

Protecting your research results

Patrick Di Stefano

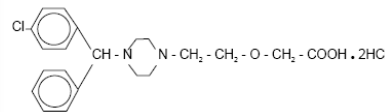


Introduction

Definitions - Intellectual Property Rights

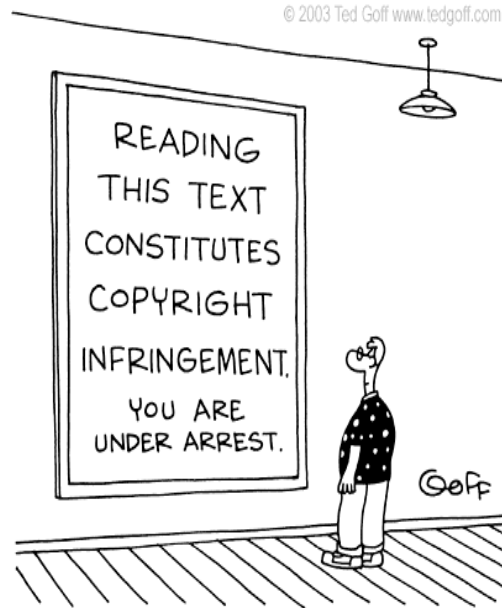
INTELLECTUAL PROPERTY: REFERS TO « CREATIONS OF THE MIND », THE PRODUCTS OF HUMAN INTELLIGENCE

- creations of the mind to which is given any material form whatsoever
- covers inventions, literary and artistic works, symbols, names, images and designs used in commerce (WIPO)



Introduction

Definitions - Intellectual Property Rights



INTELLECTUAL PROPERTY RIGHTS (IPR): RELATE TO THE FACT THAT CERTAIN INTANGIBLE PRODUCTS OF HUMAN INTELLECT SHOULD BE AFFORDED THE SAME PROTECTIVE RIGHTS THAT APPLY TO PHYSICAL PROPERTY.

- “Everyone has the right to the protection of the moral and material interests resulting from any scientific, literary or artistic production of which he is the author.”
(Universal Declaration of Human Rights, Art. 27)
- “Countries have laws to protect intellectual property [...] to promote, as a deliberate act of Government policy, creativity and the dissemination and application of its results and to encourage fair trading which would contribute to economic and social development.”
(WIPO Intellectual Property Handbook)



1. PROTECTING MY RESULTS: HOW, AND WHY ?

1. Protecting my results

Why should you protect the results of your research (as well as whatever creation you might make) ?

6 GOOD

REASONS TO
PROTECT YOUR
RESULTS

- ✓ To preserve your (and University's) rights as a creator
- ✓ To prevent others to exploit your invention without prior consent
- ✓ To increase economic development via technology transfer
- ✓ Possible leverage effect to get funding
- ✓ To facilitate partnerships
- ✓ Possible financial returns

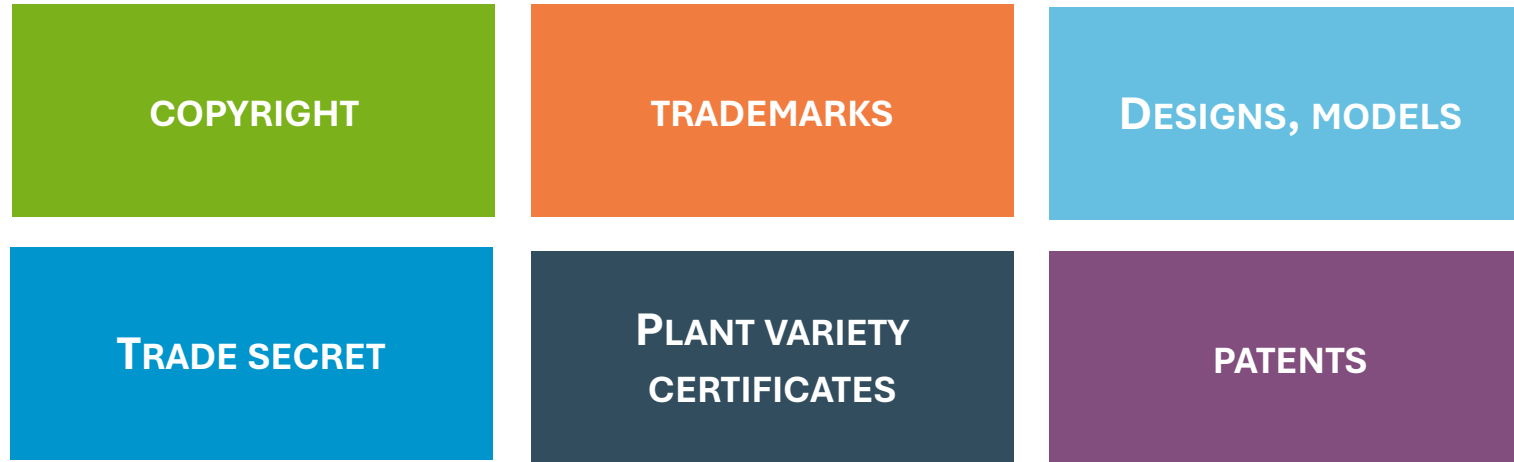
1. Protect my results

How ?



1. Protect my results

Intellectual property and Industrial property



1. Protect my results

Example : IPR involved in one single product, a smartphone

COPYRIGHT

- Software code
- User manual
- Ringtones, music
- Images



DESIGN, MODELS

- Global shape
- Keyboard layout
- Shape of the screen
- ...

TRADE SECRET

- Technical know-how, kept secret and not published

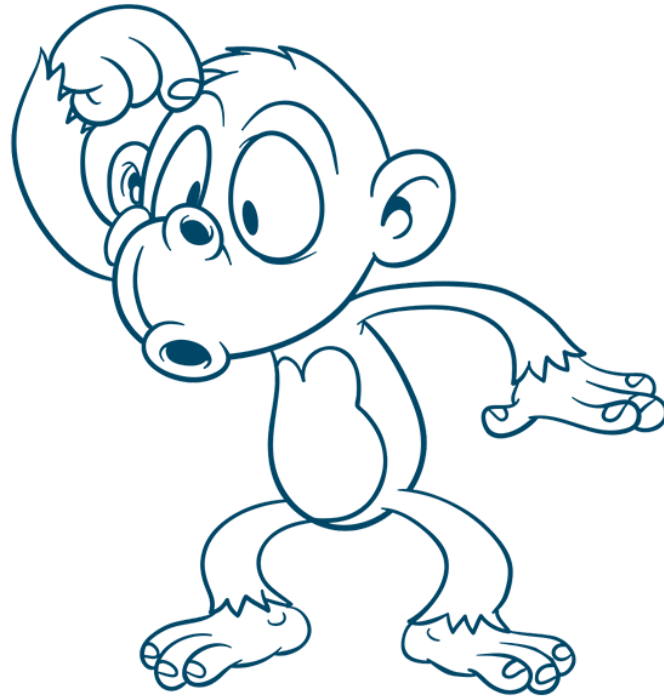
TRADE MARKS

- “Samsung”
- “Galaxy”
- “Android”

PATENTS

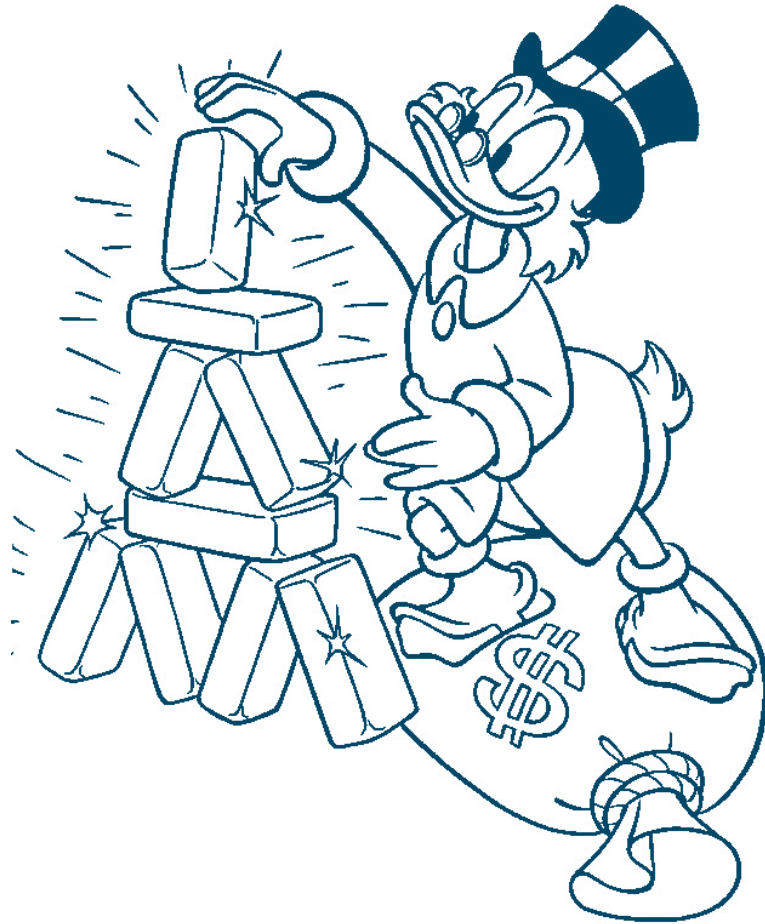
- Methods for handling data
- Semi-conductor circuits
- Chemicals
- Etc.

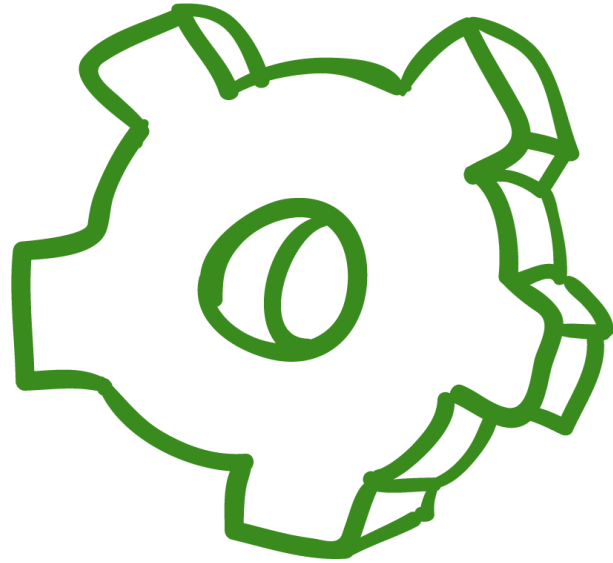
1. Protect my results and... so what ?



1. Protect my results...

...to valorize them !





2. VALORIZE MY RESULTS : WHY ? HOW ?

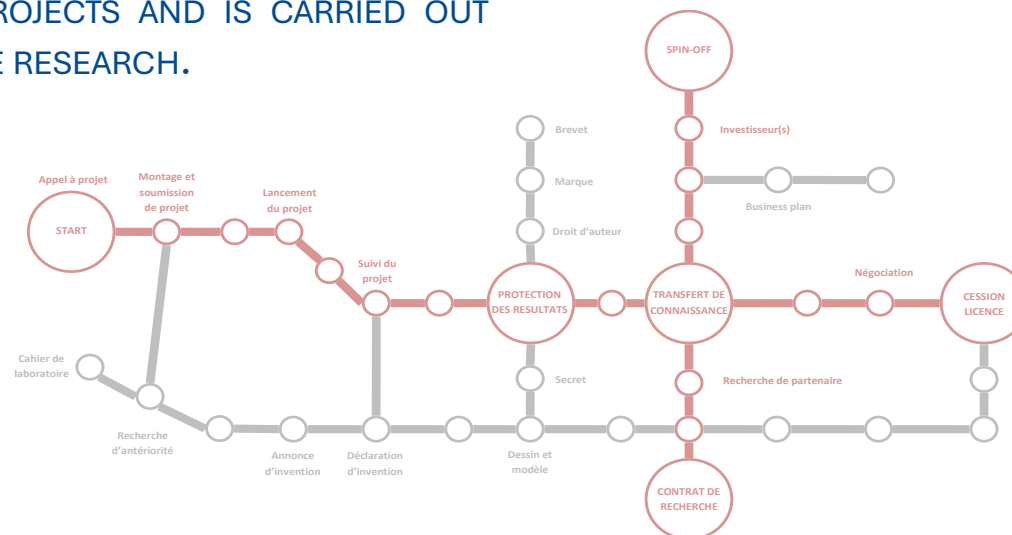
2. Valorize my results

What is valorization ?

"The exploitation of research results is the process implemented to ensure that university research has a real economic impact and leads, directly or indirectly, to new or improved products or processes exploited by existing companies or created for this purpose."

(Bureau du Plan, 2002)

>> THE VALORISATION PROCESS BEGINS WITH THE CALL FOR PROJECTS AND IS CARRIED OUT THROUGHOUT THE RESEARCH.



2. Valorize my results

What is valorization ?

4 GOOD
REASONS TO
VALORIZE
YOUR RESULTS

- ✓ Be recognized, by your peers but also by society
- ✓ Enable your results to have a social utility and contribute to socio-economic development
- ✓ Generate additional financial resources
- ✓ Because more and more funders are demanding it

>> « THIRD MISSION »

2. Valorize my results

How to do it ?

PARTNERSHIPS

- ✓ Collaborative research
- ✓ Services
- ✓ Expertise and consultancy missions

TRANSFER OF: TECHNOLOGY, SKILLS, KNOW-HOW, SOCIAL INNOVATION

- ✓ Licences
- ✓ Creation of spin-offs
- ✓ Creation of technology platforms
- ✓ Training (students, post-docs, private sector, etc.)

2. Valorize my results

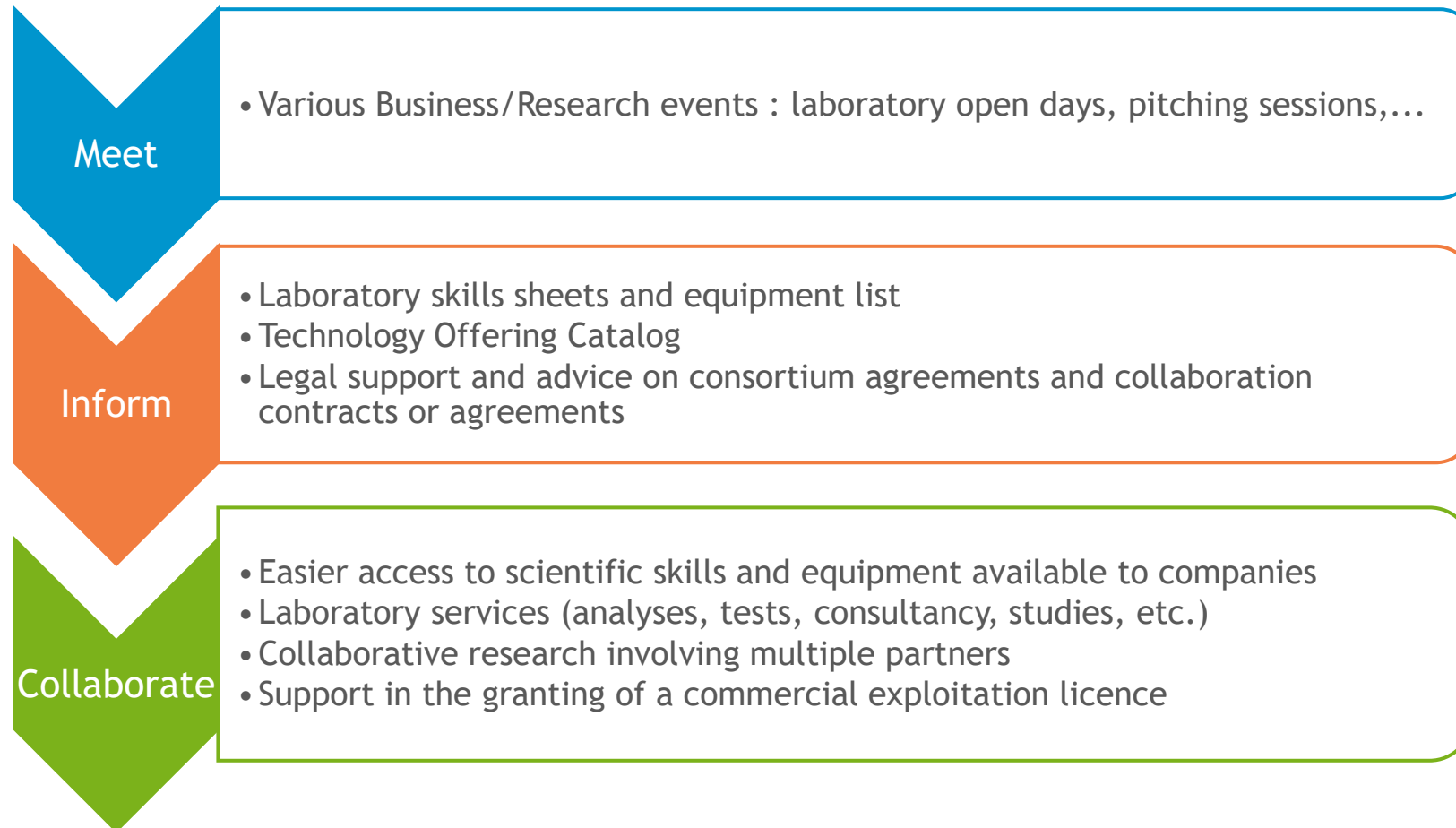
How to do it ?

...with the help of the KTO !



2. Valorize my results

The added value of the TTO: visibility with private sector



2. Valorize my results

The added value of the KTO: Tools available to researchers



- ✓ Useful contacts
- ✓ Infofin
- ✓ Calculator for salary costs / grant amounts
- ✓ Regulations (intellectual property, public procurement, etc.)
- ✓ Third-party service application

2. Valorize my results

Academic Research and IP Management in Universities:

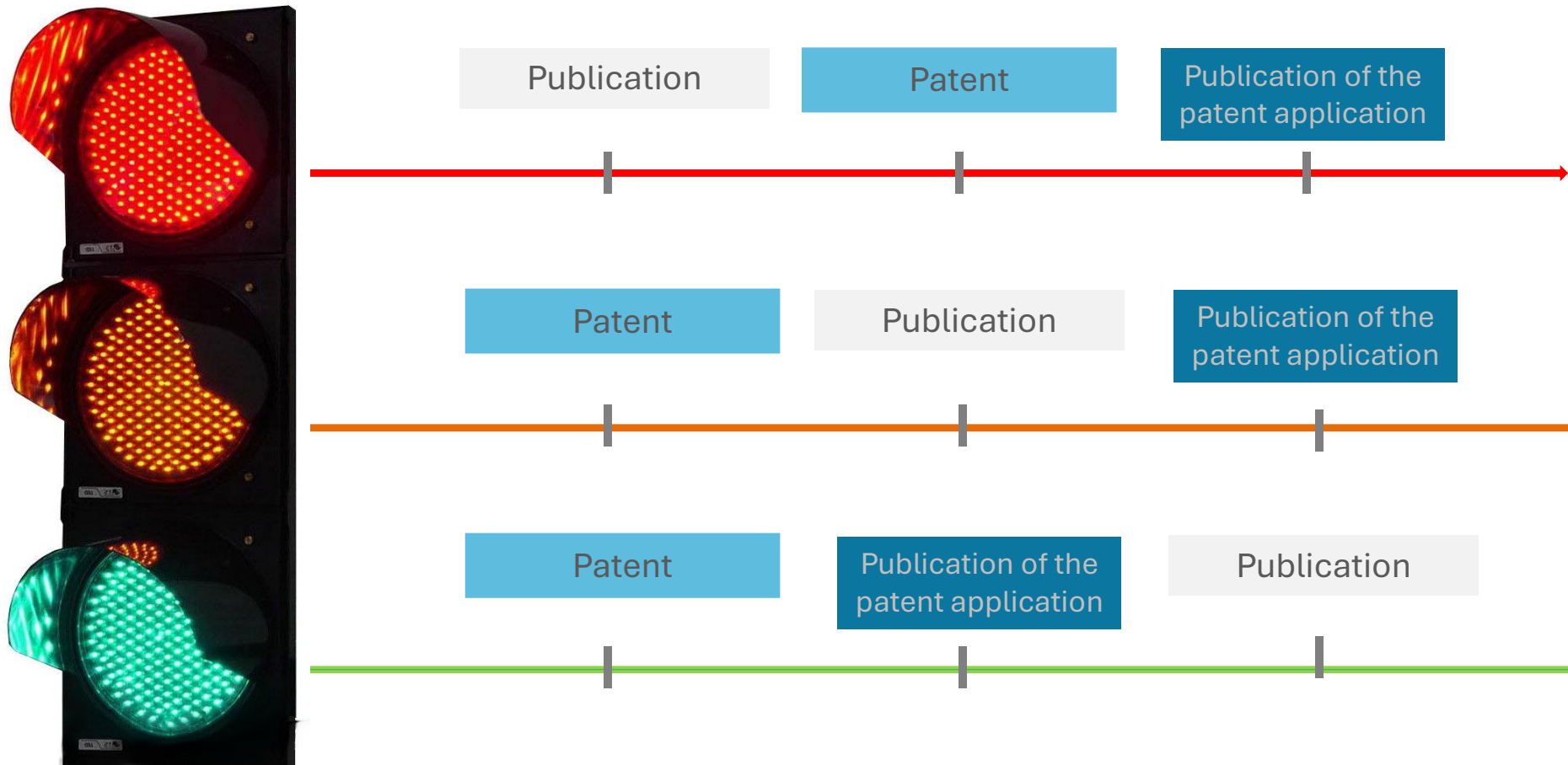
... A story full of misunderstandings, prejudices and misconceptions!

A green, rectangular stamp with rounded corners and a distressed, ink-like texture. The word "TRUE" is written in bold, white, uppercase letters in the center.A red, rectangular stamp with rounded corners and a distressed, ink-like texture. The word "FALSE" is written in bold, white, uppercase letters in the center.

2. Valorize my results

Publish against protect : a false debate !

It is a mere question of timing !



2. Valorize my results

Quality of science vs. Protection :

... another false debate!



FALSE



YVES CHAUVIN

Nobel Prize in Chemistry in 2005

*Discovery of the mechanism of the metathesis reaction
(with Bob Grubbs and Dick Schrock)*



117

PATENTS

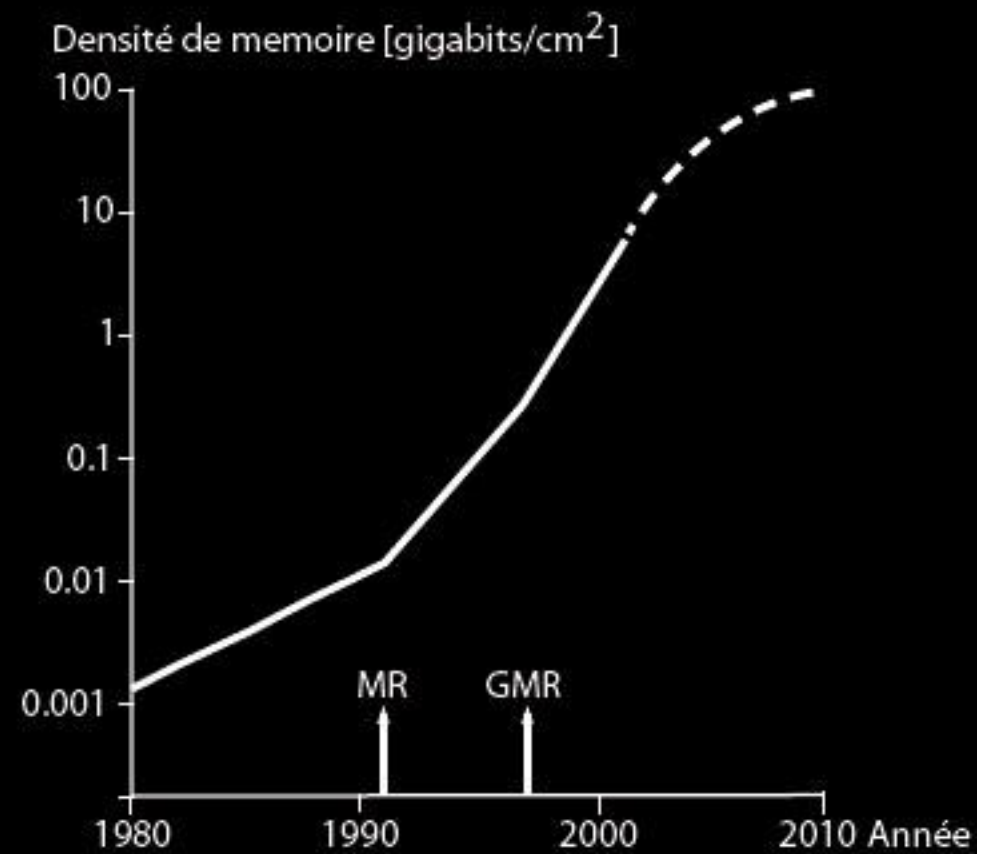


KARY MULLIS

Nobel Prize in Chemistry in 2003
for the discovery and development of the
Polymerase Chain Reaction (PCR)



*Technology sold to Hoffmann-
La Roche in 1991:
300.000.000 USD (225 M€)*



ALBERT FERT & PETER GRÜNBERG

Nobel Prize in Physics in 2007 for the *Giant Magnetoresistance*



High-capacity hard drives



Photo by R. Gölcke

**ISAMU AKASAKI, HIROSHI AMANO & SHUJI
NAKAMURA**

Nobel Prize in Physics in 2014 *for the invention of blue
light-emitting diodes (LED)*



LED market
estimated at
\$112 billion in
2024

Thank you for your attention!

