Ship Intelligence

Sauli Eloranta
Head of Innovation & Technology, Rolls-Royce Marine

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Digitalization – Disruptive Change

Internet of Things

Industry 4.0

Big Data

eBay

airbnb

mamondo

UBER

Tesla

Amazon

Spotify

Rolls-Royce
Digitalization in Marine Market

Operation:
- Production Chain
- Integrated part of customer business

Management:
- Total Awareness
- Asset Management
  - Health and Performance

Business:
- New Players
- Digital Alliance
- Consolidation
  - Large Companies

Construction:
- Standard Systems
- Shipyard Consolidation
- System Integrator
The dawn of the Ship Intelligence Era
Container Revolution

Ship Intelligence Revolution?
Unmanned vessels
Cost - Transport

20 000 dwt general cargo vessel

Transport cost (cost / ton * nm)

- Conventional
- Unmanned

-22%
Safety

- Safer than before
- Fewer accidents
- No piracy victims
- Human error factor
- Humans away from danger
Leading the development
A Global Opportunity

Autonomous maritime ecosystem starts in Finland

New business ecosystem brings together global forerunners and agile ICT start-ups to develop first autonomous shipping solutions in the world.

Empowering the digitisation and harvesting effectively to benefits is priority area in the Government Program of Finland. Digitisation has also a driving role in the enhancement of the competitiveness of the Finnish maritime cluster. Autonomous maritime ecosystem is a concrete action of Finnish digitisation strategy and Finnish Maritime Industries envisioning.

The aim is to provide world’s first autonomous maritime products, services and social ecosystem by 2025. As a part of the ecosystem, the Finnish Port and Transport and Communications is committed to enable testing of autonomous vessels in Finland in a safe manner.

The players in the business ecosystem include global leaders like Rolls-Royce as well as numerous innovative ICT companies.

British classification society Lloyd’s Register (LR) is taking part in the MAXMAS project, a GBP 1.27 million (USD 1.55 million) collaborative research project that aims to investigate, develop and implement real-time collision avoidance algorithms for autonomous maritime vessels.

Rolls-Royce unveils concept fleet of self-driving drone ships - and it could launch by 2020

CIMC Raffles eyes unmanned ships
splash247.com/cimc-raffles-... #maritime #offshore #shipbuilding #China

IMO guidelines on maritime cyber risk management

Autonomous Ship TECHNOLOGY Symposium 2017

Norwegian Forum for Autonomous Ships

MUNIN Maritime Unmanned Navigation through intelligence in Networks

NFAS Norwegian Forum for Autonomous Ships
“The best way to predict the future is to create the future.”