Finland State of Logistics 2009 Survey

With 2,705 responses it is the largest survey material of its kind in the World

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Finland State of Logistics 2009

• Fifth national logistics survey in Finland

• Commissioned by the Ministry of Transport and Communications Finland

• Data collection in October-December 2008

• In co-operation with the Finnish industry associations, like:
  – The Finnish Association of Purchasing and Logistics (LOGY);
  – Federation of Finnish Entrepreneurs (SY);
  – Finnish Transport and Logistics Association (SKAL); and
  – Chambers of Commerce around the country.
Value added and transport performance vary a lot by Finnish industries; data for 2007 in prices of year 2002

Finland State of Logistics, Ojala et al. 2009
Transport intensity observations: Finland

• By 2007, industrial transport intensity was less than half of that in the mid-1990s.

• In 1995-1996, 1.4 ton-km was required for one euro increment of value added (VA; adjusted to the monetary value in 2002).

• On average, 0.6 ton-km was required in 2007 for a similar VA.

• Technology industry required only 0.1 ton-km for 1 € VA in 2007.

Source: Finland State of Logistics 2009, pp. 50-51
Transport intensity Finland vs. CIS countries

http://www.unece.org/env/europe/monitoring/EECCA_CSI/EECCA%20CSI%20Eng/EECCA%20CSI%2030_freight%20transport%20demand_eng.doc
Finland State of Logistics 2009…

• Total 2,705 respondents from manufacturing and construction, trading and logistics service providers
  – The World’s largest database of its kind
  – Finland State of Logistics 2006 had 2,255 respondents
  – Respondent profile very similar in both surveys

• All respondents receive a personalized feedback report

• Reports (2006 and 2009) published in Finnish and English
  Full reports available in English (public domain):
Survey data from 2005 and 2008 collected during very different circumstances

Source: JPMorgan Global PMI 2000 - 2008 (Institute for Supply Management)

Finland State of Logistics, Ojala et al. 2009
Survey themes

• The significance of logistics in corporate decision making
• Level of firms’ logistics costs, and their future development
• KPIs e.g. cash to cash cycle time, perfect order fulfillment rate
• Demand of logistics services and logistics outsourcing
• External threats to business
• The most important logistics development needs
• Operating preconditions in firms’ geographic location
Finland State of Logistics 2009 respondents by main industry

- Manufacturing and Construction: 996
- Wholesale and retail trade: 794
- Logistics service providers: 915

Finland State of Logistics, Ojala et al. 2009
Finland State of Logistics 2009, respondents by company size (turnover)

- **Micro** = turnover <2 million €
- **Small** = 2-10 million €
- **Medium** = 10-50 million €
- **Large** = >50 million €

![Bar chart showing the number of respondents by company size](chart.png)
Key findings on logistics

- Logistics is essential to the competitiveness of especially medium sized and large companies.

- Lack of demand and rising costs are the most serious threats to business of Finnish manufacturing and trading companies.

- Enhancing customer service and cutting costs are the most important development needs in manufacturing and trading as well as in logistics service provision.

- Differences in operating preconditions between southern parts of Finland and the rest of the country have grown.
Logistics is an important source of competitive advantage for large and medium-sized firms (N=329)

- Logistics has an impact on... Customer service level
- Logistics has an impact on... Impact on profitability
- Logistics is ...Source of competitive advantage
- Logistics is ...Top management priority

22.5.2009
Finland State of Logistics, Ojala et al. 2009
Key findings on logistics costs

• Logistics costs on average 14.2% of turnover.
  – The cost level has risen since 2005.

• The share of transportation costs has increased, internal efficiency of the companies has improved

• No consensus nor binding conventions on how to define logistics costs exists neither on firm level nor on macro level.

• Therefore the concept remains elusive.
Finnish firms’ logistics costs on average 14.2% of turnover, transport costs increased; internal ones decreased

N= 1,291

- Other logistics costs
- Transport packing costs
- Logistics administration costs
- Inventory carrying costs
- Warehousing costs
- Transportation costs

Manufacturing and trading firms, weighted by industry and firm size according to national statistics

22.5.2009
Finland State of Logistics, Ojala et al. 2009
Comparative logistics cost indications from the Baltic Sea Region in 2006-2007, N = 574

Firm size matters, but the 2005 pattern is almost reversed: now largest firms had the highest logistics cost share of all.

Finnish manufacturing firms’ logistics costs as % of turnover in 2008, N = 780

Finland State of Logistics, Ojala et al. 2009
Logistics cost levels also affected by type of industry, % of turnover in 2008, N = 780
Key findings on macro level logistics costs

• Logistics costs related to Finnish GDP 19%*) in 2008, which seems high internationally, but comparisons are difficult
  – GDP of Finland 186.2 billion € in 2008, population 5.2 million

• Data was aggregated from micro level survey data

• Data includes firms’ logistics costs also outside Finland

• This method may also duplicate costs, unlike when using data from National Accounts, such as in:
  – U.S. State of Logistics Reports®
  – Swedish study in 2008: Svensk makrologistik
Logistics costs in Sweden and in USA as a share of GDP, calculated from national accounting statistics 1997-2005


Finland State of Logistics, Ojala et al. 2009
## Logistics costs of Finnish firms in a time series
### Total costs in 2008 prices

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<tbody>
<tr>
<td>Logistics costs in manufacturing and trading</td>
<td>20.4 bn.€</td>
<td>16.4 bn.€</td>
<td>20.9 bn.€</td>
<td>28.2 bn.€</td>
<td>34.7 bn.€</td>
</tr>
<tr>
<td>Logistics costs as percentages of turnover</td>
<td>11.0 %</td>
<td>10.3 %</td>
<td>10.2 %</td>
<td>11.5 %</td>
<td>12.3 %</td>
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<tr>
<td>Transportation costs as percentages of turnover</td>
<td>4.8 %</td>
<td>4.7 %</td>
<td>4.5 %</td>
<td>5.0 %</td>
<td>6.3 %</td>
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<tr>
<td>Logistics costs as percentages of GDP</td>
<td>17-18%</td>
<td>14-15%</td>
<td>14-15%</td>
<td>17%</td>
<td>19%</td>
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= using the same cost concept as in the 1990’s for comparability

Finland State of Logistics, Ojala et al. 2009
Estimates on the development of logistics cost components until 2013, N = 1,654

- Warehousing costs
- Transportation costs
- Logistics administration costs
- Inventory carrying costs
- Transport packaging costs
- Other logistics costs

Manufacturing and construction

Wholesale and retail trade
Finnish firms’ KPI:s on good level, among the trading companies even excellent

Top 20% of respondents with negative cash-to-cash cycle time

22.5.2009
Finland State of Logistics, Ojala et al. 2009
Future demand of logistics services on logistics information related services, N=2,408

Manufacturing and trade

- Domestic transportation
- International transportation
- Reverse logistics
- Freight forwarding
- Order processing
- Invoicing
- Warehousing
- Inventory management
- Product customisation
- Logistics information systems
- 3./4. PL logistics services

Logistics service providers

- Domestic transportation
- International transportation
- Reverse logistics
- Freight forwarding
- Order processing
- Invoicing
- Warehousing
- Inventory management
- Product customisation
- Logistics information systems
- 3./4. PL logistics services

Will grow
Remains the same
Will diminish

22.5.2009
Finland State of Logistics, Ojala et al. 2009
The differences in operating preconditions between southern parts of Finland and the rest of the country have increased.

Example (N = 825):
Logistics service providers, 2008 compared to 2005,

→ The no. of respondents saying "good" or "very good"

> 55 % of population
> 70 % of GDP
Decrease in demand and increasing costs are the largest threats to business

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<thead>
<tr>
<th>Decrease in demand</th>
<th>Increasing costs</th>
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<td>Availability of competent staff</td>
<td>Tightening competition</td>
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<td>Availability of competent staff</td>
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<th>Cutting costs</th>
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<tr>
<td>Extending range of Service offerings</td>
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<td>Developing agent network</td>
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<td>Improving customer service</td>
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<td>Improving customer service</td>
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<td>Increasing supply accuracy</td>
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<td>Increasing supply chain visibility</td>
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<th>Logistics service providers</th>
<th>Manufacturing, Construction and Trading</th>
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The full report in English is available as Publication 21/2009 (and the earlier one as 45/2006) at the website of the Ministry of Transport and Communications Finland:

www.lvm.fi

If the link is unavailable, enter the report title ”Finland State of Logistics 2009” or ”Finland State of Logistics 2006” in your web browser