

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

Nis Gjendal and Søren Stissing







DTU

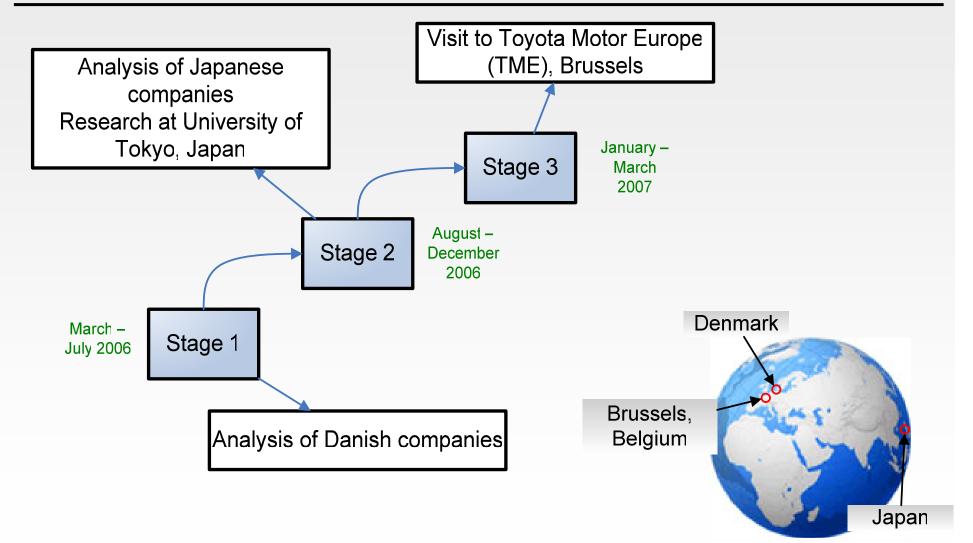
Agenda

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





Time frame

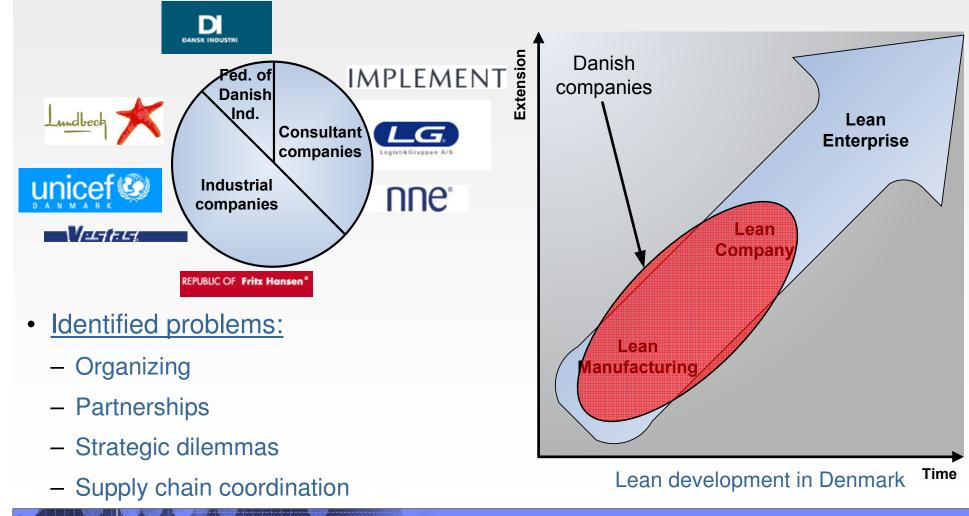






Present situation in Denmark

Participating Danish companies:



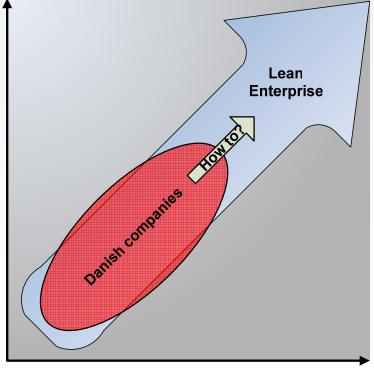
Strategic alliances and supplier associations in a Lean supply chain





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

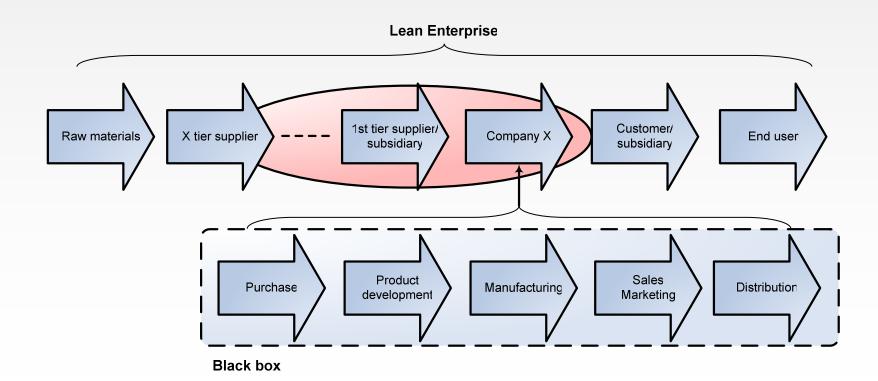






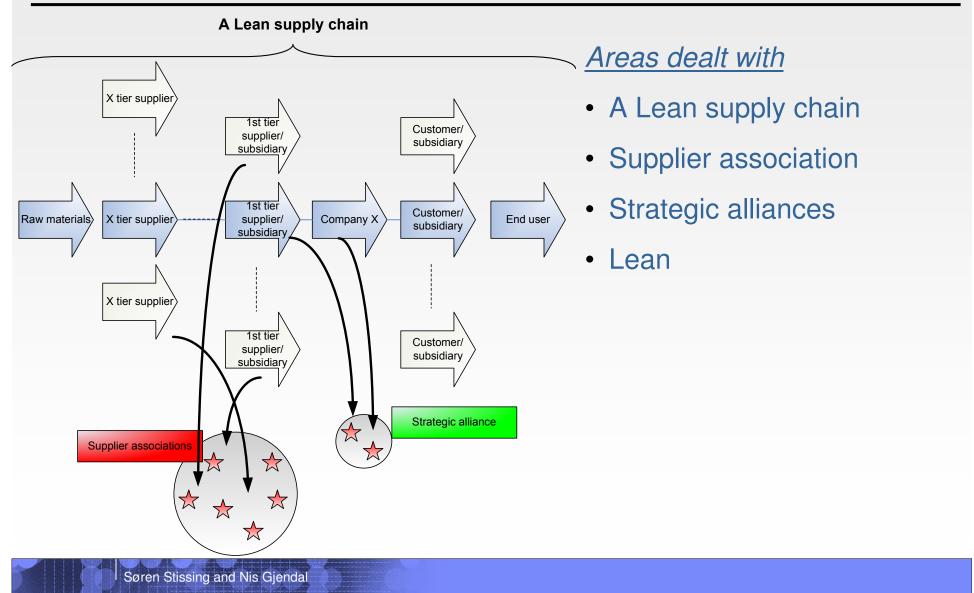
Focus

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





Literature studies

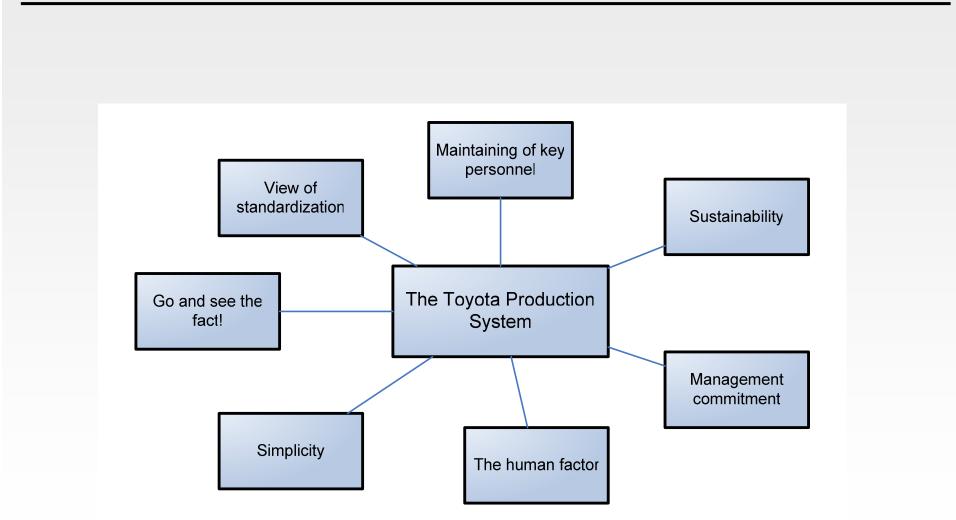




DTU

=

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)

70101

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

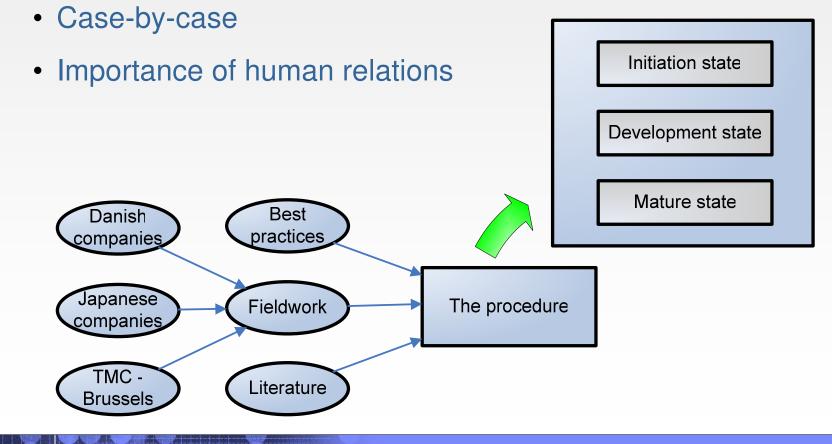
"Standardization is in conflict with the fact that employees are given the power to work independently in teams" – Participating Danish company





Further conclusions from fieldwork

• Combining fieldwork, literature studies and best practices

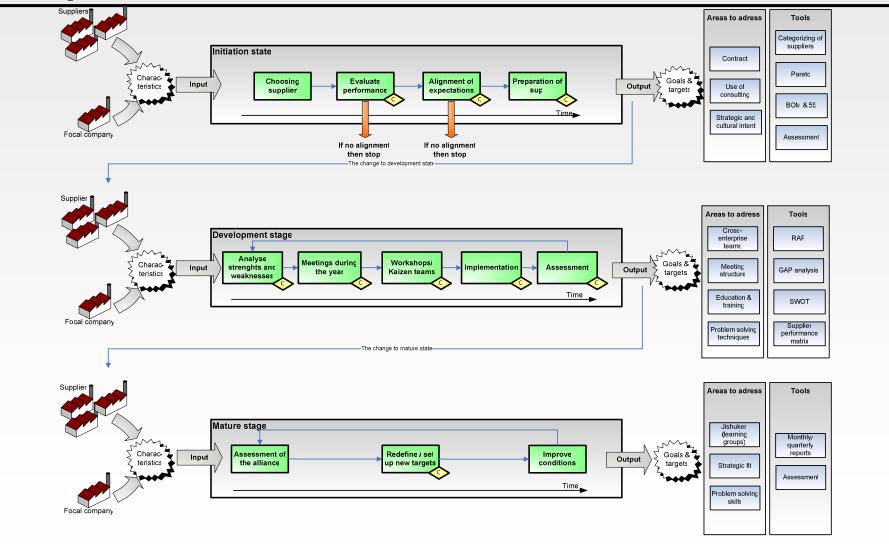




DTU

Copyright ©

The procedure

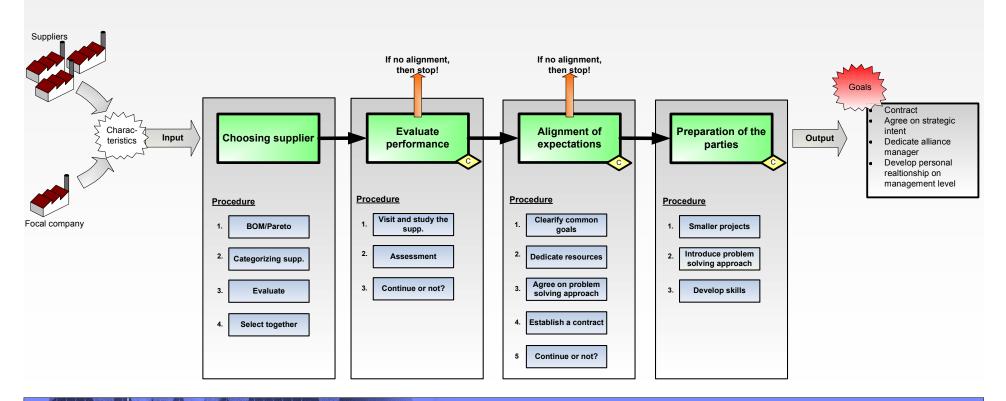


Søren Stissing and Nis Gjendal



The procedure (2)

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



Strategic alliances and supplier associations in a Lean supply chain



Critical areas

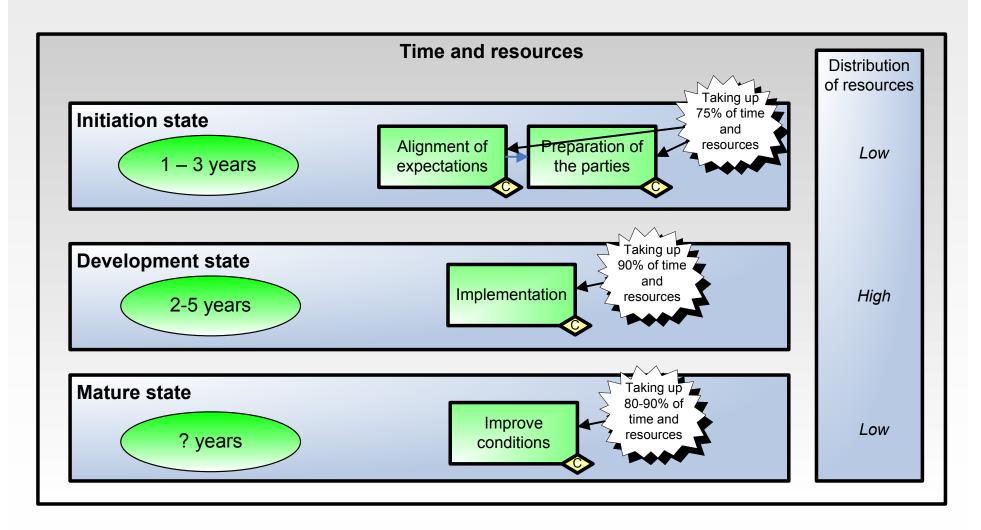
 Draw attention to critical areas and tools and their development over time

	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%









Strategic alliances and supplier associations in a Lean supply chain



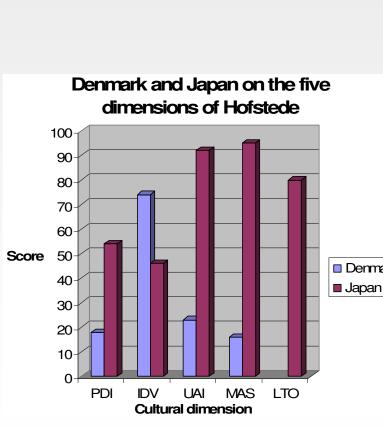
• Thinking improvements is not natural! DTU

=

Søren Stissing and Nis Gjendal



National culture



Differences do exist

Strategic alliances and supplier associations in a Lean supply chain

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

東京大字

- "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)

東京大学

- Organizational changes

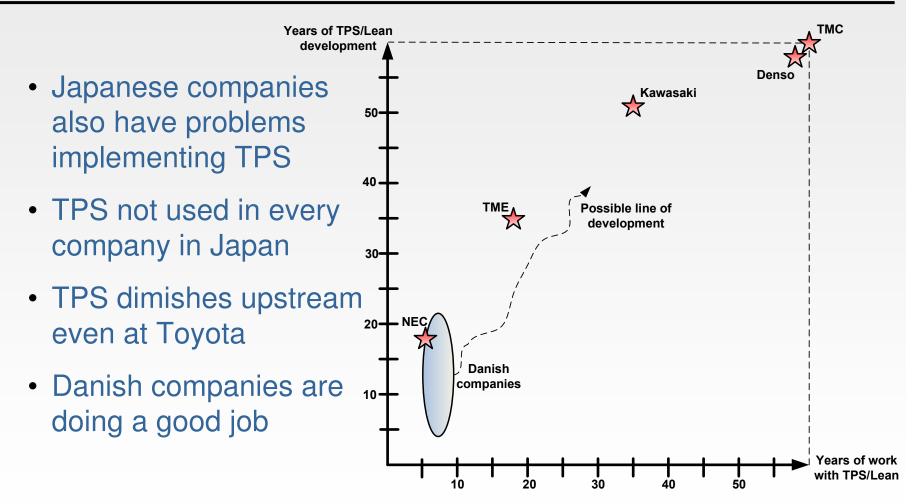
- New role in the purchase department
 - Choosing suppliers and work with them
 - Assessment performance and soft values
 - Long term view
- Establish internal consultant function
 - Credible and skilled people
 - Must have power to execute changes
 - Educate and support

"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?

東京大学



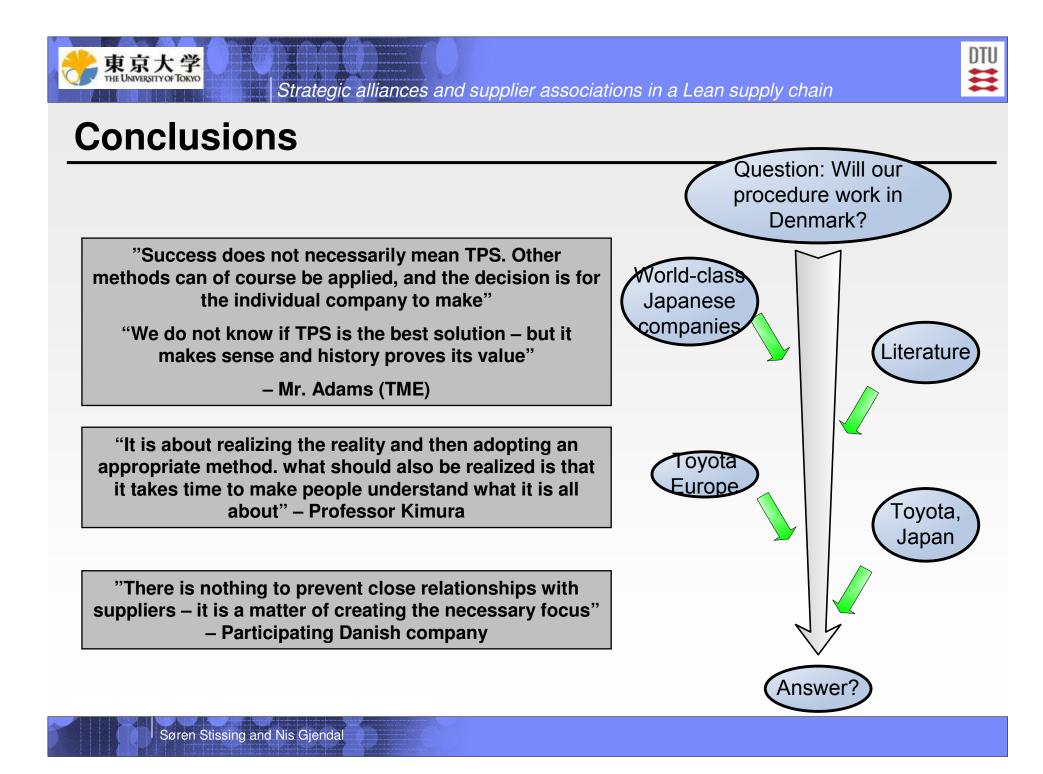






Critisicm

- 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







DTU

=



