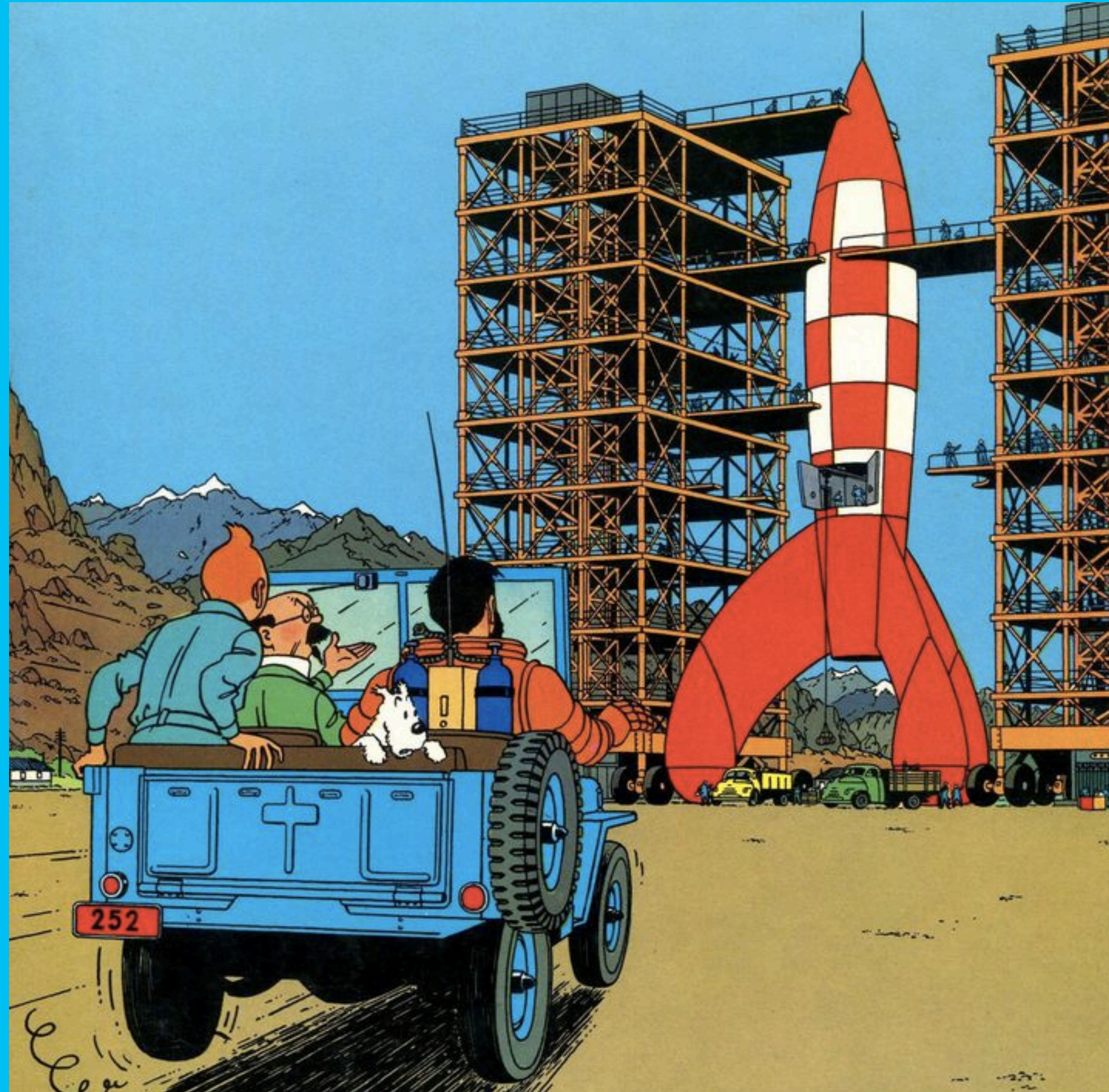


(LONG STORY SHORT)

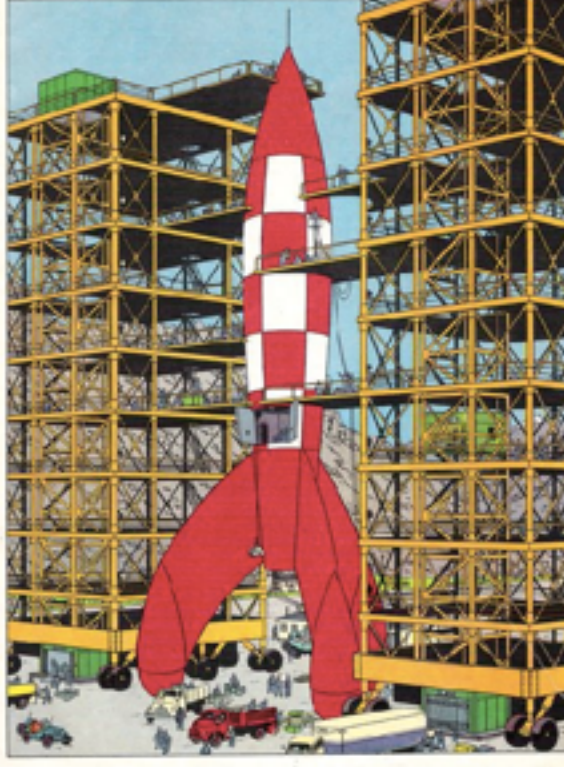
# A JOURNEY THROUGH VALORIZATION AND INDUSTRIAL TRANSFER

Jonathan Lao

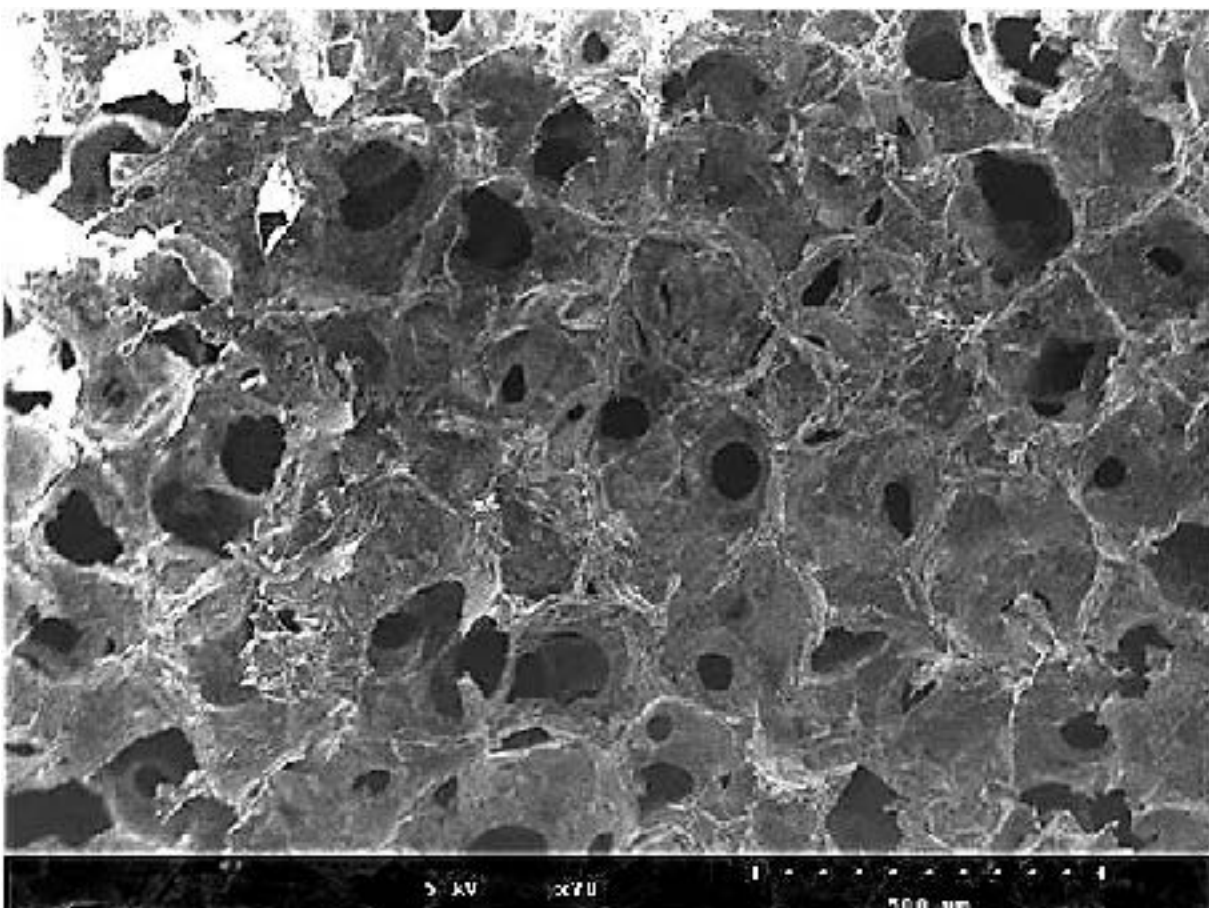




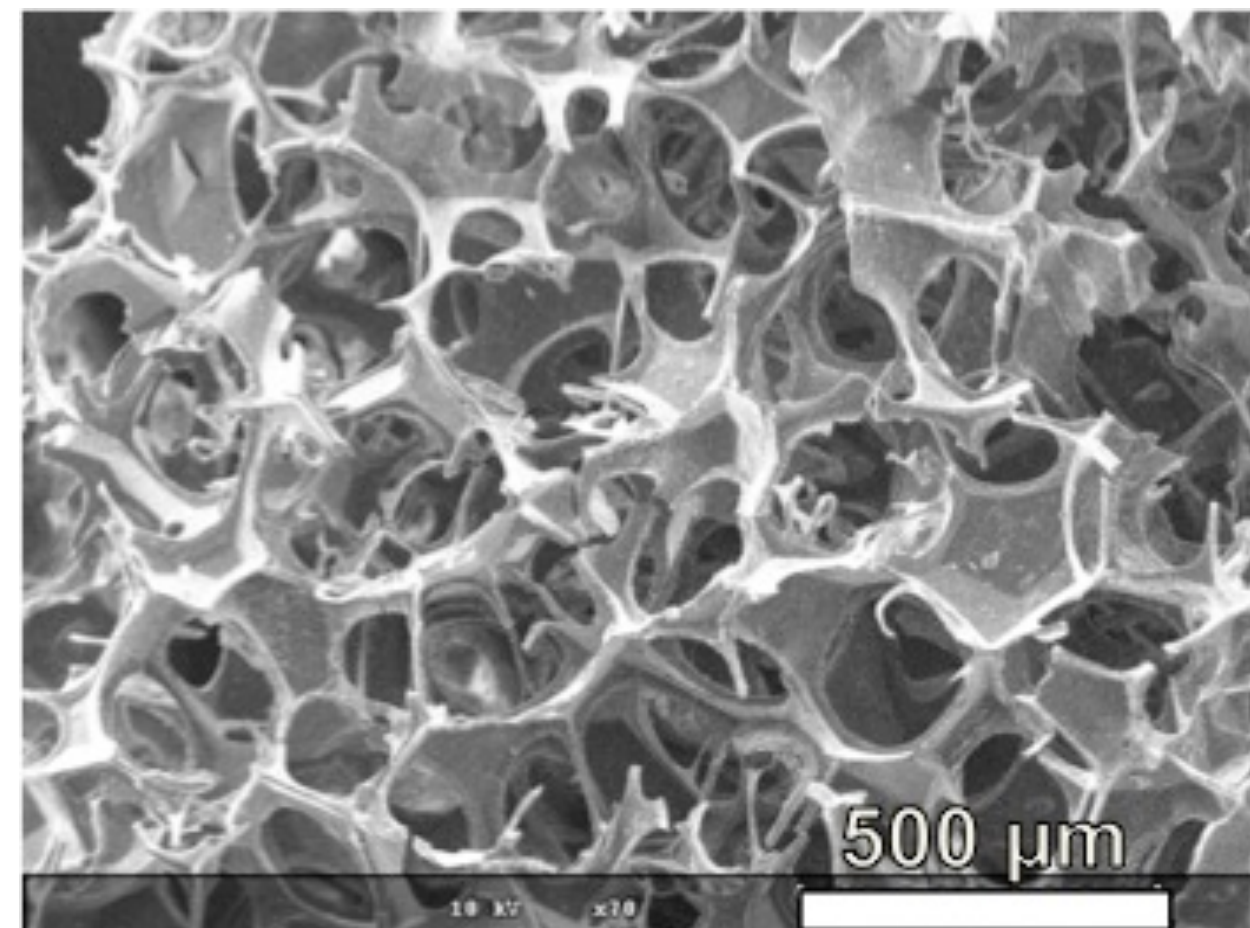
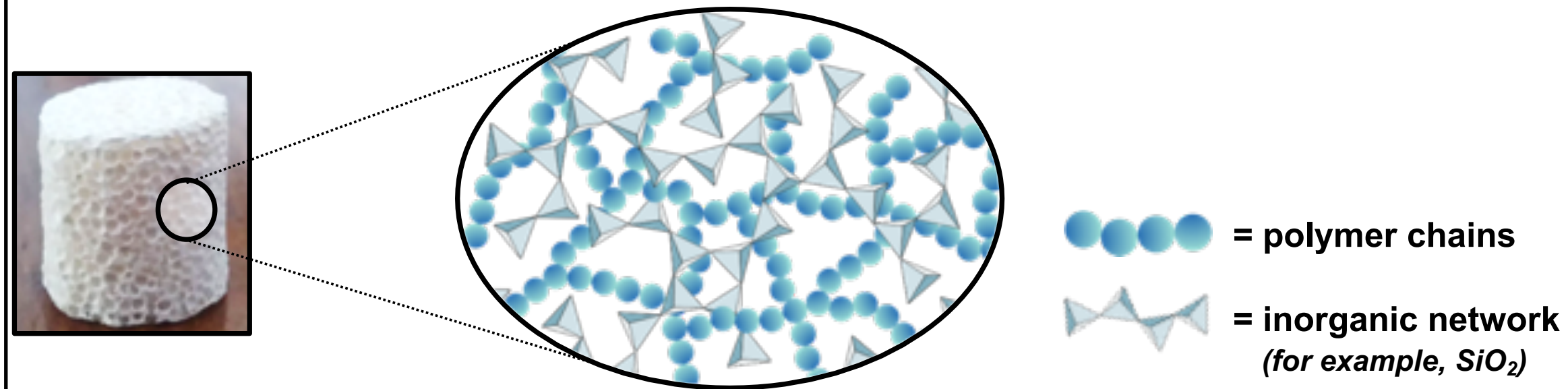
# THE INVENTIONS: NEW BIOMATERIALS FOR REPAIRING BONE



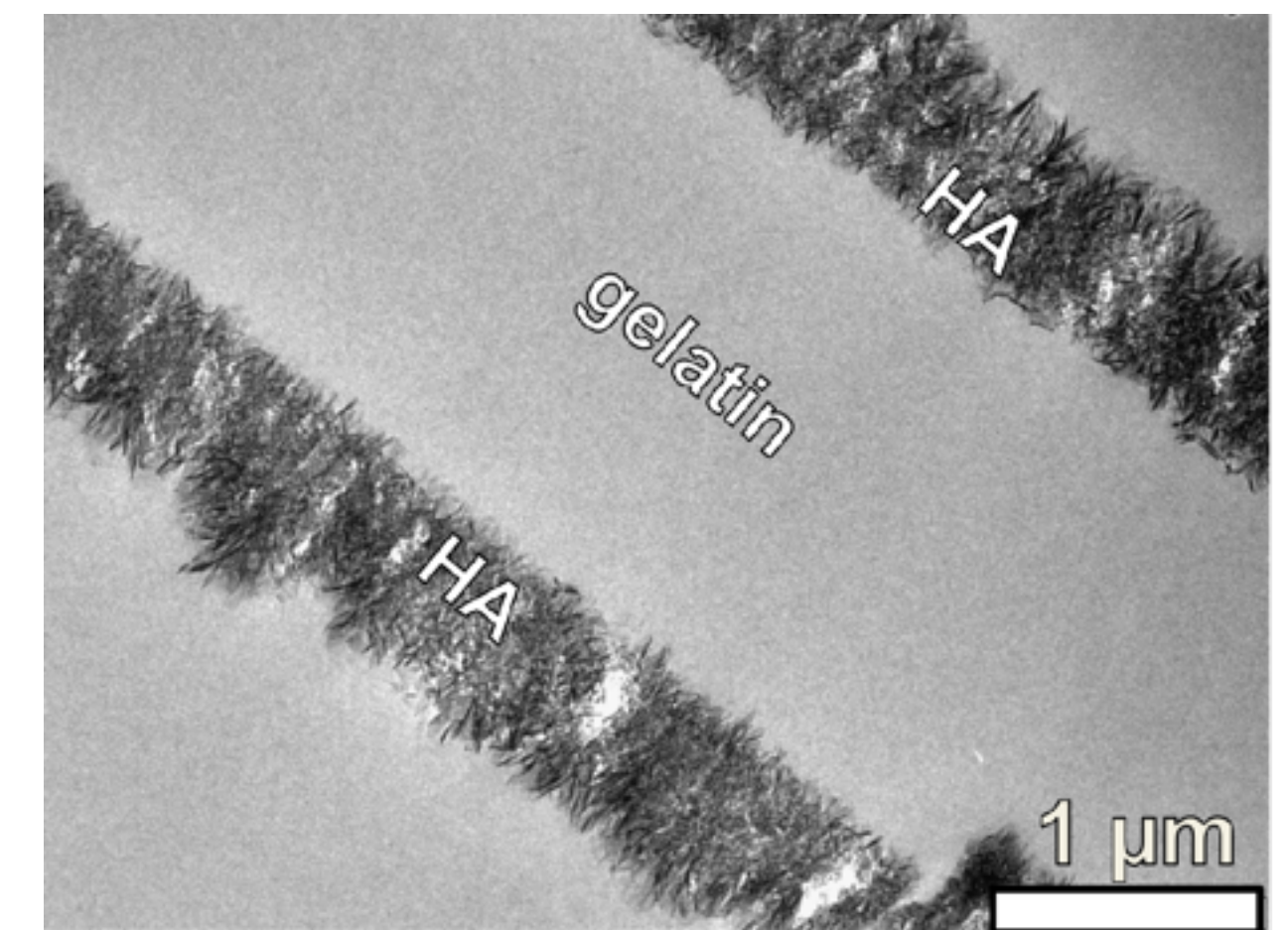
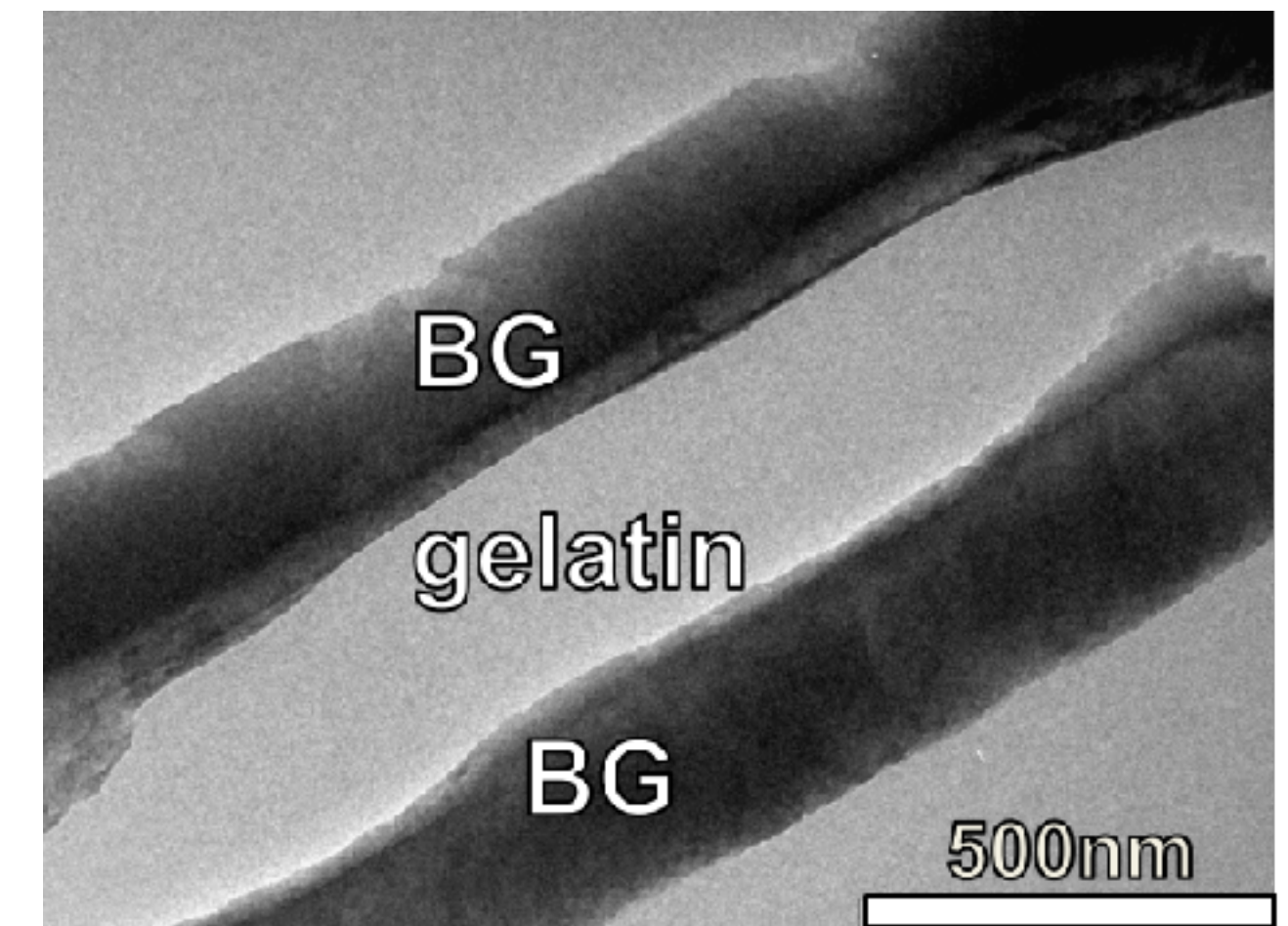
## 1 - Composites



## 2- Organic / Inorganic Hybrids



## 3 - Hybrid Coatings

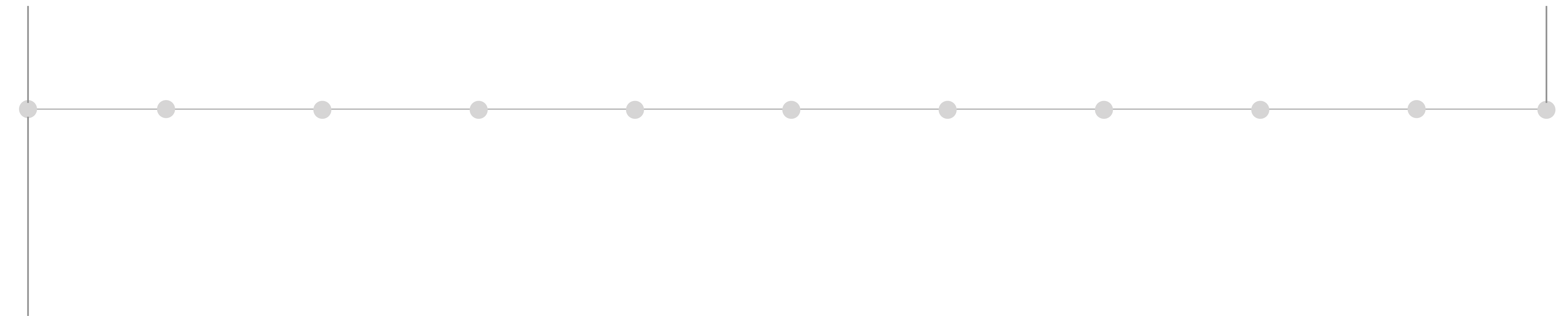






2012

2022



July:  
declaration of  
invention  
submitted to  
the University  
Blaise Pascal



2012

2013

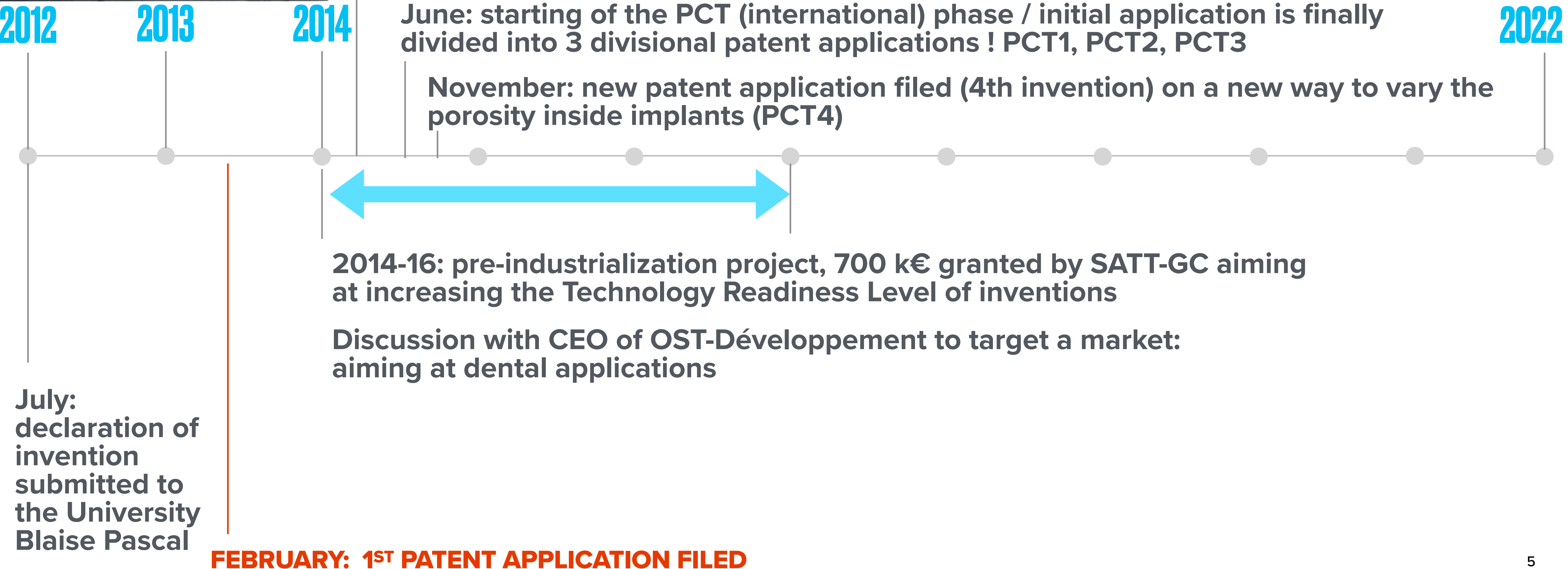
2022

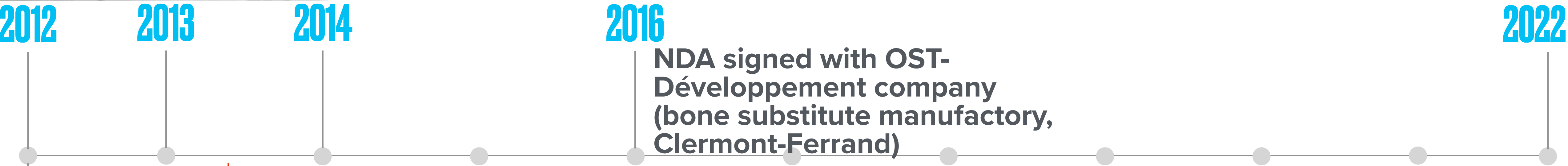
new valorization structure (SATT-GC) is created and in charge of the IP of the university

**FEBRUARY: PATENT APPLICATION FILED (FRENCH PATENT OFFICE)... 1 FOR ALL 3 INVENTIONS!**

July:  
declaration of  
invention  
submitted to  
the University  
Blaise Pascal

January: presentation in front of the University steering committee

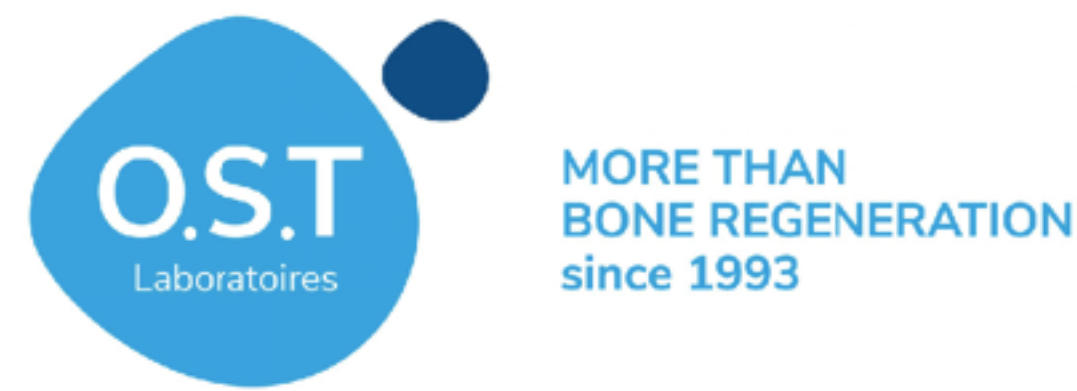


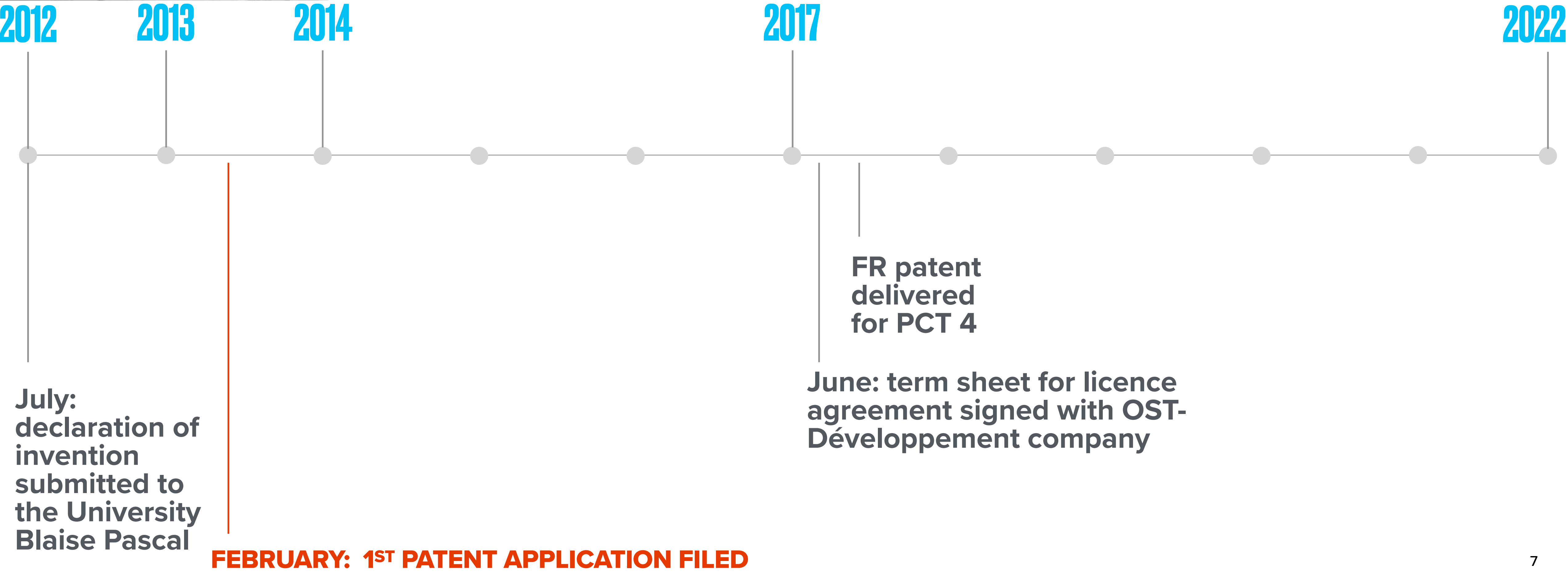


July:  
declaration of  
invention  
submitted to  
the University  
Blaise Pascal

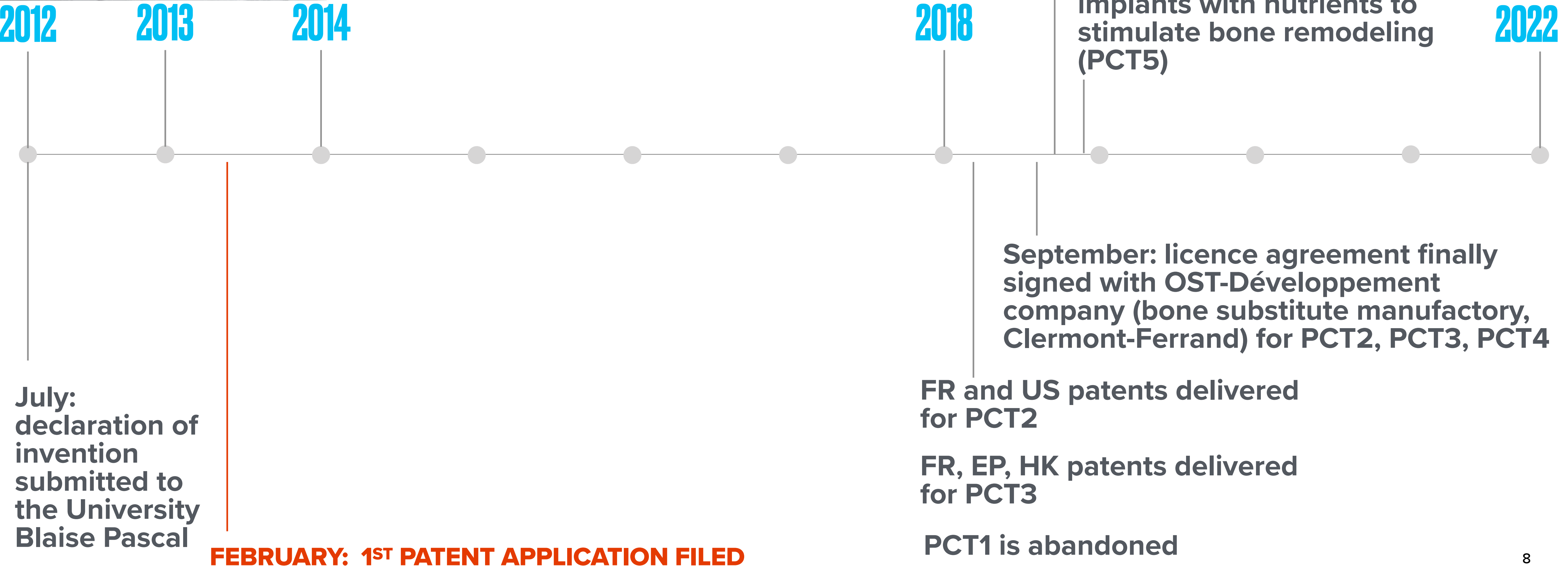
**FEBRUARY: 1<sup>ST</sup> PATENT APPLICATION FILED**

**2016**  
NDA signed with OST-  
Développement company  
(bone substitute manufactory,  
Clermont-Ferrand)

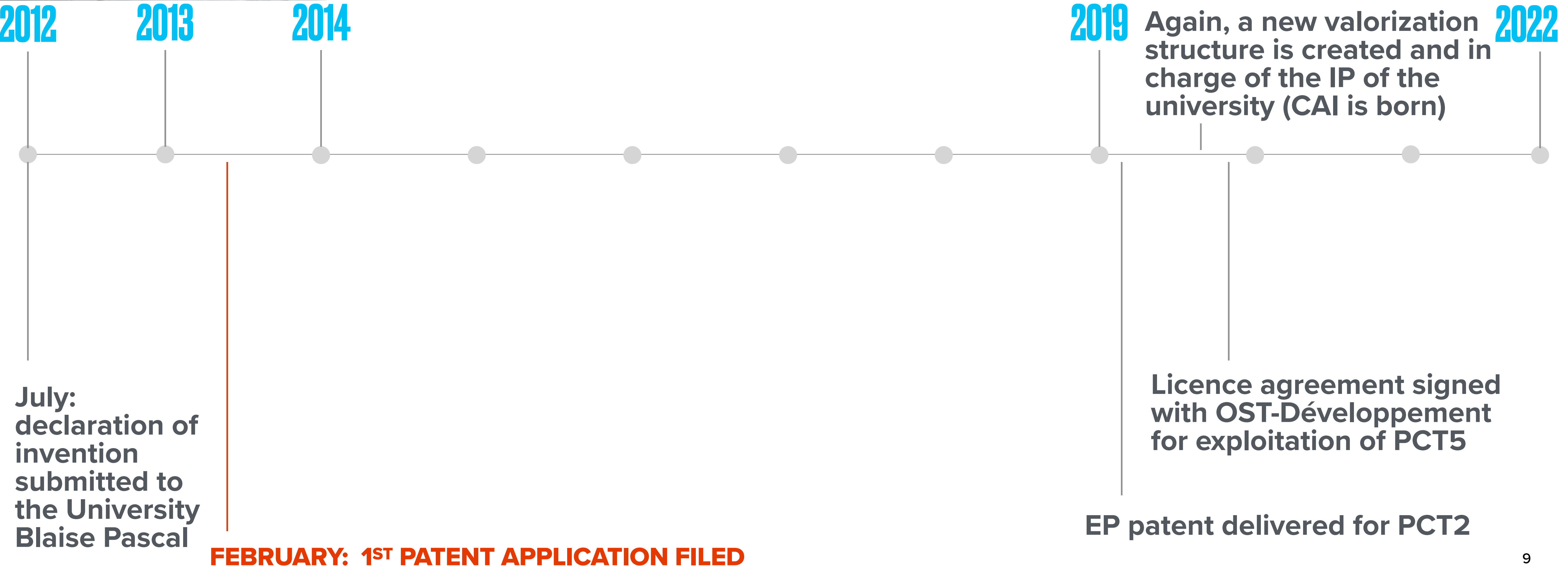




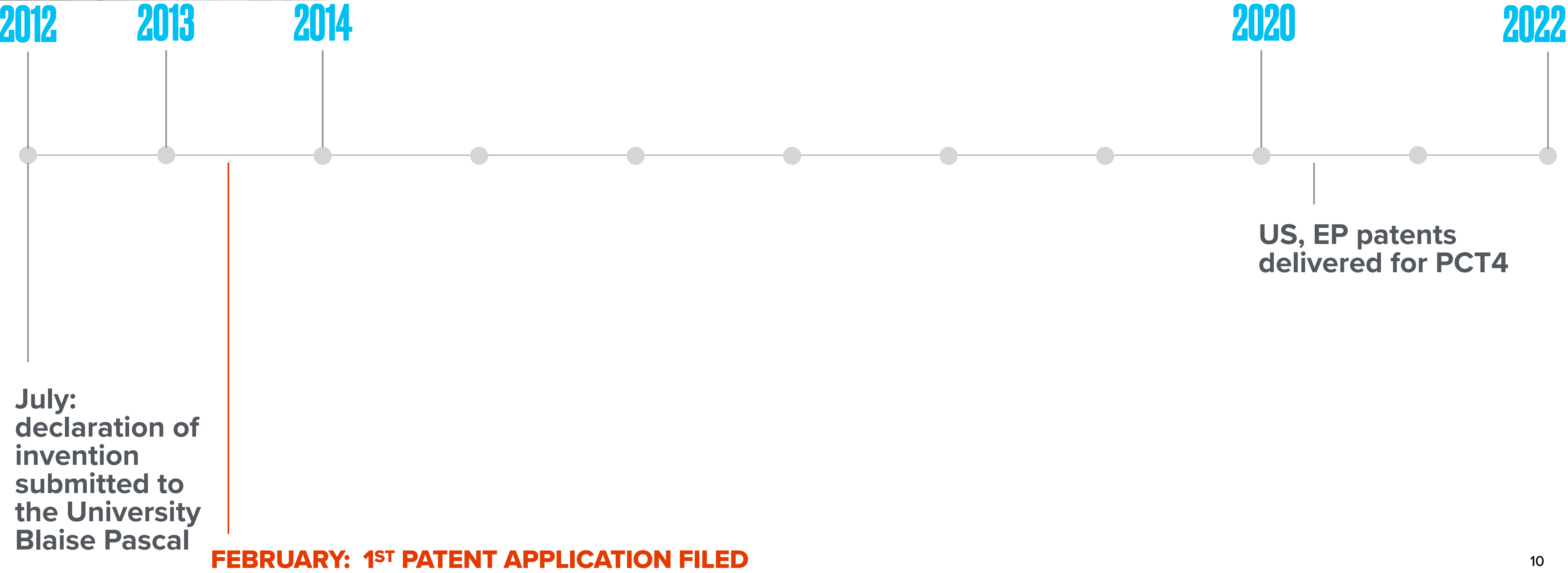




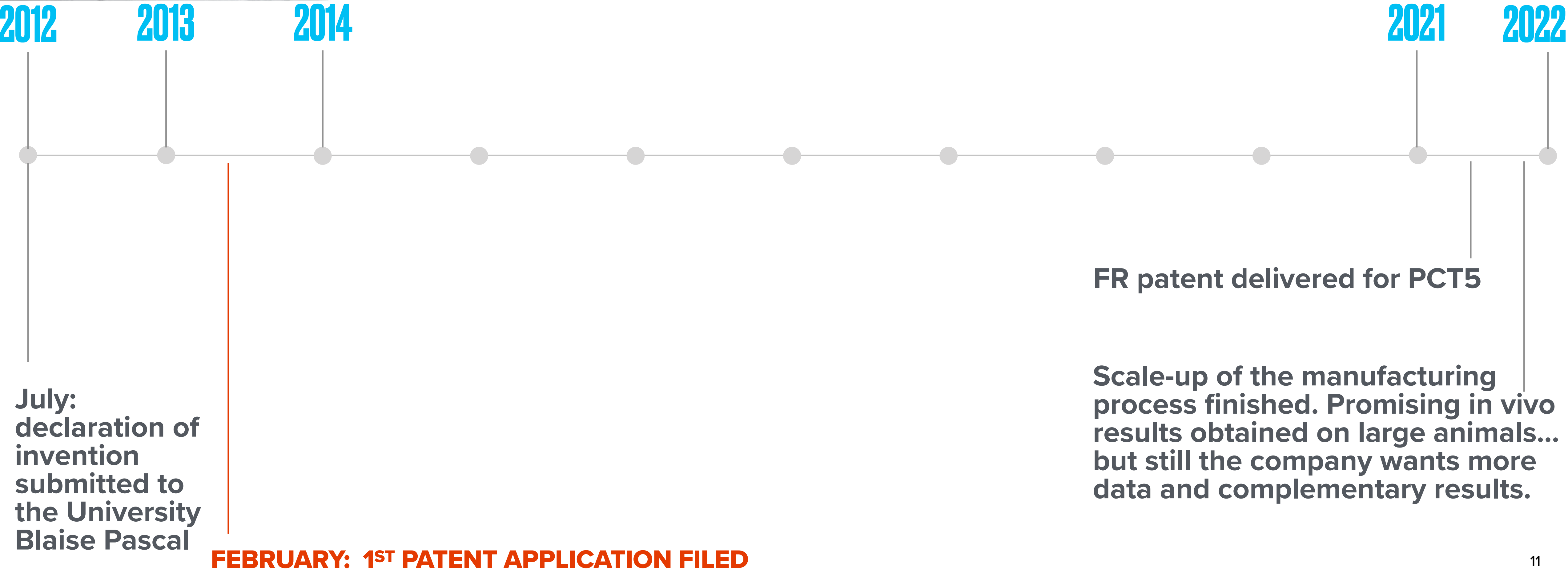








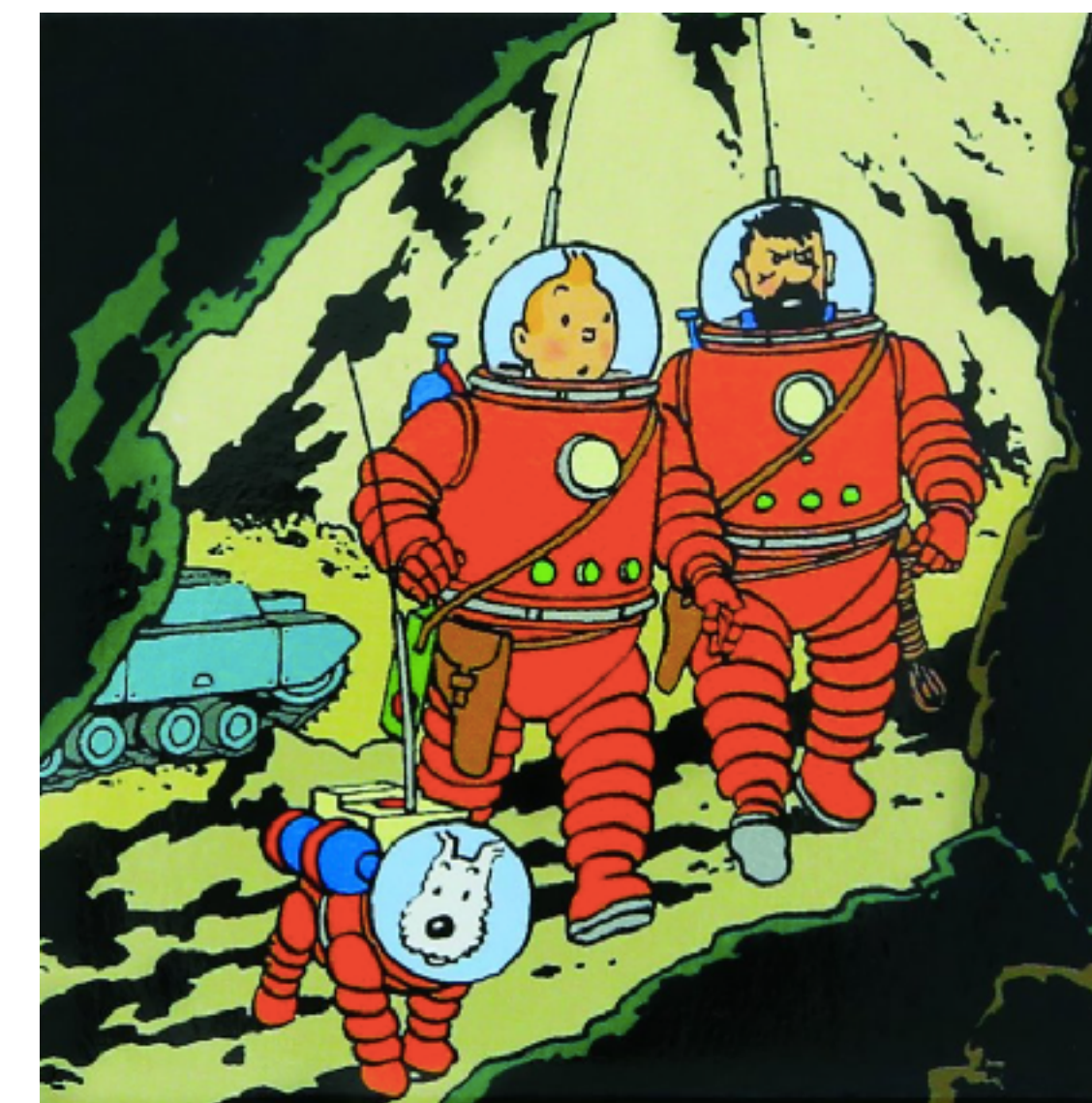






# WHERE WE ARE NOW

- Patents still pending (not delivered) in some regions !  
CA and HK patents pending for PCT2  
CA, AU, JP patents pending for PCT4  
CA, EP, US, CH, JP, BR pending for PCT5
- 2022: second round of animal testing, aiming at evaluating the inflammatory response.
- 2023 ?  
Industrial transfer finished.  
Pilot production line built at the factory.  
All cellular and animal tests will have to be done again on products manufactured on the pilot line.
- 2024 ?  
All tests successful and CE market approval
- 2025?  
Inventions finally reach the market ?



MORE THAN  
BONE REGENERATION  
since 1993



# LESSONS FROM THE PAST



- A chain is only as strong as its weakest link: don't put everything in a single patent
- Collect the maximum data about your invention:
  - the more knowledge about your invention, the easier to answer patent offices notifications
  - Private company always doubts and needs to be convinced with facts & data
- Relying on a valorization structure and IP consulting is NOT an option



# THANKS FOR YOUR ATTENTION

