

Betina Simonsen, CEO, Lifestyle & Design Cluster, Project Manager for SYLAB project

- Vi er altid fokuseret på de muligheder og udfordringer, som virksomhederne står overfor. Vi kan høre, at især små virksomheder har behov for adgang til mere fleksible produktionssteder der er tættere på. Samtidig efterspørger forbrugerne i stigende grad unikke produkter fra små kollektioner, så alt peger på, at der er et marked for igen at producere tøj og tekstil i Danmark. I første omgang får 10 iværksættere daglig adgang til SYLABs nye teknologi og andre produktionsfaciliteter hos tekstilvirksomheden Claire i Ikast derudover er vi åben for at andre mindre virksomheder får adgang til at få syet kollektions-prøver, små ordre og/eller specialproduktioner, som på sigt skal skabe endnu flere arbejdspladser.

Nikolaj Hust, Marketing Director at Claire Group A/S where SYLAB is placed

- Vi oplever selv som en mellemstor dansk mode virksomhed, ind i mellem problemer med at opnå minimumskvantiteter på vores produktionssteder i Fjernøsten. Med SYLAB lige ude for døren giver det ikke kun adgang til fleksibilitet, men også inspiration og samarbejde med de mange nye opkommende talenter, som vi håber at kunne hjælpe

på vej med at opnå succes. Netop opkommende talenter har det rigtig svært i modebranchen, hvor det er svært at få adgang til produktionsfaciliteter og ressourcer til at rejse langt for at få udviklet sine kollektionsprøver.

Tomas Kulvicius, Assistant Professor, the Maersk Mc-Kinney Moller Institute, SDU

- The project will be groundbreaking through its use of robotics and new production processes to automatise the sewing of textiles. Access to the benefits of using robotics for things like monotonous repetitive work which otherwise previously was carried out by expensive manual labour, will be fundamental for a different type of seamstress job than previously. The project's research challenges lie in handling fabric, which in contrast to classic automation, is a flexible and soft material.

The long term ambition is to create dynamic models of how different fabrics behave in response to manipulation actions and use this knowledge for development of algorithms for automated handling of materials during different stages of sewing processes. We believe that the out-come of the SYLAB-project will contribute not only to automation of sewing processes but also to other manufacturing processes where handling of soft materials is a crucial part.

Project partners:



Grant provider:



SYLAB

Fashion and textile production in Denmark



Picture: Dürkopp-Adler

Workshop 25th May 2016:
INDUSTRIAL SEWING AUTOMATION

Advancing the Danish fashion and textile industry through automation solutions

Workshop: Industrial Sewing Automation

The SYLAB-project is delighted to host this focused workshop on how the use of robotics and new production processes can advance and bring back part of the textile industry to Danish production.

What automation solutions are already in use in the industry, and how effective are they? And which solutions or processes do we need to develop in order to advance the textile industry in Denmark even further?

PROGRAMME

- 13.00 - 13.10: Welcome
Betina Simonsen, CEO - Lifestyle & Design Cluster
- 13.10 - 13.50: State-of-the-art in industrial sewing automation
Tomas Kulvicius, Assistant Professor,
University of Southern Denmark
- 13.50 - 14.20: Reflections on automatisisation of curtain and upholstery production.
Lis Bilde, CEO, Gardinlis (presentation in Danish)
- 14.20 - 14.35: Coffee break
- 14.35 - 15.05: Robotic Sewing Lab - Norway
Johannes Schrimpf, M.Sc, SINTEF
- 15.05 - 15.35: Coffee break & tour in SYLAB
- 15.35 - 16.25: Roundtable discussions
Future technologies and research trends in relation to automated sewing - identifying potential collaborations
- 16.25 - 16.45: Summary
What have we learned and which way do we need to go to advance automation in the textile industry?
Tomas Kulvicius, Assistant Professor, the Maersk Mc-Kinney Moller Institute, SDU & Betina Simonsen, CEO, Lifestyle & Design Cluster.

The workshop will be held at Claire Group A/S, Marsvej 6, DK-7430 Ikast. The workshop will be held in English.

Please visit RoboCluster's website for further information on the workshop and to sign up for the event: <http://robocluster.dk>

SYLAB

Fashion and textile production in Denmark

SYLAB is an experimental lab.

The vision is to create potential for advancement for the industrial sewing production in Denmark via optimisation of processes and automatisisation.

The goal is to enable successful handling of various production orders and collections without public funding after a three-year development period.

The background for SYLAB is the large-scale outsourcing of the textile industry from Denmark to low-wage countries in the 1990's. Denmark lost approximately 20.000 jobs during this process.

Content and work packages:

Denmark already has a strong name worldwide in the fashion and textile industry. SYLAB will be an innovative hub in the industry providing knowledge sharing, experimental testing of new technologies, integration of sewing robots and optimisation of processes in the production line.

Work Package 1 (WP 1):

10 entrepreneurs will be selected and offered a scholarship that will give them access to the experimental lab, SYLAB, and the use of its facilities for a year.

Work Package 2 (WP 2):

The purpose of WP 2 is to conduct business visits and convene further knowledge for future initiatives that—like SYLAB—can generate inspiration and more efficient processes.

Work Package (WP 3):

What is possible? Through measuring efficiency, process optimisation and practical know-how SYLAB will research the pros and cons, as well as the level of resources spent, in the automation of industrial sewing. The results will be included in any future applications for further funding.

Work Package (WP 4):

Businesses and researchers will come together for a total of two workshops. During these it will be explored which solutions that are already in use in the industry, and what solutions should be further developed to improve production.