# Comparing the geographic concentration of inventive activities across the UK and France

Participant presentation

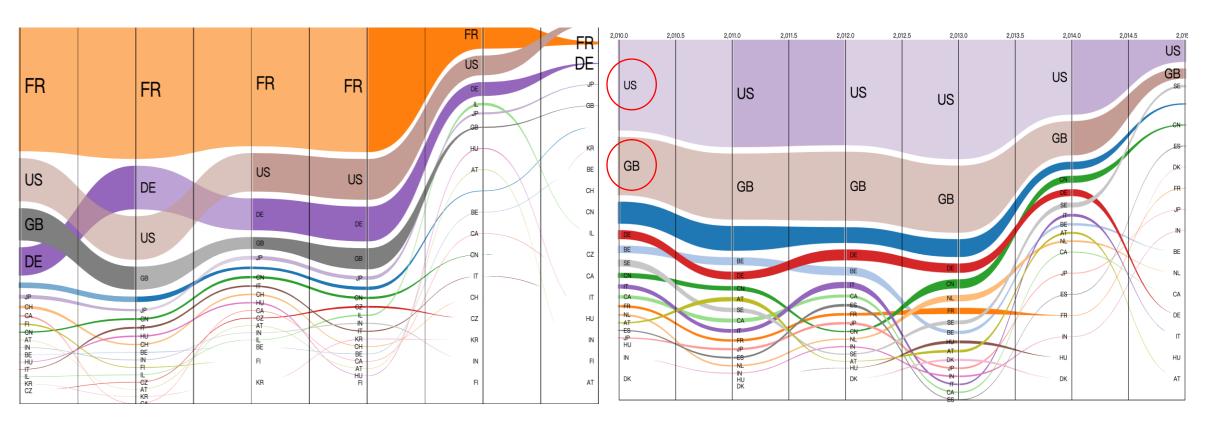
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Date: 30.03.2022

1. Where are the inventors located?

#### Statistical description of the inventive production

#### Countries of inventors



FRANCE UK

#### Statistical description of the inventive production

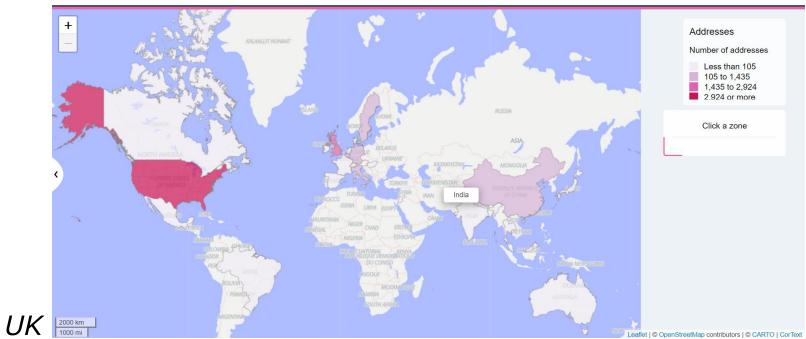
Top Firms in the chemical and pharmaceutical fields in France and the UK

FRANCE		UK	
Sanofi	pharmaceutical industry company	GSK	pharmaceutical industry company
L'Oréal	personal care company	AstraZeneca	pharmaceutical and biotechnology company
Arkema	specialty chemicals and advanced materials company	Reckitt benckiser	consumer goods company
Air Liquide	industrial gases company	Johnson Matthey	specialty chemicals and sustainable technologies company

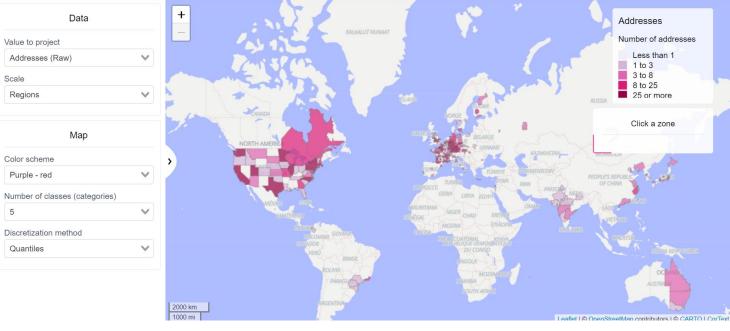
### Inventors by countries



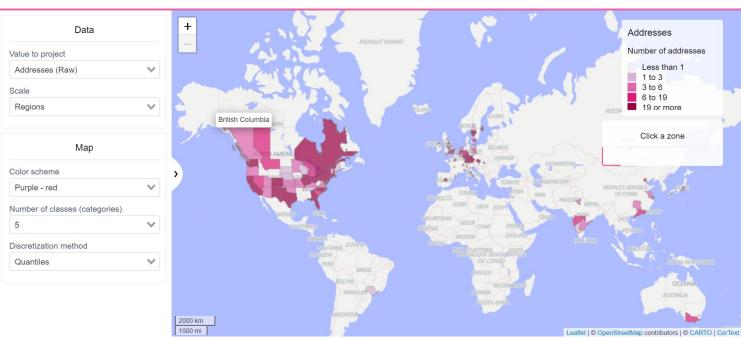
#### France 2000 km



#### Inventors by region



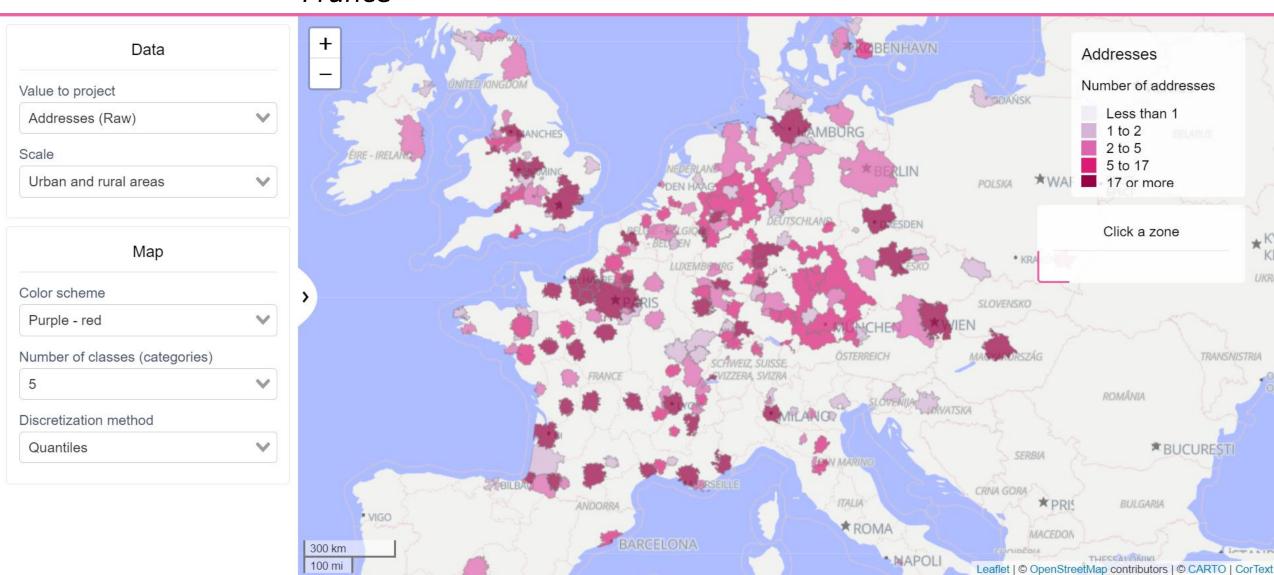
#### France



UK

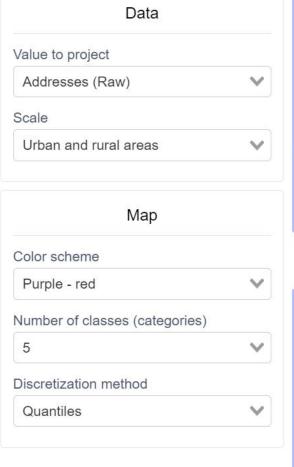
#### Inventors by urban-rural areas

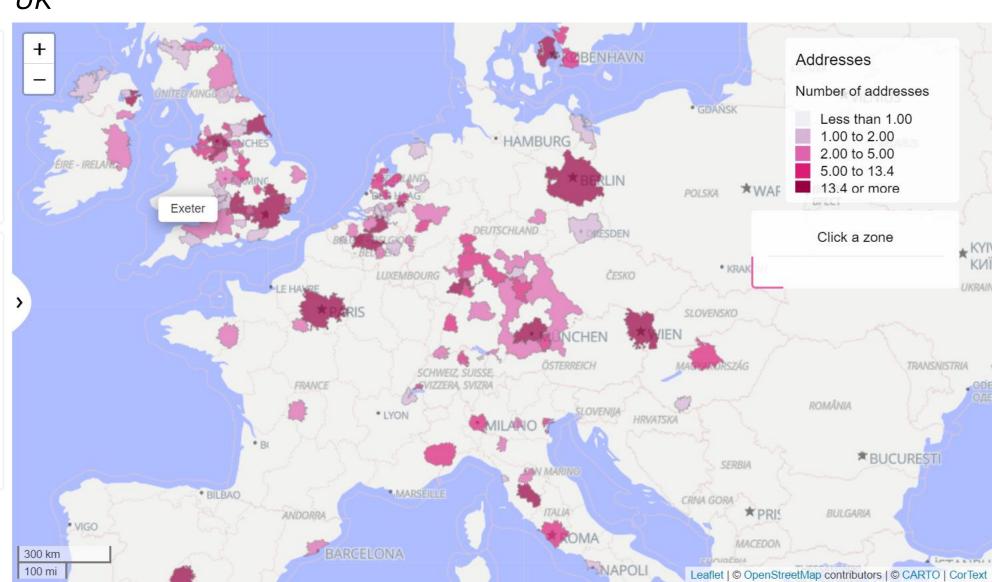
#### France



#### Inventors by urban-rural areas

UK





2. What are the countries specializing in?

#### Network comparison: technological fields

FR - 2010-2015

audio-visual technology telecommunications machine tools computer technology it methods for management medical technology mechanical elements measurement analysis of biological materials organic fine chemistry biotechnology chemical engineering food chemistry environmental technology

other special machines textile and paper machines macromolecular chemistry, basic materials chemistry surface technology, coating micro-structural and nano-technology civil engineering electrical machinery, apparatus, energy

materials, metallurgy thermal processes and apparatus

UK 2010-2015 other special machines textile and paper machines macromolecular chemistry, polymers electrical machinery, apparates meneralictors handling basic materials chemistry surface technology, coating medical technology other consumer goods micro-structural and nano-technology organic fine chemistry pharmaceuticals analysis of biological materials measurement biotechnology it methods for management computer technology telecommunications furniture, games materials, metallurgy environmental technology chemical engineering

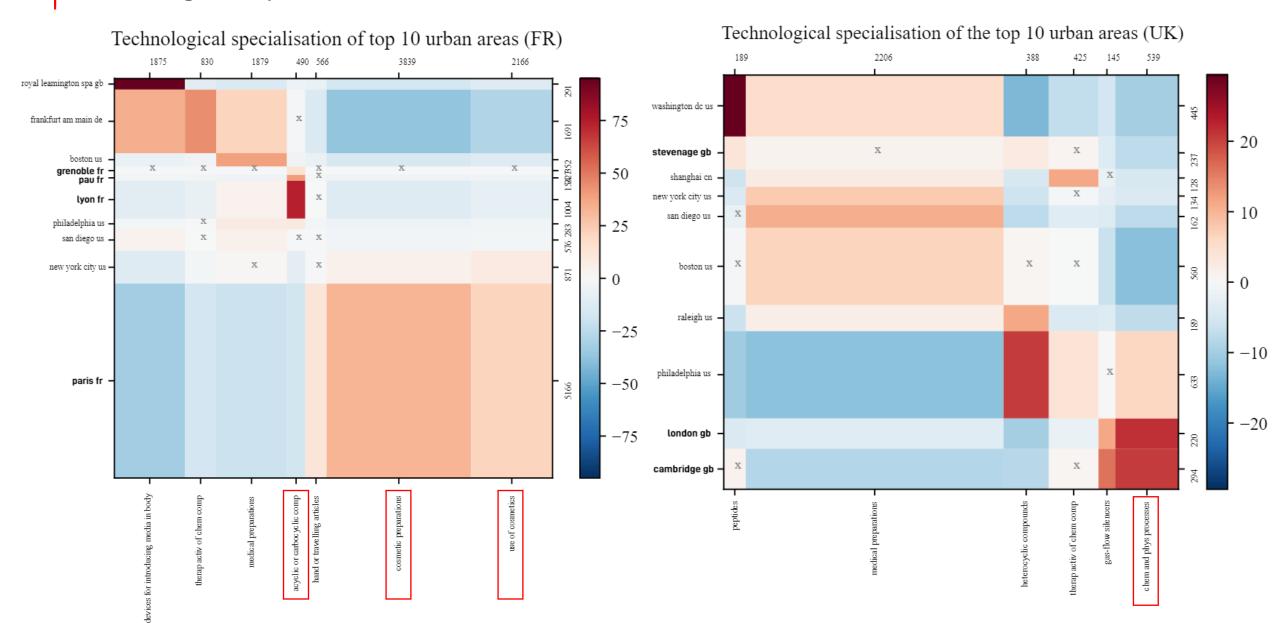
## Technological subfields (FRANCE)

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					Devices for Intro	ducing Media in Body	A	Operation Comme	C	miconductor Devices
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								Peptides		Blood Vessel Filters
					Devices for Introduc	ing Media in Body For Travelling Articles				
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Medical	Preparations		Medical Preparations			or Carbocyclic Comp				
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Hand or	Travelling Ar	ticles	Mat Analysis by Chem	/Phys Prop	Surgery-Diagnosis	C. Lineatonate d'Danda		7	/ `	\
Mat Ana	alysis by Cher	n/Phys Prop		, Triys Trop	Macromol with C-to-	C Unsaturated Bonds C Unsaturated Bonds by Chem/Phys Prop	Hand	or Travelling Articles		Adhesives
Compos	sitions Of Mad	eromol Comp	Acyclic or Carbocyclic		Inorg Or Non-Macro	mol Organ Subst	Inora Or Non-M	lacromol Organ Subst		Surgery-Diagnosis
		-C Unsaturated Bonds	Compositions Of Mac	romol Comp Mad	Micro-Orga Enzyme	emiconductor Devices s Culture Media C Unseturated Bonds C-to-C Unsaturated Bo		K since or gain called		
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, ,			Peptides			istributing Non Solids	×			
	, ,	Culture Media	Macromol with C-to- Inorg Or Non-Macrom		Peptides	Adhesives	Macromol with C-to-	Unsaturated Bonds	Stroring Di	stributing Non Solids
		nol Organ Subst	ond acromol withouth C		ndemiconductor Devi	resSurgery-Diagnosis	Micro-Orga Er	nzymes Culture Media	Hand	or Travelling Articles
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Adhesive Peptides			Surgery-Diagnosis Adhesives					5		I
Stroring	Distributing I	Non Solids	Stroring Distributing	Ion Solids	Blood Vessel Filters	Blood Vessel Filters	1	Blood Vessel Filters	Macromol with C-to-	Unsaturated Bonds
Blood Ve	essel Filters		Batteries and related							

## Technological subfields (UK)

010.0 2,010.5	2,011.0 2,011.5	2,012.0	2,012.5	2,013.0	2,013.5	2,014.0	2,014.5	2,0
Medical Preparations	Medical Preparations	Medical Prep	arations Medical Prepar	rations	Medical Prep Heterocyclic Col Chem and Phys P	mpounds	Medical Prep Heterocyclic Cor Batteries and	mpounds Peptides
		Chem and Ph	ys Processes Chem and Phys Proc		Mat Analysis by Chem/P Therap Activ Of Che	Peptides Inc	Therep Activ Of Che Fire- org Or Non-Macromol Org	-Fighting
Therap Activ Of Chem Comp	Chem and Phys Processes	Heterocyclic	Compounds Heterocyclic Comp		Semiconductor  Containers for	Devices	Layered l	Products plications
Heterocyclic Compounds	Heterocyclic Compounds	Peptides  Batteries and  Separation of	Telated	encers	Gas-Flow Separation		Acydlic or Carbocycl Mat Analysis by Chem/P	
Chem and Phys Processes  Mat Analysis by Chem/Phys Prop	Therap Activ Of Chem Comp  Acyclic or Carbocycle Comp	Gas-Flow Sile Therap Activ Inorganic Che	encers Therap Activ Of Chem Of Chem Comp	Comp	Inorgan	olications	Semiconductor Separation	
Peptides Gas-Flow Silencers Separation of gases Mechanic Digital Comput	Gas–Flow Silencers  Separation of gases  Peptides	Mat Analysis Devices for In	by Claem/Physiletop D htroducing Media in Bo	Pdy Foods	Oth Mechanic Digital	er Foods Comput	Other Mechanic Digital	ner Foods I Comput
Acyclic or Carbocycl c Comp Disinfectants Devices for Introducing Media in E Containers for Storage	Disinfectants	Acyclic or Ca Containers for Mechanic Dig Materials For	rbocyclic Colinprganic Laty 1898 Chem/Phy Ital Comput Wystellan Coup Ayelica	Chem s Prop selenso	Acyclic or Carbocyc			nic Chem
Materials For Miscellaneous Applit Inorg Or Non-Macromol Organ Su Other Foods Semiconductor Devices	ations   Mechanic Digital Comput	Materials Fo Other Foods Inorg Or Layered Prod	r Misce laneous Applic Disinfe Non-Macromol Organ Helhtroducing Media ir	ctants Subst Body	Layered	Products  nfectants	Gas-Flow S Containers for	
Inorganic Chem Layered Products Batteries and related Fire-Fighting	Inorganic Chem Other Foods Inorg Or Non-Macromol Organ S Fire-Fighting Lavered Products	Fire-Fighting	Containers for S Mechanic Digital C Layered Pro -Macromol Org <b>Eir</b> & Ufb	omput oducts	rg Or Non-Macromol Org		vices for Introducing Media  Chem and Phys P	

#### Technological specialisation of urban areas



## 3. Concluding remarks

- 1. United States seems to be a key partner in the inventive production of the UK.
- 2. France is more engaged with other European countries, while the UK maintains innovative links primarily with the US.
- 3. A priori, France appears more specialized in the cosmetics sectors, while the UK's innovative activity is concentrated on the pharmaceutical/medical sectors.