







✓ A small team dedicated to our customers



✓ International position

✓ 2 fields of activities:

Radiocarbon



Othher isotopes





BACKGROUND



2004: establishment of CIRAM by Richard CHERET and Olivier BOBIN

2006 & 2007 : Oséo & Aquitaine Entreprendre prizes

2011: establishment of CIRAM Corp. à New York

2012: partner office in Hong Kong

2014: new head office in Martillac (near Bordeaux, France)

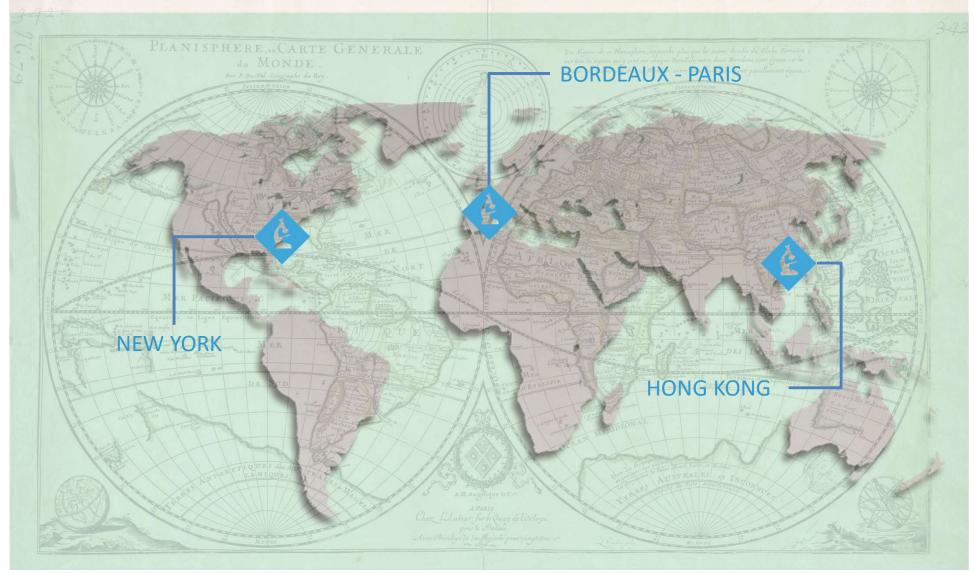
2015 : new laboratory in Martillac

2017: new radiocarbon laboratory

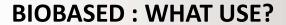


INTERNATIONAL OFFICES













- ✓ Quantification
 % of modern carbon (natural) vs old carbon (synthetic)
- ✓ Control: are your raw ingredients biobased?

 a batch, new supplier, raw ingredients, a formulation, an adulteration, at all stages of your process
- ✓ Certification : what % of biobased in your end product?

 to obtain an ecolabel
- ✓ Authentification : is the allegation true? Is it biobased?
- Regulatory and normative conformity



RADIOCARBON ASSETS





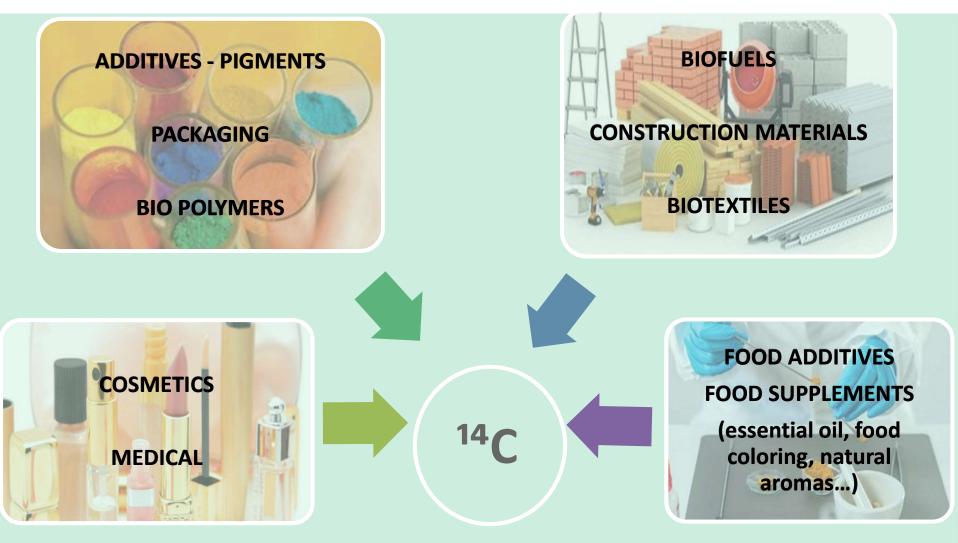
- ✓ No pre treatment of the sample the sample is tranformed into pure carbon (graphite)
- ✓ Small quantity

 only a few mg or mL is enough
- ✓ Great capacity+ 80 samples per week
- ✓ Low limit of detection
 0,3% of carbon
- ✓ High precision taux d'incertitude entre 0,1% et 0,5%
- ✓ Cost effective



EXAMPLES:WHAT IS THE CONTENT OF BIOBASED?







CIRAM ASSETS



✓ High level

- 8 scientists (doctors, engineers)
- High level of investment

✓ Timeline:

- Quote within the day
- Results and reports from 5 to 10 days
- Debrief of the result if necessary

✓ International norms applied

- ISO 16128
- ISO 16620
- ISO 17728
- ASTM D6866





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