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Inventing in Collaboration: The Allocation of Patent Ownership in R&D Partnerships

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Ask the Expert 27/10/2023



Open Innovation

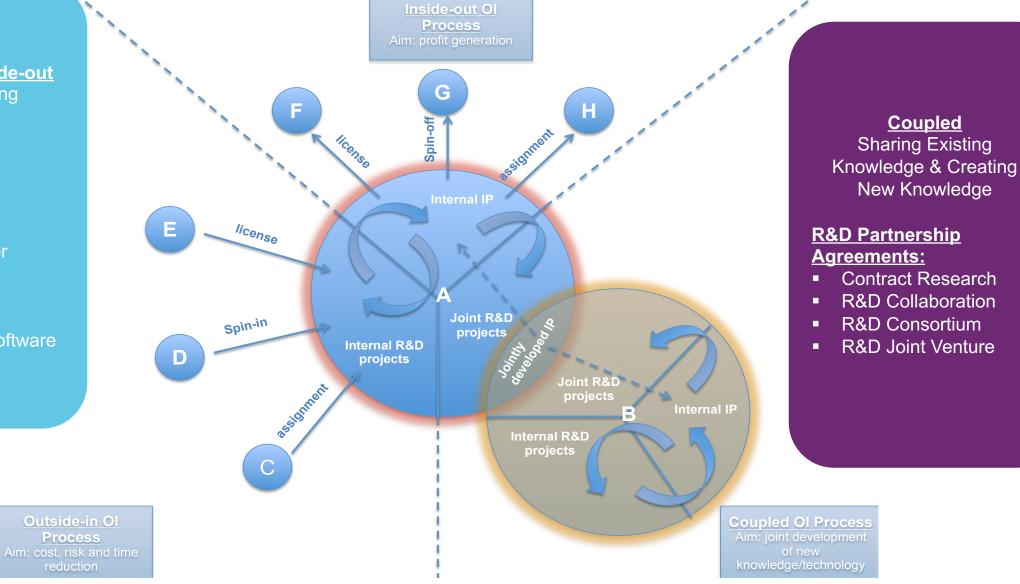
Chesbrough

 OI is "a paradigm that assumes that firms can and should use external ideas, and internal ideas, and internal and external paths to the market, as firms look to advance the technology".



Agreements:

- Licensing
- Assignment
- Consultancy
- **Material Transfer**
- **Non-Disclosure** Agreement
- Spin-off/ spin-in
- **Open Source Software**



Source: Gorbatyuk A. (2019) 'Rethinking IP Ownership in the Context of Open Innovation' PhD Thesis, KU Leuven; Gorbatyuk, A., Van Overwalle, G., and van Zimmeren, E. (2016) 'Intellectual Property Ownership in Coupled Open Innovation Processes' 47(3) International Review of Intellectual Property and Competition Law 262-302

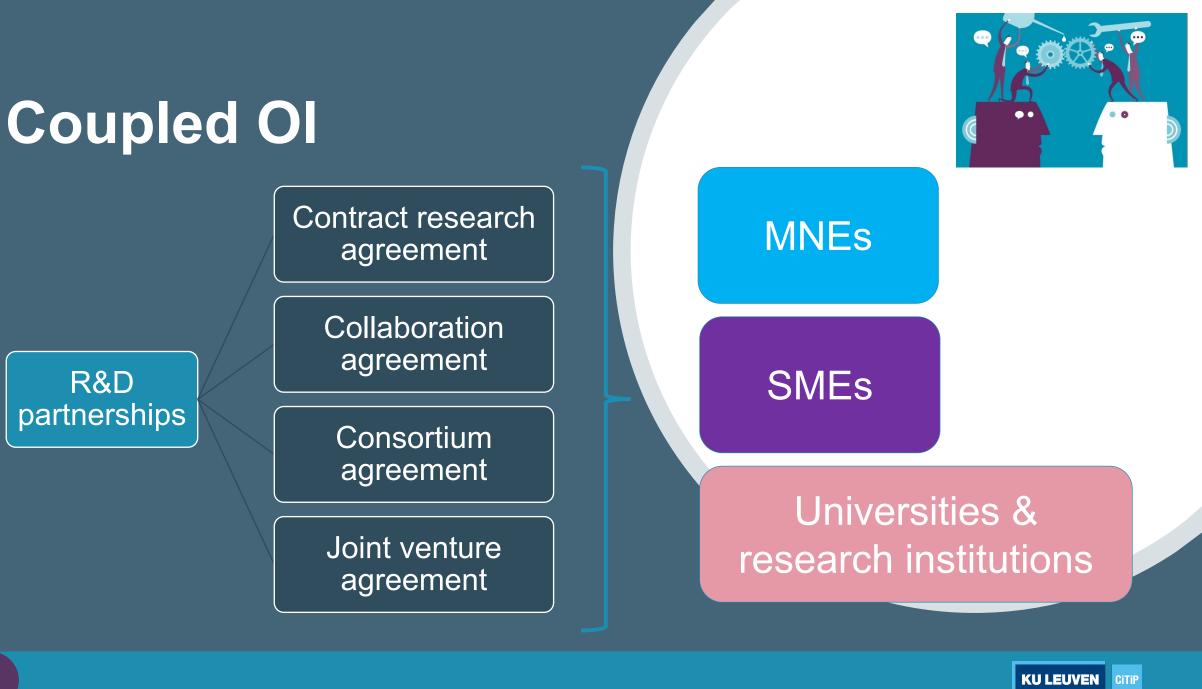
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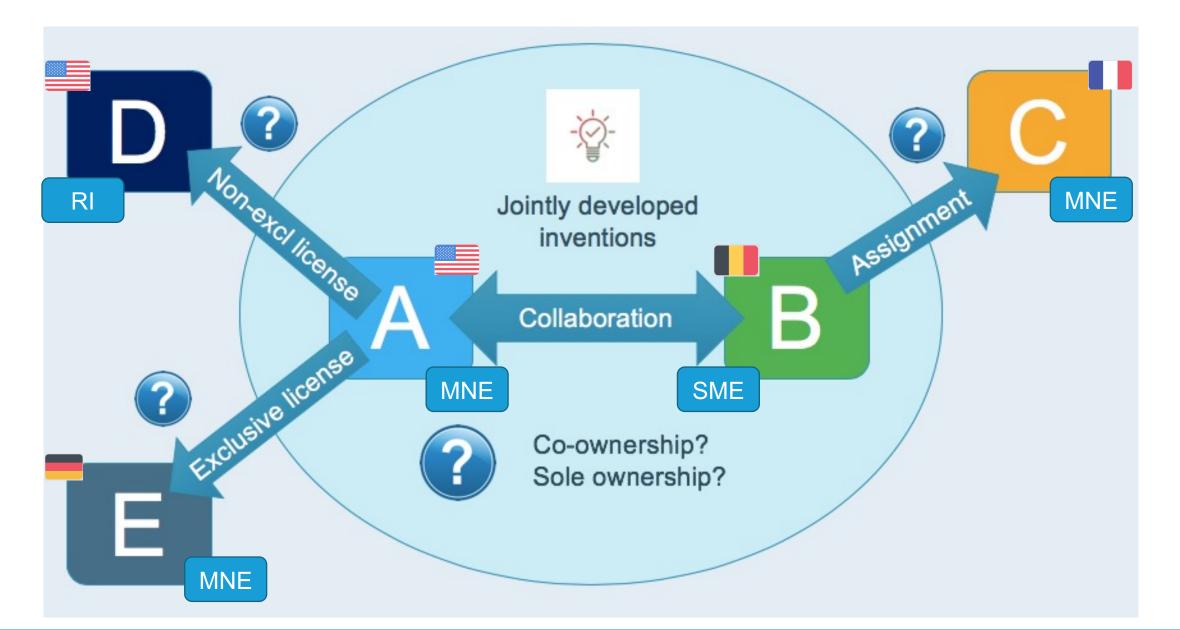
Coupled

Sharing Existing

New Knowledge



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Outline

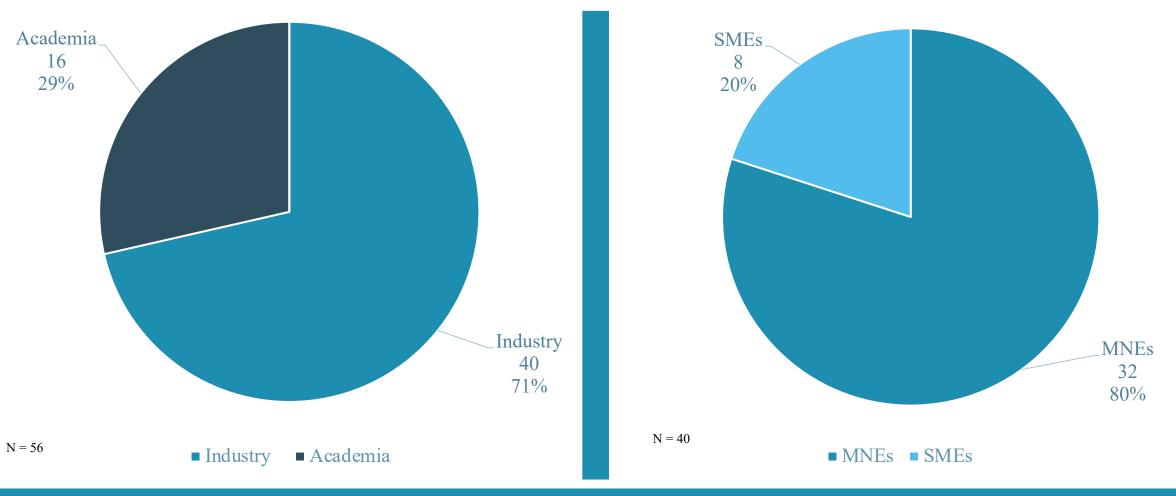
(1) Scenarios to allocate foreground IP ownership in R&D partnerships

(2)

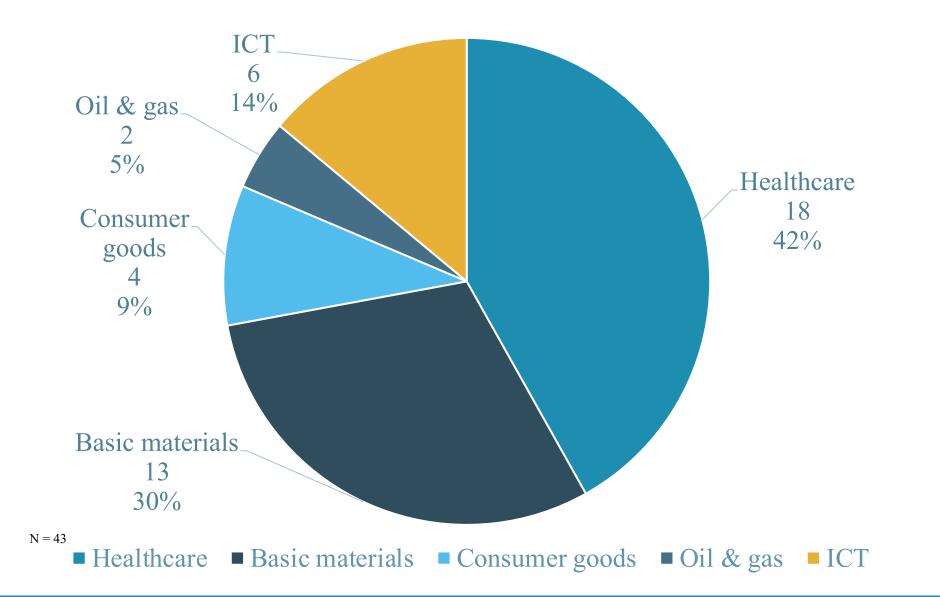
Improvements to facilitate the allocation of foreground IP ownership in R&D partnerships



Data









1. Foreground IP Ownership Allocation Scenarios

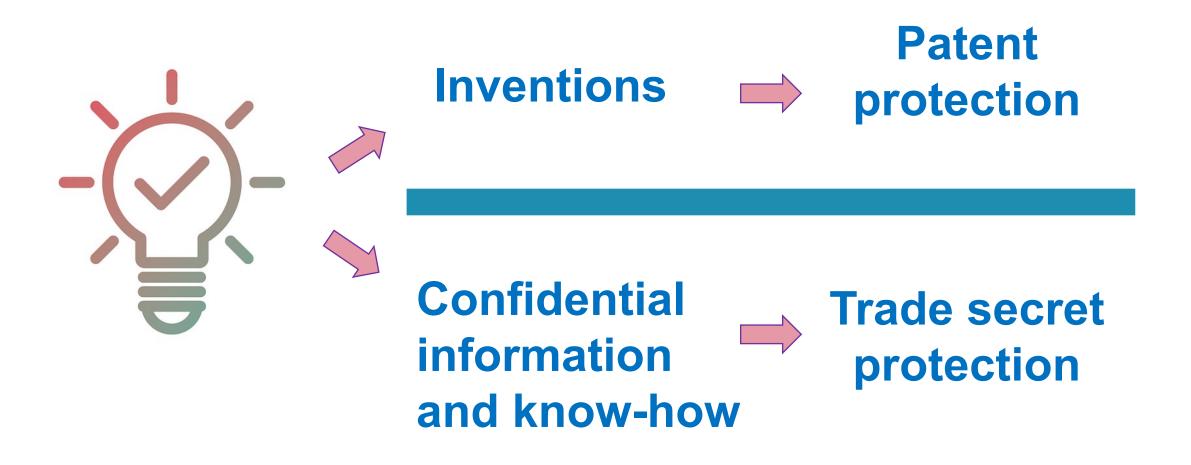






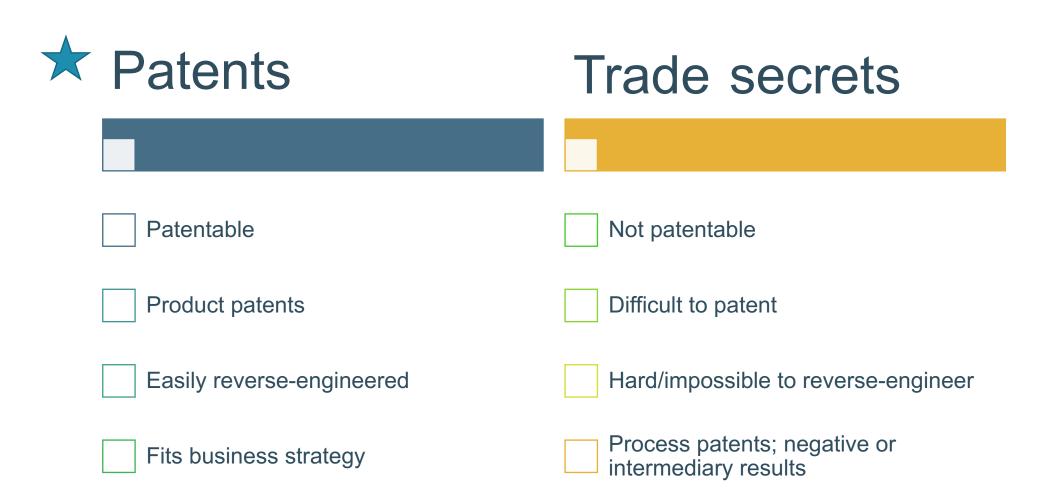
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IP Protection Mechanism





Type of IP Protection

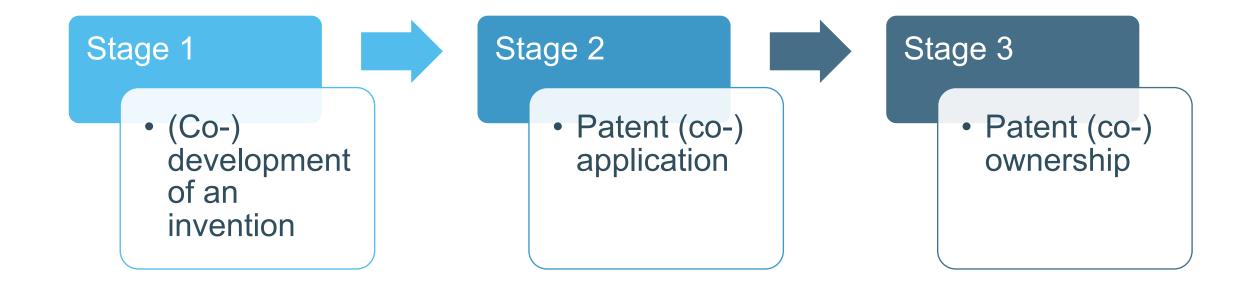




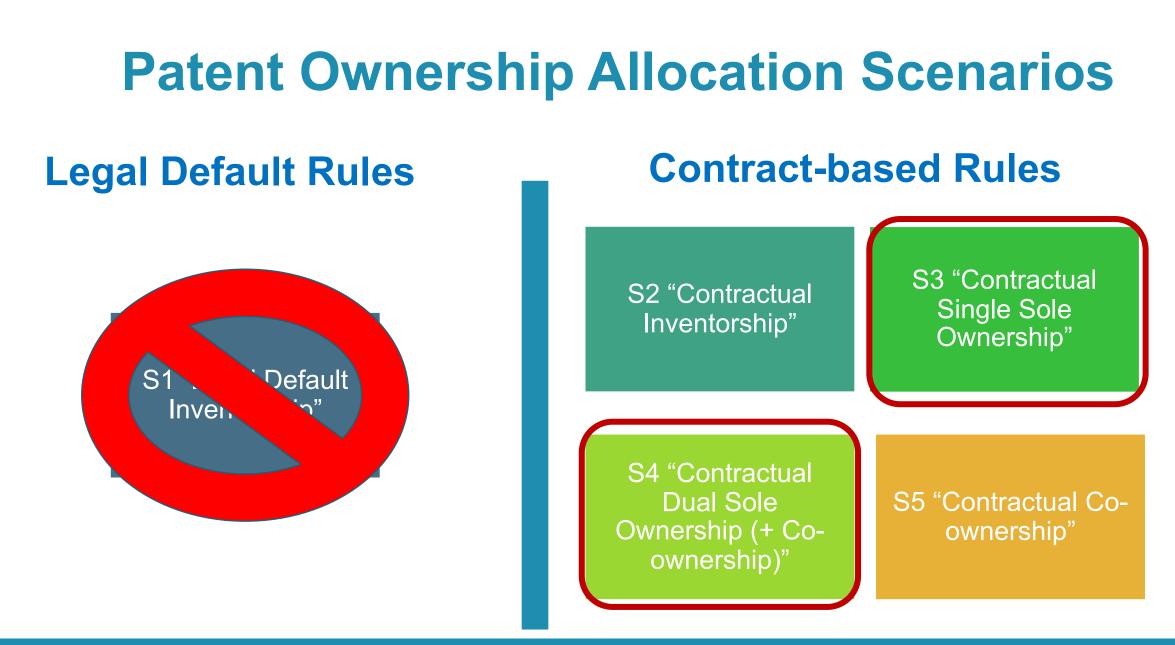
1.1. Foreground Patent Ownership Allocation Scenarios



From (co-)inventorship to (co-)ownership







Source: Gorbatyuk, A. (2020) '<u>The Allocation of Patent Ownership in R&D Partnerships: Default Rules v. Contractual Practices</u>'
17(1) SCRIPTed: A Journal of Law, Technology and Society; Gorbatyuk A. (2019) 'Rethinking IP Ownership in the Context of Open Innovation' PhD Thesis, KU Leuven

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S1 "Legal Default Inventorship"



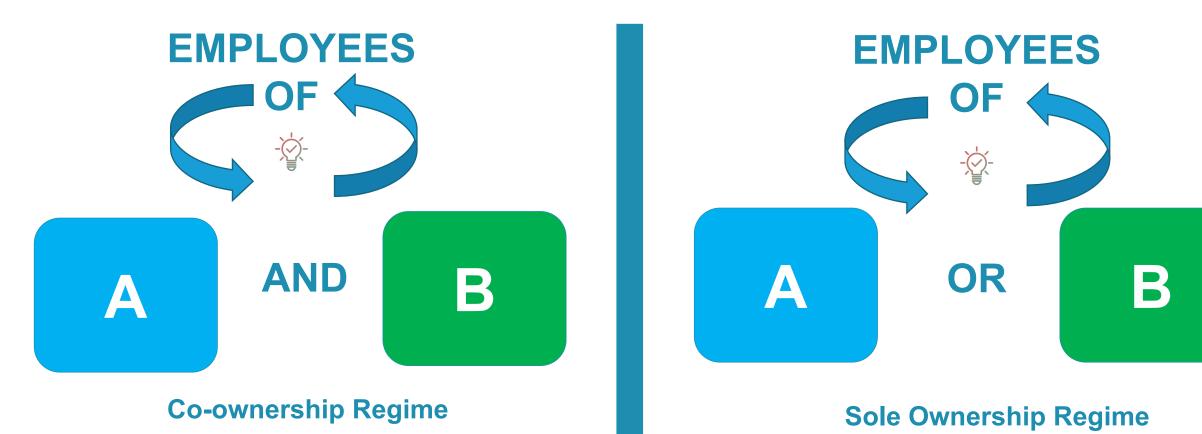


An agreement is incomplete

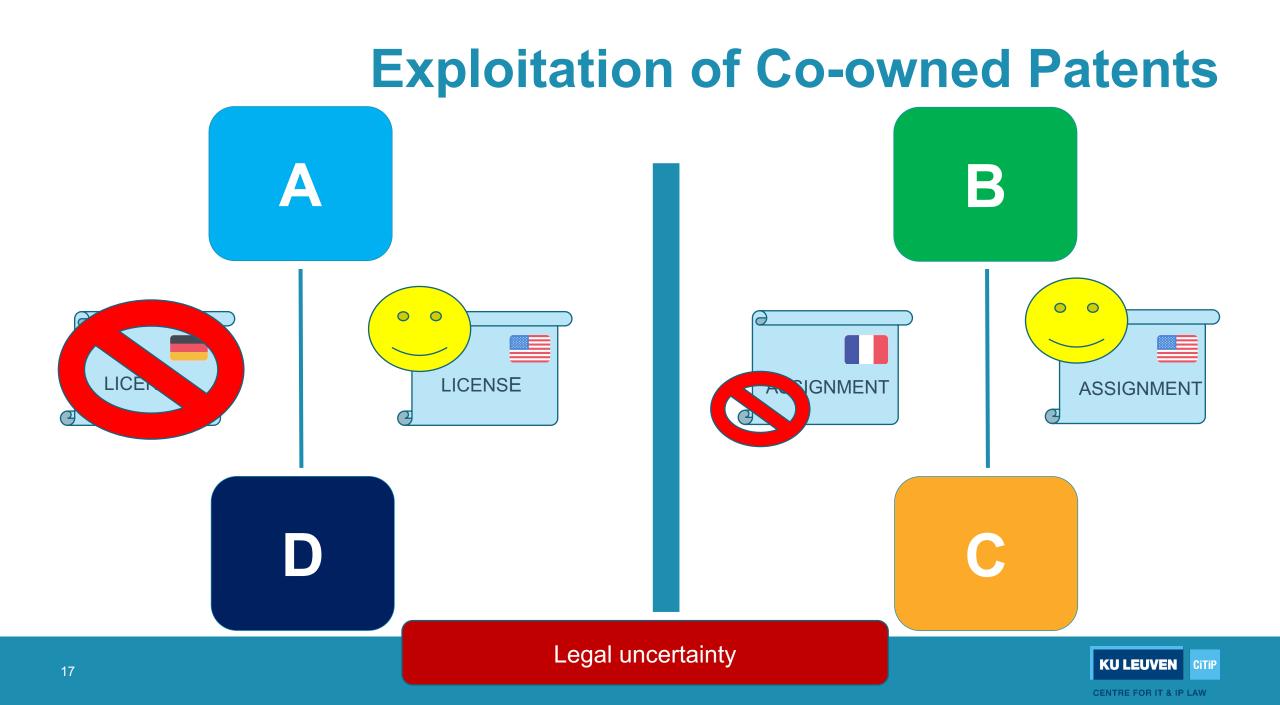




Patent Ownership







	Exploitation of a co-owned patent				
Country	Use	Licensing		Assignment	Income
		Non-exclusive	Exclusive	Personal share	distribution
US	35 U.S.C. 262	35 U.S.C. 262		35 U.S.C. 262	Blackledge v
					Weir
	Independently	Independently		Independently	Not required
France	L613-29(a) CPI	L613-29(d) CPI	L613-29	L613-29(e) CPI	L613-29(c)
			(d) CPI		CPI
	Independently	Independently,	Jointly	Independently,	Required
		but with		but with	
		notification of a		notification, pre-	
		draft		emption right	
Belgium	XI.49(2) CEL	XI.49(2) CEL		XI.49(2) CEL	-
	Independently	Jointly		Independently,	Not required
				but with	
				notification, pre-	
				emption right	
Germany	743(2) BGB	747 BGB		747 BGB	743 I BGB
		Gummielastische Masse II			
	Independently	Jointly		Independently	Not required

17(1) SCRIPTed: A Journal of Law, Technology and Society; Gorbatyuk A. (2019) 'Rethinking IP Ownership in the Context of Open Innovation' PhD Thesis, KU Leuven

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"We never follow the default arrangement by law. Simply because it is different country by country. Many people think: you are a Belgian company, so the Belgian patent law applies to that family of patents. But that is not true. If the family of patents contains a US patent, it is the US patent law that provides the default arrangements."

Source: Gorbatyuk, A. (2020) '<u>The Allocation of Patent Ownership in R&D Partnerships: Default</u> <u>Rules v. Contractual Practices</u>' 17(1) SCRIPTed: A Journal of Law, Technology and Society



S2 "Contractual Inventorship"





R&D consortium agreements



S3 "Contractual Single Sole Ownership"

Ownership

 Based on financial contribution/ who provided a problem to solve

Timing

Before inventions are developed

Exploitation Rights

- Exploited by a sole owner
- Potential license to the other party

R&D contract research agreements between a company and a university or a research institution

R&D collaboration agreements between MNEs and SMEs



S4 "Contractual Dual Sole Ownership (+ Co-ownership)"

Ownership

 Based on the field or type of an invention

Timing

• *After* inventions are developed

Exploitation Rights

- Exploited by a sole owner
- Potential license to the other party

R&D collaboration agreements



S5 "Contractual Co-ownership"



R&D collaboration agreements between universities

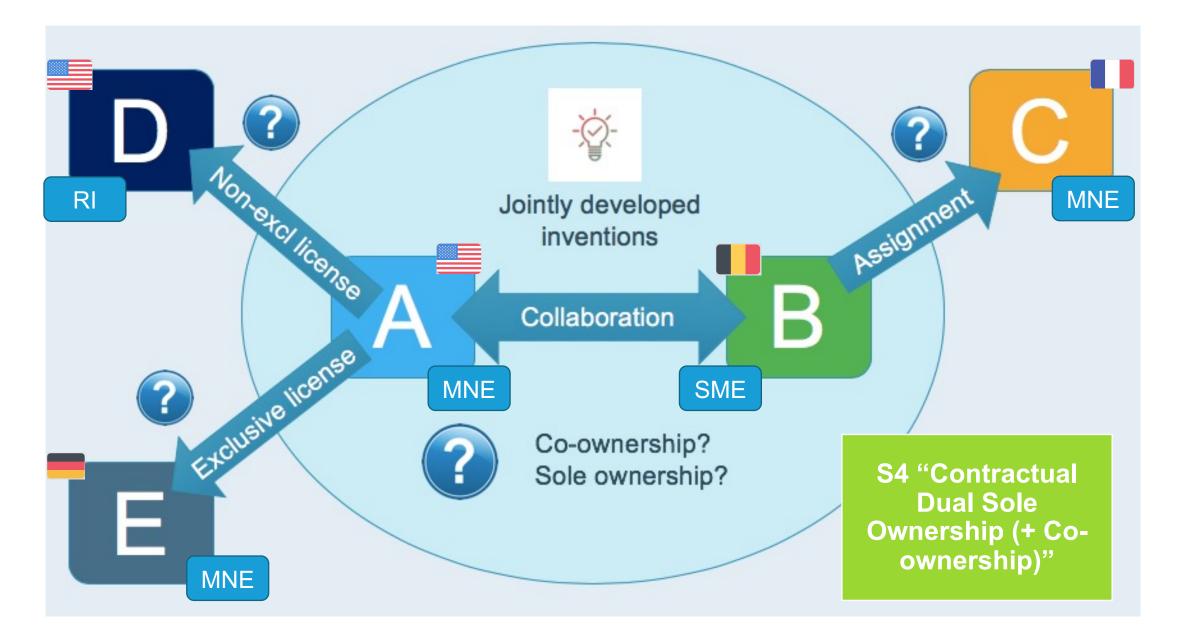
R&D collaboration agreements between universities and companies

R&D collaboration agreements between MNEs/SMEs from the same industry sector



"I hate co-ownership applications. As often as I can I will avoid it. Because it is always very complicated. First of all, you have to define who will take care of the prosecution of the application. Who will draft it? Secondly, if you have co-ownership, you really need to define some rules of co-ownership. Who will do what? Who can exploit what? What to do in case one of the partners is no longer interested in obtaining patent protection in a specific country? All these have to be prepared in advance and negotiated. It is very boring to try to negotiate that."







1.2. Foreground Trade Secret Control Allocation Scenarios





Trade Secret Definitions

EU TS Directive

Article 2(1)

Information that (a) is **secret** in the sense that it is not, as a body or in the precise configuration and assembly of its components, generally known among or readily accessible to persons within the circles that normally deal with the kind of information in question; (b) has commercial value because it is secret; (c) has been subject to reasonable steps under the circumstances, by the person lawfully in control of the information, to keep it secret

= Article 39 TRIPS

DTSA

1839, Title 18 USC

Means all forms and types of financial, business, scientific, technical, economic, or engineering information ... if (A) the owner thereof has **taken reasonable measures to keep such information secret**; and (B) the information **derives independent economic value**, actual or potential, from not being generally known to, and not being readily ascertainable through proper means by, another person who can obtain economic value from the disclosure or use of the information

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Who is a Trade Secret Holder?

EU TS Directive

Article 2(2)

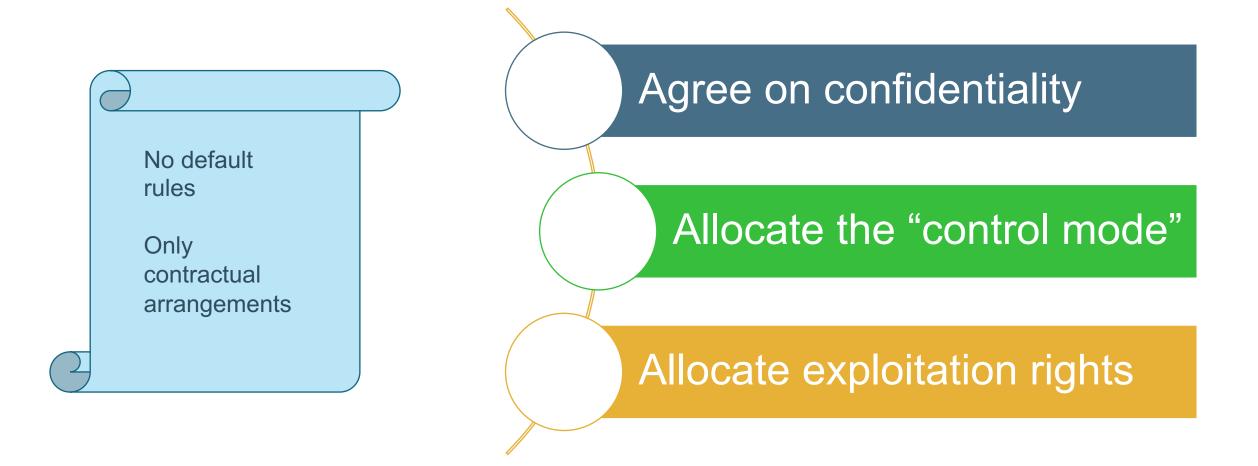
'Trade secret holder' means any natural or legal person <u>lawfully</u> <u>controlling</u> a trade secret DTSA

1839, Title 18 USC

The term 'owner', with respect to a trade secret, means the person or entity in whom or in which <u>rightful legal or</u> <u>equitable title</u> to, or license in, the trade secret is reposed



Trade Secret Control





Trade Secret Control Allocation Scenarios

Trade secret

clause

Confidentiality clause

Trade secret control follows patent ownership

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2. Improvements to Facilitate Allocation of Foreground IP Ownership

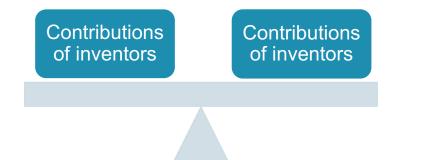


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Different Perspectives on "Fairness"



Collaborating parties (S2-5)



All contributions of parties to the project

Acquired gains from the project



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Contractual Practices and Third-Party Perspective

Lack of openness

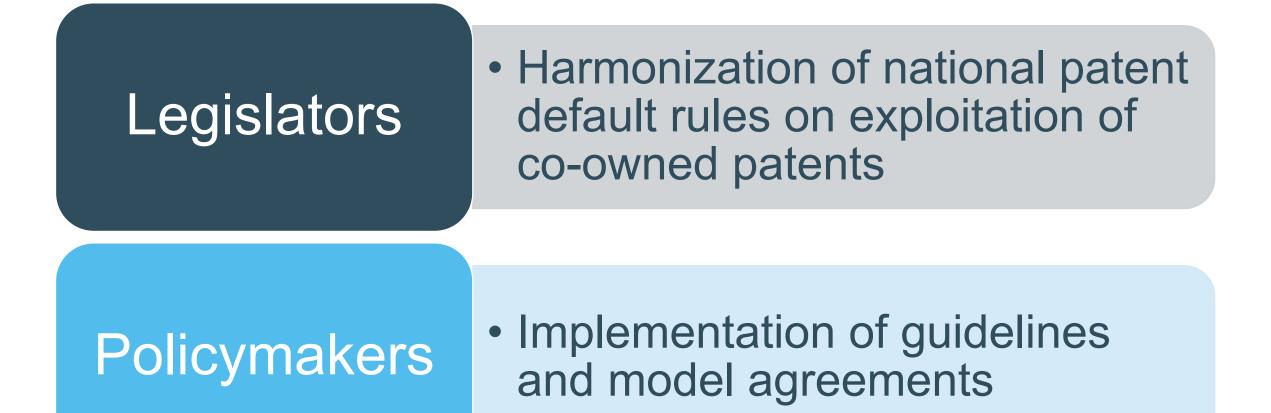
 Confidential nature of contractual arrangements leads to legal uncertainty for third parties and may limit accessibility of developed knowledge

Lack of transparency

 Patent offices fail to provide third parties with accurate and timely information on patent owners and related right holders



Recommendations to Facilitate the Allocation of IP Ownership in R&D Partnerships





Recommendations to Increase Openness and Transparency of IP Generated in R&D Partnerships

Patent offices

- Openness: Recordation of contractually specified exploitation rights
- *Transparency*: Implement obligatory recordation of assignments and licenses of patents

Legislators/ policymakers

• Openness: Increasing the number of patents (co-)owned by universities



Main "Takeaways"

Legal framework on **patent ownership**, based on **inventorship**, is not followed Legal framework on **trade secret control** does not provide any relevant default rules

Collaborating organizations heavily **rely on contracting** and often prefer to **solely own** the R&D outcomes Collaborating organizations often struggle to allocate control over jointly developed trade secrets

The understanding of a "**fair**" allocation of patent ownership significantly differs between legislators and collaborating organizations

Policymakers and legislators could facilitate the allocation of IP ownership in R&D partnerships



Thank you very much for your attention!

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