

# Group 1 - UK/FR

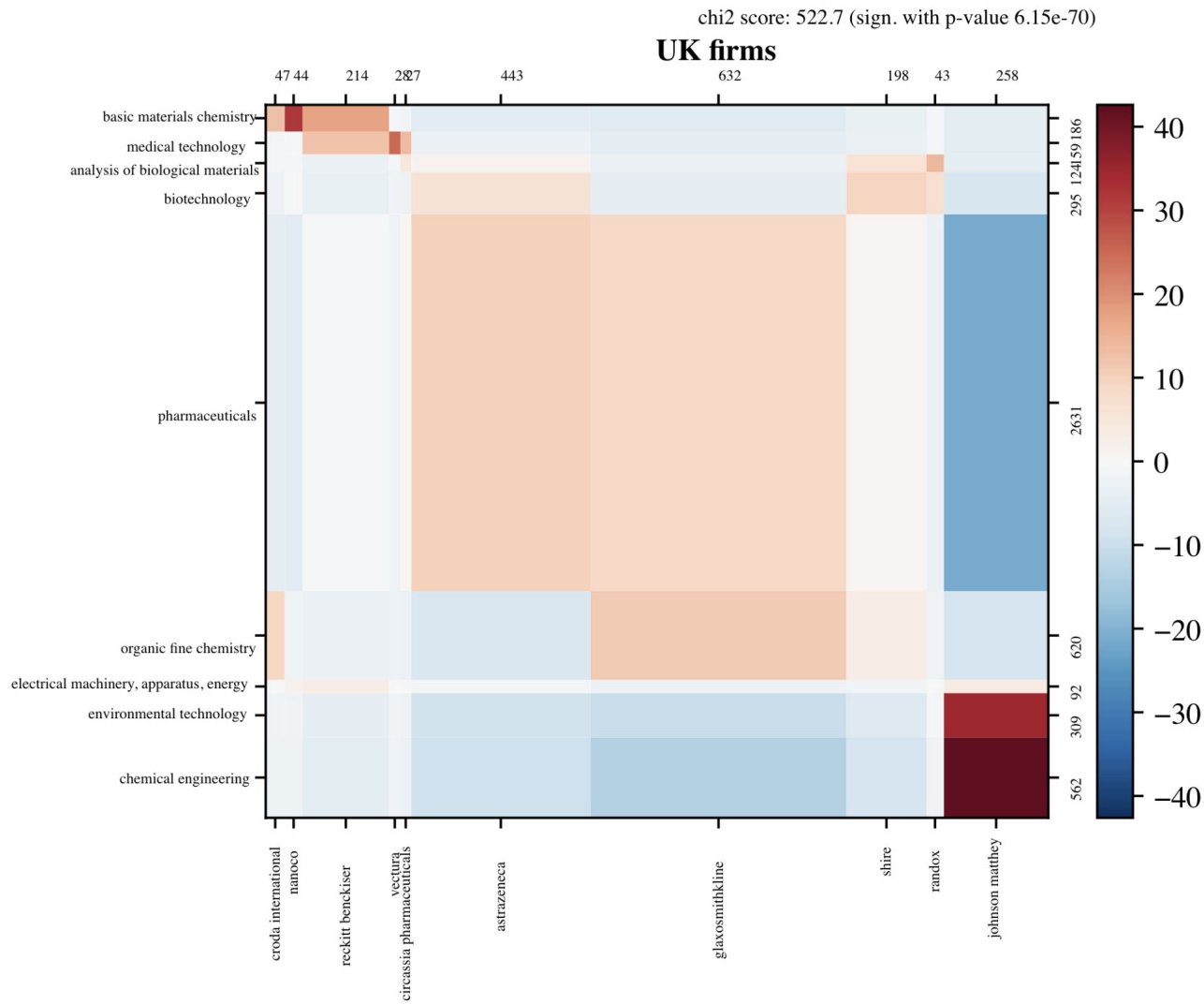
RISIS Patent training session  
Ian Roberts, Pierre Soro, Frédérique Bordignon

# Questions

- Compare technological specialisations of firms in FR vs UK
- Compare geographic concentration of innovation in the two countries

# UK

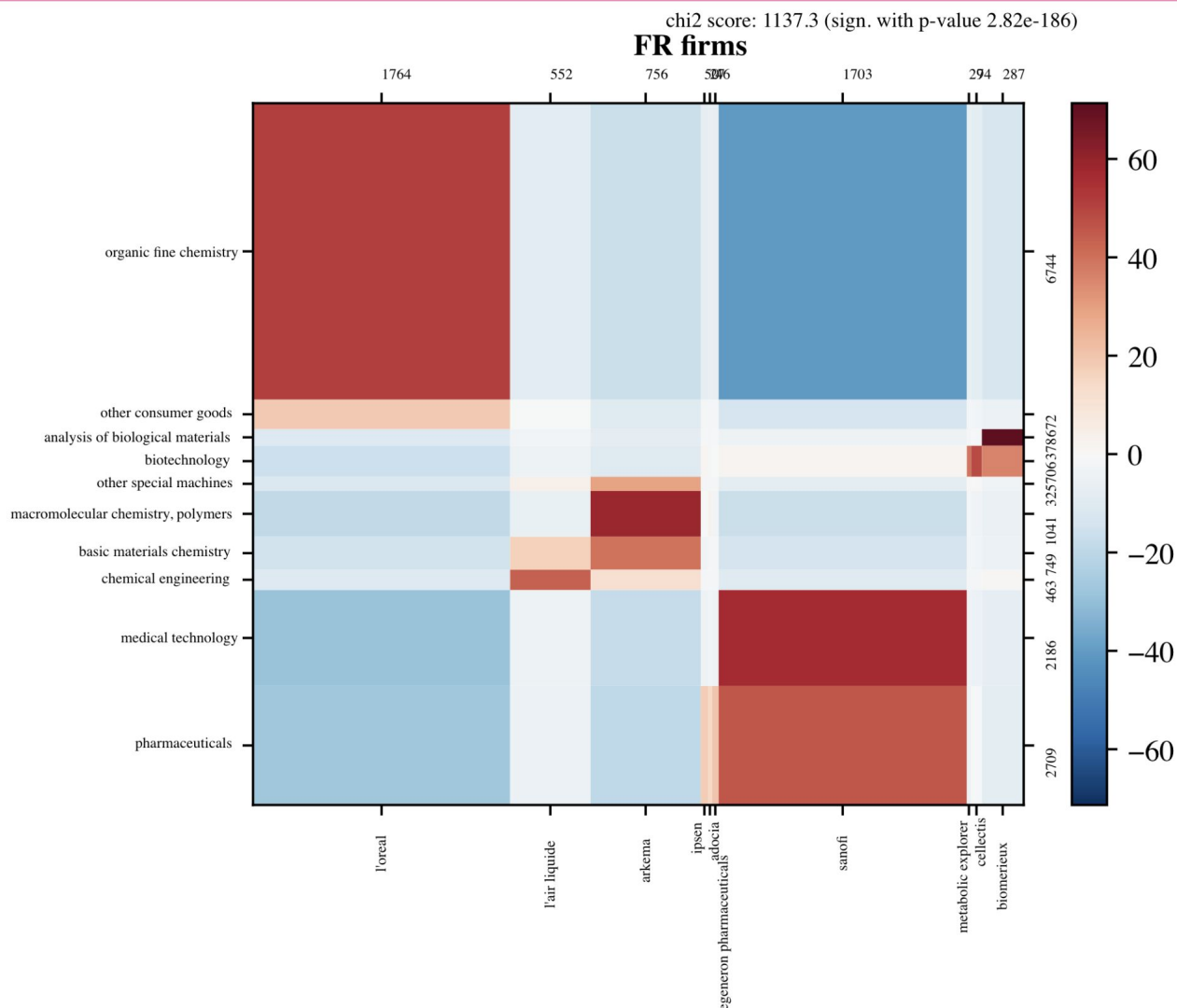
contingency matrix  
firms/tech fields



# FR

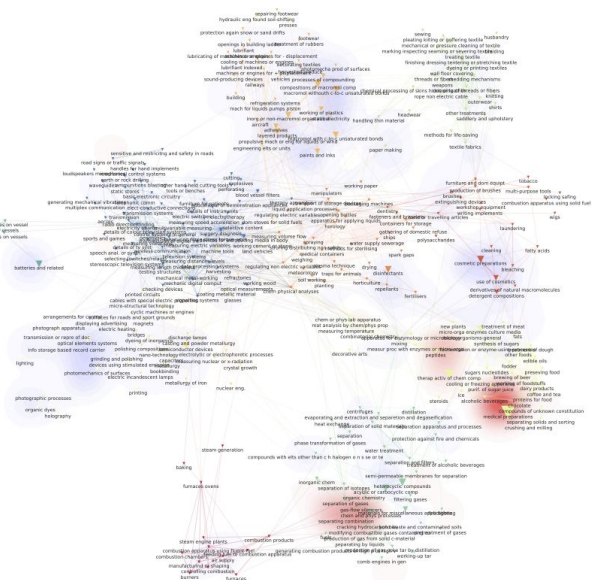
contingency matrix  
firms/tech fields

-> FR firms tend to be  
more tightly  
specialised than in UK



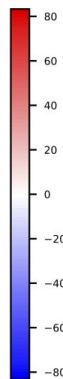
# Comparison of technical fields

United Kingdom, 2010-2015



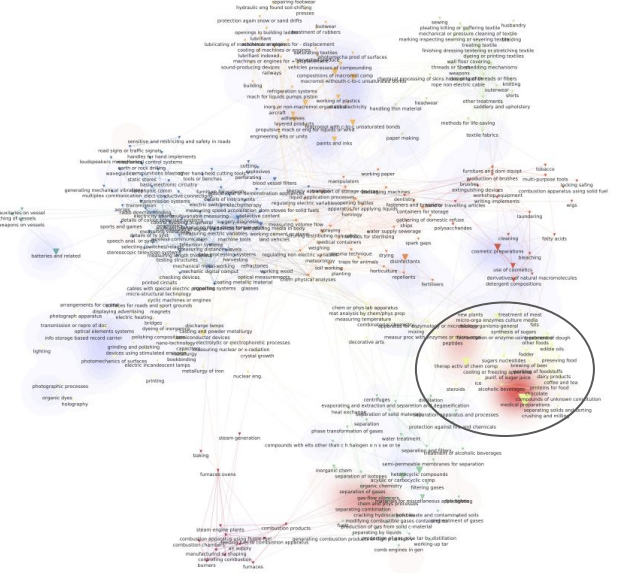
Clusters computed over full dataset  
(all countries)

Heatmap applied to show areas  
where each country is **over-** or  
**under-**represented compared to the  
dataset as a whole

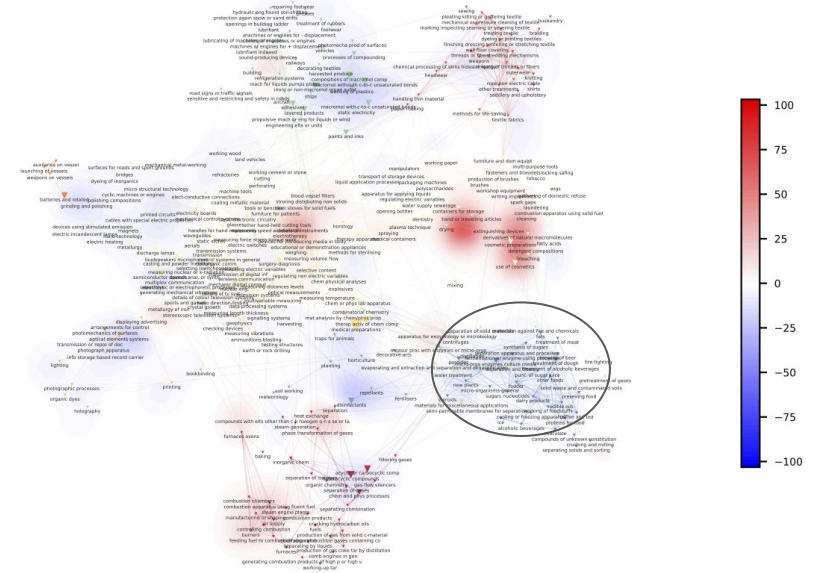


# Comparison of technical fields

United Kingdom, 2010-2015



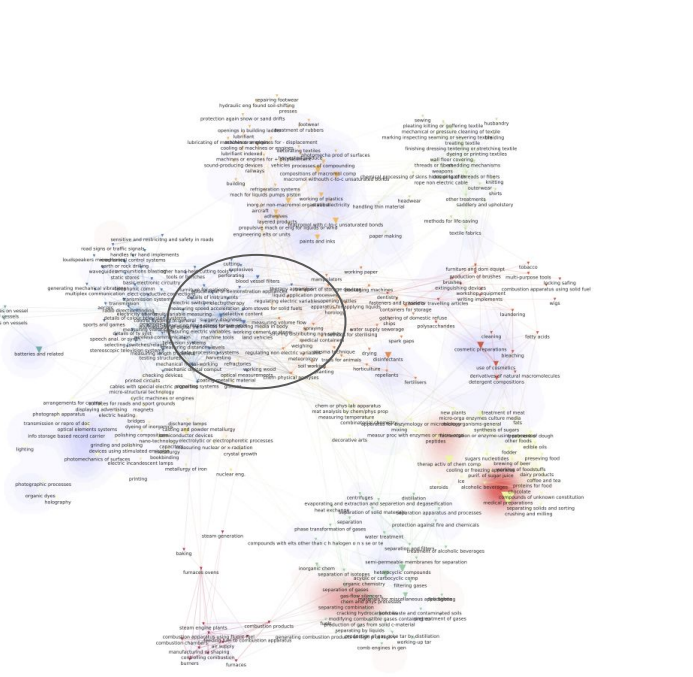
France, 2010-2015



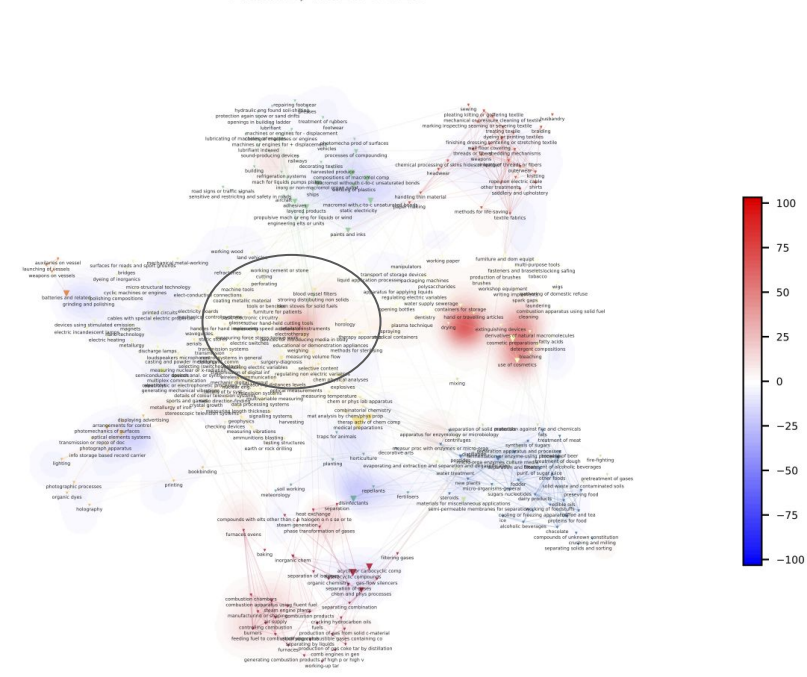
Medical preparations & food-related topics

# Comparison of technical fields

United Kingdom, 2010-2015



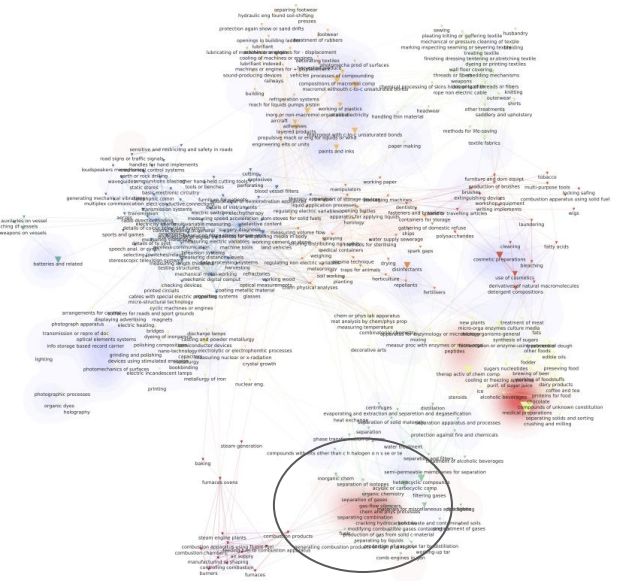
France, 2010-2015



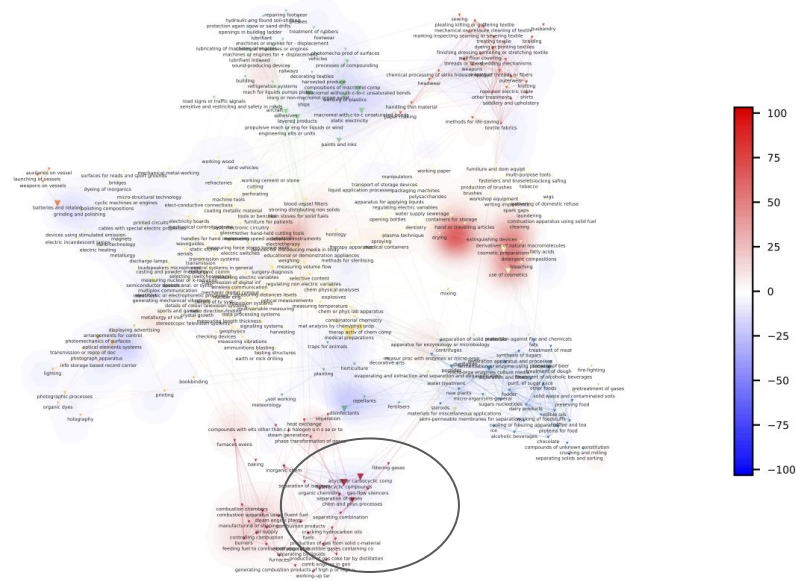
Medical devices

# Comparison of technical fields

United Kingdom, 2010-2015



France, 2010-2015

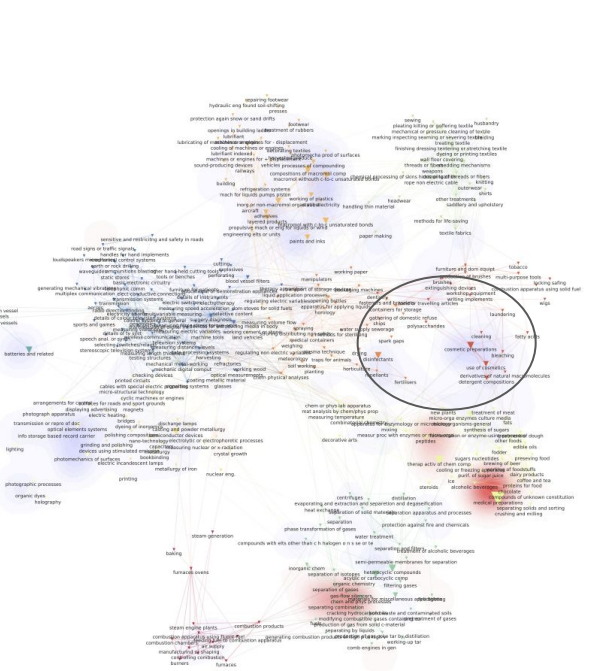


Chemical & physical processes etc.

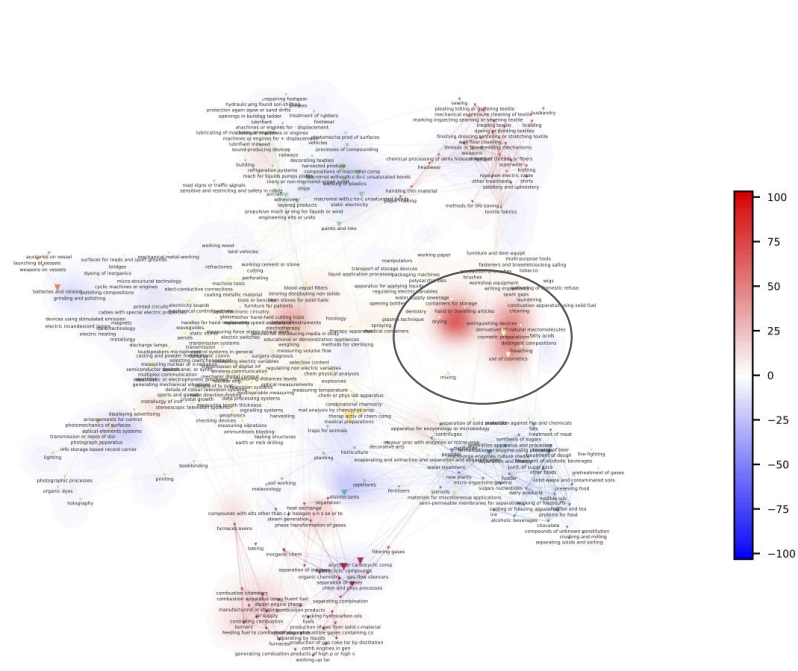


# Comparison of technical fields

United Kingdom, 2010-2015



France, 2010-2015



Cosmetics, detergents, etc.

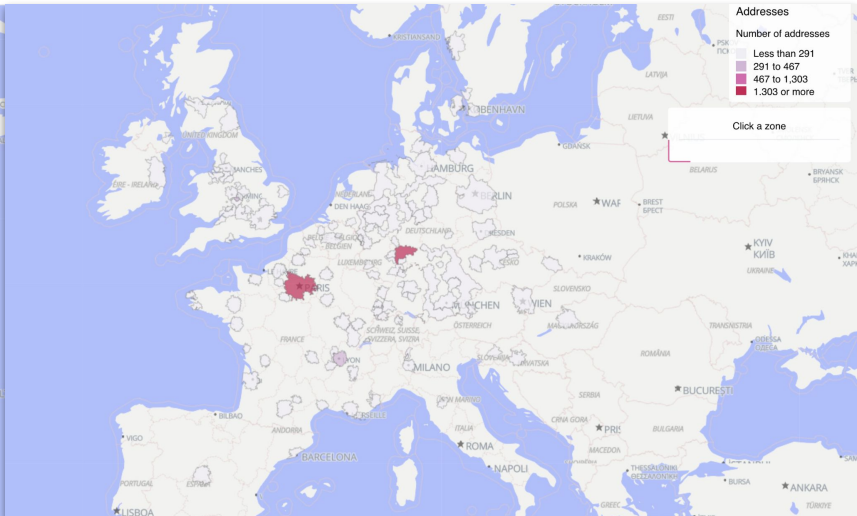
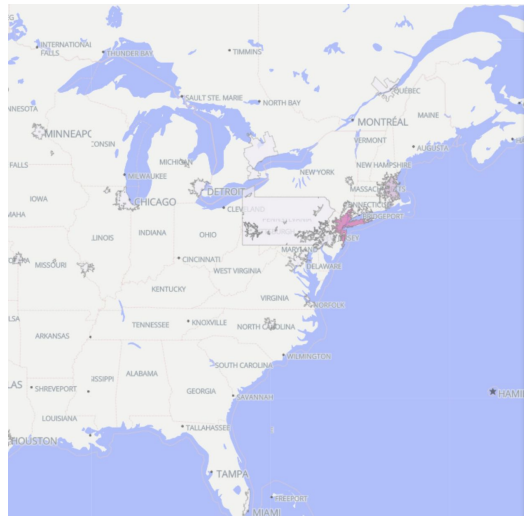
# Geographic concentration

2 corpuses/files : UK & FR + NACE codes and labels

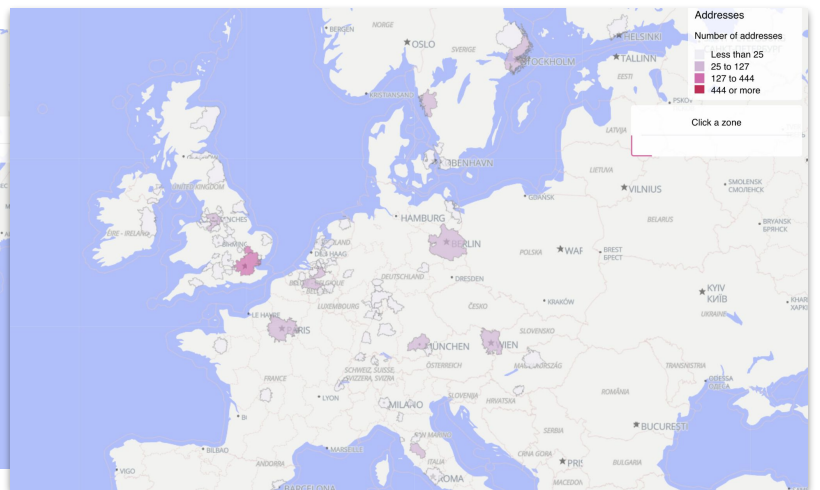
-> 4 subcorpuses according to the Pharmaceuticals and Chemicals NACE labels

position the inventors' addresses on a map and compare both countries for these 2 economic activities

# Pharmaceuticals



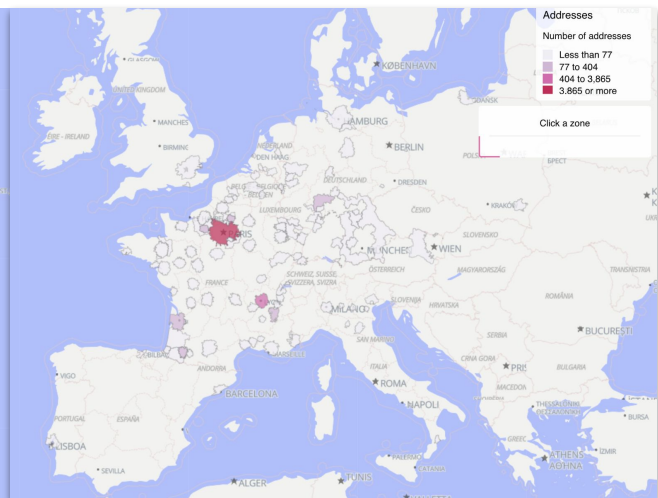
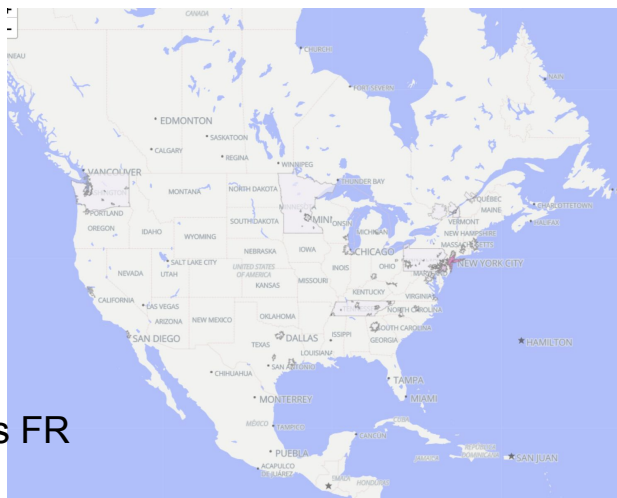
## Pharmaceuticals FR



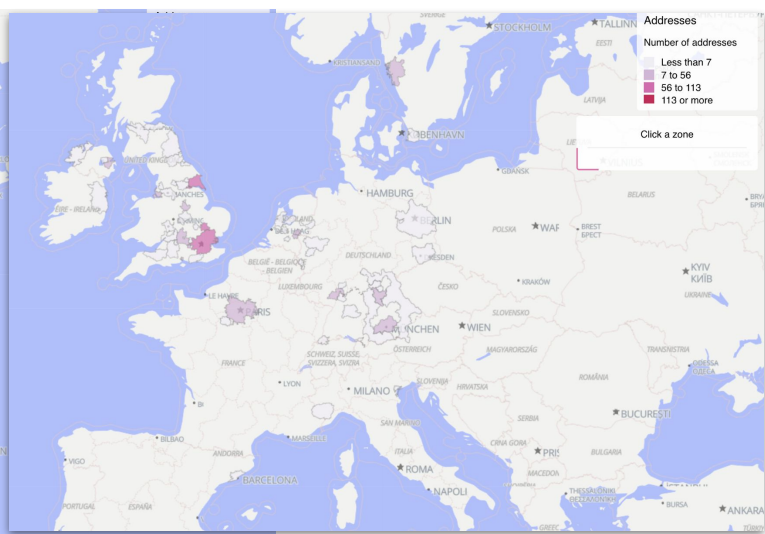
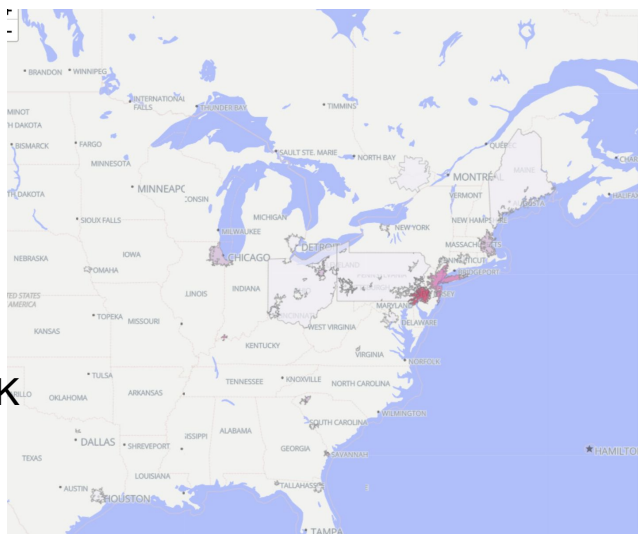
## Pharmaceuticals UK

# Chemicals

## Chemicals FR



## Chemicals UK



# Observations

- France tends to be more concentrated around capital (Paris) in both fields
- UK less so - pharma cluster around Manchester, chemical cluster around Hull
- But for UK dataset, most inventors actually in US (DC, Philadelphia, NY, Boston)
  - Possibly US firms that locate their patent portfolios in UK for tax reasons