



Introducing SFI AutoShip

Seminar 7.9, Harstad



Mary Ann Lundteigen, Professor & Center Director SFI AutoShip,
Department of Engineering Cybernetics, NTNU

SFI Autoship *in short*

8-year Research-based Innovation Centre with focus on **development and management** of technologies, systems, and operations for **safe, sustainable, secure and cost-effective** autonomous sea transport and operations.

- Started December 2020
- 23 partners (including Norwegian Research Council)
- Budget of approx. 240 mill NOK (including in-kind-contributions)
- Five main long-term focus areas of research
- Four use cases framed by industry partners
- Active engagement through in-kind
- Innovation culture and management from the start
- PhD and Postdoc education
- Education of master students
- International collaboration

Research partners:



Industry partners:



Public and governmental partners:



SFI AutoShip

Organization chart

Scientific Advisory Committee

Headed by Thor Inge Fossen, NTNU

Centre Board

Headed by Sverre Rye
Torben, Kongsberg
Maritime

Innovation and Commercialization Advisory Committee

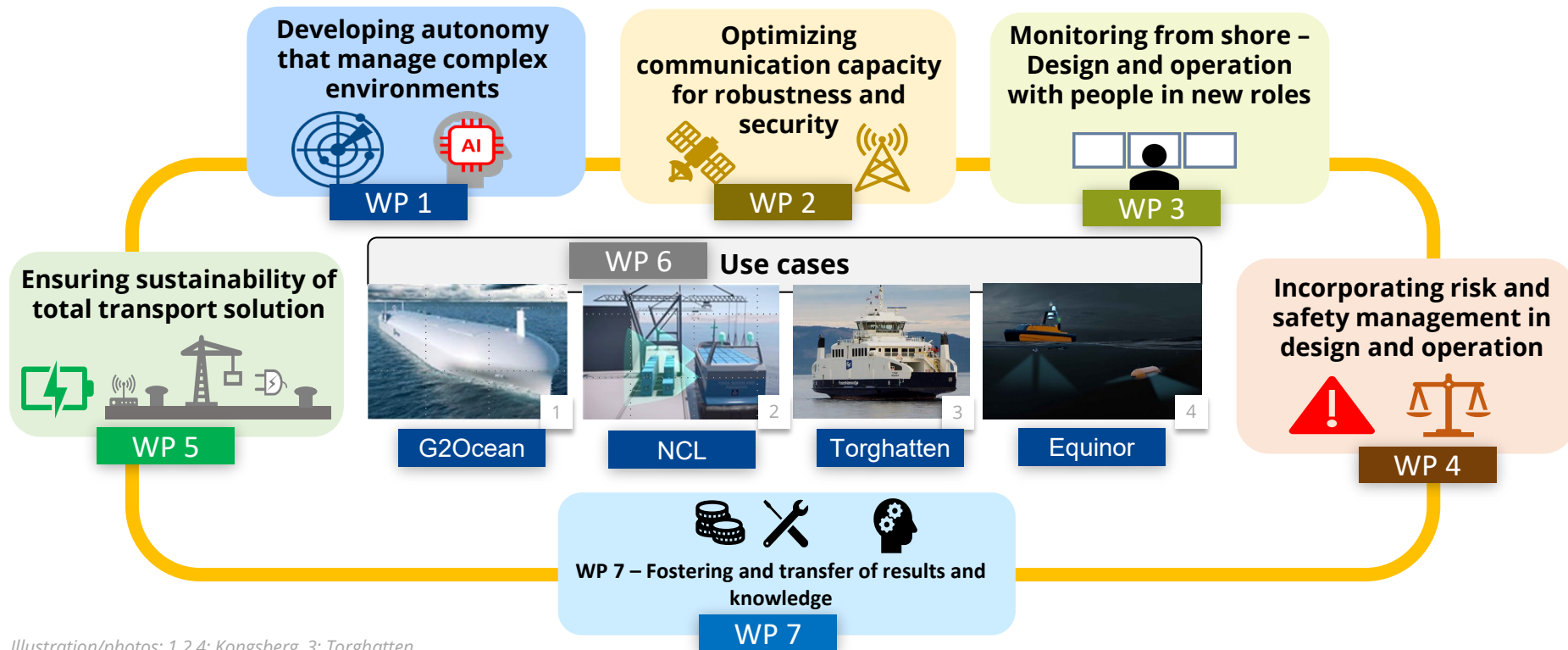
Headed by Kjetil Skaugset, Equinor



Mary Ann Lundteigen, NTNU
Centre Director and
Leader of WP 8



Five research areas & four use cases



Illustration/photos: 1,2,4: Kongsberg, 3: Torghattan

Roles and collaboration

Research partners

Full time resources: 21 PhD &
5 Postdocs (total 8 years)

Part-time resources:
SINTEF, IFE and NTNU/UiO
professors (25+)

Industry & public/governmental partners

- Decide on direction of «use cases»
 - Take part in activities
 - Provide input, like data
- Test, demonstrate and adopt results



Alesund
Ocean Operations
and Civil
Engineering

Engineering
Cybernetics (**host**)

Alesund
ICT & Natural
Sciences

Electronic systems

(Interaction) design

Marine technology



Maritime law



Mathematics and
cybernetics

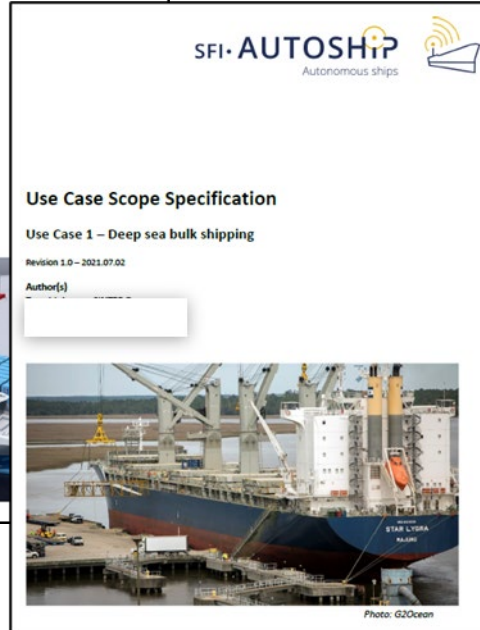
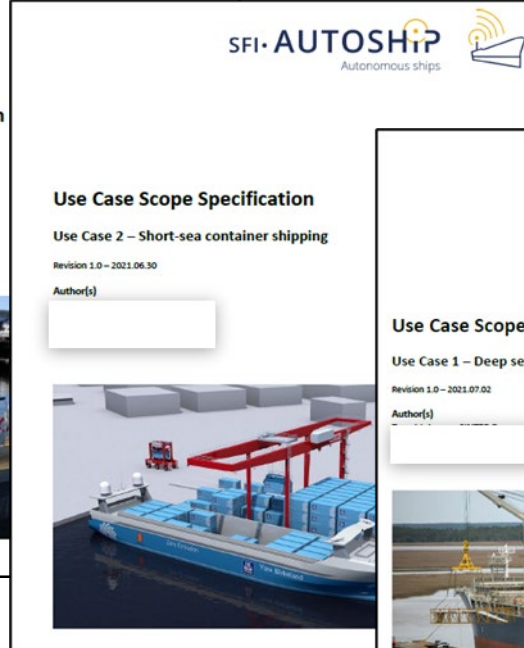
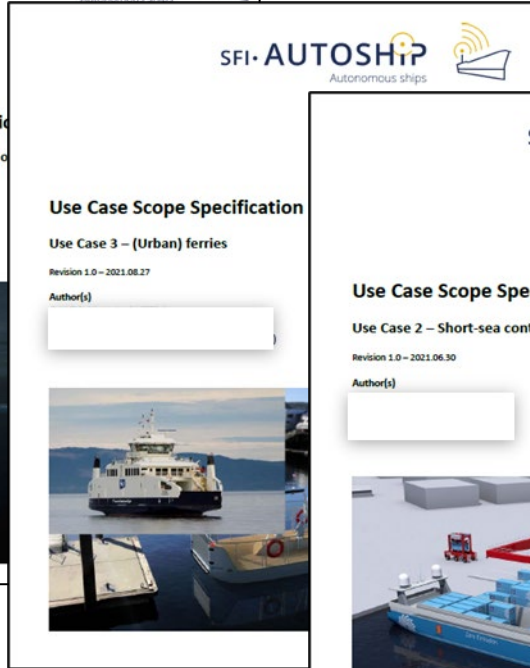
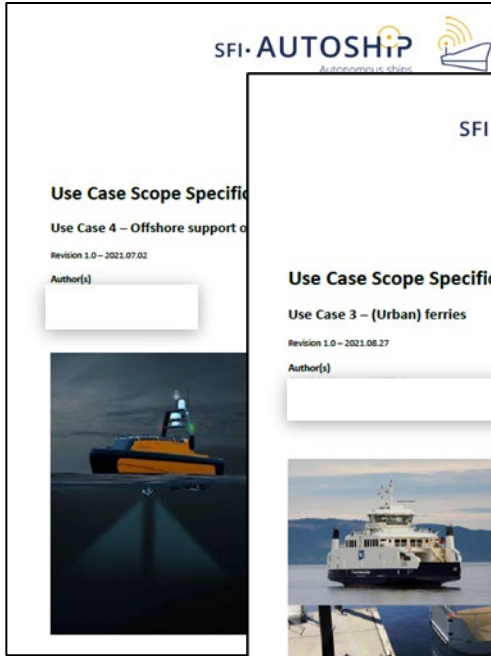
Energy and
transport
(@Oceans)



Risk, safety
and security

Control room and
interaction design

Use case scope specifications – the first step in adopting use cases



Infrastructure



FOTO: NTNU



FOTO: NTNU



FOTO: NTNU



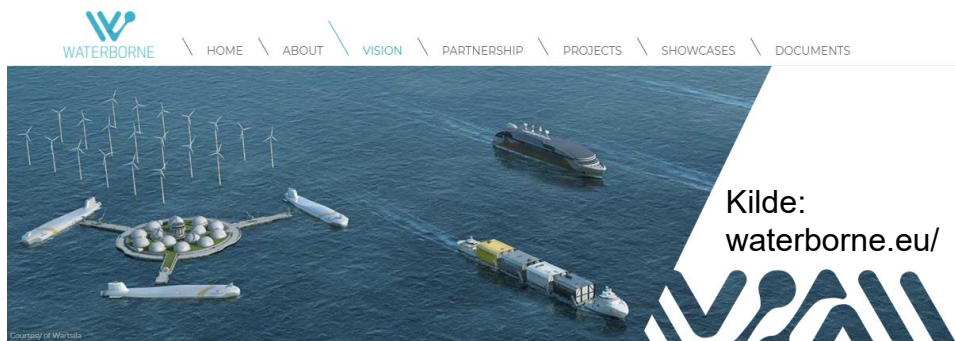
FOTO: Tony Hall/NTNU



Foto: IFE

SFI AutoShip in the ecosystem

- Active participant in relevant networks and arenas
- Promote and initiate new research activities
- Increase participation in European Research
 - Active involvement in EU **Waterborne Technology platform**



INGRID SCHJØLBERG
Professor, dekan NTNU Fakultet for Informasjonsteknologi og elektroteknikk, leder Maritim21



MARY-ANN LUNDEIEN
Professor, leder NTNU SFI AutoShip

DEBATT: Norge er bygd på ressurser fra havet og en sjønasjon med lange tradisjoner. Vi kan skipsfart og skipsbygging. Transport av varer og folk, innbyggere og utbyggere. Nå skjer det et

Kilde:
Adressavisa

Look inside 

Thank you for listing - and I welcome your questions

www.ntnu.edu/sfi-autoship

SFI·AUTOSHIP
Autonomous ships



Autonomy@Sea4Sustainability