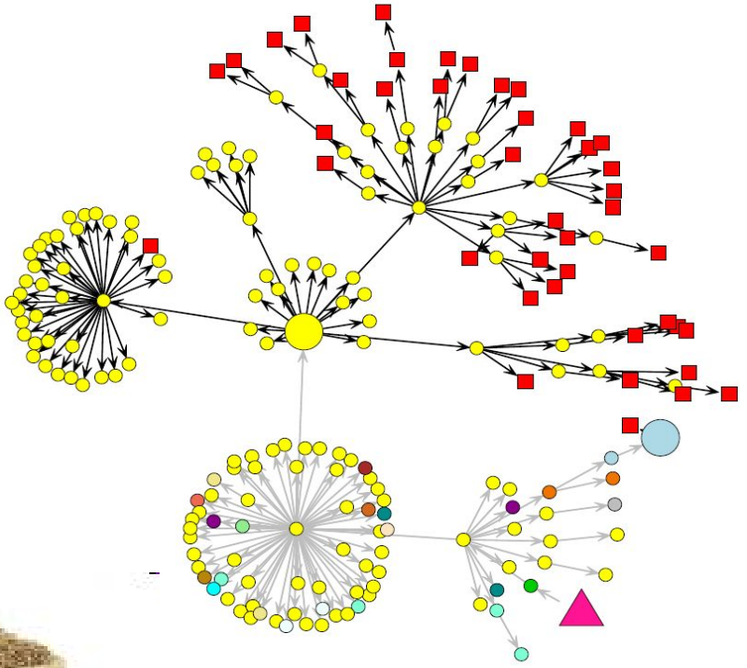
FEDERAL INSTITUTE
FOR RISK ASSESSMENT

Bundesinstitut für Risikobewertung

Geo-Analysis in FoodChain-Lab



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Alexander Falenski, Bernd Appel, Annemarie Käsbohrer

Geocoding

Start_Tracing_Caterers.xlsx - Microsoft Excel

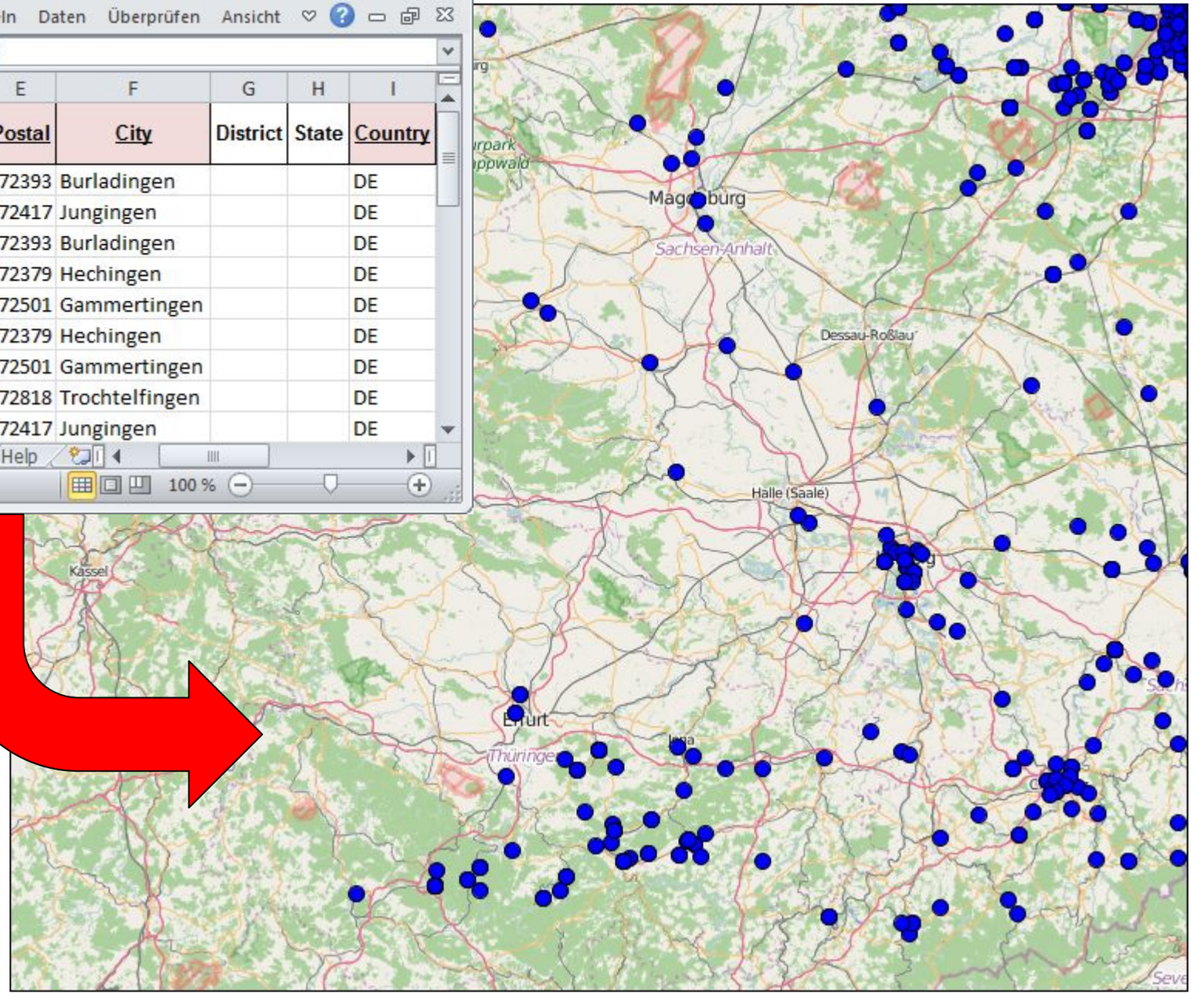
Datei Start Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht

B20 | Caterer 2

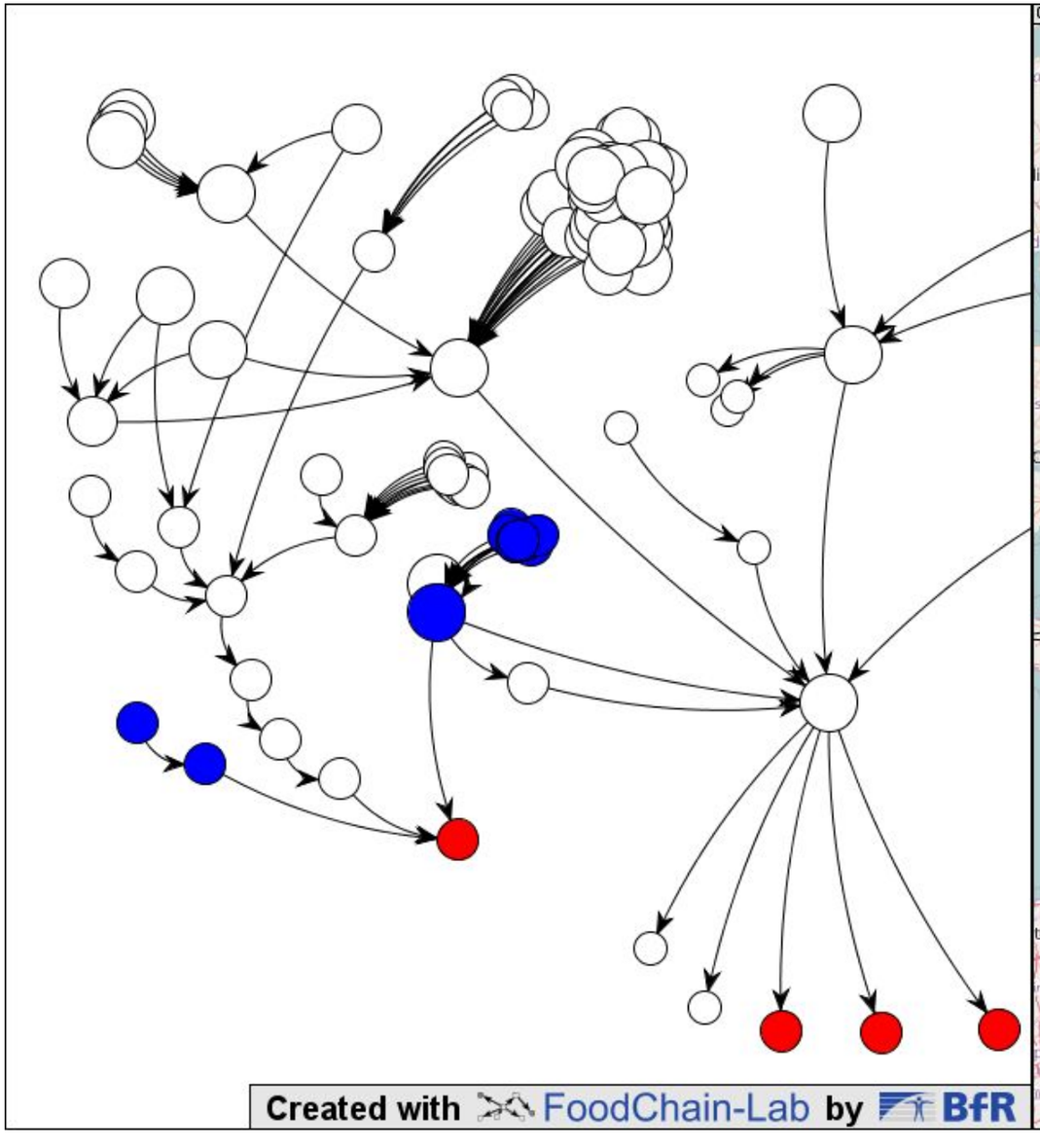
	C	D	E	F	G	H	I
1	Street	Street Number	Postal	City	District	State	Country
2	Kantstraße	1	72393	Burladingen			DE
3	Heuweg	1	72417	Jungingen			DE
4	Lichtensteinweg	1	72393	Burladingen			DE
5	Stillfriedstraße	1	72379	Hechingen			DE
6	Steinbeisstraße	1	72501	Gammertingen			DE
7	Gammertinger Straße	1	72379	Hechingen			DE
8	Hechinger Straße	1	72501	Gammertingen			DE
9	Schillerstraße	1	72818	Trochtelfingen			DE
10	Brunnenstraße	1	72417	Jungingen			DE

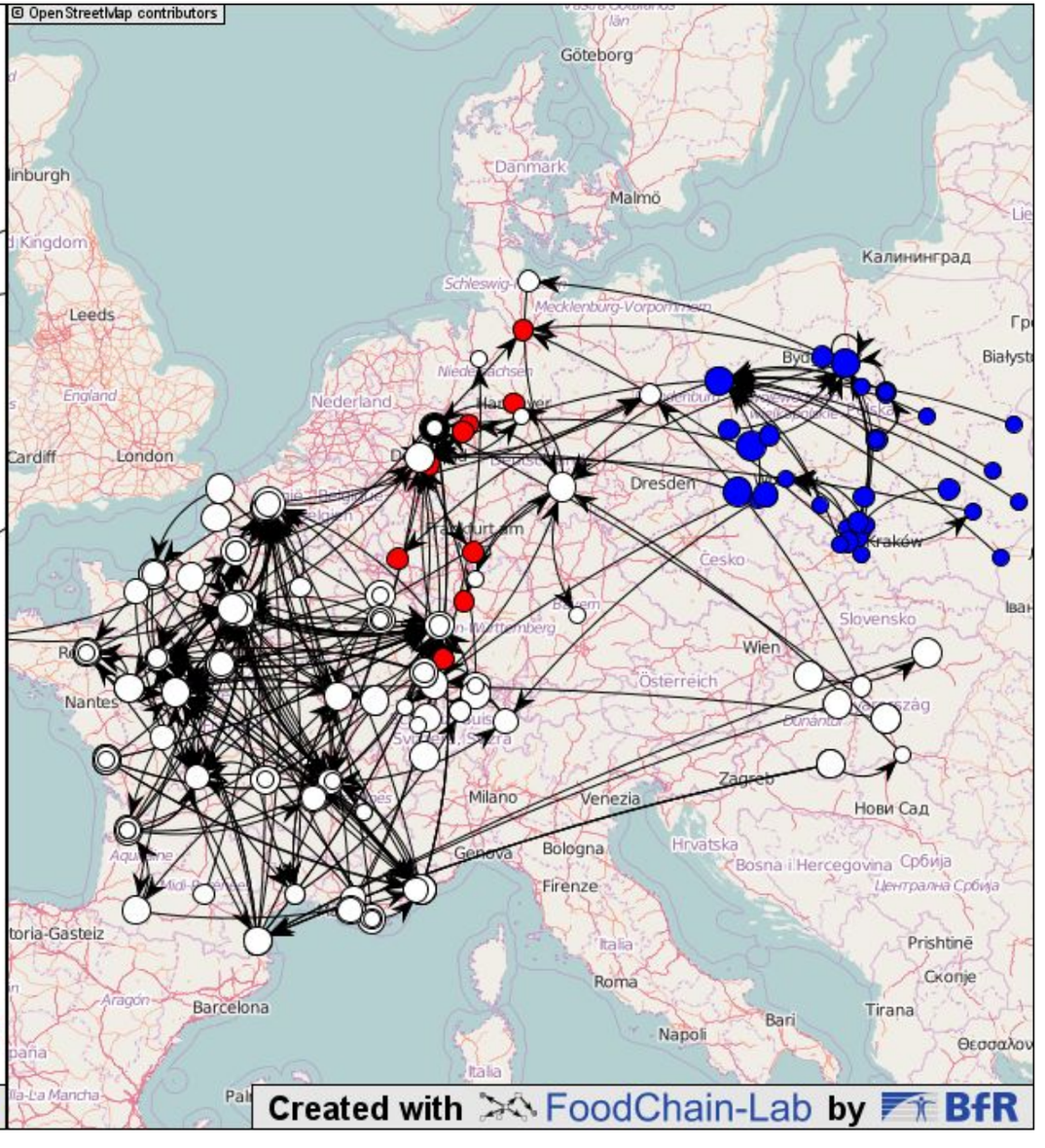
Stations Deliveries LookUp Help

Bereit 100 %



Geo-Visualization





Geo-Clustering

What do we mean by Geo-Clustering?

- Stations are not viewed as separate entities anymore
- Regional „Clusters“ of stations are created
- → New Questions possible: What if goods / resources from a certain region are contamined?

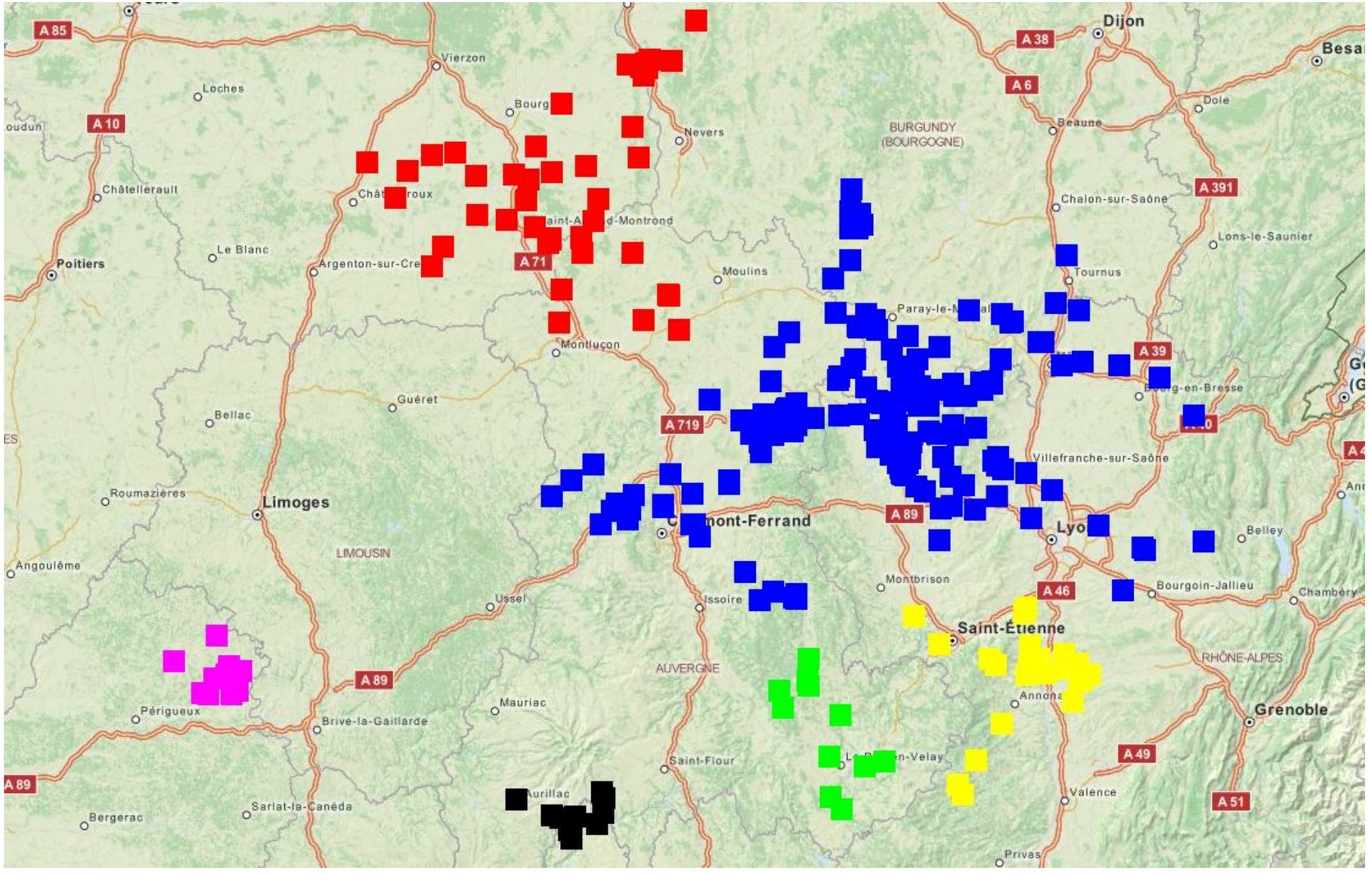
Why do we do that?

- Regional Contamination: water source, …
- Regional Workforce is infectious

Geo-Clustering in FoodChain-Lab

1. Manually select stations for cluster (e.g. with Geo-View)
2. Clustering based on addresses (e.g. all stations with same zip code)
3. Cluster-Algorithm based on geographical coordinates (latitude / longitude)

DBSCAN - Algorithm



FoodChain-Lab – Live!

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Thank you for your attention

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http://foodrisklabs.bfr.bund.de

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