

Value of sharing research culturally and economically, publishing and patents

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PLAN



Plan

- I – Why do research ? The role of innovation
- II – What is a result ? An information
- III – How stimulate the creation of information
- IV – Developing or disseminating : who decides ?

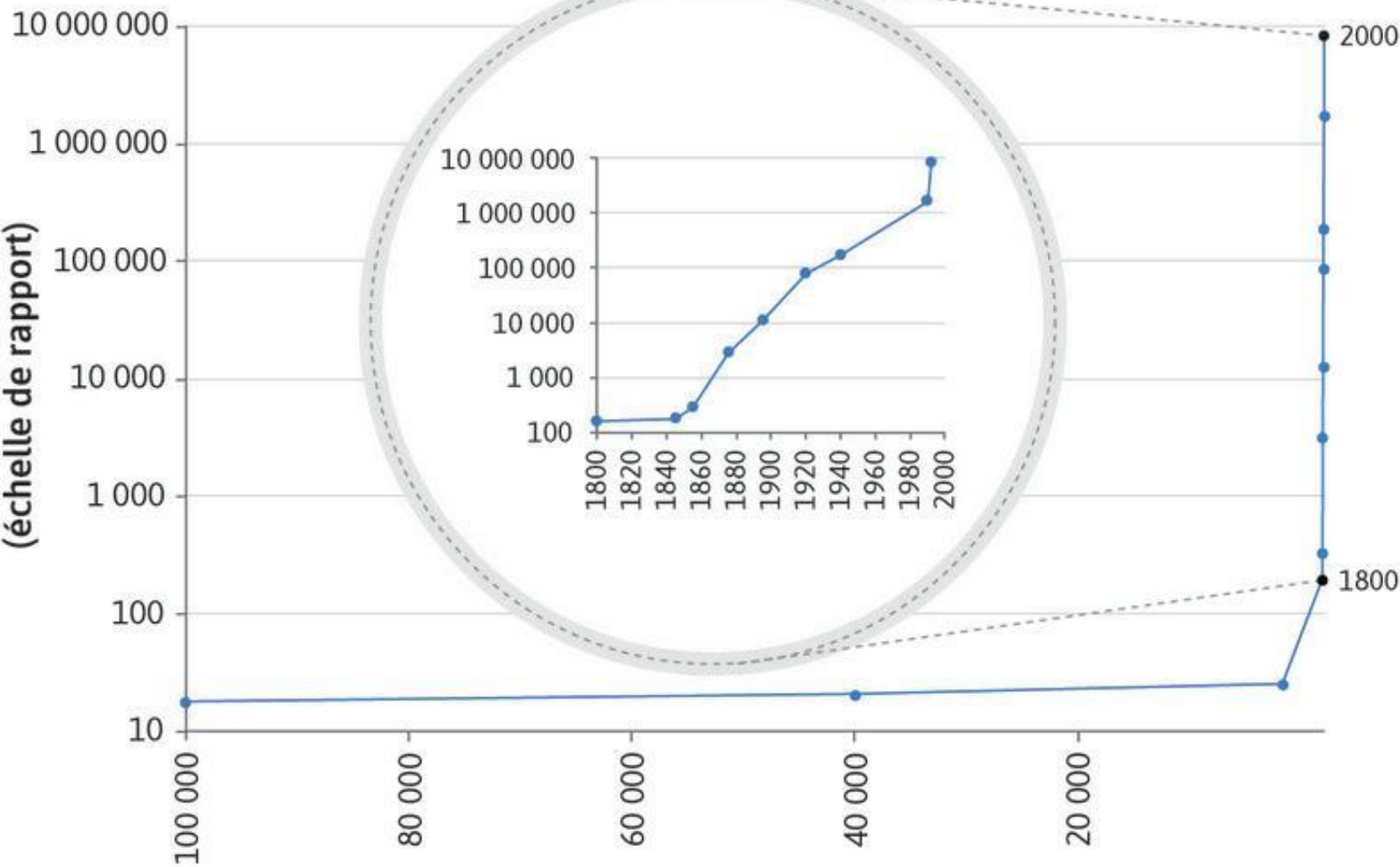
I – Why do research ?



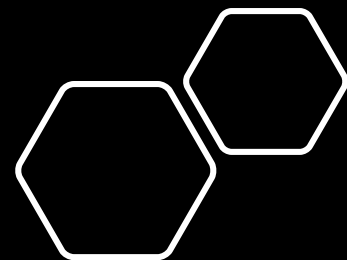
Some curves...



Lumen-heures par heure de travail
(échelle de rapport)

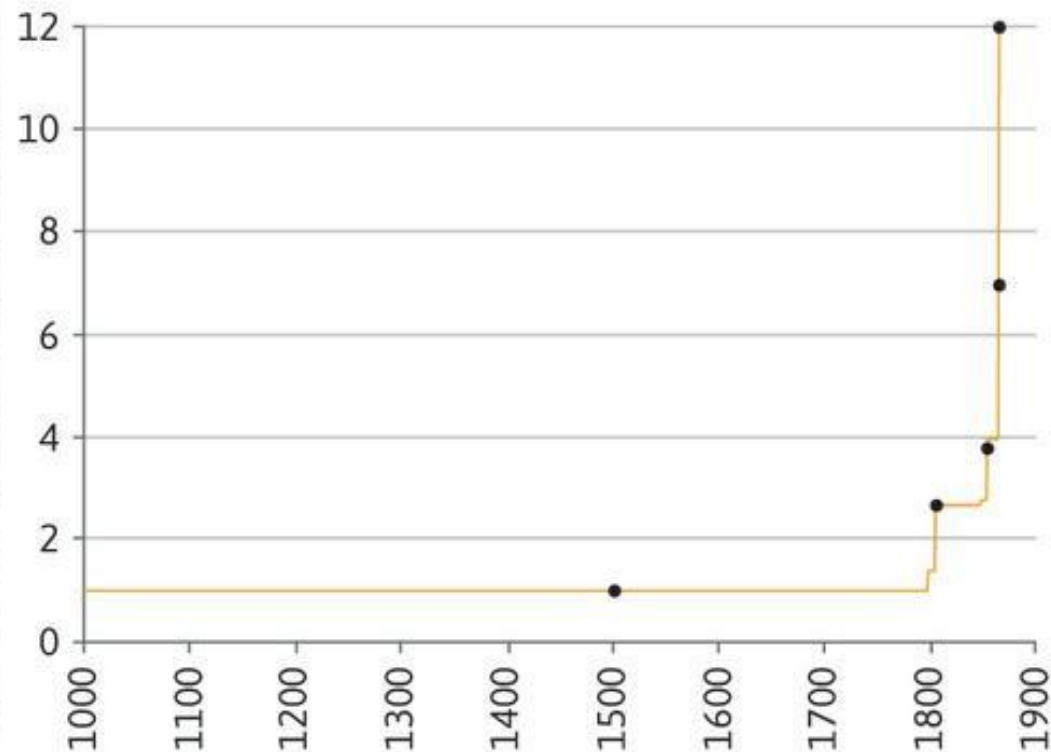


Il y a ... ans (nombre d'années dans le temps)



Evolution of lighting power

Vitesse de l'actualité (miles par heure)



1 MPH
Entre l'Égypte et l'Italie
(50-222)

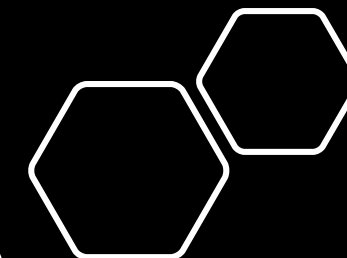
1 MPH
Entre Venise et Damas, Alexandrie,
Lisbonne et Palerme (1500)

12 MPH
La nouvelle de l'assassinat de Lincoln
traverse les États-Unis (1865)

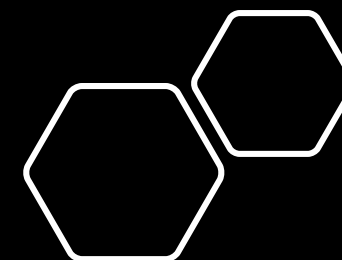
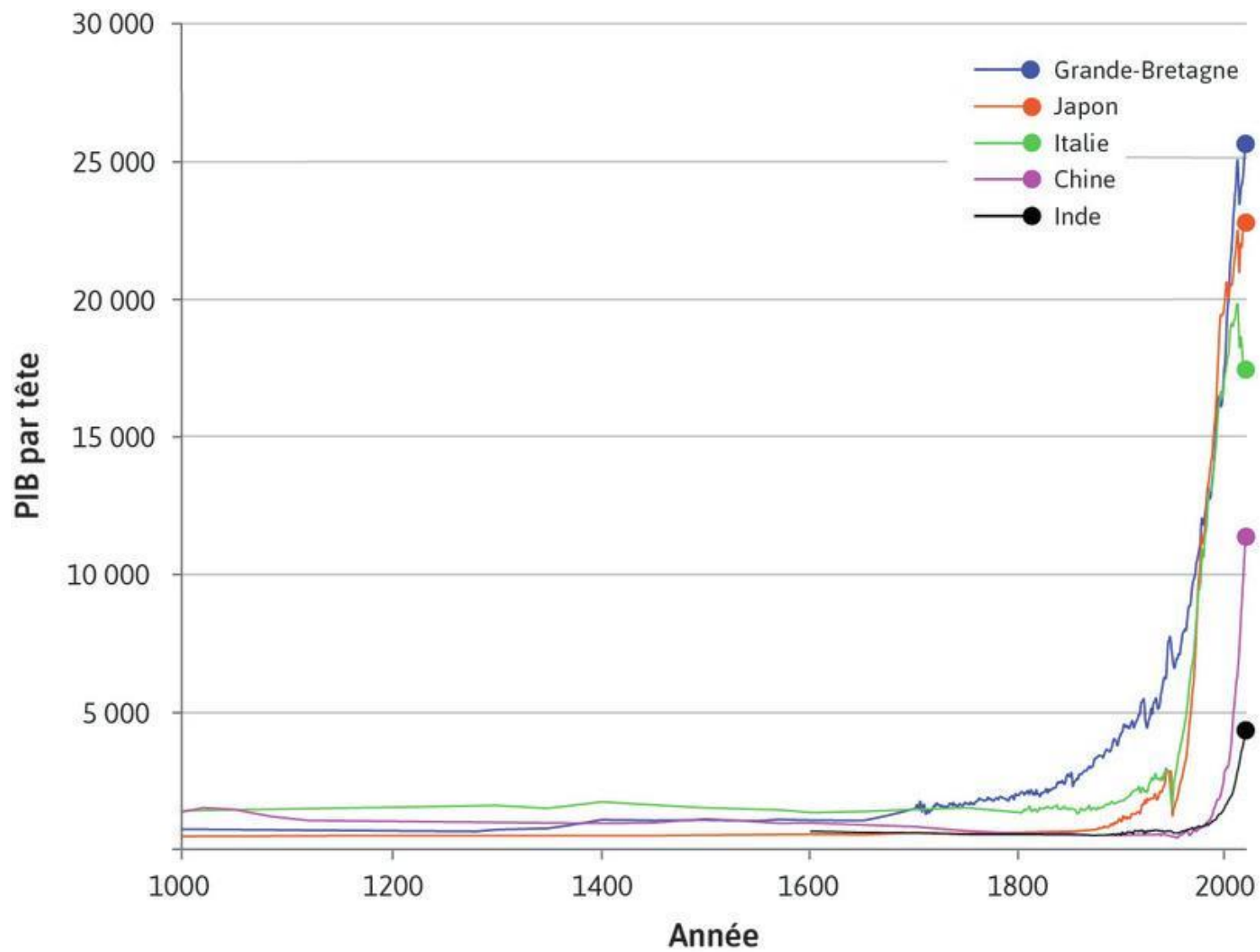
7 MPH
La nouvelle de l'élection de Lincoln
atteint la côte ouest des États-Unis
depuis Washington DC, à l'est (1860)

3,7 MPH
La nouvelle d'une mutinerie indienne
arrive à Londres depuis Delhi (1857)

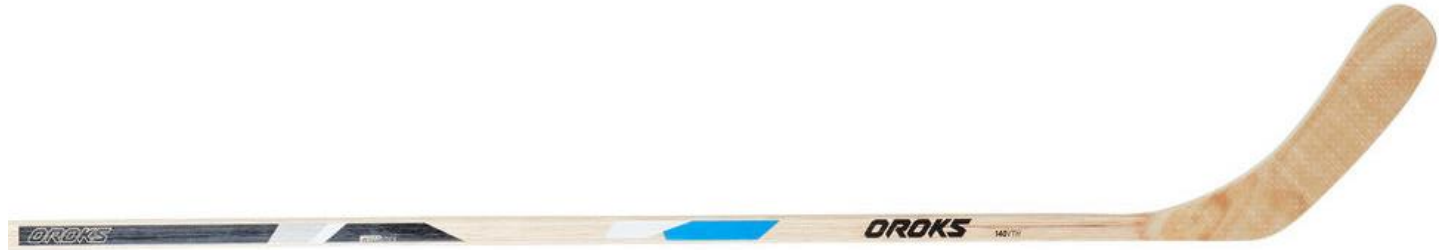
2,7 MPH
La nouvelle de la bataille
de Trafalgar, au large de l'Espagne,
arrive à Londres (1805)



Evolution of the speed of
information circulation



Evolution of GDP per capita



What should we think?

- There is a link between innovation and growth
- This link is studied in economics





Joseph Schumpeter
Described the role of
innovation on growth through
cycles



Stage 1 degraded economy



Stage 2

Wave of innovation





Stage 3

Creative destruction





Stage 4

Imitation and erosion of rents





Stage 5

Back to degraded economy



Advent of a Knowledge economy



Development of information and communication technology (ICTs)



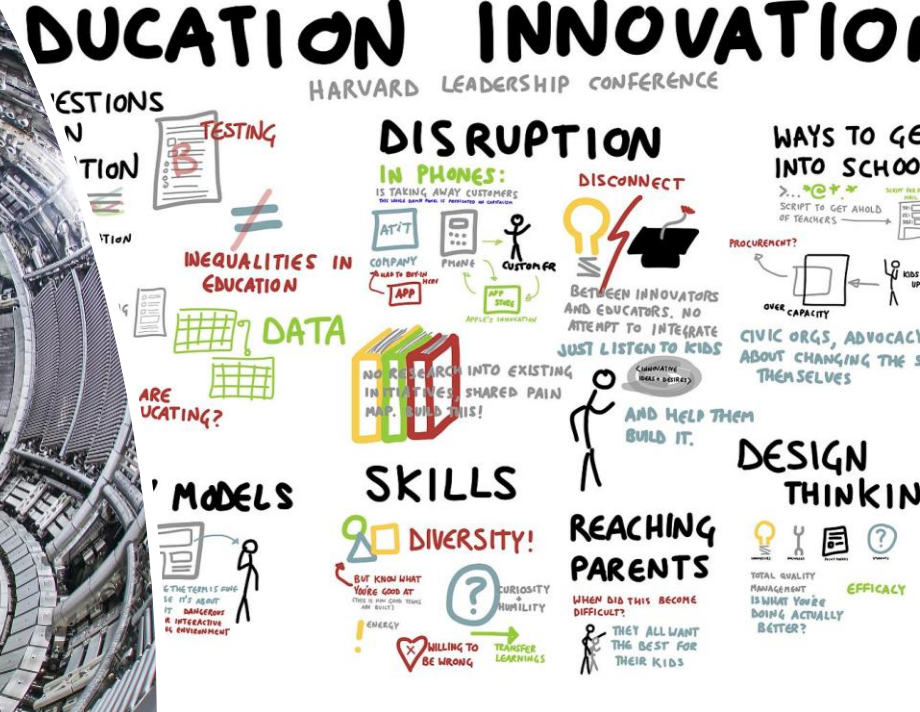
Innovation is a cumulative process

« we are dwarfs on the shoulders of giants »



Innovation transformation

Industry 4.0





Research results are information

- Articles,
- Research data
- Softwares
- Invention



A question of usefulness and scarcity



Information : a public good



Information is not appropriable

Free circulation of information

IP Rights are exceptions



—

A Need for
competitive advantage



Need for ROI

Technology transfer is a major source of funding





Public research is not a company

- Public research is publicly funded
 - Public research has a public service role
-



III – How stimulate the creation of information ?



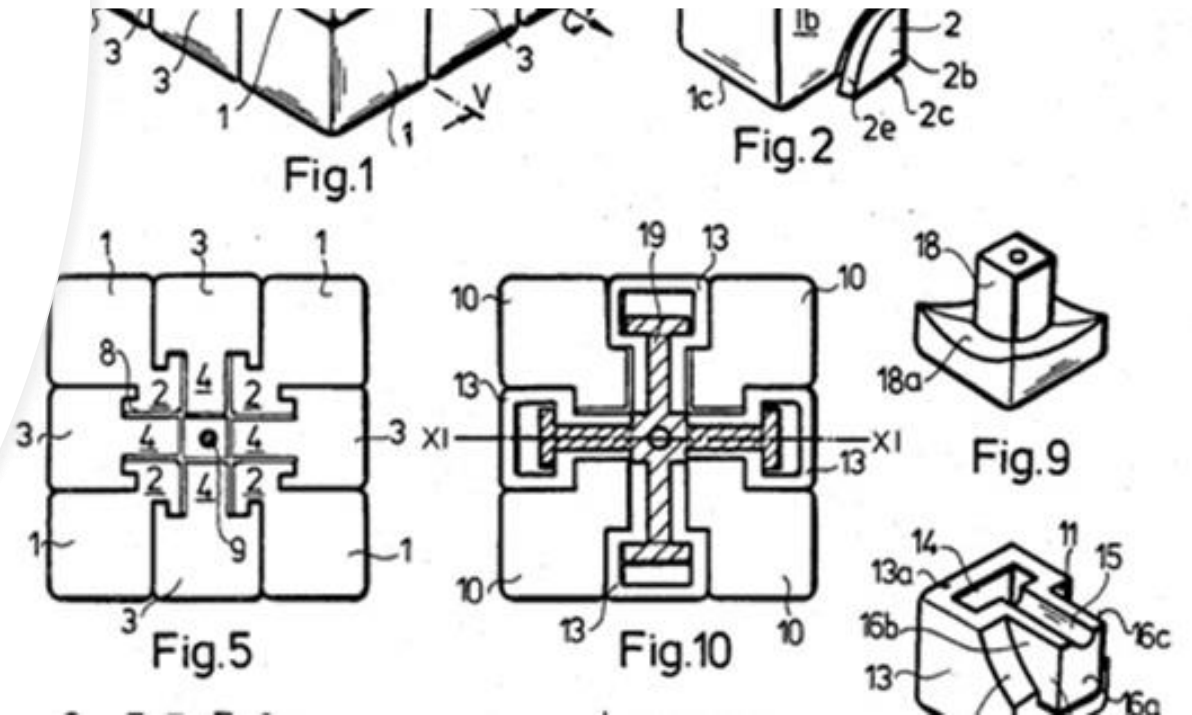
Using the contract

- Individual basis
- Transaction cost
- Need for confidentiality
- Less dissemination



Creating a legal institution

- universally applicable protection
- Less transaction cost
- No need for confidentiality
- immediate dissemination

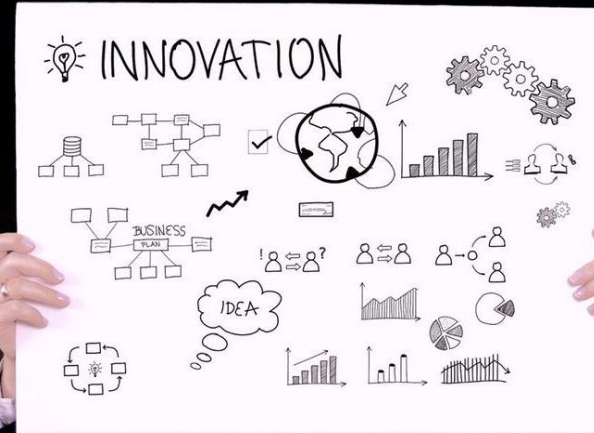


The question of incentive

Design of IP rights



Make Things
Happen

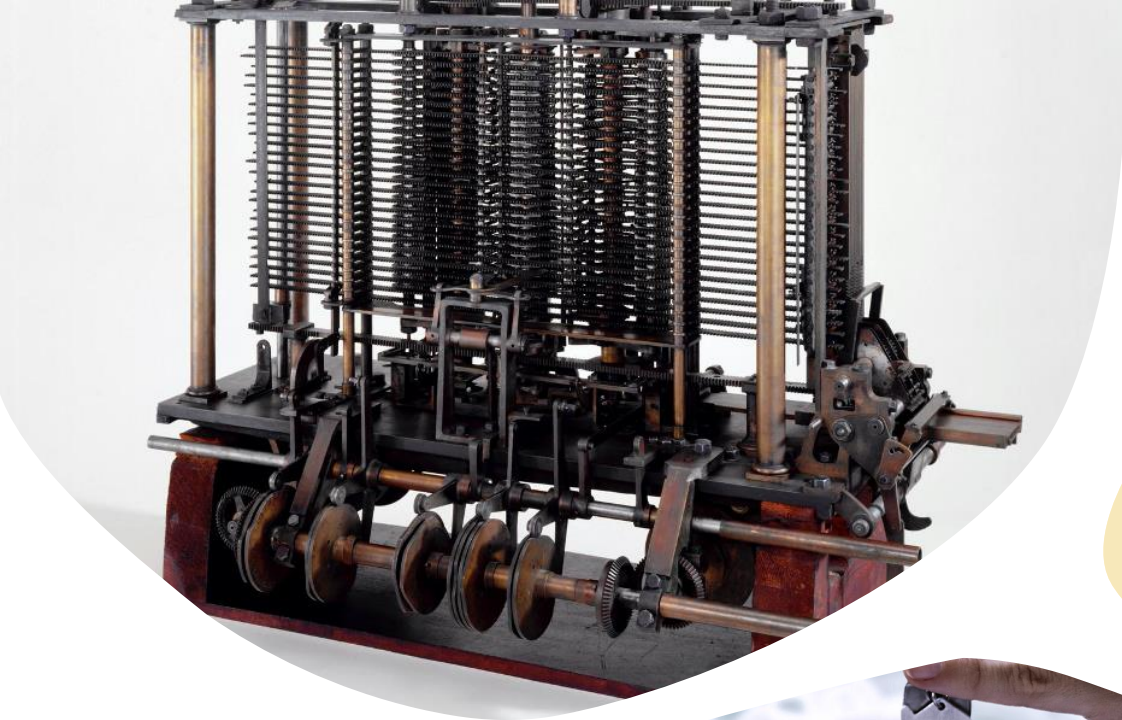




Two advantages of such a system:

- Communication of innovation
 - Accumulation of knowledge
-

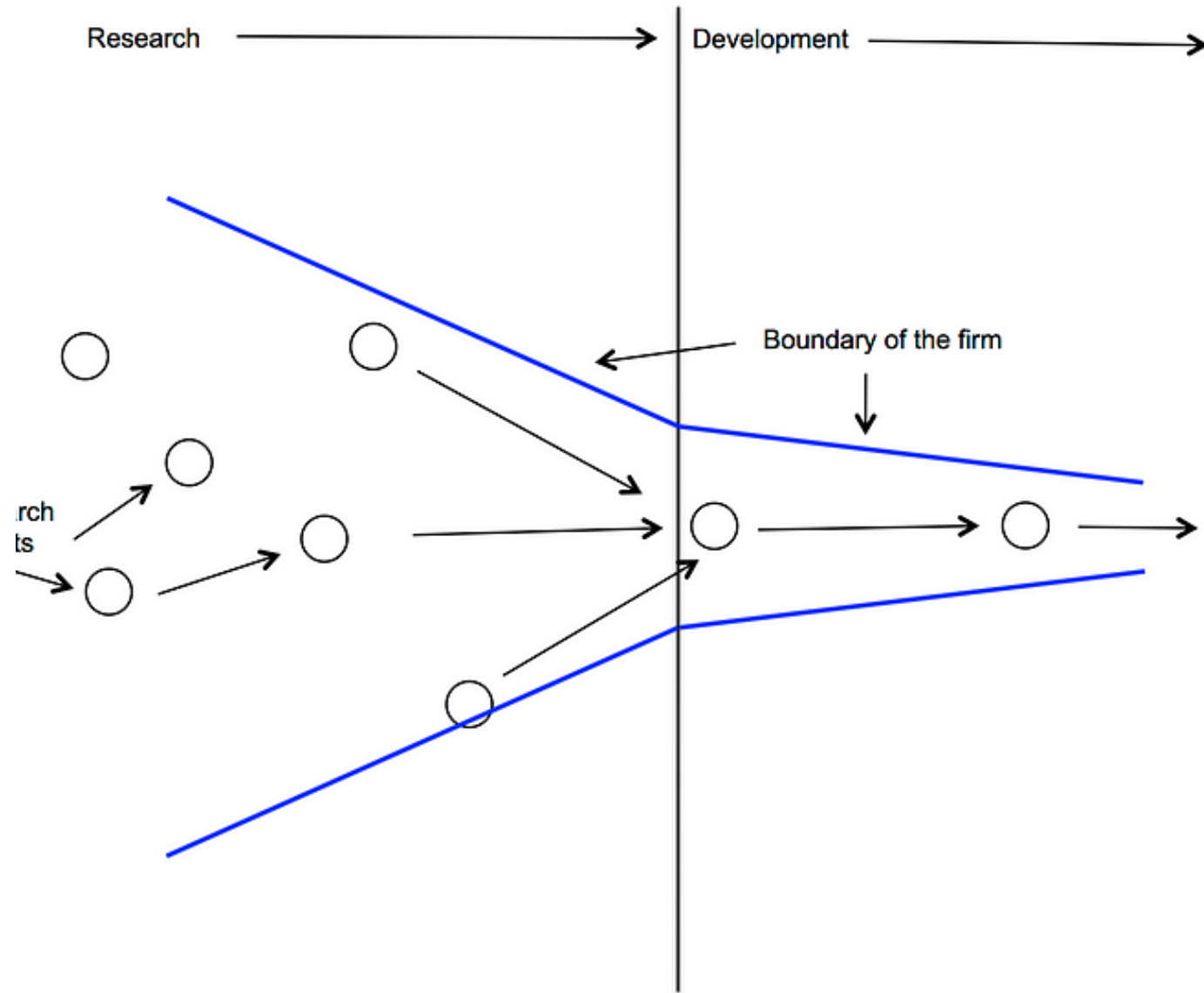




IP rights, like civil law property

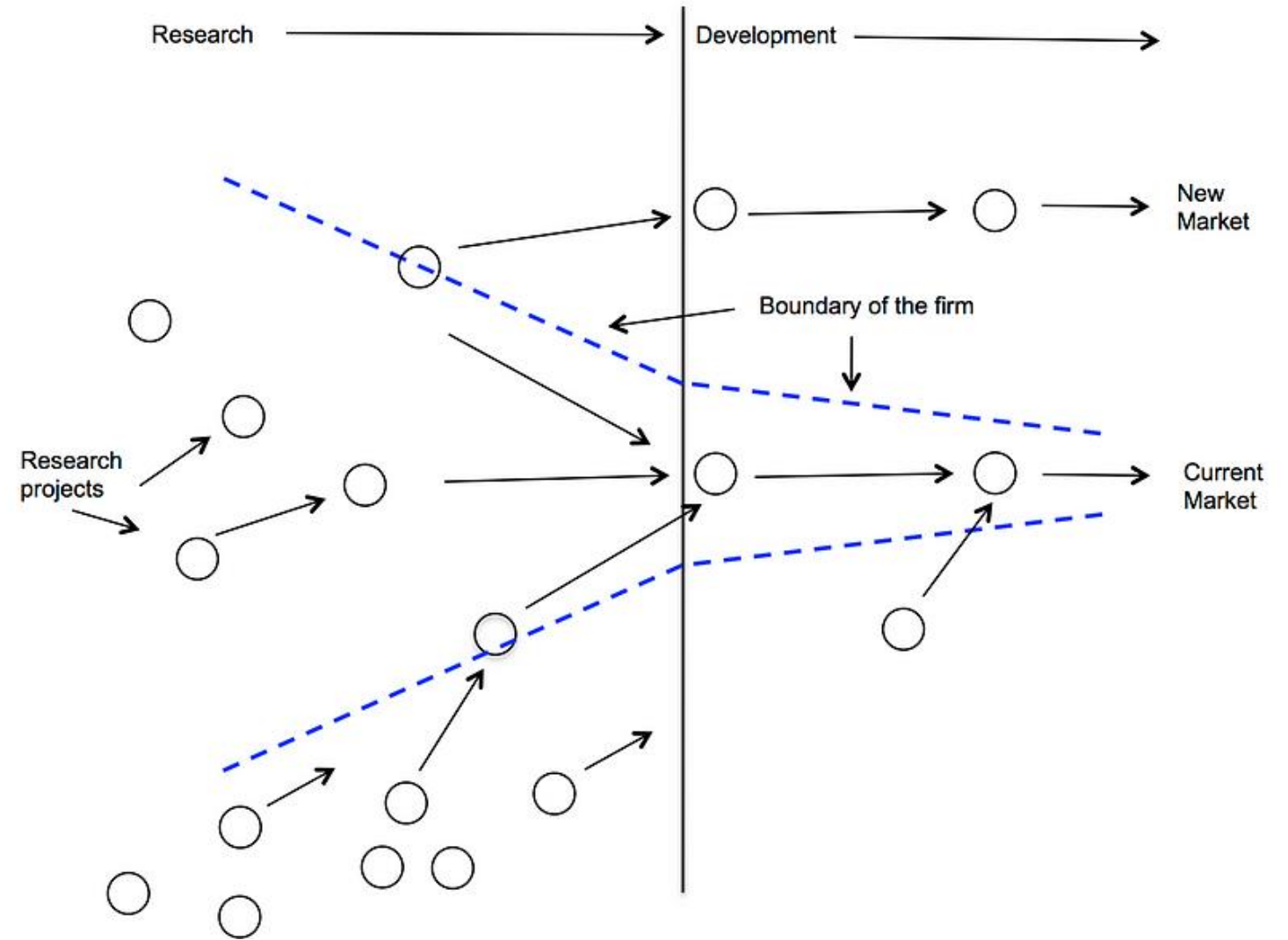
- Exclusivity
- Incentive effect





Closed innovation
model (Older model)

Open innovation model





Open innovation means
changing the way we
innovate



IP is not civil law property:

- Time-limited exclusivity (to limit Access barrier)
-
- Obligation to use or exploit

IV— Developing or disseminating: who decides?

- Should we develop ?
- Should we disseminate
- Should we do both ?



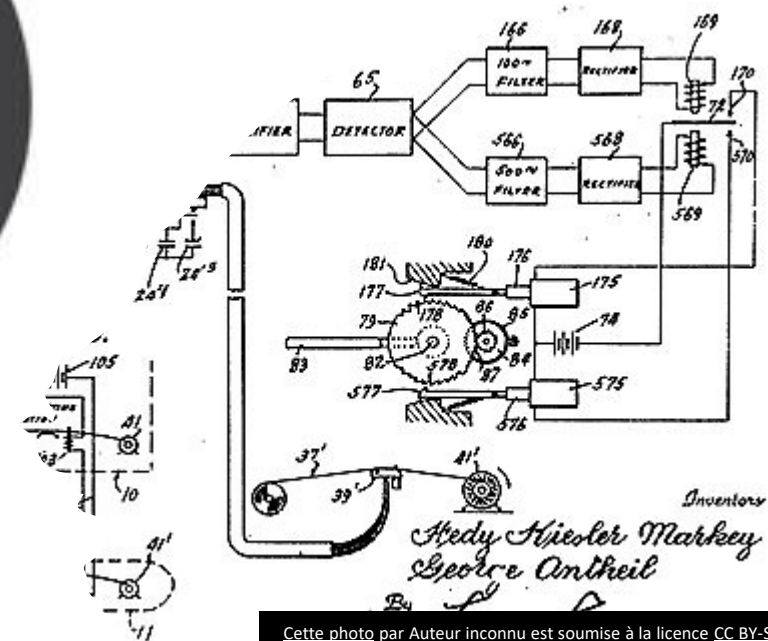
Do both ? :

A question of timing



Who owns the results?

- Patetnt
- Softwre
- Droit d'auteur



Once it is protected, we can
publish my articles.



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Scopus

Scopus

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can be used.

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	CC BY-ND	✓	✓	✓	✗	✓
	CC BY-NC	✓	✓	✗	✓	✓
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