

# Supply Chain Leakage Reduction

Project Advisors: Prof. Ananth Iyer, Prof. Steven Dunlop, Prof. Mohammad Rahman

Student Team: Mihir Bhatia, Deepika Jindal, Anesh Krishna, Nachiket Joshi, Hemanth Devavarapu

## Project Goal:

- Identify capabilities of companies in the WHIN region
- Take stock of aggregate capabilities in the 10 counties (WHIN region)
- Data to gain macro insights
- Explore subsets of companies with required capabilities for new industry
- Assist LEDOs and company's management to reduce supply chain leakage

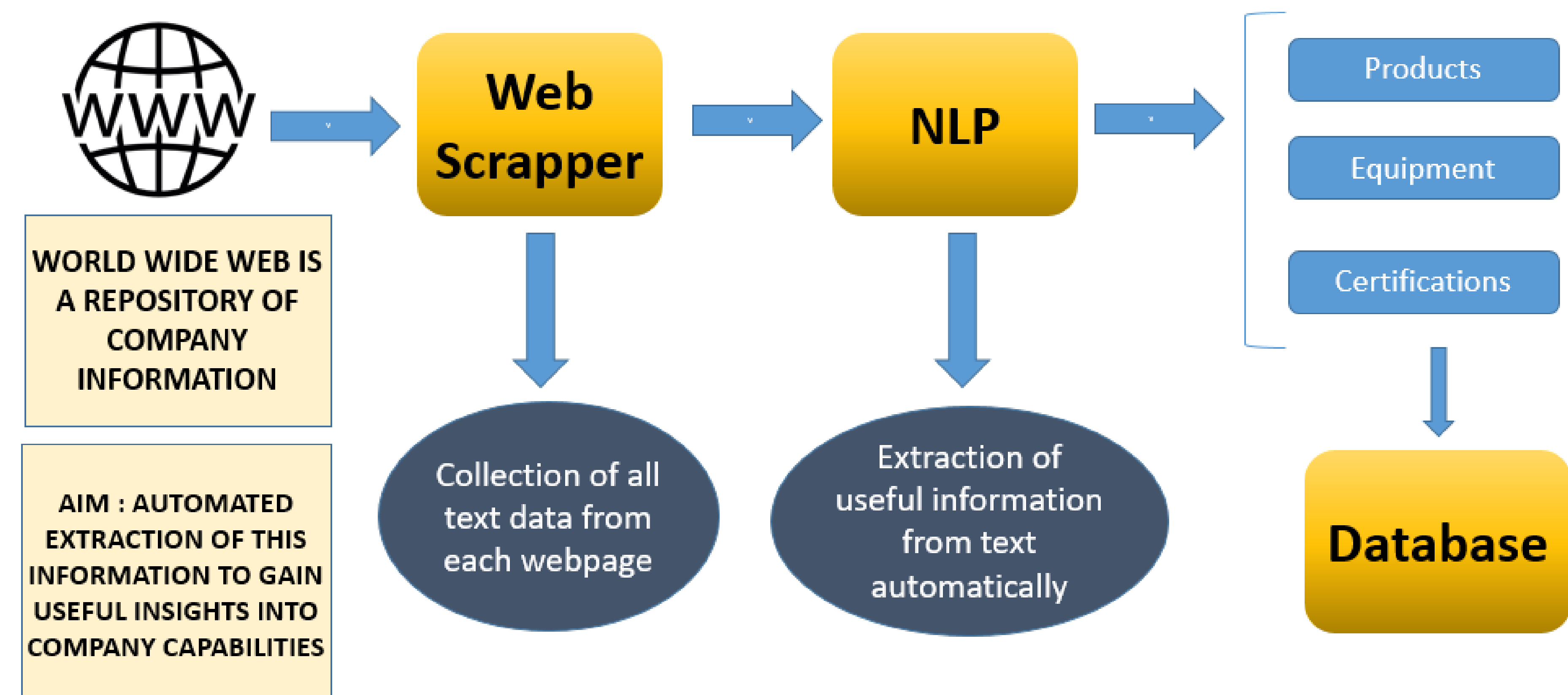
## What is the problem ?

- **Example:** Oerlikon Fairfield
- **URL :** <https://www.oerlikon.com/fairfield/eng>
- Large numbers of web-links → 441 web-links
- Many pages of raw data → 602 pages
- Several individual searches to get an answer
- Long run time → over 3 hours for one company

## Completed analysis of 278 companies

Union of 236+270 gave 397 companies → 119 more to go

- Extracted data from the company websites
- Focused on a few attributes for now
- Company type (Manufacturing, Distributor etc.)
- Equipment
- Certifications
- Products



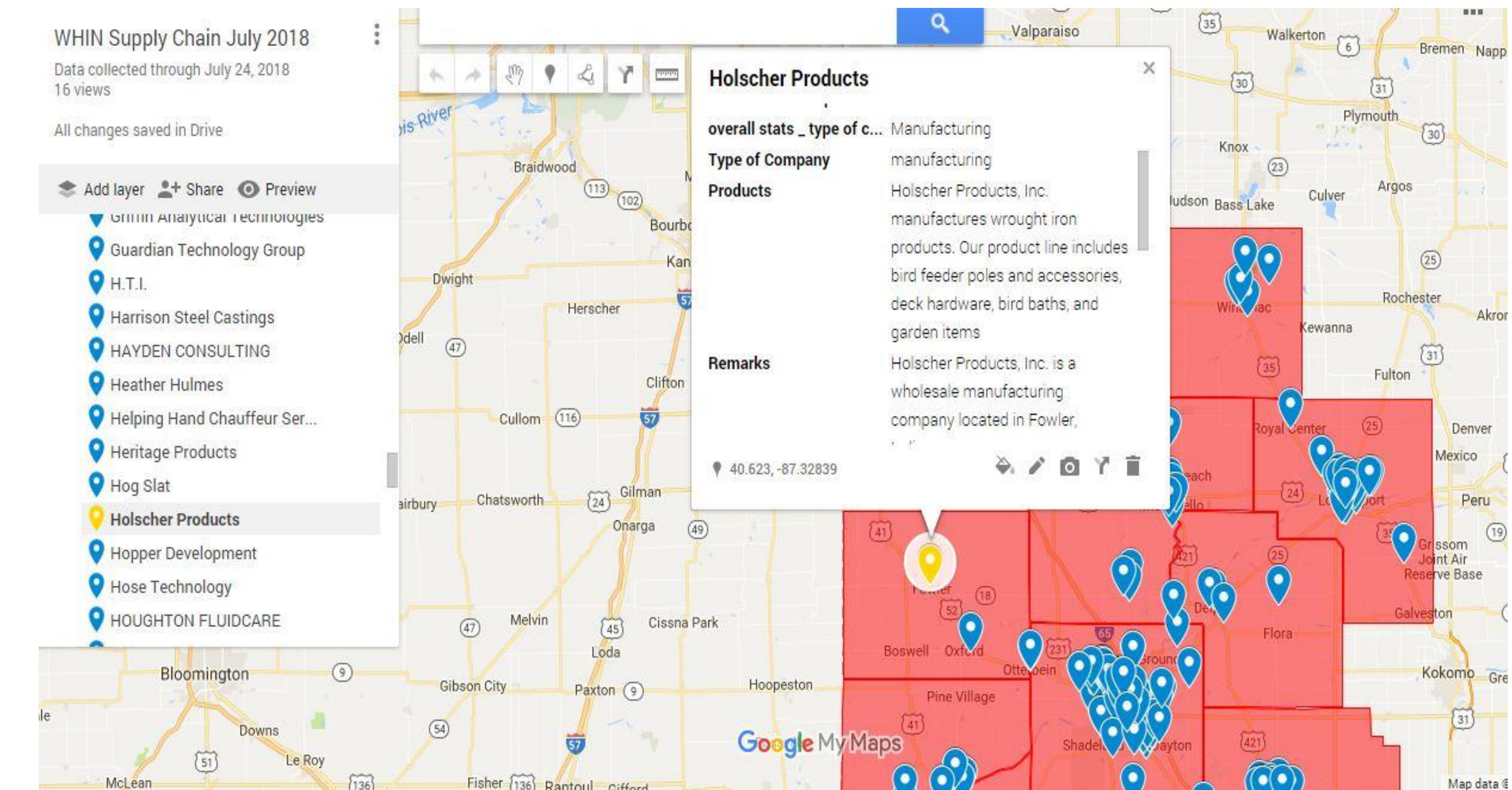
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County	Count of Companies with equipment data available
Benton	1
Cass	11
Clinton	1
Fountain	1
Montgomery	2
Tippecanoe	10
Warren	5
White	3
<b>Grand Total</b>	<b>34</b>

Equipment categories	Number of companies
CNC	18
Press	13
Weld	11
Computer	4
Laser	7
Hydraulic	2
Stamp	1
Cutting	8



County/ Company Type	Manufacturing	Chemical	Maintenance	Software	Suppliers	Logistics	Insurance	Distributor	Security	Packaging	Janitorial	Grand Total
Benton	4		1					1				6
Carroll	3				1							4
Cass	19		3		4			1			1	28
Clinton	9	1			3	1			1			15
Fountain	6	1										7
Montgomery	11	1		2	2	3		1		3		23
Pulaski	4							1				5
Tippecanoe	36	8	2	5	4		7	2	4		1	69
Warren	6											6
White	7	1	2	1		1				1		13
<b>Grand Total</b>	<b>105</b>	<b>12</b>	<b>8</b>	<b>8</b>	<b>14</b>	<b>5</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>176</b>