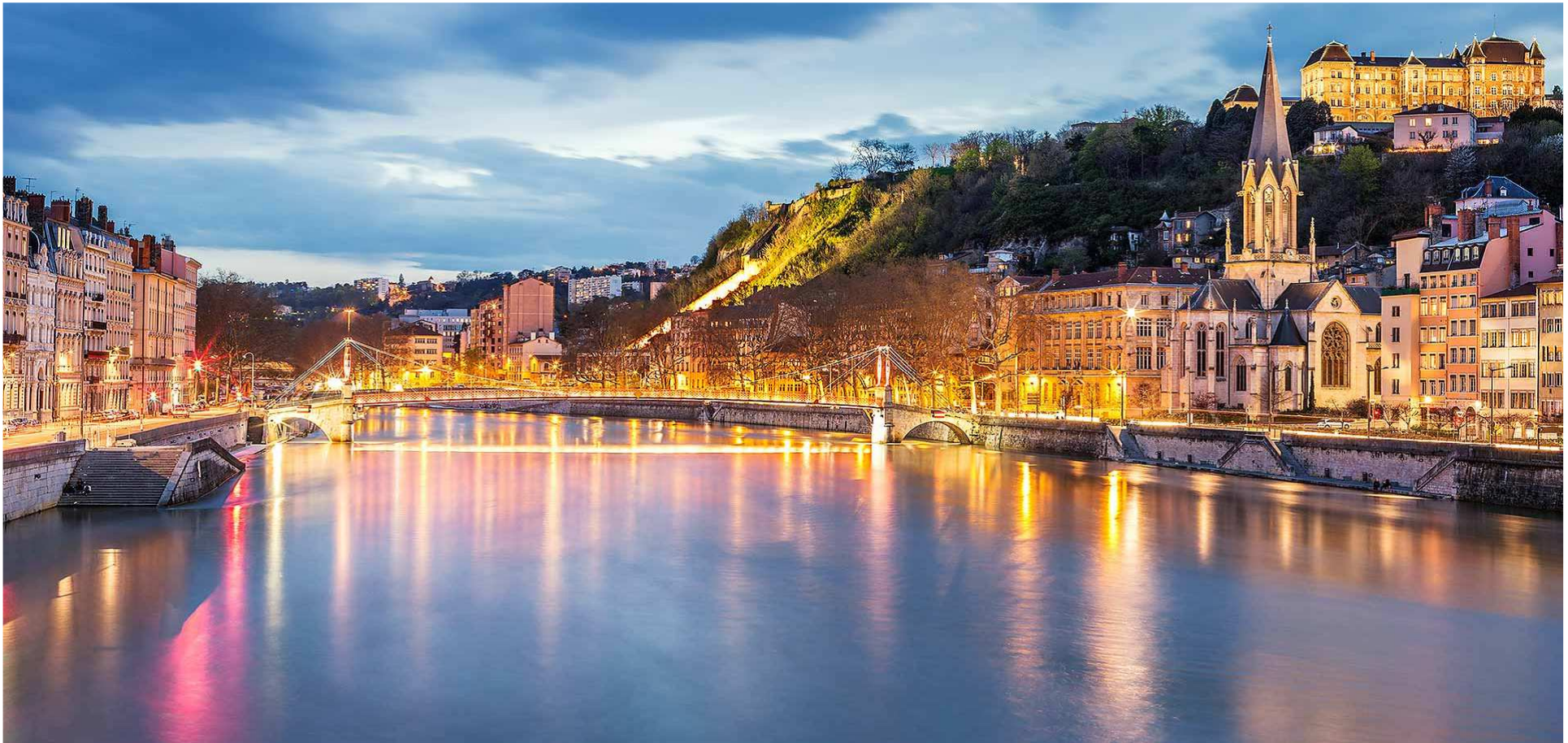
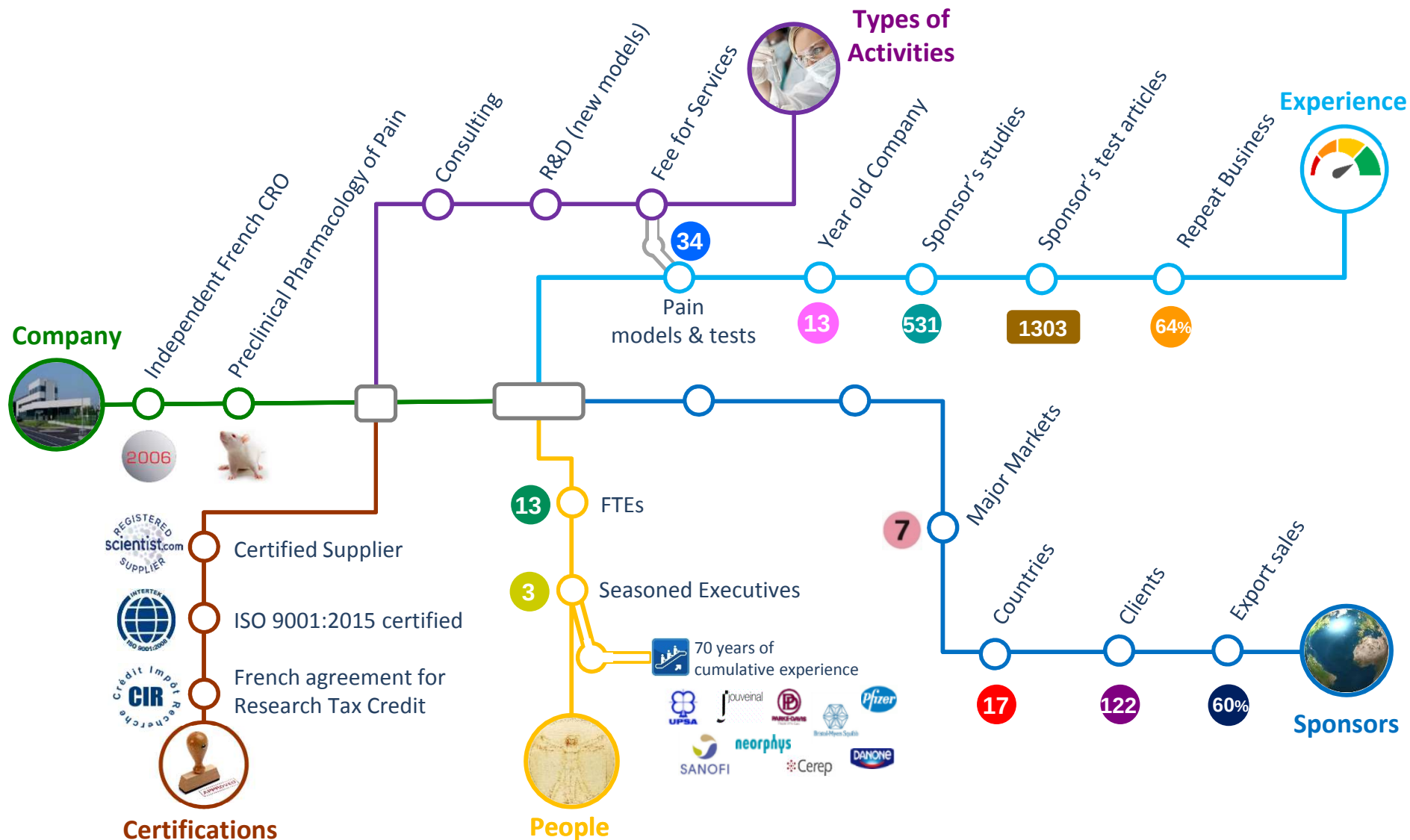




Our services are as unique as your discoveries









FEE FOR SERVICES

Acute & Tonic  
Pain

Inflammatory  
Pain

Postoperative  
Pain

Neuropathic  
Pain

Visceral  
Pain

Cancer  
Pain

Opioid-induced  
Hyperalgesia

General Behavior  
& Acute toxicity

Pruritus



Small molecules

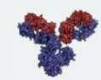
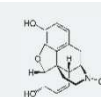
Biologics

Toxins

Probiotics

Prebiotics

Vegetal extracts

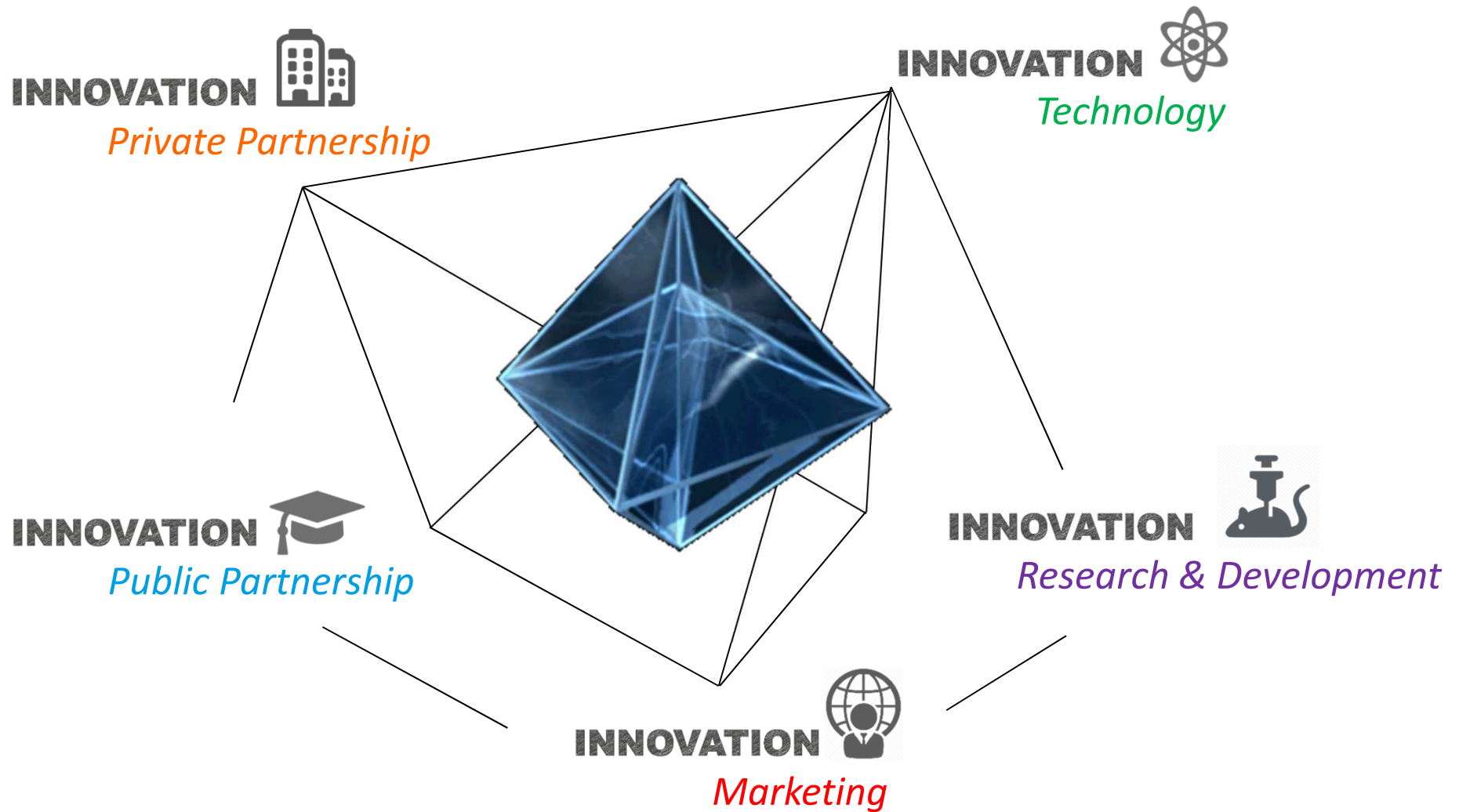


+ Proprietary Support Services :



- AnsbioSamples

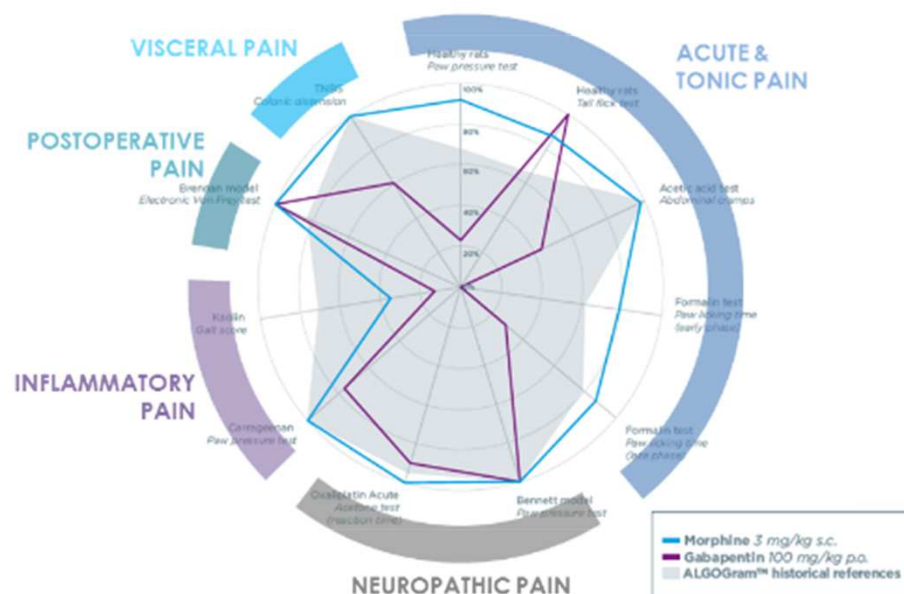






A behavioral pain model panel run as a parallel screen

**INNOVATION**   
*Technology*



### APPLICATIONS



### ADVANTAGES



11 assays

2 weeks of experiment

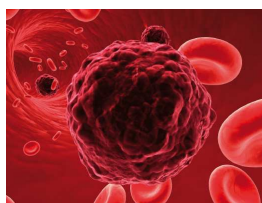
- ✓ Small group size (n=4)
- ✓ Single dose, single administration, single time point
- ✓ Modified Irwin grid included for safety assessment
- ✓ Reliance on historical database for vehicle and positive control



Human Health



Animal Health



## ONCOLOGY

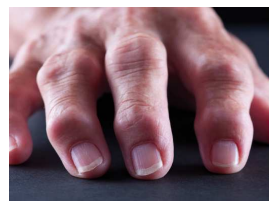
Bone Cancer Pain

Chemotherapy-Induced Peripheral Neuropathy



## GASTROENTEROLOGY

Irritable Bowel Syndrome



## RHEUMATOLOGY

Osteoarthritis

- Risk management
- Building value for early clinical dvpt
- Predictability





- ✓ Early stage PK data on NCEs as a prerequisite for successful animal pharmacology
- ✓ Quantitative measures of drug exposure for interpretation of preclinical efficacy studies

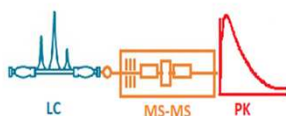
*in vivo* Part



- ✓ Blood & Tissue collection for bioanalyses
- ✓ Animal dosing in healthy or pathological rat
- ✓ Collection up to 20 tissues
- ✓ Standard or Premium conditions
- ✓ Attractive price \*

\* customized cost upon Sponsor's conditions

*in vitro* Part



- ✓ LC-MSMS method development in tissue homogenates\*
- ✓ Analytical method verification or validation\*
- ✓ Analysis of samples
- ✓ Calculation of PK parameters
- ✓ Analytical and PK reports \*

\* customized cost upon Sponsor's conditions





**INNOVATION**   
*Public Partnership*

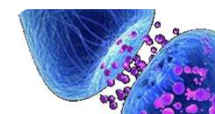
UNIVERSITÉ DE STRASBOURG

Opioid-induced  
Hyperalgesia

**Pharmadol Program**

2009 - 2012

Budget : 568 k€ / Employment : 1 FTE



**UNIVERSITÉ  
Clermont  
Auvergne**

Alternatives  
to Opiates

**Optim'Dol Program**

2019 - 2021

Budget : 224 k€ / Employment : 1 FTE





$1 + 1 > 2$

**INNOVATION** 

*Private Partnership*



Bioanalyses



Electrophysiology



Histology



EEG



*in vivo* Models



- Same Business model
- Same Philosophy
- Business alliances
- Business opportunities









**THANK YOU  
FOR YOUR ATTENTION**

**Bon Colloque !**

- |               |                  |
|---------------|------------------|
| ★ F. CAUSSADE | ★ A. ZANON       |
| ★ L. DIOP     | ★ M. ARDID       |
| ★ Y. DARBAKY  | ★ M. FEREYROLLES |
| ★ J. CHAMALET | ★ A. BERGOUNOUX  |
| ★ E. ROCHE    | ★ S. BOYER       |
| ★ M. GAULMIN  | ★ T. CHASSAING   |
| ★ V. MAFFRE   | ★ YOU...?        |

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**Connexions**

Les rencontres annuelles de la recherche préclinique

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