

Smart Lean – next generation technologies and how they can improve Lean practices in manufacturing

NTNU, Trondheim, 26 June 2019



Lean European Action-learning Network utilizing Industry 4.0

∰ Start: 01-01-2019 - End: 31-12-2021

Project Reference: 601227-EPP-1-2018-1-NO-EPPKA2-KA

EU Grant: 999940 EUR

Programme: **Erasmus+**

Key Action: Cooperation for innovation and the exchange of good practices

Action Type: Knowledge Alliances for higher education





Speakers



Erlend Alfnes



Fabio Sgarbossa



Jannes Slomp



Holger Klus



Menno Herkes



Daryl Powell



Agenda

08:30-09:00 09:00-09:30 Coffee break	Welcome and introduction to the Lean 4.0 project - Erlend Alfnes The Logistics 4.0 lab and new opportunities for Lean - Fabio Sgarbossa
09:45-10:15	Lean planning and control in customised manufacturing – history and digital future - Jannes Slomp
10:15-10:30	Manufacturing Execution Systems and Digitalization at Rosen GmbH - Holger Klus
Coffee break	
10:45-11:15	How can smart and Lean improve operations in manufacturing - Menno Herkes
11:15-11:45	Lean and digitalisation at Kongsberg Maritime - Daryl Powell
Lunch	
12:45-14:00	Logistics 4.0 laboratory tour
14:00-14:30	Closure 4.0 discussion



Logistics 4.0 Laboratory tour





Smart Logistics

Integrate
innovative manufacturing
technologies
with
innovative production planning &
control methods and simulation







Indoor positioning systems, Motion capture systems, Augmented and Immersive Reality, Visual interactive boards, Real time control.....



Closure 4.0 discussion at 14:00 in VG11



Which technology from the Logistics lab would you like to implement?

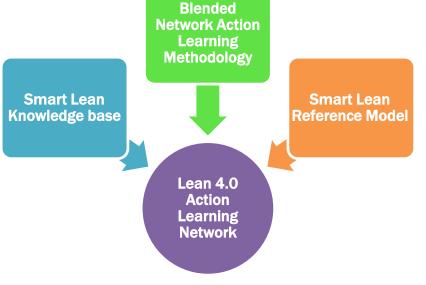
1st	Motion Capture System
2nd	Indoor-positioning System
3rd	Augmented and Viritual Reality
4th	Mobile Robots
5th	Smart Workstations
6th	Smart Objects
7th	3D Mapping

LEAN 4.

Will educate the operations managers of the future



































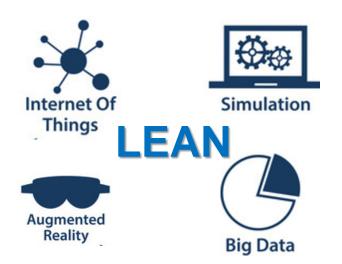


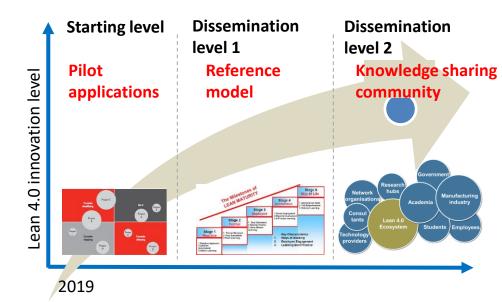
Learning "Home and Away" - "Physical and Virtual"



Action
(laboratories, factories)

Systematic development of Lean 4.0 driven by pilot projects













Join us!



Dissemination both local and EU level.

Engage with industry and academia through the project cycle









Communication through social media and dissemination in the networks of the partners











Seminars Webinars Videos Cases and best practises Training materials Articles



