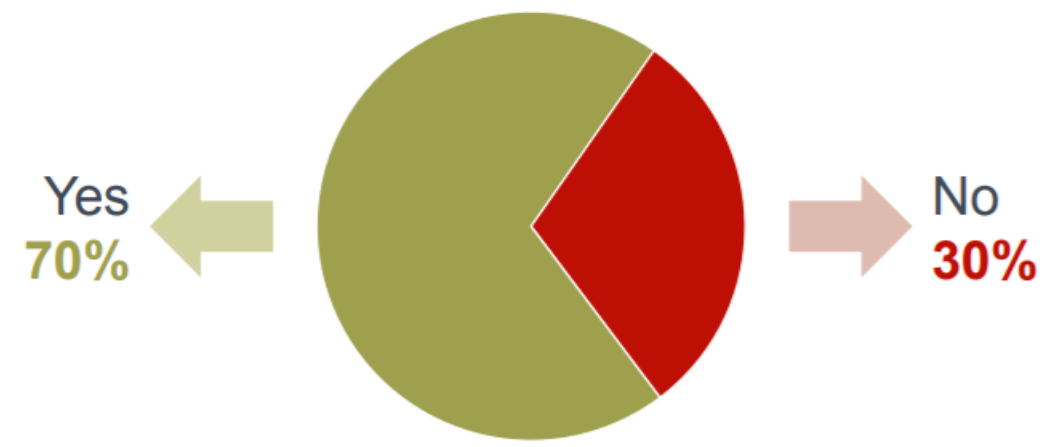
Innovators' activity





Users vs. non-users of patent information as information source

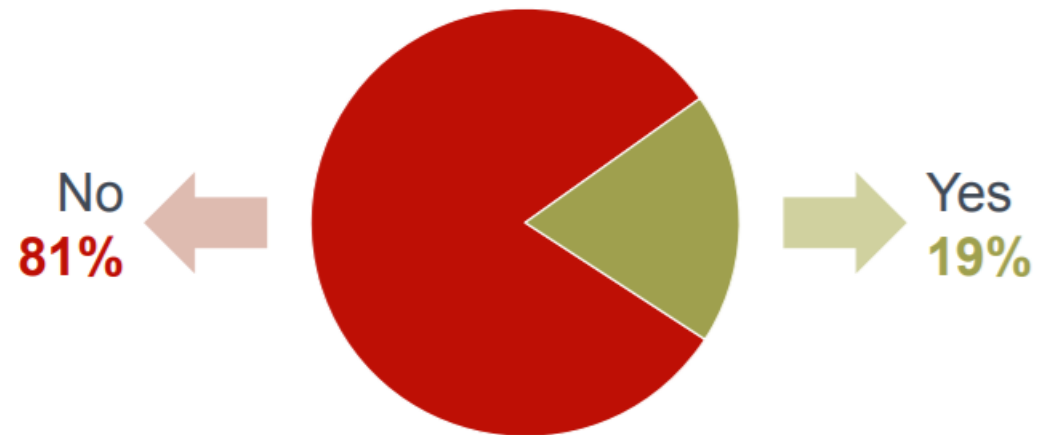
Are patents used as a source of information in the innovation process?





Past usage of patent information as an information source

Have you used patent information in the past?





Take home messages

Use (free) patent databases to **retrieve strategic information**.

Consult them **before** and **during** research, development and commercialisation.
Throughout the innovation process

Patent information is an important source of **technical, legal and business-related information**.

Use free sources to **identify existing technologies**, gaps in technology, **key players**, potential **infringement** and **trends**.

Consult the experts for mission critical decisions



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Information Promotion



Thank you!

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