

DNV·GL

Changing world, changing requirements

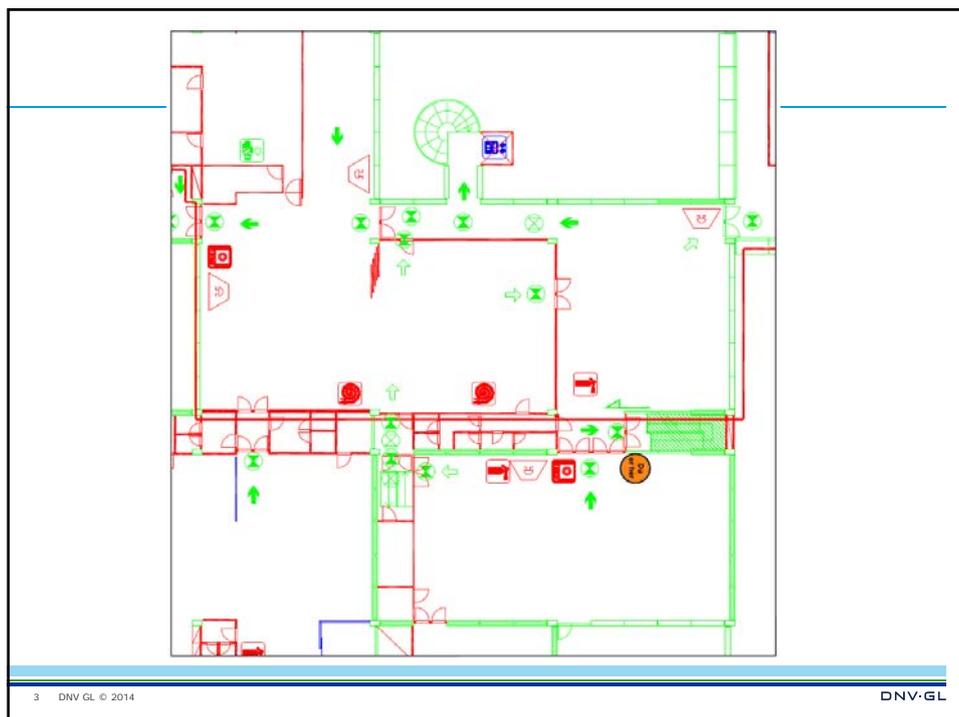
Addressing human factors in an automated society

1 DNV GL © 2016 SAFER, SMARTER, GREENER

Safety Briefing

The collage consists of four distinct panels. From left to right: 1. A green rectangular sign with the words 'Fire exit' in white, a white silhouette of a person running, and a white arrow pointing to the right. 2. A photograph of a man in a white dress shirt and dark tie, holding a large white coffee mug filled with dark liquid. 3. A red rectangular sign featuring a white radiation symbol at the top, followed by the text 'I'm the Safety Guy, If You See Me Running Try To Keep Up!' in white. 4. A photograph of a roll of white toilet paper.

2 DNV GL © 2014 DNV·GL



INVITASJON

Human Factors in Control 12. til 13. oktober 2016

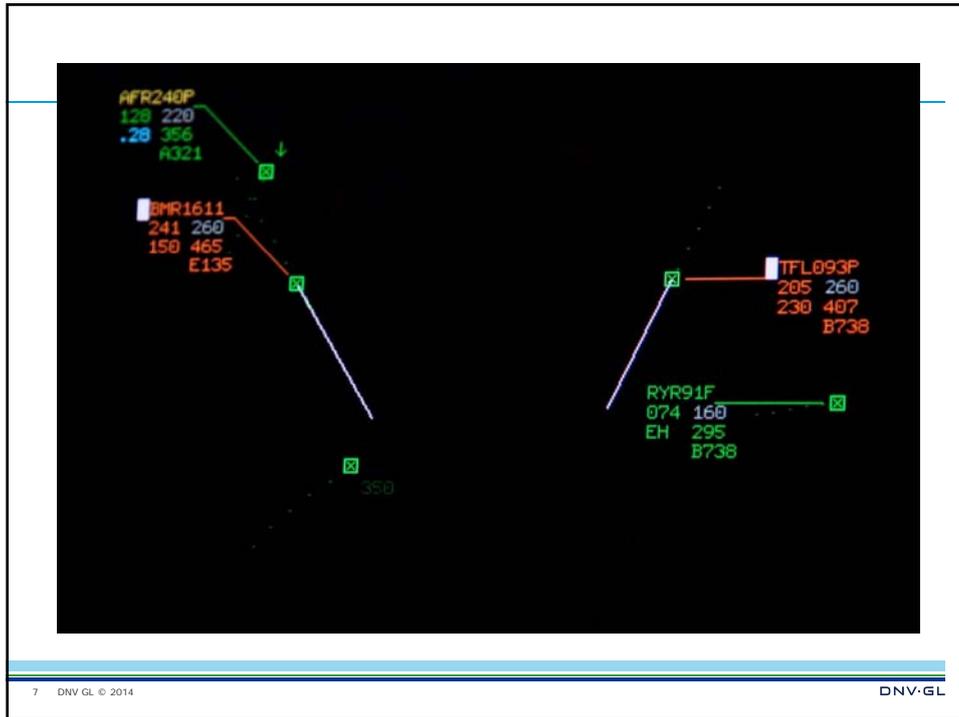
Changing world, changing requirements
Addressing human factors in an automated society

Kjære deltaker
 Vi vil med dette invitere til møte i HFC-forum (Human Factors in Control). Tema for møtet er "Changing world, changing requirements - Addressing human factors in an automated society".

Møtet holdes onsdag 12. og torsdag 13. oktober 2016 hos DNV GL, Veritasveien 1, Oslo.

4 DNV GL © 2014

DNV-GL



AVIATIONWEEK
A SPACE TECHNOLOGY**100 YEARS**
1916-2016

Auto-GCAS Saves Unconscious F-16 Pilot—Declassified USAF Footage

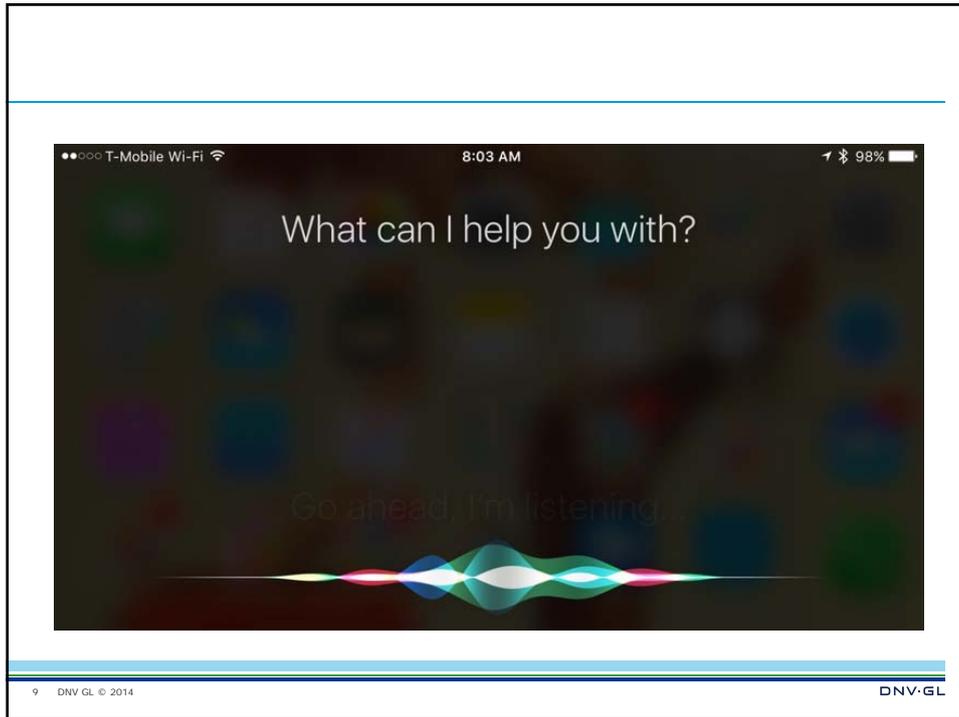
Guy Norris | Aviation Week & Space Technology Sep 13, 2016

EMAIL [SHARE](#) [Tweet](#) [G+](#) [Recommend](#) 6.3KCOMMENTS 49

This newly declassified video footage from the head-up-display of a U.S. Air Force Arizona Air National Guard F-16 records the dramatic moment when its unconscious pilot is saved from certain death by the aircraft's Automatic Ground Collision Avoidance System (Auto-GCAS).

Auto-GCAS Saves Unconscious F-16 Pilot—Declassified USAF Footage

8 DNV GL © 2014 DNV-GL



Google's New AI Can Tell Where Your Photo Was Taken Without Using Geotags



Madeline Stone
2/24/16 6:40pm Filed to: MACHINE LEARNING



4/1/16



Image via Adam Baultz/Flickr

In case you didn't already feel like Google was a [creepy stalker](#), its artificial intelligence tools are rapidly crossing over into uncanny. The latest one is PlaNet, a new deep-learning machine that specializes in

GATHERING STEAM —

California issues more self-driving permits, Iowa creates testing corridor

Wheego and Valeo are the latest to test on California roads; Iowa partners with HERE.

JONATHAN M. GITLIN - 10/10/2016, 7:33 PM



Google is adding some [Chrysler Pacifica hybrid minivans](#) to its test fleet of autonomous vehicles



Deadly Tesla Crash Exposes Confusion over Automated Driving

Amid a federal investigation, ignorance of the technology's limitations comes into focus

By Larry Greenemeier on July 8, 2016 [Véalo en español](#)



READ THIS NEXT



What the First Driverless Car Fatality Means for Self-Driving Tech



Who's Responsible When a Self-Driving Car Crashes?





THE UNIVERSITY OF
WARWICK

What if the
fridge said:
"No"?

warwick.ac.uk/definitelypossible
#definitelypossible

15 DNV GL © 2014 DNV-GL

Agenda

16 DNV GL © 2014 DNV-GL

Day 1

<u>Daq 1</u>	<u>Program</u>	<u>Ansvar</u>
09:00-11:00	Guest talk: Managing alarm systems for quality in healthcare& Safety culture assessment-Utilising organisational strengths for quality care	T. A. Listyowardojo / DnV - GL
11:00-12:00	<i>Lunsj - DnV</i>	
12:00-12:30	Velkommen til seminaret (DnV) og runde rundt bordet	
12:30-13:15	Designing for Situation Awareness - the world behind the glass	M. Mulder /TU Delft
13:15-13:45	<i>Diskusjon og pause – med forfriskninger</i>	
13:45-14:15	Unified Bridge Concept	F. B. Bjørneseth / Rolls Royce
14:15-14:30	<i>Diskusjon og pause – med forfriskninger</i>	
14:30-15:00	Når begeret er fullt! Når teknologi blir et hinder – kan robuste systemer bidra?	E. V. Samsøe / Sjøfartsdirektoratet
15:00-15:30	<i>Diskusjon og pause – med forfriskninger</i>	
15:30-16:00	Utfordringer "Human in the Loop" - Fjernstyring av ubemannede prosessplattformer	G.A. Gjertsen / Statoil
16:00-16:15	<i>Diskusjon og pause – med forfriskninger</i>	
16:15-16:45	Operasjons-spesifikk simulatortrening for kritiske maritime operasjoner	A. Anensen / Kongsberg Maritime
16:45-17:15	<i>Diskusjon og pause – med forfriskninger</i>	
17:15-17:45	The use of feasibility studies in early design	G. Skraaning / IFE
17:45-18:00	<i>Diskusjon og pause – med forfriskninger</i>	
19:30	<i>Middag</i>	

Day 2

<u>Daq 2</u>	<u>Program</u>	
08:30-09:00	<i>Busstransport</i>	
09:00-09:45	Human Factors and Automation - challenges to safety, a regulators view	E.Corbett/ HSL
09:45-10:15	<i>Diskusjon og pause – med forfriskninger</i>	
10:15-10:45	Working together to improve OSV bridge alert management systems	F. van de Merwel / DNV - GL
10:45-11:15	<i>Diskusjon og pause – med forfriskninger</i>	
11:15-11:45	Automatic Drilling Control – possibilities and challenges of Human Interaction	Statoil
12:00-13:00	<i>Lunsj</i>	
13:00-13:45	Interaction Design Research sharing data on large screens	A. O. Braseth/ IFE
13:45-14:15	<i>Diskusjon og pause – med forfriskninger</i>	
14:15-14:45	"Human in the loop" - Hvordan få til overgangen fra preventivt til prediktivt vedlikehold?	S. O. Halvorsrød/ ABB
14:45-15:00	<i>Diskusjon</i>	
15:05	<i>Busstransport til Flytoget (Sandvika)</i>	

“Around the table”

19 DNV GL © 2014

DNV GL

Practicalities

Day 1

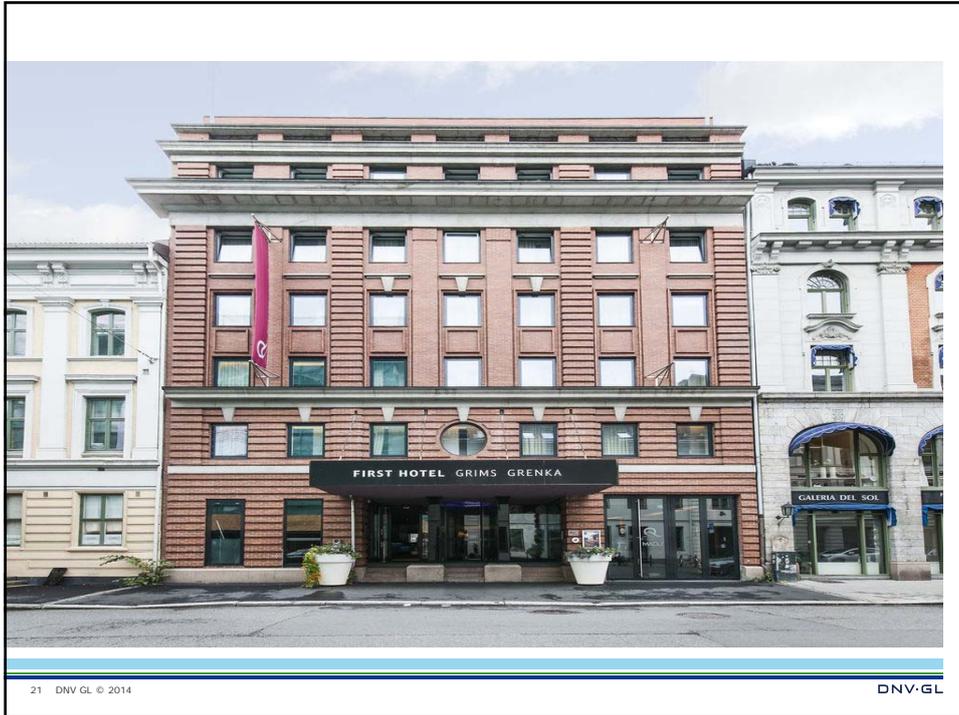
- Bus to hotel: 18:00
- Dinner at Vaaghals: 19:30

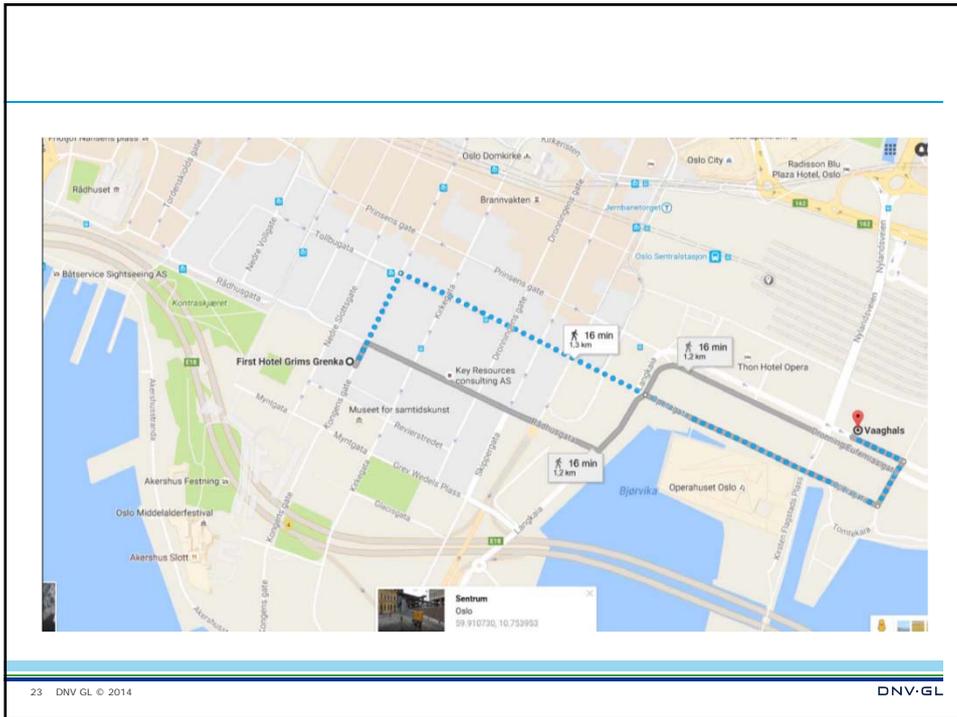
Day 2

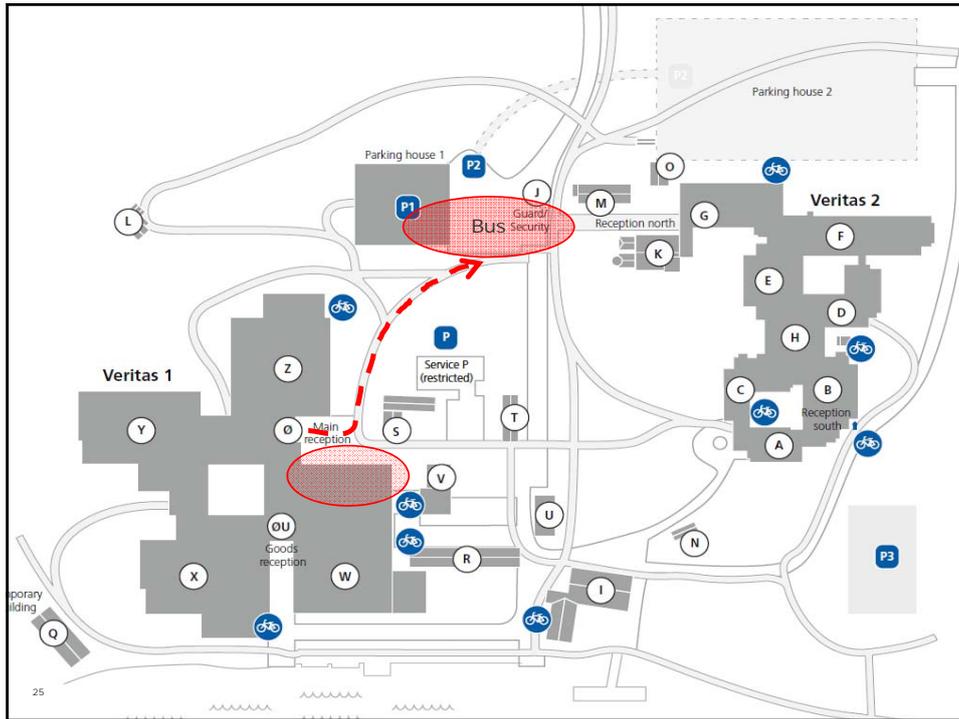
- Bus from hotel: 08:30
- Bus to Lysaker: 15:05
- Allergies: if not reported already, report to Marianne before the first break (13:45)

20 DNV GL © 2014

DNV GL







Evaluation

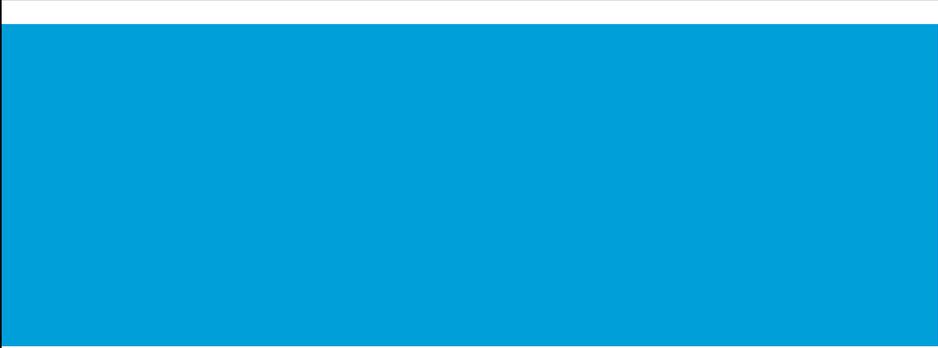
Evaluering av HFC Møtet 12-13/10- 2016

Changing world, changing requirements
Addressing human factors in an automated society

Kryss av under Vurdering, bruk "+" om du er fornøyd og "-" om du ikke er fornøyd. (Nøytral vurdering angis ved å krysse av under 0). Skriv utdypende kommentarer på side 1-2. (+ Good; 0- Neutral; - Poor)

Dag 1: Tema (Evaluation of presentation)	Evaluation			Utdypende kommentarer (Comments)
0) Managing alarm systems for quality in healthcare & Safety culture assessment- Utilising organisational strengths for quality care T. A. Listywardojo	+	0	-	
1) Designing for Situation Awareness - the world behind the glass M. Mulder /TU Delft	+	0	-	
2) Unified Bridge Concept F. B. Bjørneseth	+	0	-	

26 DNV GL © 2014 DNV-GL



www.dnvgl.com

SAFER, SMARTER, GREENER

27 DNV GL © 2014 DNV GL