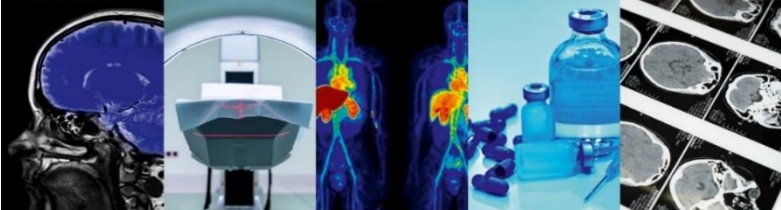


# PASREL-IMAGERIE

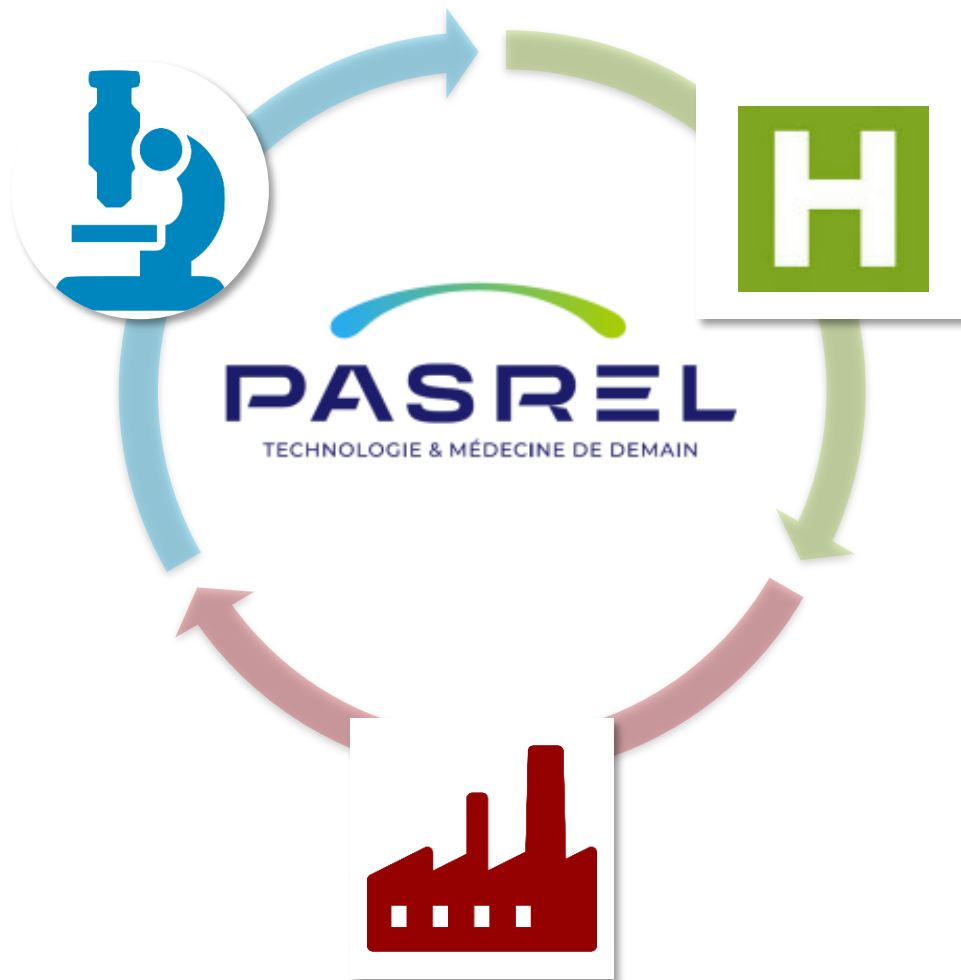
## TRANSLATIONAL *IN VIVO* IMAGING TO BRING MEDICAL INNOVATIONS TO THE PATIENT

Peggy BAUDOUIN-CORNU, Ali AIT-IKHLEF, François ARTIGUENAVE, Agnès PINET, Régine TREBOSEN,  
Nathalie BROUSSE-DUCROQ and Vincent LEBON



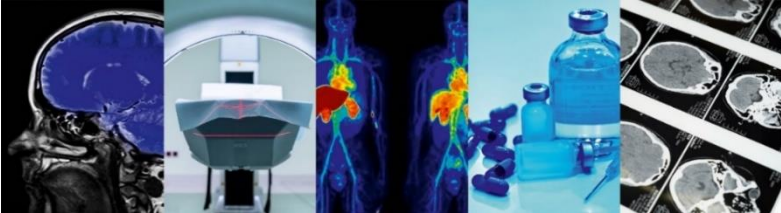


# PASREL-IMAGERIE IS A SUB-PROJECT OF THE PASREL PROJECT

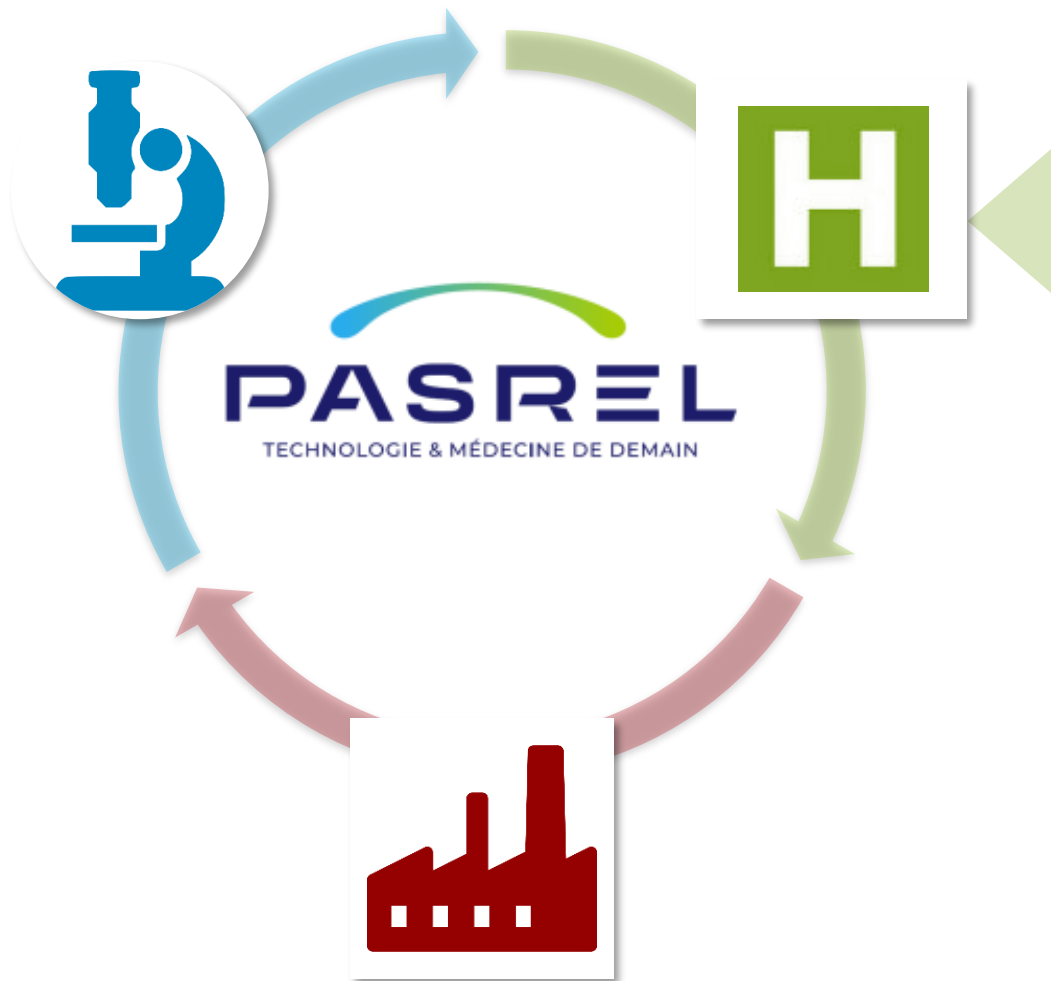


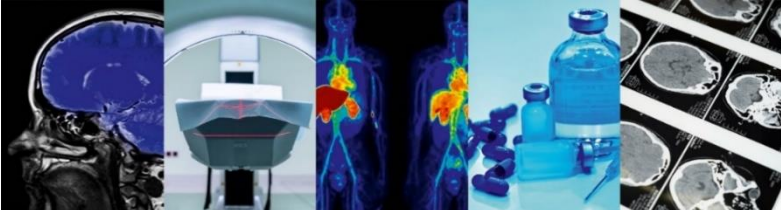
Technological innovations that are:

- Useful
- Practical
- Accessible



# PASREL-IMAGERIE IS A SUB-PROJECT OF THE PASREL PROJECT





# PASREL-IMAGERIE IS A SUB-PROJECT OF THE PASREL PROJECT

## Hub PASREL

University of Paris-saclay interdisciplinary program



Life Sciences and Health

Health and Drug Sciences

Engineering and Systems Sciences

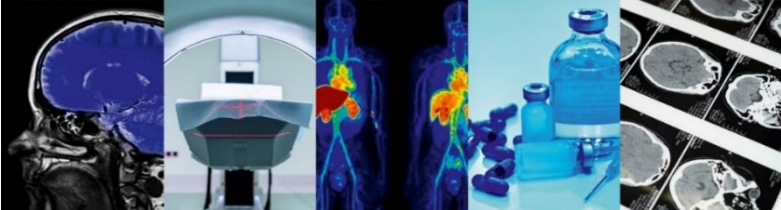
Computer Science

Economics & Management

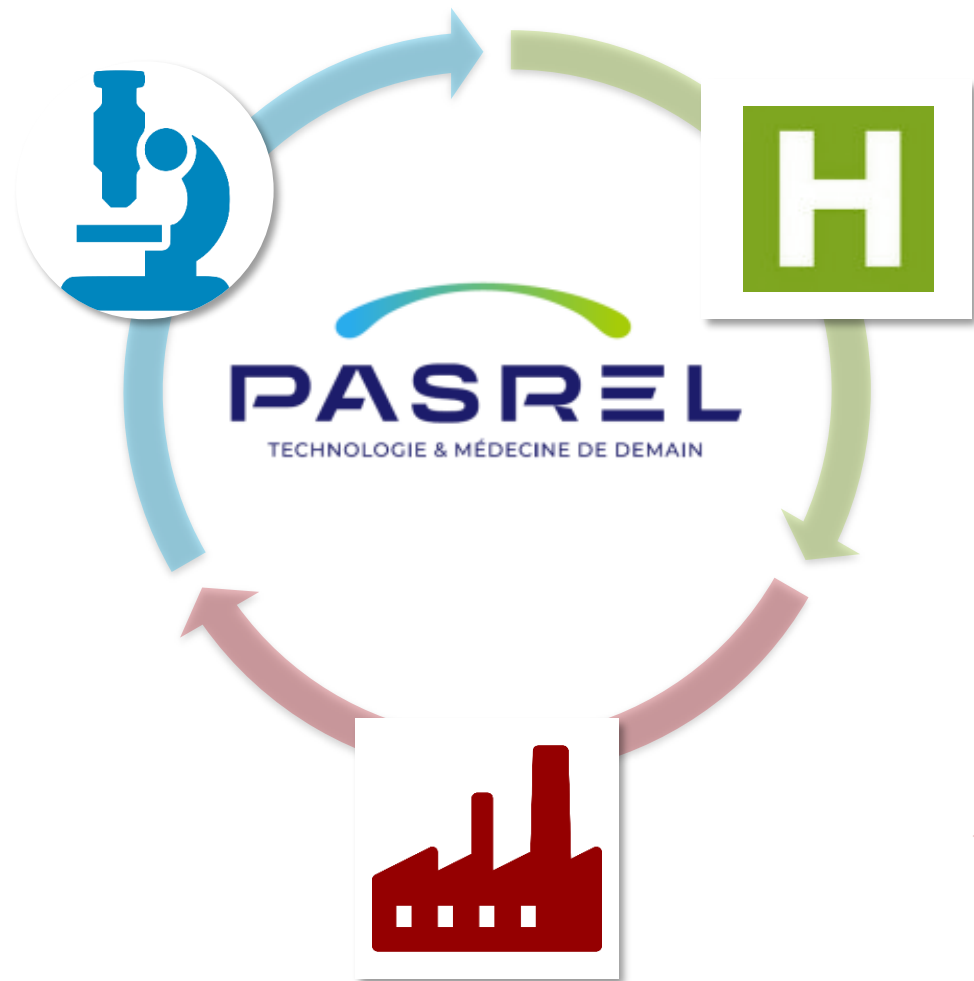
Sociology and Political Science







# PASREL-IMAGERIE IS A SUB-PROJECT OF THE PASREL PROJECT



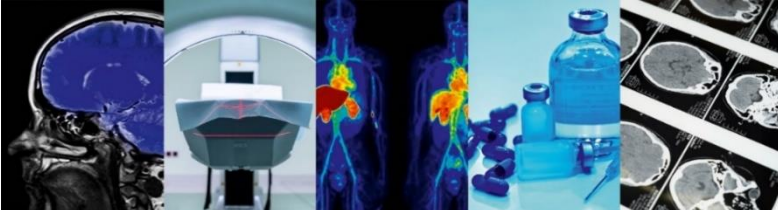
 Région  
île de France

 bpi france

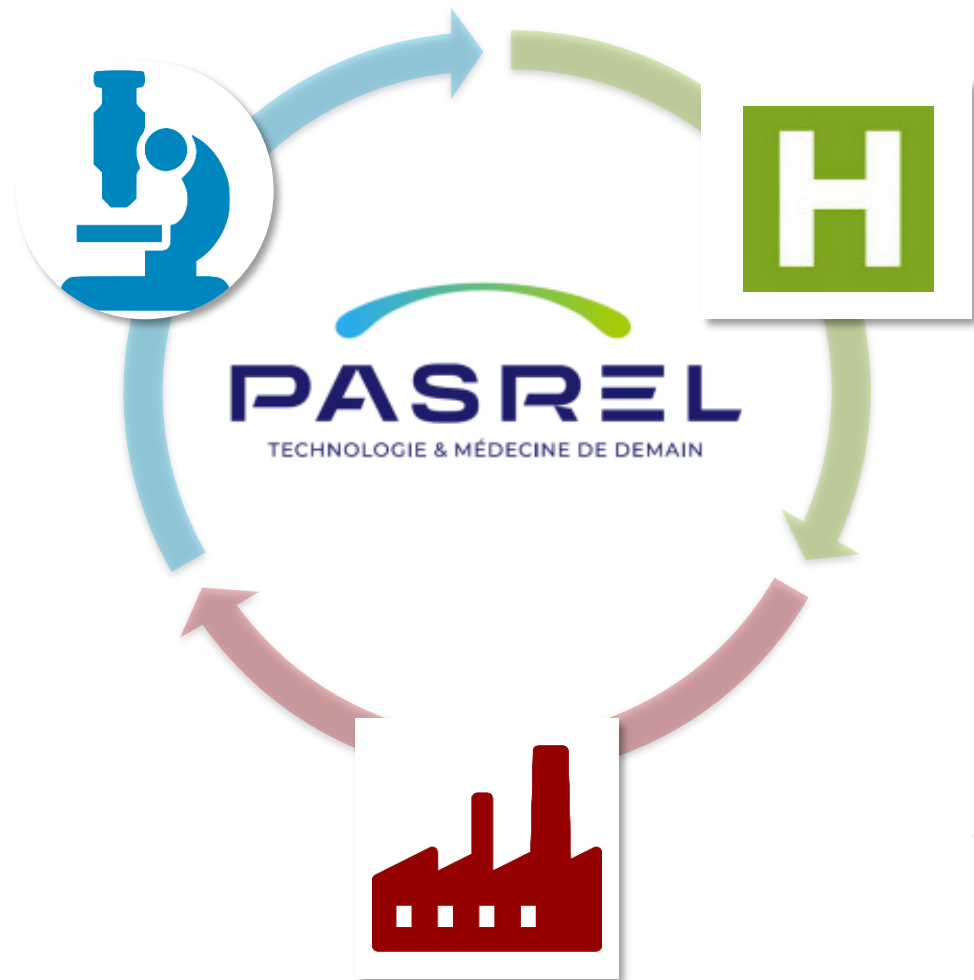
**Sesame Filière PIA3**

(8/10/2020)

Support for the **structuring of strategic industries** in the Ile-de-France region and the development of **technological platforms open to SMEs/SMIs**



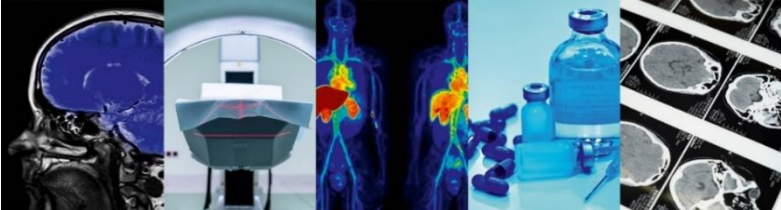
# PASREL-IMAGERIE IS A SUB-PROJECT OF THE PASREL PROJECT



## Sesame Filière PIA3

This call for projects aims to **bring together** research and higher education organizations and institutions with the actors of an economic sector **around a common project** that will contribute to

- structure **the actors of the research and the companies of a field around an object** which will ensure prospects of innovation and technological, scientific and economic development in the medium term for the actors;
- to support the **emergence of new partnerships** between the organizations and establishments of higher education and research and the companies or the actors of the innovation and the **transfer of technology** [...]

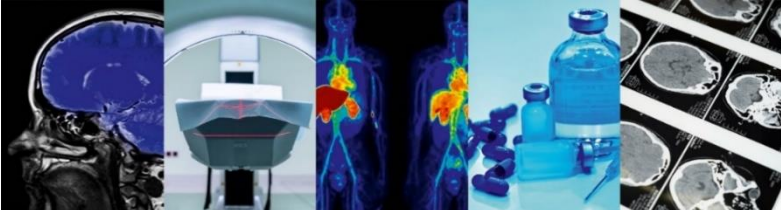


# MEDICAL IMAGING TO BOOST THE DEVELOPMENT OF DRUG CANDIDATES

For the pharmaceutical and biotech industry:

- Imaging tools can accelerate the development of drug candidates from the **preclinical** stages to **clinical validation**, in particular through the characterization of the effects of these candidates via **biomarkers**.
- Pharmaceutical labs do not generally have medical imaging equipment, due to their **prohibitive cost** and the **specific implementation and operating skills** they require.

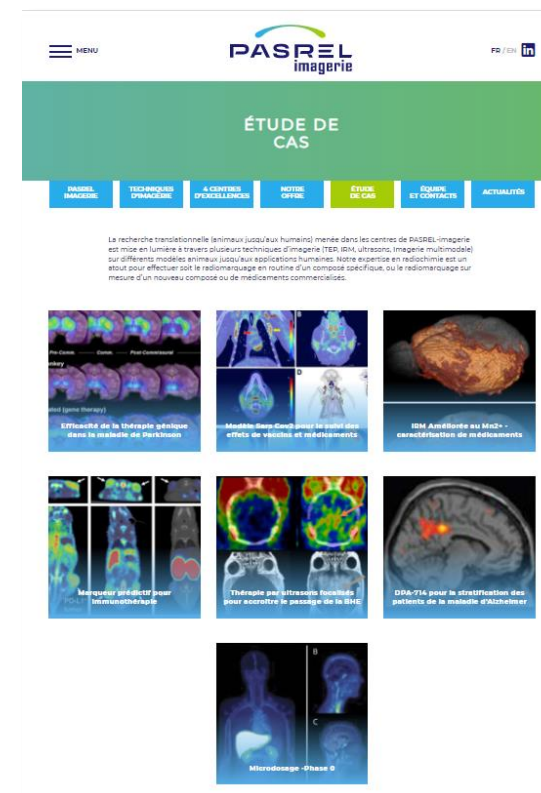




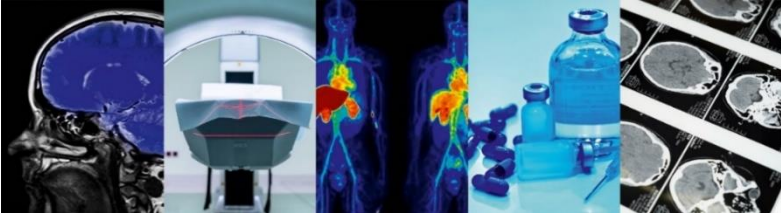
# MEDICAL IMAGING TO BOOST THE DEVELOPMENT OF DRUG CANDIDATES

For the pharmaceutical and biotech industry:

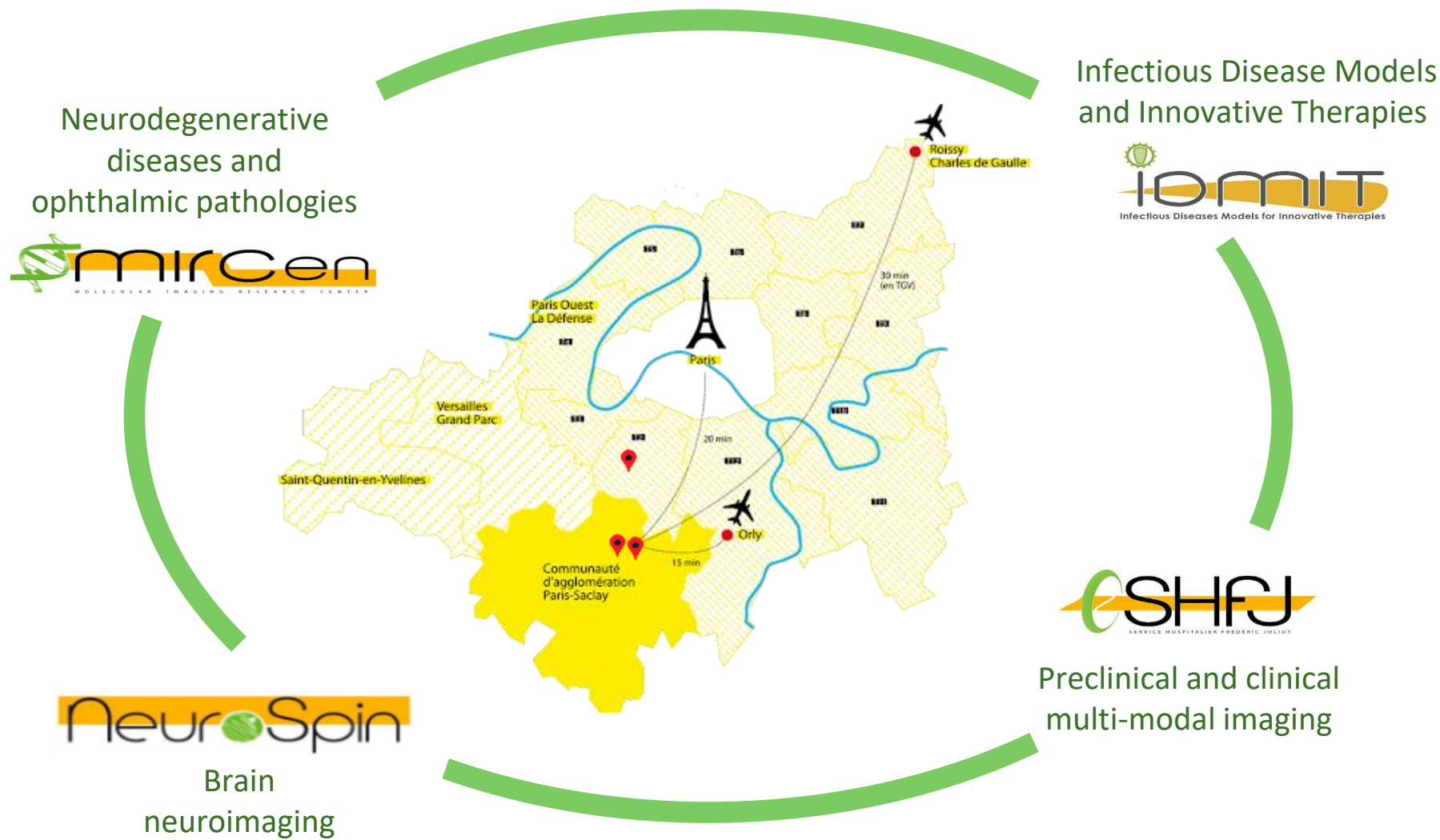
More information in [www.pasrel-imagerie.com](http://www.pasrel-imagerie.com)

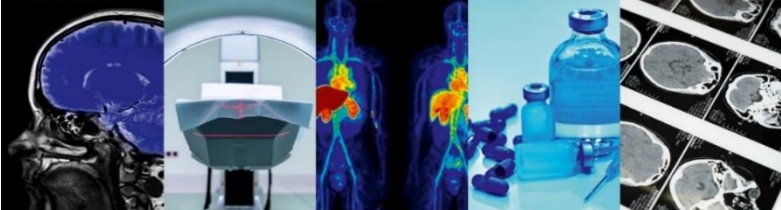






# THE ALLIANCE OF 4 WORLD-RENOWNED RESEARCH CENTERS





# EXPERTISE & PLATFORMS FOR TRANSLATIONAL RESEARCH



**Radiotracers**

Production:  $^{11}\text{C}$ ,  $^{18}\text{F}$ ,  $^{15}\text{O}$   
 Access to  $^{89}\text{Zr}$  and  $^{64}\text{Cu}$   
 Radio labelling



**PET**



**Multimodal Imaging**

PET-CT / PET-MRI / PET-TDM /  
 PET-US / SPECT-CT / MRI-US



**Radiopharmaceuticals**



**PET**



**Multimodal Imaging**

PET-TDM / PET-MRI /  
 SPECT-CT



**Two-photon  
 microscopy**



Multiple labeling

**MRI**



1,5T / 3T / 7T / 17T

**Ultrasound**



Imaging & Therapeutical

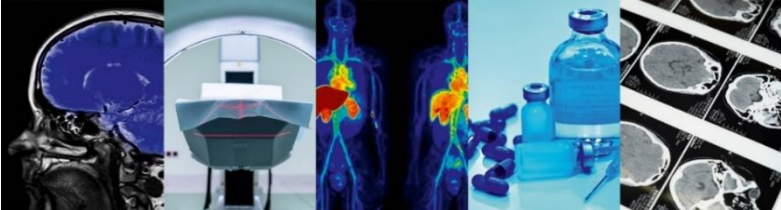
**MRI**



1,5T / 3T / 7T / 11,7T

**Ultrasound**





# ISOTOPIC IMAGING – FROM THE CYCLOTRON TO THE CLINICAL TRIAL

radio-chemistry



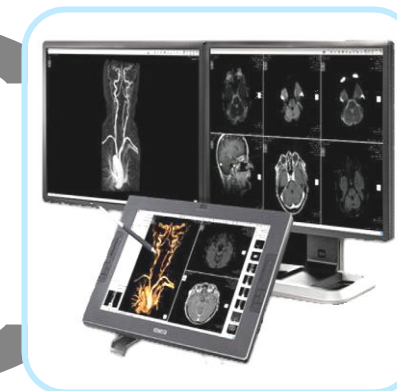
© F.Rhodes / CEA

preclinical imaging



© PF.Grosjean / CEA

image analysis



clinical imaging



© L.Godart / CEA

GMP lab



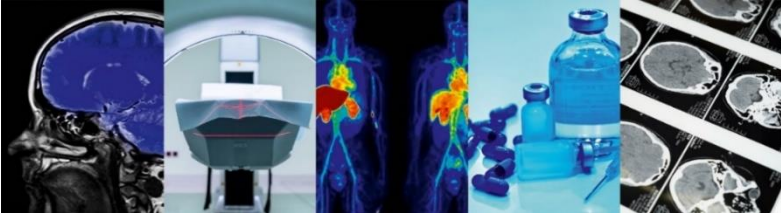
© F.Rhodes / CEA

cyclotrons

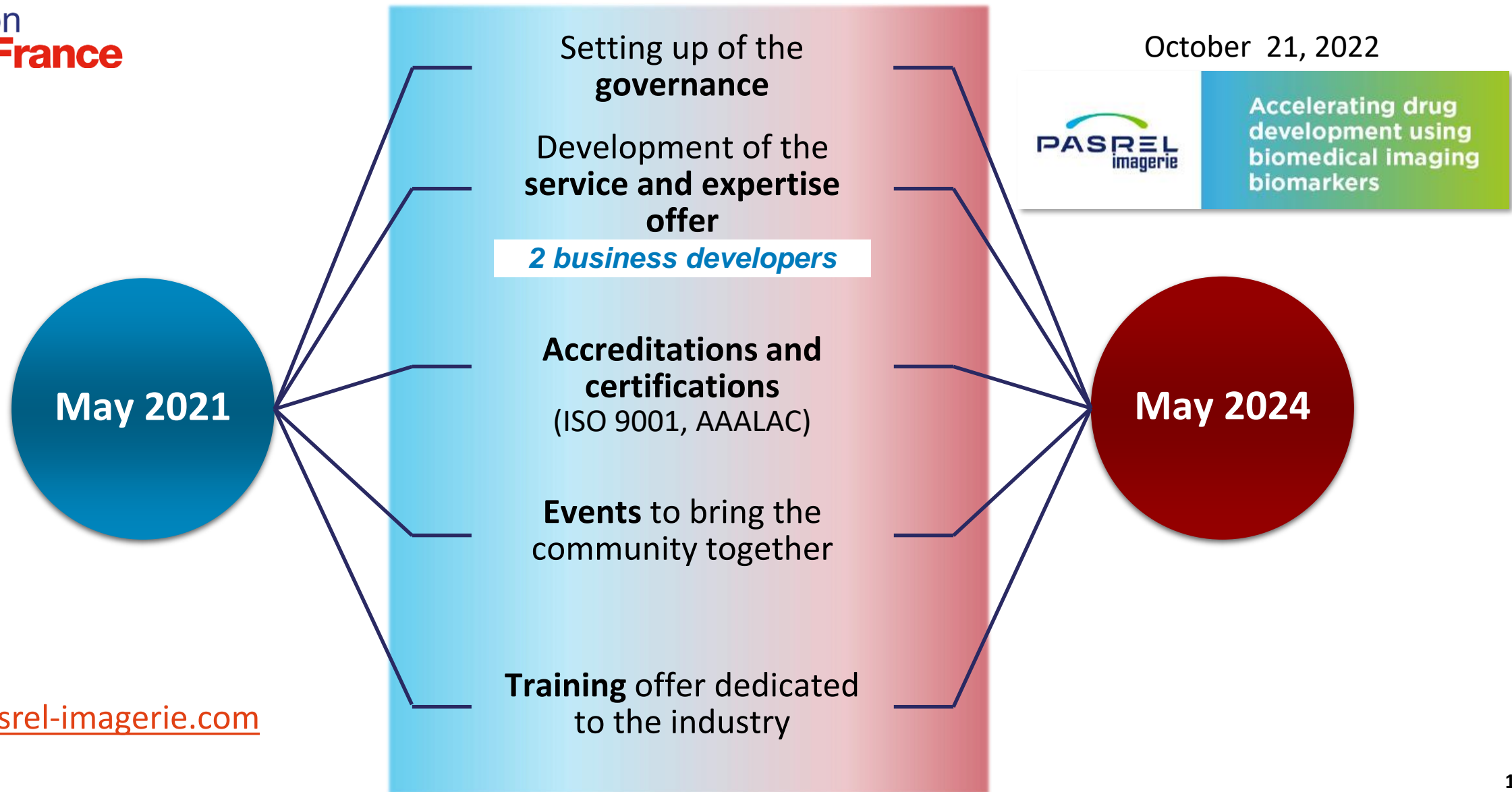


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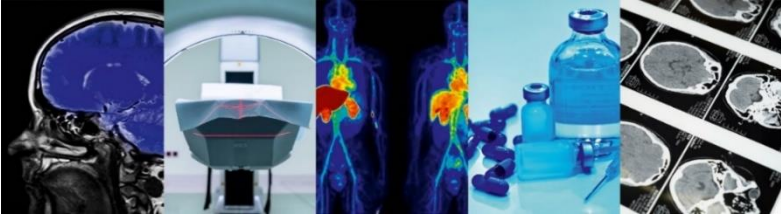


# 3 YEARS TO IMPLEMENT PASREL-IMAGERIE



[bd@pasrel-imagerie.com](mailto:bd@pasrel-imagerie.com)





# THANK YOU

[www.pasrel-imagerie.com](http://www.pasrel-imagerie.com) – [www.pasrel.fr](http://www.pasrel.fr)

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LinkedIn : [PASREL-Project](#)