

RISIS Training: Thematic and spatial analysis of technologies using Cortex and RISIS database

Question: Where do large Swiss firms invent?

Marianne LANOE
Géraldine ENDERLI
Deivyd VELASQUEZ

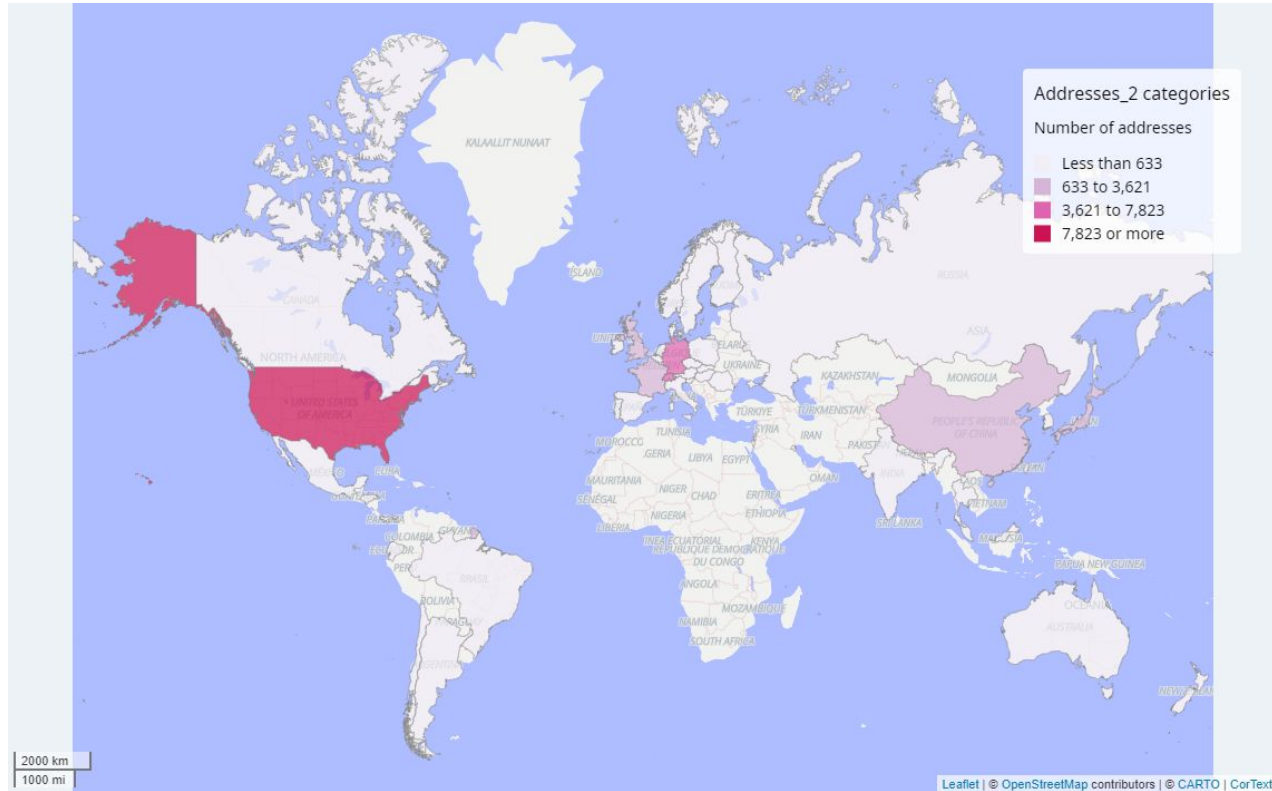
In our sample - For Swiss firms



- Number of firms: 36
- Number of address of inventors: 6194
- Number of patents: 5495

Firm's name	Number of address of the inventor	Number of patents
ROCHE	3248	2584
NOVARTIS	1379	1350
CLARIANT	313	312
LONZA	275	275
SIKA	255	253
SICPA	160	160
SULZER	146	146
GIVAUDAN	109	108
BUCHER INDUSTRIES	69	69
EMS CHEMIE	59	59
EVOLVA HOLDING	46	46
ARRAY BIOPHARMA	19	18
XENON PHARMACEUTICALS	18	18
BASILEA PHARMACEUTICA	18	18
GLAXOSMITHKLINE	13	13
SIEGFRIED	10	10
GURIT	9	9
VIFOR PHARMA	5	4
CURIS	5	5
PTC	5	5
GILEAD SCIENCES	5	5
BASF	5	5
AMGEN	4	4
KUROS BIOSCIENCES	3	3
ELI LILLY	2	2
MADRIGAL PHARMACEUTICALS	2	2
SHIN ETSU CHEMICAL	2	2
OTSUKA	2	2
ALLERGAN	1	1
ONO PHARMACEUTICAL	1	1
AMYRIS	1	1
INCYTE	1	1
ENZON PHARMACEUTICALS	1	1
NIPPON CHEMICAL INDUSTRIAL	1	1
DAIICHI SANKYO	1	1
PFIZER	1	1

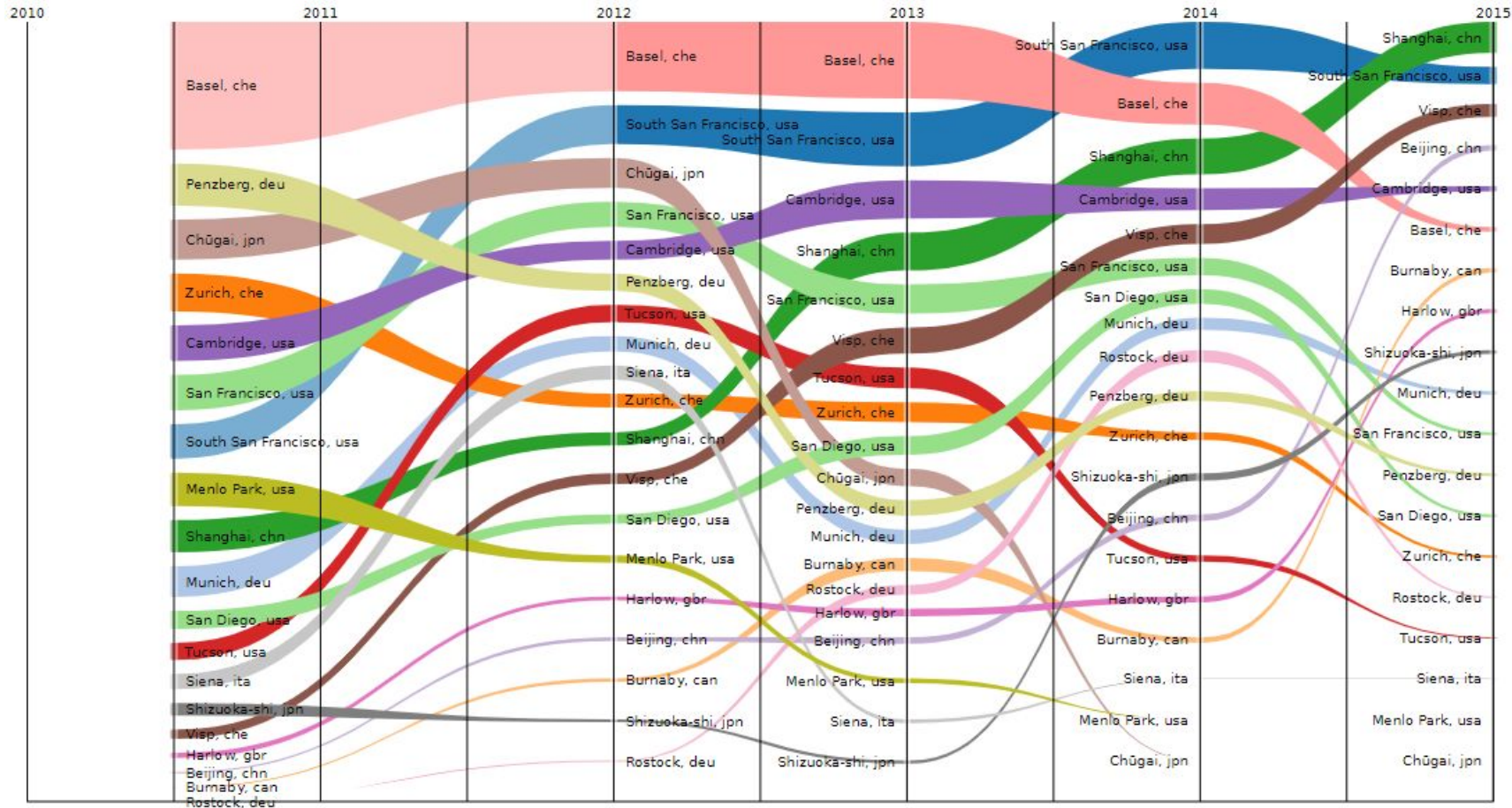
At country level



[Here](#)

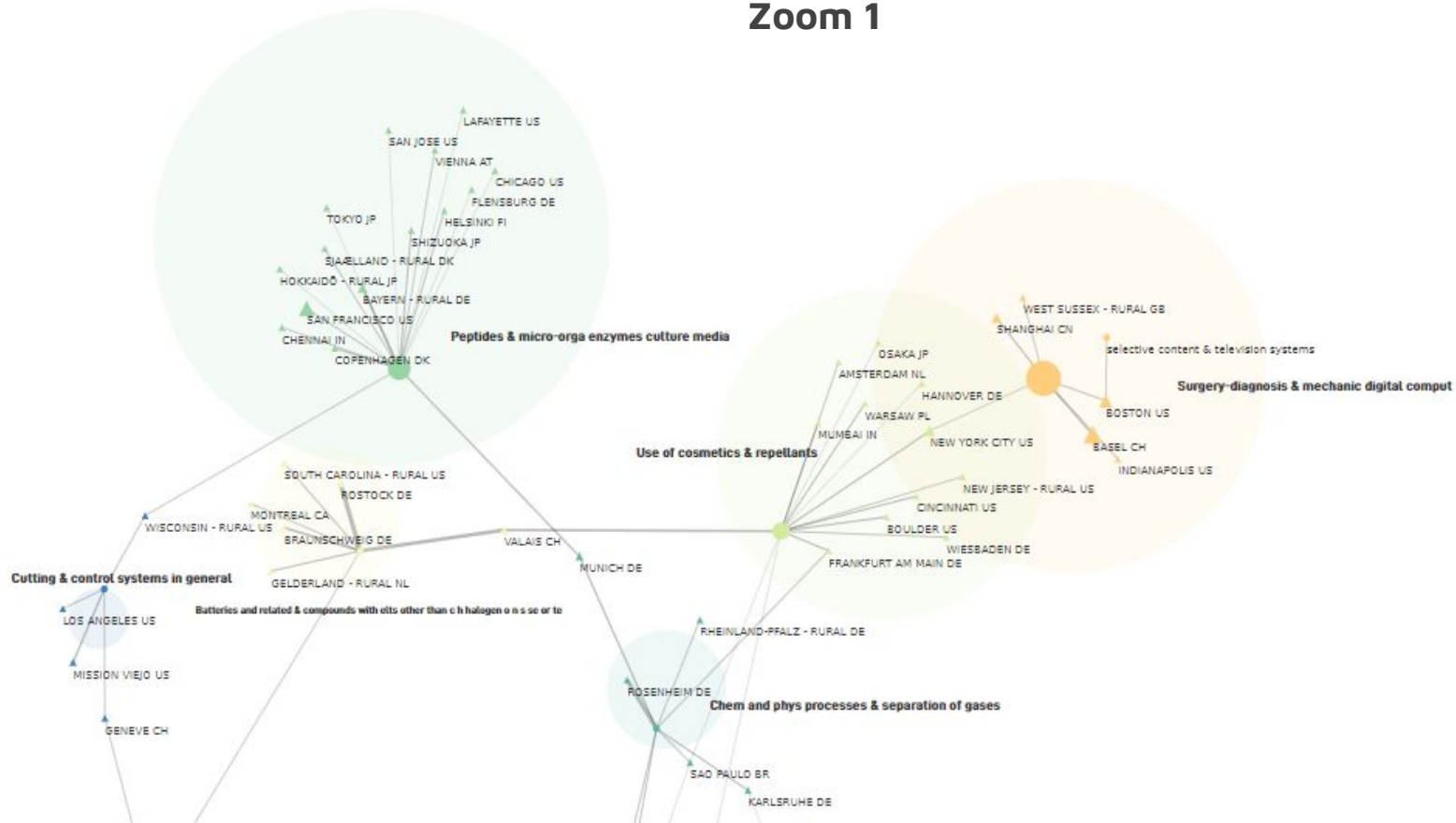
At city level

Evolution of the ranking of cities, that are cited as inventor's address



Networking mapping: location and clusters

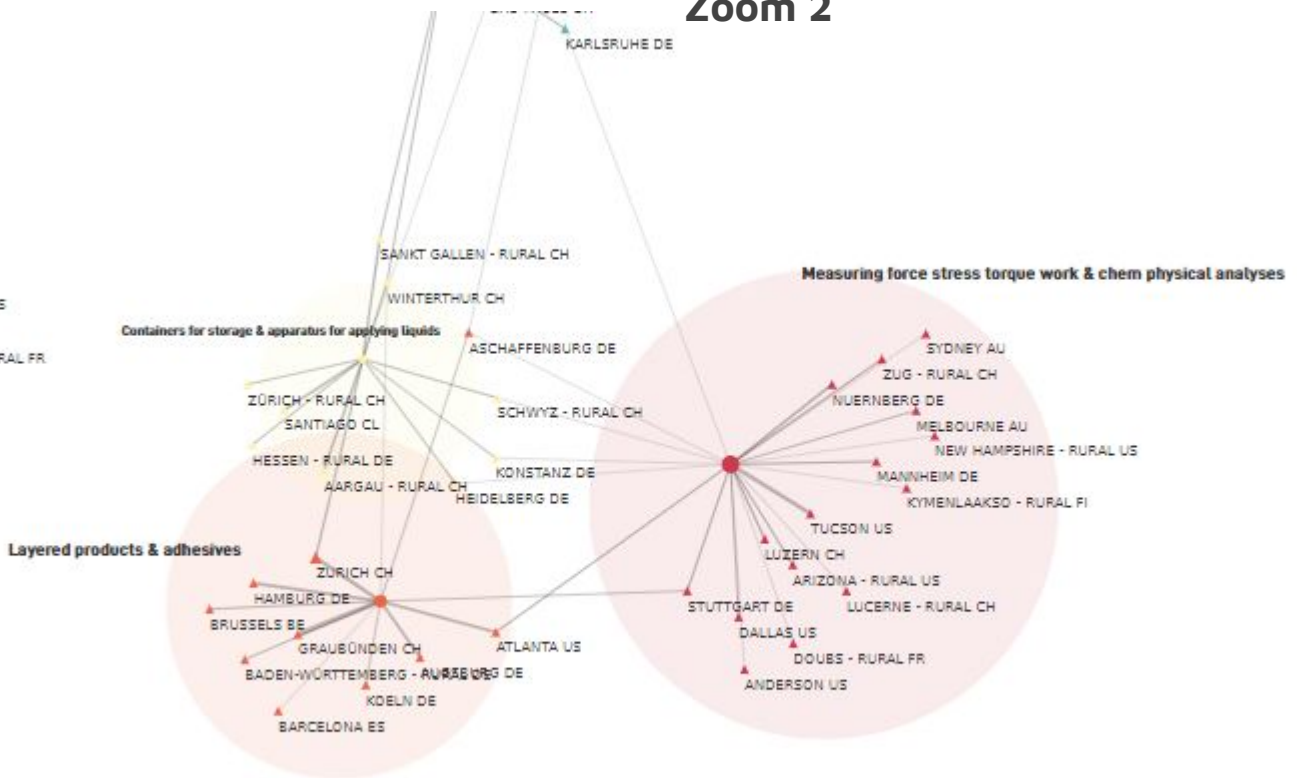
Zoom 1



Networking mapping: location and clusters

Zoom 2

- OURG FR
- L CH
- RAL CH
- WOODLANDS US
- RURAL IT
- TE-SAVOIE - RURAL FR
- JING CN



Refinement according to the Nace sectors

- Number of firms: 36
- In pharmaceutical sector : 23
- In Chemical sector : 13

Distribution of the addresses

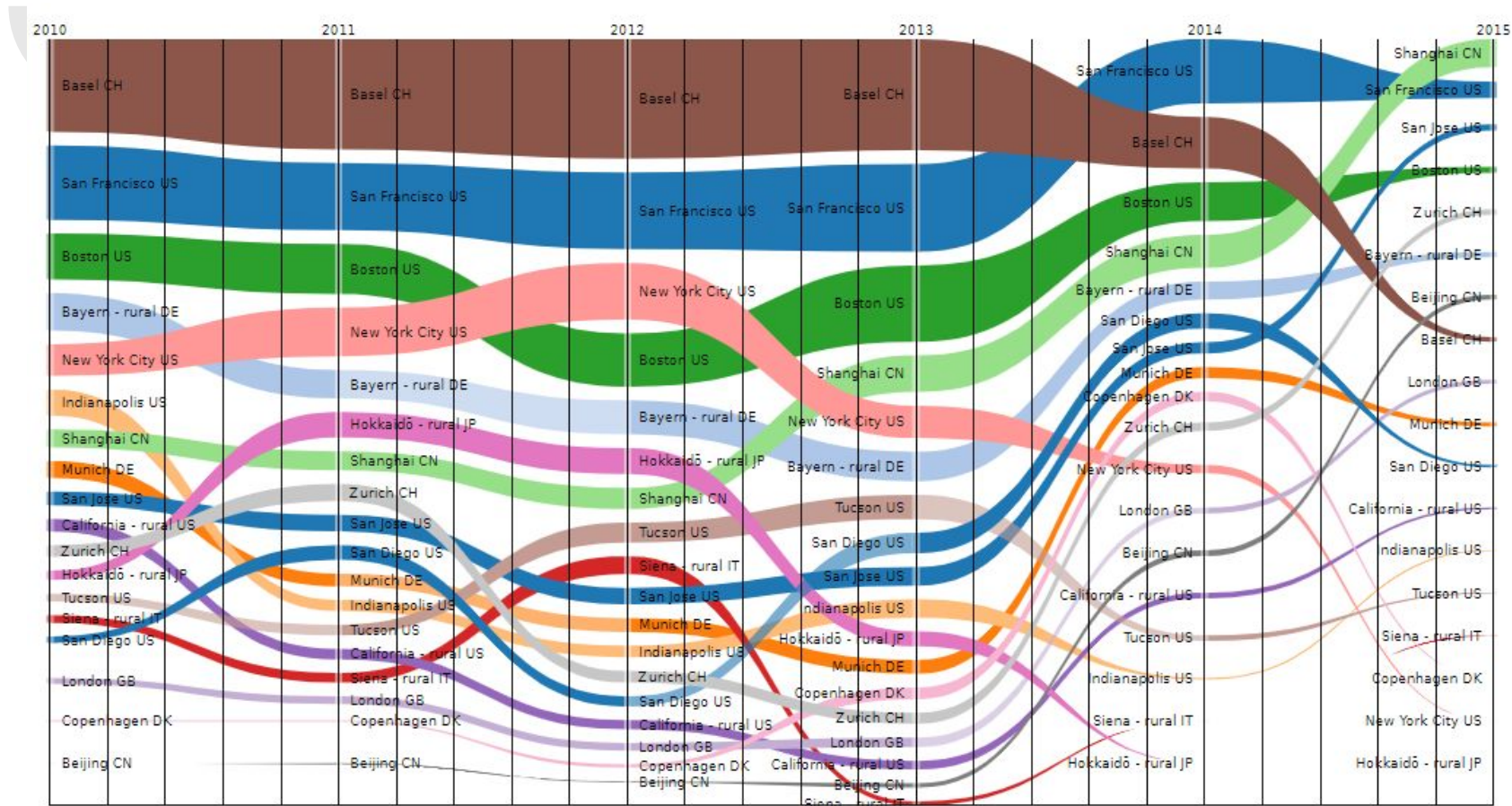
years	2010	2011	2012	2013	2014	2015	total
Pharmaceuticals	939	986	1016	1036	630	183	4790
Chemicals	284	289	319	328	129	55	1404

Firm's name	Industrial sector (nace)
ALLERGAN	Pharmaceuticals
AMGEN	Pharmaceuticals
AMYRIS	Chemicals
ARRAY BIOPHARMA	Pharmaceuticals
BASF	Chemicals
BASILEA PHARMACEUTICA	Pharmaceuticals
BUCHER INDUSTRIES	Chemicals
CLARIANT	Chemicals
CURIS	Pharmaceuticals
DAIICHI SANKYO	Pharmaceuticals
ELI LILLY	Pharmaceuticals
EMS CHEMIE	Chemicals
ENZON PHARMACEUTICALS	Pharmaceuticals
EVOLVA HOLDING	Pharmaceuticals
GILEAD SCIENCES	Pharmaceuticals
GIVAUDAN	Chemicals
GLAXOSMITHKLINE	Pharmaceuticals
GURIT	Chemicals
INCYTE	Pharmaceuticals
KUROS BIOSCIENCES	Pharmaceuticals
LONZA	Chemicals
MADRIGAL PHARMACEUTICALS	Pharmaceuticals
NIPPON CHEMICAL INDUSTRIAL	Chemicals
NOVARTIS	Pharmaceuticals
ONO PHARMACEUTICAL	Pharmaceuticals
OTSUKA	Pharmaceuticals
PFIZER	Pharmaceuticals
PTC	Pharmaceuticals
ROCHE	Pharmaceuticals
SHIN ETSU CHEMICAL	Chemicals
SICPA	Chemicals
SIEGFRIED	Pharmaceuticals
SIKA	Chemicals
SULZER	Chemicals
VIFOR PHARMA	Pharmaceuticals
XENON PHARMACEUTICALS	Pharmaceuticals



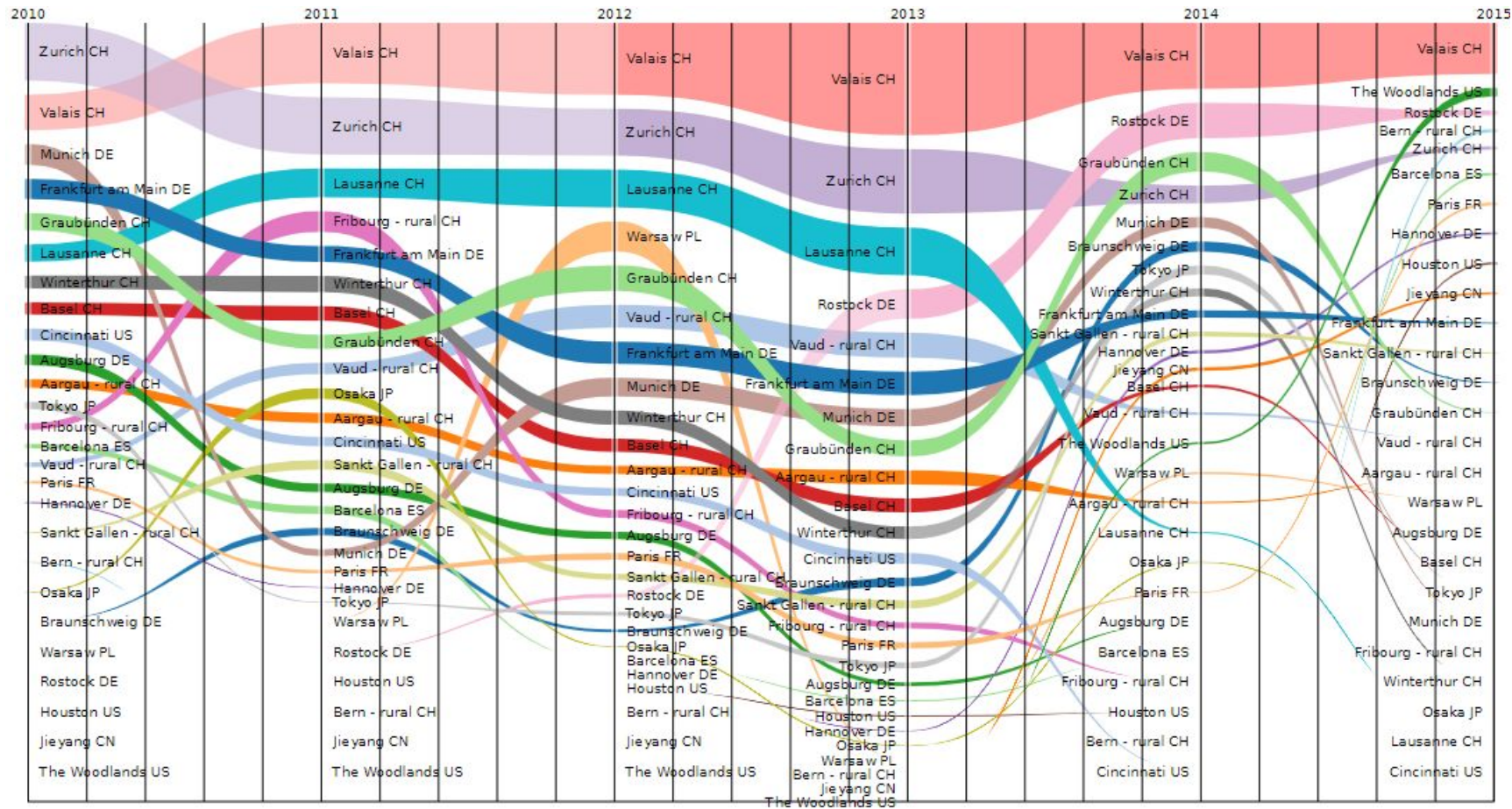
Focus in Pharma and Chemistry - City level

Pharmaceutical sector



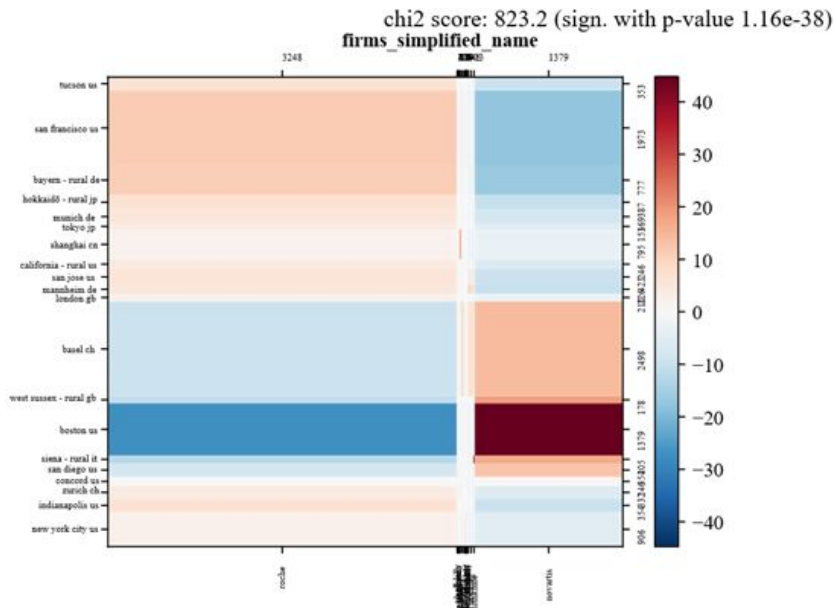
Focus in Pharma and Chemistry - City level

Chemical sector



Focus in Pharma and Chemistry - Contingency matrix

In pharmaceutical sector



In Chemical sector

