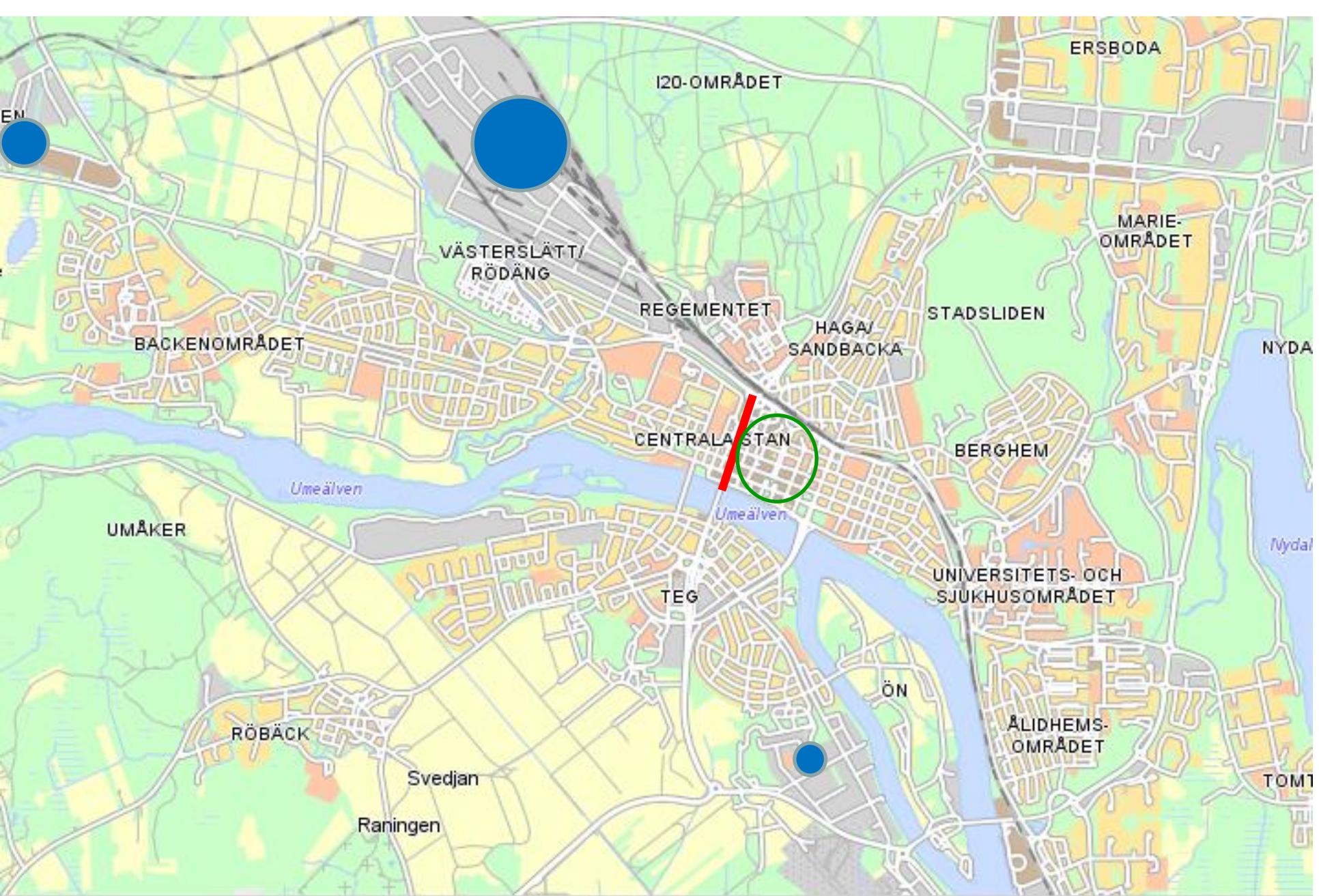


Transport of goods in the city centre

Focus on consolidated transport

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Municipality of Umeå





120-OMRÅDET

ERSBODA

VÄSTERSLÄTT/
RÖDÅNG

MARIE-
OMRÅDET

REGEAMENTET

STADSLIDEN

BACKENOMRÅDET

HAGA/
SANDBACKA

NYDA

CENTRALA STAN

BERGHEM

Umeälven

Umeälven

Nyda

UMÅKER

UNIVERSITETS- OCH
SJUKHUSOMRÅDET

TEG

ÖN

RÖBÄCK

ALIDHEMS-
OMRÅDET

TOMT

Svedjan

Raningen



The Task

Find solutions to reduce heavy traffic in the centre of Umeå via an increase in consolidated distribution.

The Goal

Reduce the targeted heavy traffic in the centre of Umeå by 350 vehicles per day.

HOW?

Describe the **advantages and challenges of consolidated distribution** in the city centre and propose **recommendations for change** and more effective solutions.

Assess the **environmental impact** of an increase in consolidated distribution.



Survey of...

Method

...SUPPLIERS

Number of clients and load size

Question directed to carriers/shipping agents:

How many times per day or week do your vehicles drive into the zone in question?

Results:

75 "entries" to the city centre per average weekday.

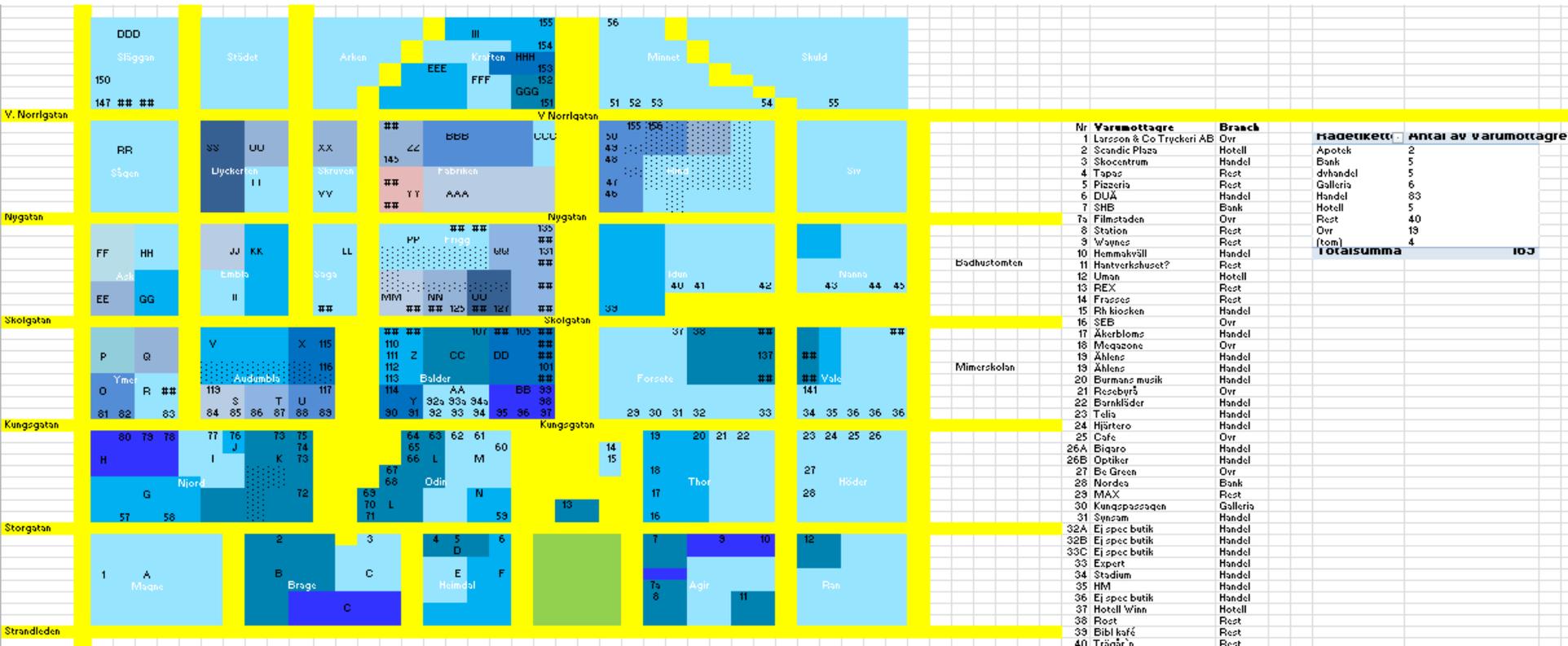


Survey of...

Method

...CLIENTS

Private or Purchased Transport



Nr	Varusmottagare	Bransch	Handeltkett	Antal av varusmottagare
1	Larsson & Co Tryckeri AB	Ovr	Apotek	2
2	Scandic Plaza	Hotell	Bank	5
3	Skocentrum	Handel	dvhandel	5
4	Tapas	Rest	Galleria	6
5	Pizzeria	Rest	Handel	83
6	DUA	Handel	Rest	5
7	SMB	Bank	Ovr	40
7a	Filmstaden	Rest	Ovr	19
8	Station	Rest	(tom)	4
9	Waynez	Rest		
10	Hammakväll	Handel		
11	Hantverkshuset?	Rest		
12	Uman	Hotell		
13	REX	Rest		
14	Frappes	Rest		
15	Rik biosken	Handel		
16	SEB	Ovr		
17	Åkerbloms	Handel		
18	Megaszone	Ovr		
19	Ählens	Handel		
19	Ählens	Handel		
20	Burmans musik	Handel		
21	Resceberis	Ovr		
22	Bankklöder	Handel		
23	Tells	Handel		
24	Hjärtero	Handel		
25	Cafe	Ovr		
26A	Bigaro	Handel		
26B	Optiker	Handel		
27	Be Green	Ovr		
28	Nordea	Bank		
29	MAX	Rest		
30	Kunagpassageen	Galleria		
31	Synsam	Handel		
32A	Ej spec butik	Handel		
32B	Ej spec butik	Handel		
33C	Ej spec butik	Handel		
33	Expert	Handel		
34	Stadium	Handel		
35	HM	Handel		
36	Ej spec butik	Handel		
37	Hotell Winn	Hotell		
38	Rest	Rest		
39	Bibi kafé	Rest		
40	Tränings	Rest		
			Totalsumma	103



Consolidated Transport

Advantages

- Stores are in very close proximity to each other.
- Large portion of stores are in shopping centres with shared delivery bays.
- Long transportation distances offer good planning possibilities.
- Many established, national chains – constant flow of goods.

Challenges

- Competition between carriers.
- Partial delivery completed, the vehicles are full at times during the day.
- Stringent control of arrival times.
- Suppliers with their own vehicles.
- Competition legislation?



Consolidated Transport

Assess environmental impact.....

75 "entries" to the city centre per average weekday.

Estimated nitrogen oxide emissions from **deliveries of goods to the city centre** at V Esplanaden.

Type	Amount per day	Emissions g/km	Emissions g/day	Portion of total	Portion per car
Heavy trucks	120	4.53	544	2.38%	0,020%
Light trucks	30	0.83	25	0.11%	0.004%
Total	150		569	2.48%	

Summary

Consolidated Transport

- Marginal effect on nitrogen oxide emissions.
- High degree of uncertainty as to whether or not the redistribution of volume will produce the desired effect because of the city's geography.
- The problem of unwanted traffic can be mitigated by physical obstacles and traffic regulations.



Conclusion Consolidated Transport

- No further actions related to the consolidated transport project at present.
Weigh the measures against what can be achieved
- Analyse the flow of goods at a municipal level in order to establish a clear picture both of the current situation and of the potential to become more efficient.
- Establish a reference group for goods-related questions with representatives from the municipality, the property owners and the carrier industry.
Increasingly important as the city grows and increases in density



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