

Strategic alliances and supplier associations in a Lean supply chain - Master Thesis

Nis Gjendal and Søren Stissing







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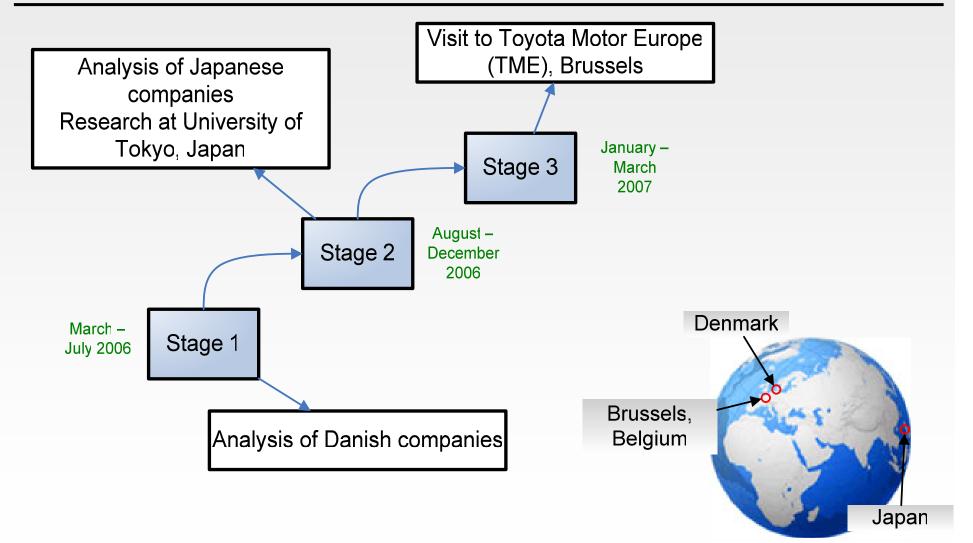
Agenda

- Introduction
- Fieldwork
- The procedure
- Comparing Japan and Denmark
- Conclusions





Time frame

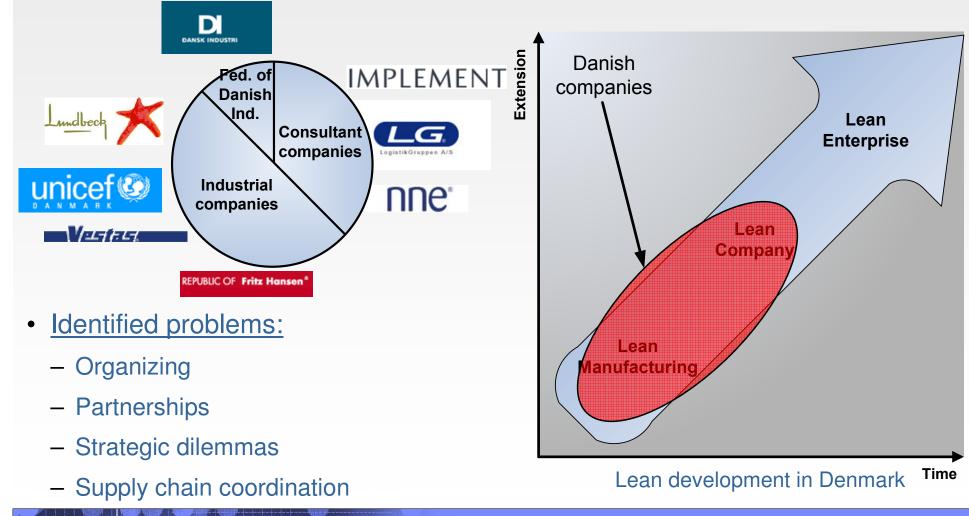






Present situation in Denmark

Participating Danish companies:



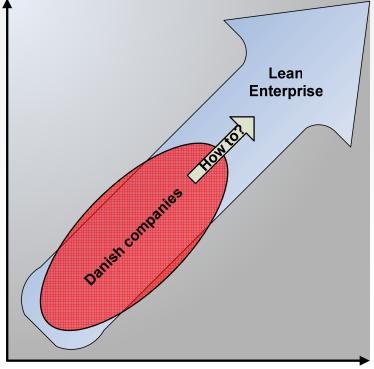
Strategic alliances and supplier associations in a Lean supply chain





Problem objective

- <u>Objective:</u>
 - "With Japanese companies as a starting point especially Toyota an analysis will be conducted with the purpose to set up a procedure for Danish companies to follow when entering a strategic alliance / supplier association in a Lean supply chain"
- <u>Reasons:</u>
 - Not a question of what needs to be done, more how to do it?
 - Not much written about it
 - We believe that Danish companies will face this challenge in the years to come

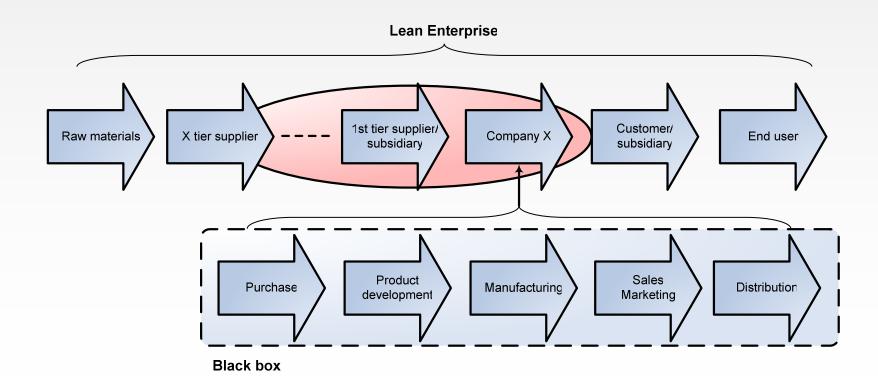






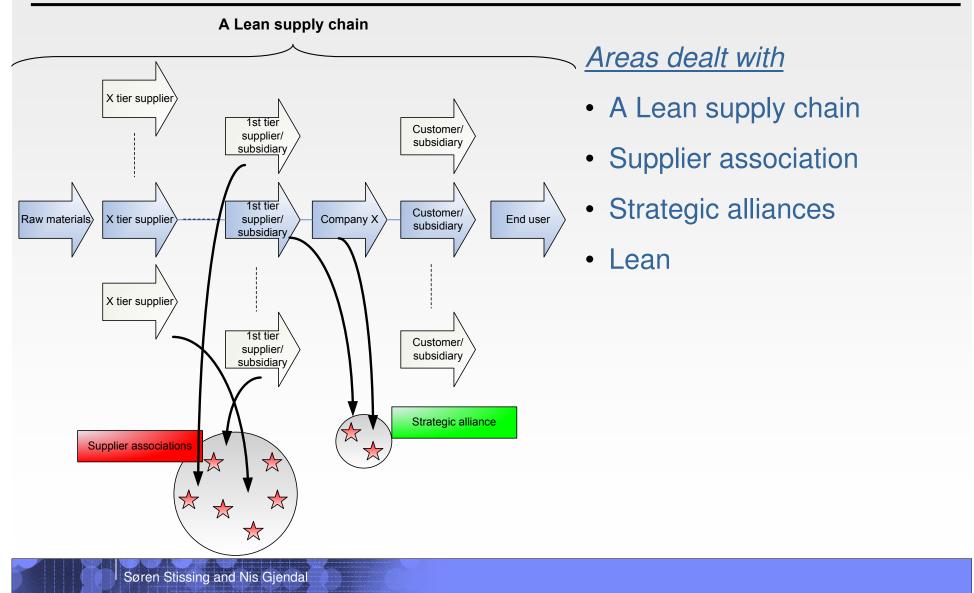
Focus

- Mainly up stream focal company and the supplier
 - Internal supply chain seen as a "black box"





Literature studies

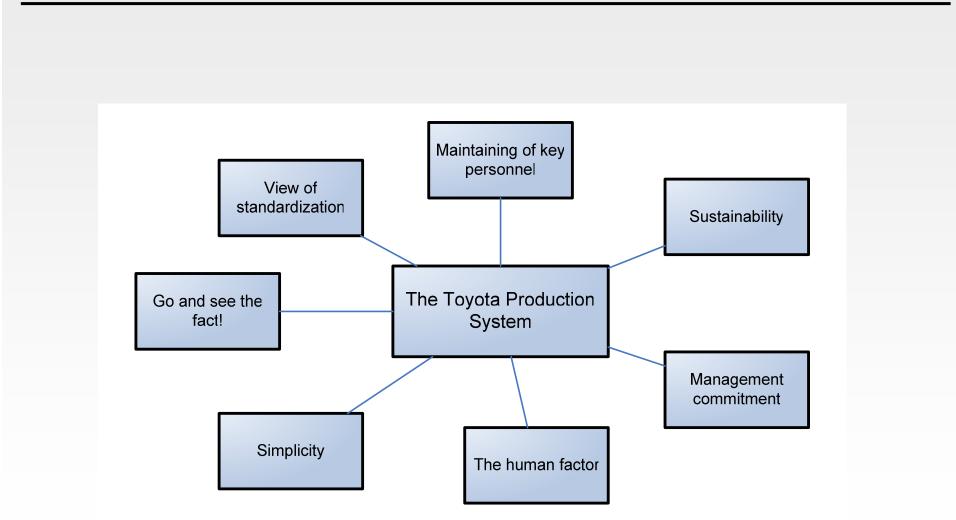




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TPS elements







"If you have a problem, go and see it. If you do not have problems it is simply because they are hidden!" – Mr. Ballard (TME)

> "We make a budget each year for the travel expenses. We know it is going to be exceeded but we do not care – go-see-the-fact takes what it takes" – Mr. Shah (TME)

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OTICS







TPS elements – Standardisation

- The basis for improving
- Important element in the problem solving method

"One cannot increase quality without standardizing – it is the fundamental idea of kaizen, a necessity to become better" – Mr. Miura (TMC)

A Danish comment

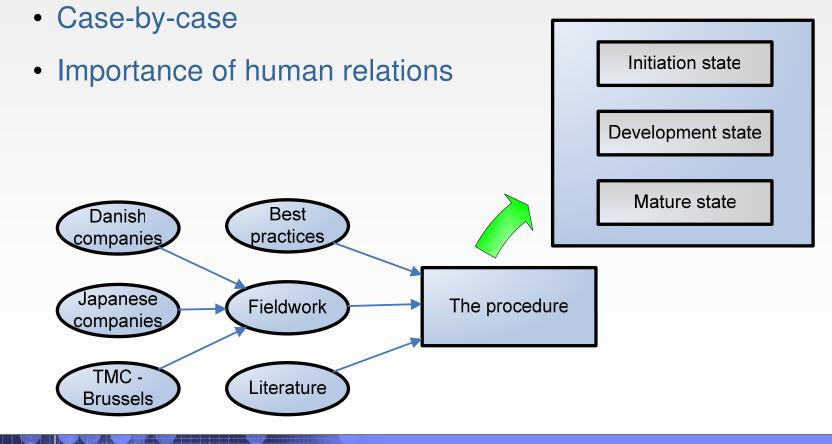
"Standardization is in conflict with the fact that employees are given the power to work independently in teams" – Participating Danish company





Further conclusions from fieldwork

• Combining fieldwork, literature studies and best practices

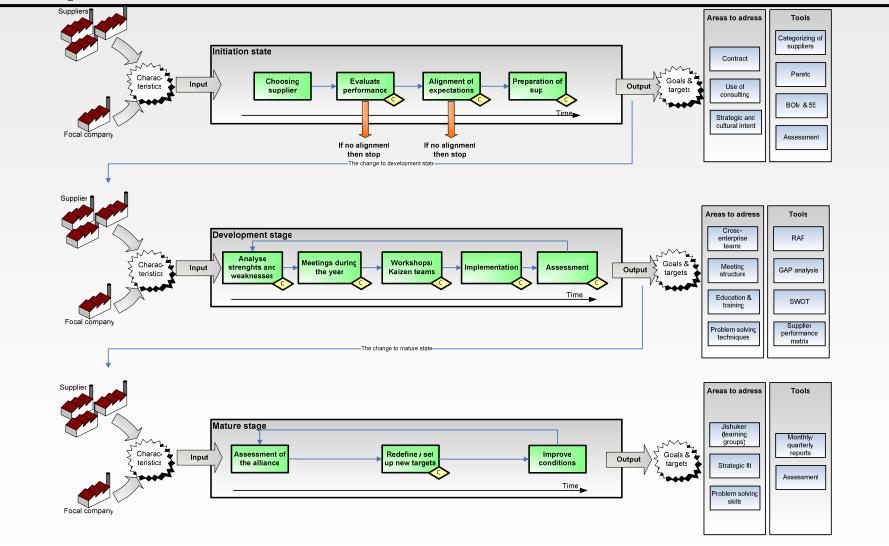




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The procedure

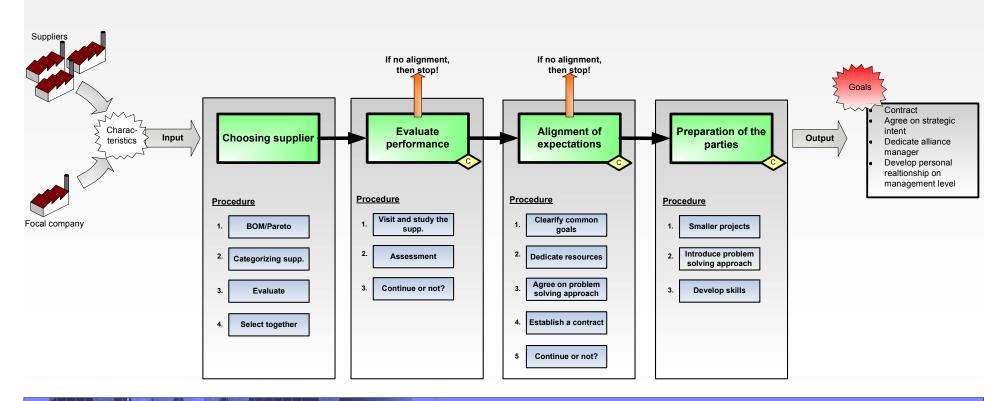


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The procedure (2)

- A dynamic process
 - Structured approach kept on a operational level



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Critical areas

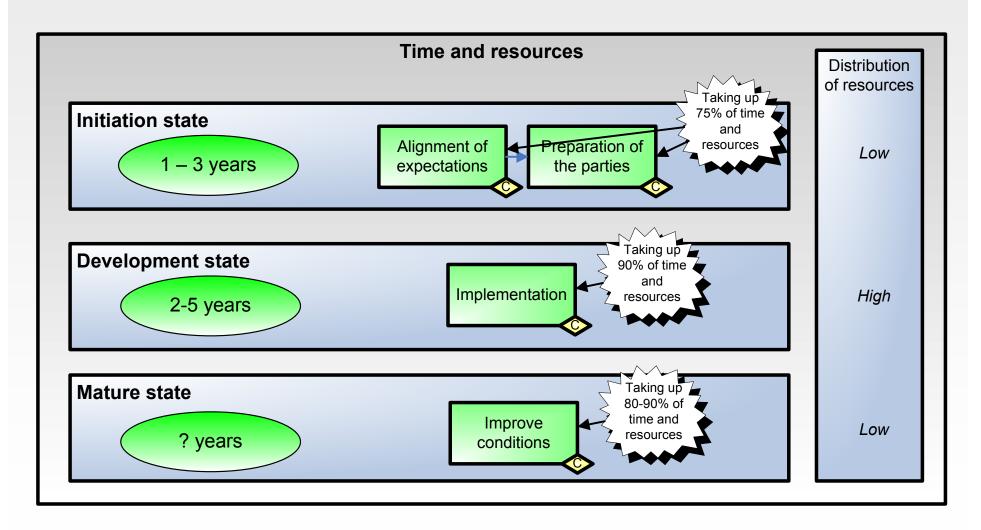
 Draw attention to critical areas and tools and their development over time

	Initiation state	Development state	Mature state
Strategic fit	High	High	High
Contract	High	Medium	Low
Cross- enterprise teams	Low	High	Medium
Problem solv- ing techniques	Low	High	High
Education & training	Low	High	Medium
Sharing of knowledge	Low	High	High
Sharing of success	Low	High	High
Consulting	Medium	High	Low





Resources & time







Comparing Japan and Denmark

Myths and perceptions

- 1. Too big difference in culture
- 2. The Japanese employees work as machines, harder and longer and do not mind standards.

Opinion: It will not work in Denmark!

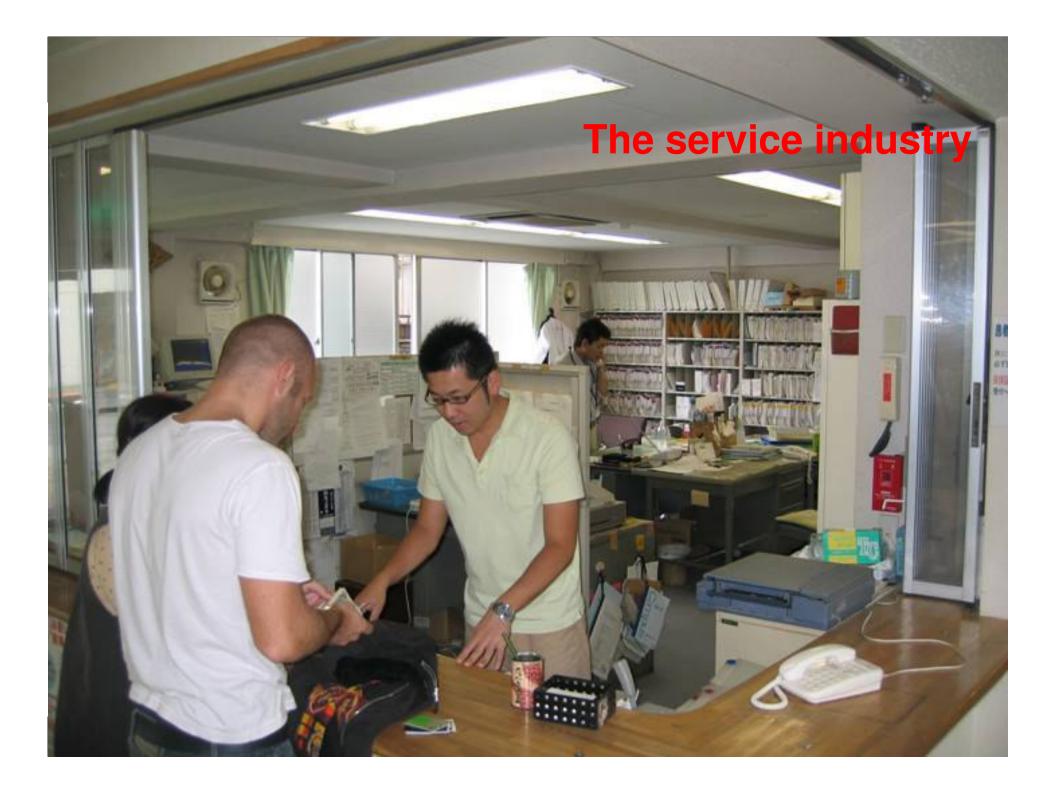




The industry

- Similar structure in the industry many SMEs
- High level of technology in both countries
- High employee productivity in both countries

Dimension	Japan	Denmark
Economical		
Service	69%	75%
• Industry	24%	20%
Agriculture	7%	5%
• GDP (per	US\$ 28.000	US\$ 29.000
inhabitant)		
Employment by size of		
manufacturing		
enterprises (number of		
employees)		
Less than 10	50,9%	71,4%
• 10-19	22,7%	11,7%
• 20-49	16,5%	9,4%
• 50-249	8,5%	6,0%
• 249+	1,4%	1,5%









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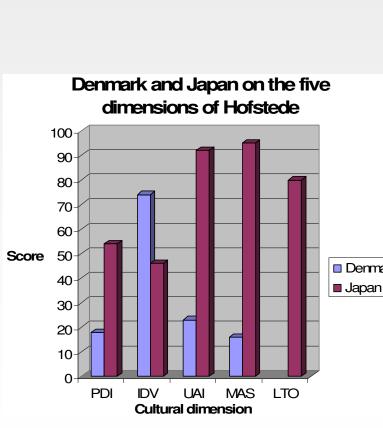
• Thinking improvements is not natural! DTU

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National culture



Differences do exist

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Japanese advantages

- Working with standards is natural but difficult to work outside them
- Low degree of job-shopping high job security
- Importance of human relations in a group
- Dermark Long term view

Danish advantages

- Independent, innovative and self thinking people
- Dialogue and agreements in the workplace





Culture - conclusions

- What matters is the framework set up by the business not the culture!
- The working day at Toyota is like the Danish: 8 hrs and max. 45 min of overtime
- Continuous improvements is not rooted in the Japanese culture. They have just been good at adopting it from the US
- But it is also important to take differences into account

Danish characteristics to overcome

- Based on short term focus
- Afraid of being dependent and exposed as a supplier
- Less use of facts
- Difficulties with maintaining key personnel - a lot of job shopping
- Mostly focusing on price in purchasing







When there is a need – there is a way







Toyota Motor Europe - Brussels

• TME

- Struggling with the same characteristics
 - Job shopping, short term view,
 - Unique possibility to verify the results
- Conclusion
 - TME accepts this it is about minimizing the problem
 - Danish companies should do the same
- Important message
 - Be aware of what you are up against!



Overcomming the Danish characteristics

• Education

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- "Free" consultancy
- Negotiate contract on a yearly basis to begin with
- The focal company should be the good example information sharing and present problems from their point of view
- Use key *teams* instead of key *individuals*
- Training in going-and-seeing-the-fact
- Create valuable jobs new challenges will arise with strategic alliances





Recommendations

- Demanding process
 - Realize what it takes! (Pitfall nr. 1)
 - Management commitment
 - Investment of time and resources
 - "Go see the facts"
 - Change attitude build decisions on facts instead of suppositions

"Normally in Europe, the top management does not like too see the production. They like to see the computer – Mr. Miura (TMC)



Recommendations (2)

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- Organizational changes

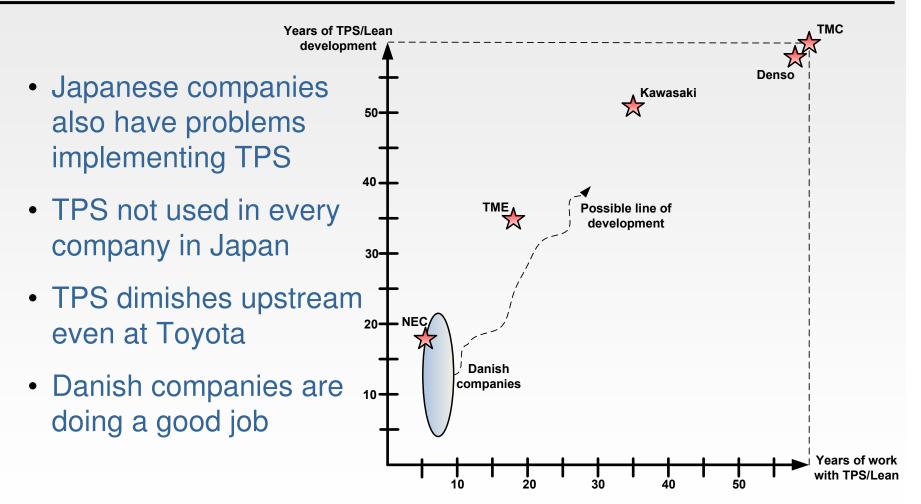
- New role in the purchase department
 - Choosing suppliers and work with them
 - Assessment performance and soft values
 - Long term view
- Establish internal consultant function
 - Credible and skilled people
 - Must have power to execute changes
 - Educate and support

"I cannot justify my pay check on a daily basis, but in the long run our department shows the necessarily results" – Mr. Ballard (TME)



How is Denmark doing?

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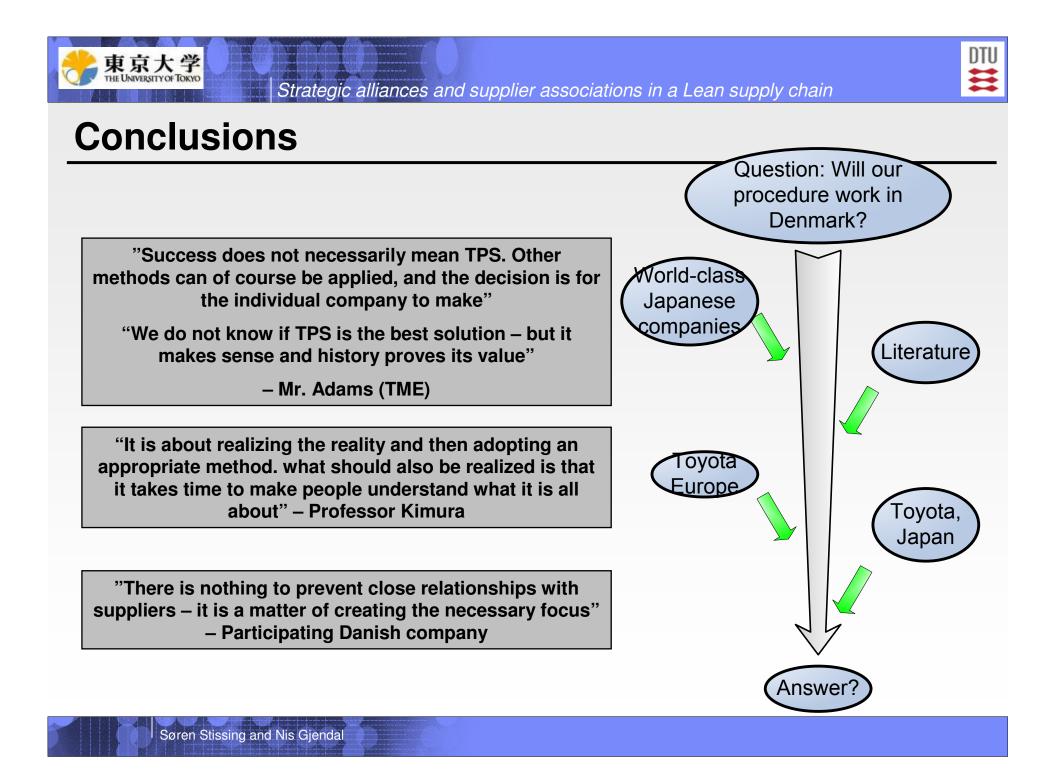






Critisicm

- Work done on an overall level
- There are other ways than Lean
- The procedure has not been tested
- Implementation issues not dealt with
- Differences in organizational behaviour not dealt with







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