Municipal co-distribution – to meet environmental demand and brings a shift in power of the supply chain

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To distinguish between;

The municipality as a traffic regulatory authority

The municipality as transport buyer and receiver of goods
Purchase of goods under the Public Procurement Act (EU)

Goods purchased with "free shipping"

Goods purchased with co-distribution

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Organizational innovation(s)

(1) Borlänge 1999
- Transport technological change through a freight consolidation center
- Separation of (1) goods and (2) transportation in procurement
- Derived from the transport industry business model

(2) Växjö 2010
- Integration with e-commerce and the SFTI-standard of the public sector
- Increased competition due to a segmented procurement process
- In 2011 establishing a SFTI-standard for co-distribution of goods

(3) Ystad-Österlen 2013
- Logistics are taken over by the municipality “in-house”
- Route optimization is used in preparation of tender documents
- Payment is executed with reverse billing and vehicle monitoring
The innovation(s)

(1) Borlänge 1999
- Transport technological change through a freight consolidation center
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Driving force;
- Focus on environmental impact (Swedish Road Administration)

- Focus on local production of groceries - food served in schools and elderly care

- **No** focus on economy with the assumption that reduced price would pay for the FCC and vehicles (“zero-sum game”)
The innovation(s)

(2) Växjö 2010
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- In 2011 establishing a SFTI-standard for co-distribution of goods

Driving force;
- SFTI-initiative by Swedish Association of Local Authorities and Regions
- Integration of functions that support co-distribution

- Focus under the Public Procurement Act to break an oligopoly situation on the supply side
- Focus on suppliers and increased competition to reach SME-bidders
The innovation(s)

(3) Ystad-Österlen 2013
- Logistics are taken over by the municipality “in-house”
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Driving force;
- Save working hours by integrating incoming goods with workforce scheduling
- Cost reduction by lower prices and control of taxpayers money
26,245 deliveries per year by the business model free shipping

80% in reduced environmental impact

< 6,000 deliveries per year by the business model co-distribution
Reversed billing based on real time reports

Procurement with conventional business model “fixed price per stop”

“Resource optimized procurement model” based on hours worked and VKT

Reverse billing = reversed in the sense that the transport buyer specify what to be invoiced

Vehicle monitoring
A Paradigm shift in behaviour

Probably YES !!!

100 000+ municipalities with logistics “in-house” the Ystad-Österlenmodell; Västerås, Borås, Norrköping, Örebro

Others have just adopted co-distribution or the Borlänge model; Lund, Jönköping

60-70 municipalities are reviewing or have made a decision of co-distribution; Aprox. 25 percent of Sweden's municipalities
Next step in shift in behaviour

Sweden has 20 county councils, closely watching how municipalities will increase transportation efficiency

- County councils have "in-house" third-party logistics
- Generically can be applied to a purchaser-provider model

A new procurement model with reverse billing (replacing RFI/RFQ) is tested by shippers in private enterprise
Next step in shift in behaviour

An overarching hypothesis represents an emerging shift in power of the transport supply chain from transporter to transport buyer

However, this implies a significant impact on organization and changing roles of stakeholders

Organizational innovation
Co-distribution of Municipal Goods in Sweden - Procurement from a New Standpoint

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Thank you