

Competencies and Learning Methodologies for the Future

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Anglo-Eastern Ship Management Ltd. Hong Kong
Chairman, Global MET Association





Our world has changed

Ships have changed



1970's Cargo Ship



1980's Engine Control Room



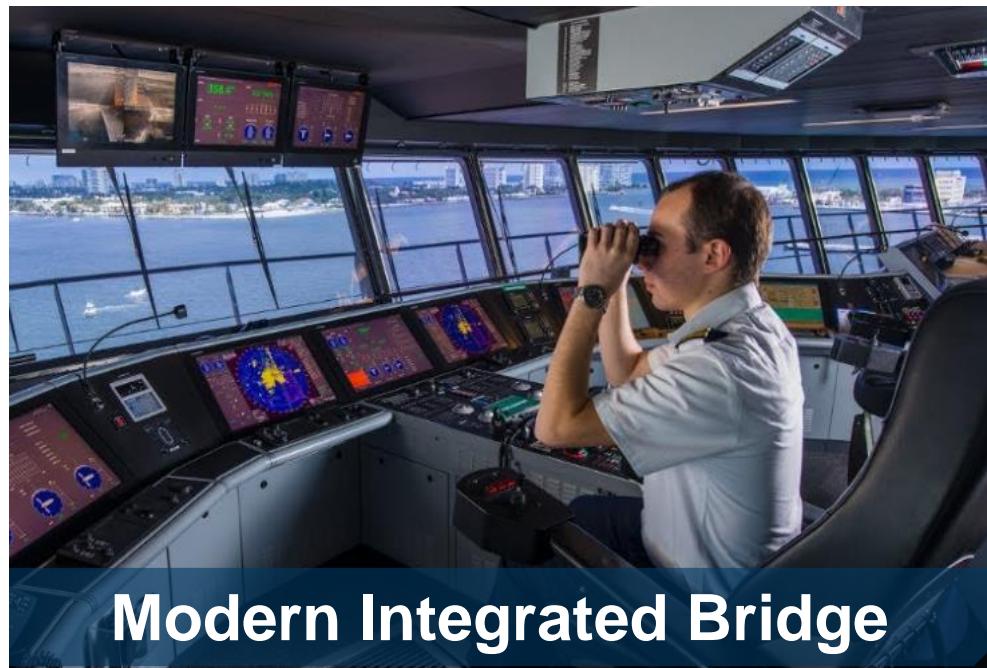
1970's Navigation Bridge



Modern Container Vessel

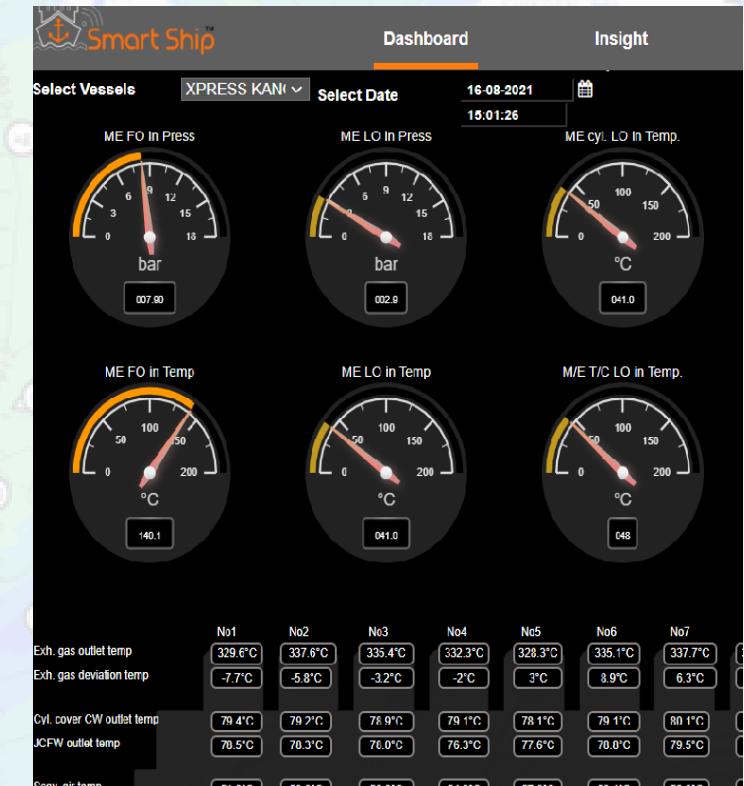


Modern Engine Control Room

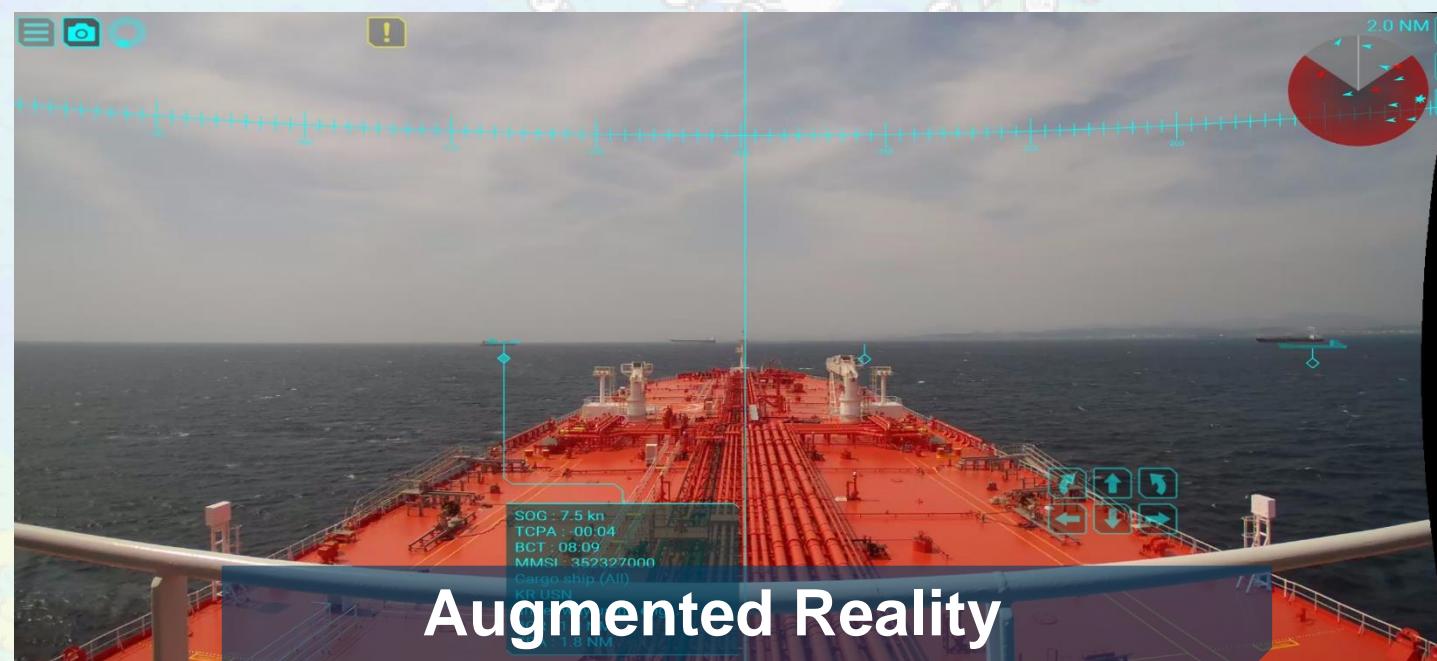


Modern Integrated Bridge

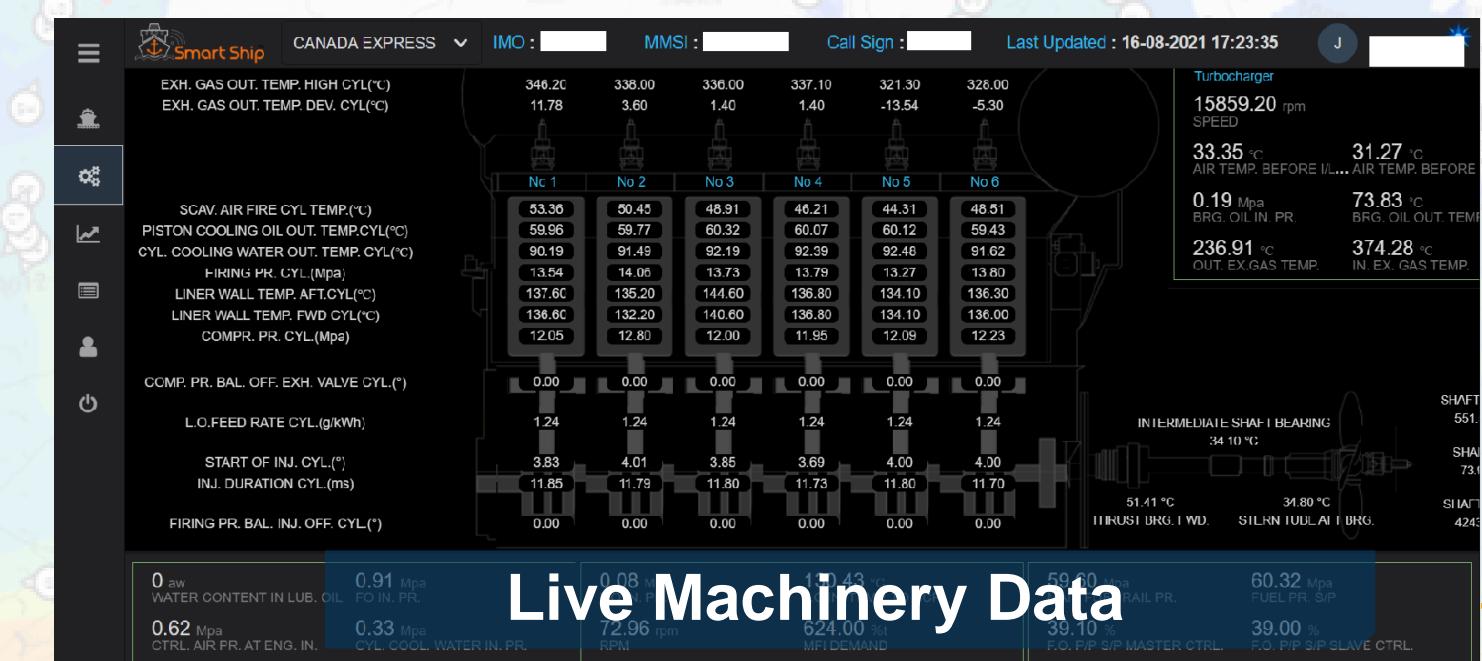
Technologies have changed



Wärtsilä and Tanger Med enable first real-life digital port call for Hapag-Lloyd vessel



Anglo-Eastern



How we communicate has changed

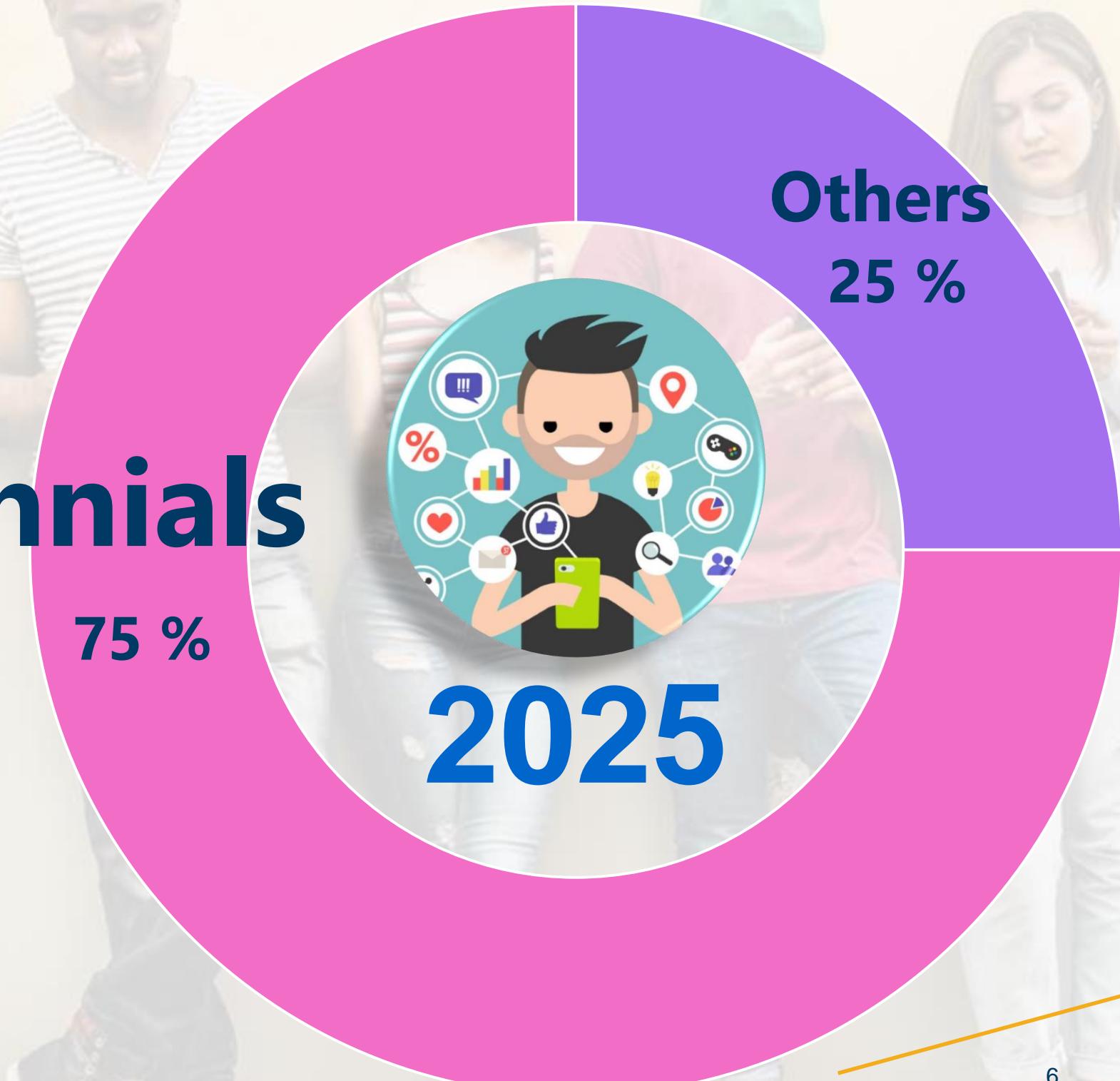
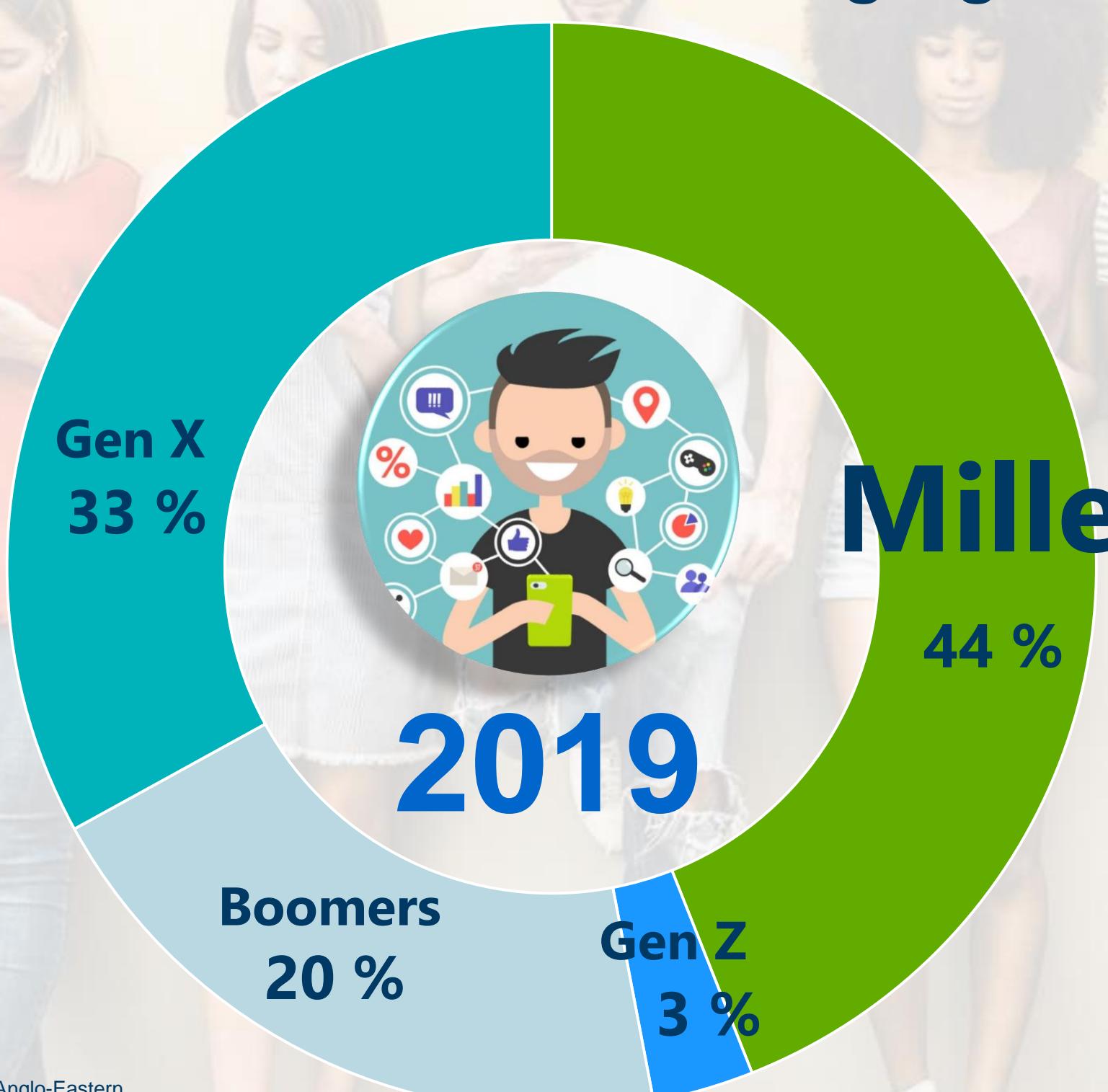


Young People in 70's



Young People Today

Our workforce is changing





Competencies and Training required by future seafarers need
to change



Qualities of millennials



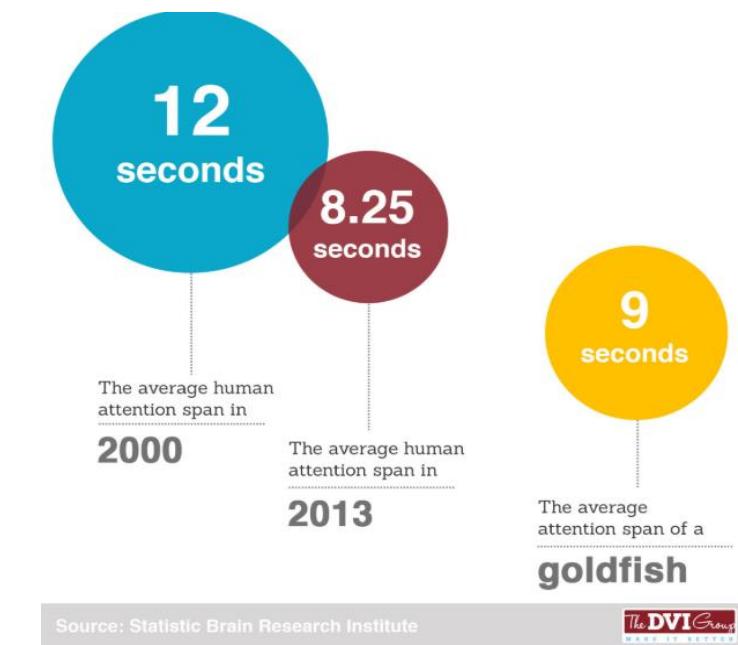
☺ Love Technology



☺ Do not like to "Obey"



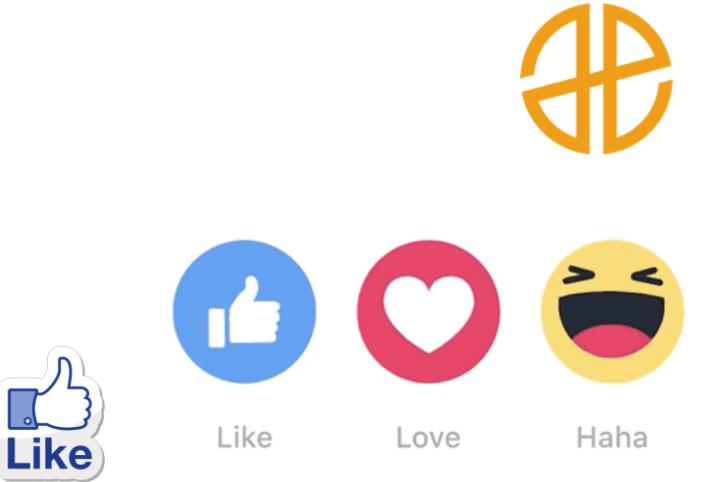
☺ Love Video Games



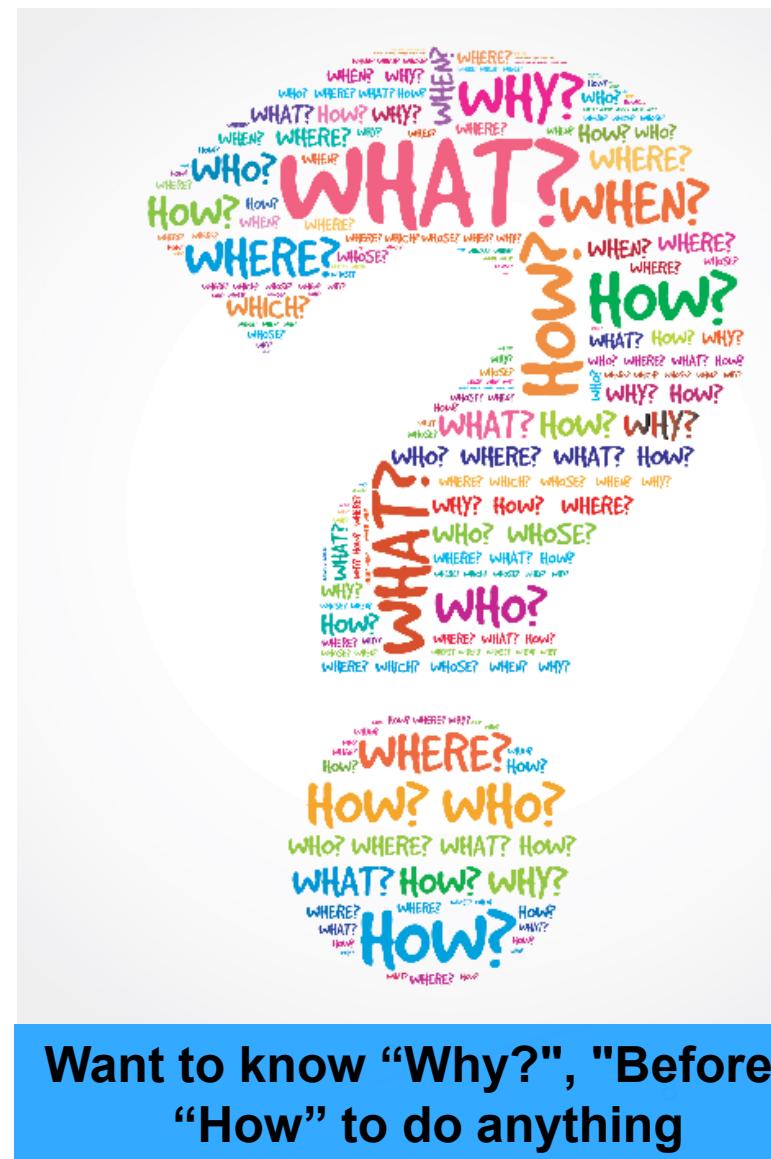
☺ Short Span of Attention



☺ Use Blogs / Social Media



Instant Feedback



Want to know "Why?", "Before", "How" to do anything

Competencies required



Ability to recognize limitations and recognize dangers of automation

BOILER FAILURE STOP COMMON ALARM	CAF	OFF	ALARM	OFF	200/2013	13:43
BOILER FAILURE STOP COMMON ALARM	CAF	ON	Normal	OFF	200/2016	13:50:3
BOILER FAILURE STOP COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	13:55:0
BOILER FAILURE STOP COMMON ALARM	CAF	ON	Normal	OFF	200/2015	13:55:51
BOILER FAILURE STOP COMMON ALARM	CAF	ON	Normal	OFF	200/2015	13:55:51
BOILER FAILURE STOP COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	13:55:58
BOILER FAILURE STOP COMMON ALARM	CAF	ON	Normal	OFF	200/2015	13:56:24
No.1 CARGO HOLD B.W. (P) LEVEL HIGH	LAH	OFF	DI ACK	OFF	200/2015	13:57:00
BOILER FAILURE STOP COMMON ALARM	CAF	ON	Normal	OFF	200/2015	13:57:00
CONTROL AIR DRYER ABNORMAL	OA	OFF	ALARM	OFF	200/2015	14:02:30
ME FO INLET TEMP	TI	110.10 Deg.C	L Norm	110.00	200/2015	14:27:53
CONTROL AIR DRYER ABNORMAL	OA	OFF	DI ACK	OFF	200/2015	15:32:02
ME NO.1 AUX. BLOWER FAIL	OA	OFF	ALARM	OFF	200/2015	15:10:23:0
ME NO.2 AUX. BLOWER FAIL	OA	OFF	ALARM	OFF	200/2015	15:10:23:0
EIG COMMON ALARM	CAF	OFF	ALARM	OFF	200/2015	15:38:11:0
EIG COMMON ALARM	CAF	OFF	ALARM	OFF	200/2015	15:40:02:00
EIG COMMON ALARM	CAF	OFF	ALARM	OFF	200/2015	15:40:21:00
EIG COMMON ALARM	CAF	OFF	ALARM	OFF	200/2015	15:40:28:45
ME NO.1 AUX. BLOWER FAIL	OA	OFF	DI ACK	OFF	200/2015	15:58:38:00
ME NO.2 AUX. BLOWER FAIL	OA	OFF	DI ACK	OFF	200/2015	15:58:38:00
EIG COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	16:09:35:87
EIG COMMON ALARM	CAF	ON	Normal	OFF	200/2015	16:10:14:54
EIG COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	16:10:23:54
EIG COMMON ALARM	CAF	ON	Normal	OFF	200/2015	16:10:45:73
EIG COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	16:10:51:51
EIG COMMON ALARM	CAF	ON	Normal	OFF	200/2015	16:10:52:54
NO.3 G/E P.O. LEAK HIGH	LAH	ON	ALARM	ON	200/2015	16:10:53:00
EIG COMMON ALARM	CAF	OFF	DI ACK	OFF	200/2015	16:10:57:87
EIG COMMON ALARM	CAF	ON	Normal	OFF	200/2015	16:10:59:00
NO.3 G/E MONITORING SENSOR FAIL	OA	ON	ALARM	ON	200/2015	16:12:30:00
ME OIL MIST DETECTOR CRANKCASE FAU	DAH	OFF	ALARM	OFF	200/2016	16:15:31:40
NO.3 G/E L.O. FILTER PRESS. DIFF.	PDAH	ON	ALARM	ON	200/2015	16:15:41:00
NO.3 G/E FILTER OUTLET PRESS. L/O.	PAL	0.01 MPa	<L	0.05	200/2015	16:15:57:20
NO.3 G/E MONITORING SENSOR FAIL	OA	OFF	ALARM	ON	200/2015	16:17:12:00
STEERING GEAR COMMON ALARM	CAF	OFF	ALARM	OFF	200/2015	16:17:23:40
NO.3 G/E MONITORING SENSOR FAIL	OA	ON	ALARM	ON	200/2015	16:17:23:40

Ability to process large amounts of data



Data



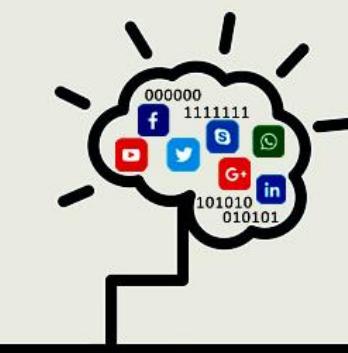
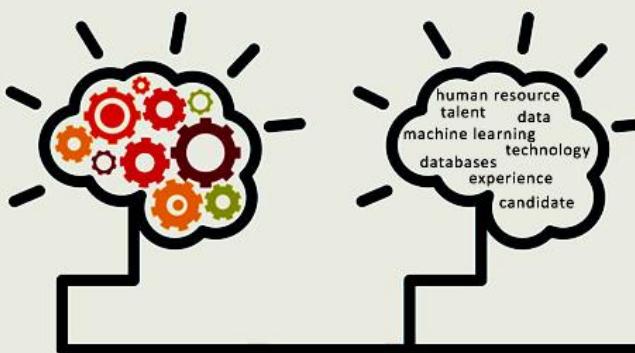
Insight



Action

Ability to have insight, recognise patterns and convert data to intelligence

Converting Data into Intelligence



Competencies required



Alarm systems
A guide to design, management and procurement

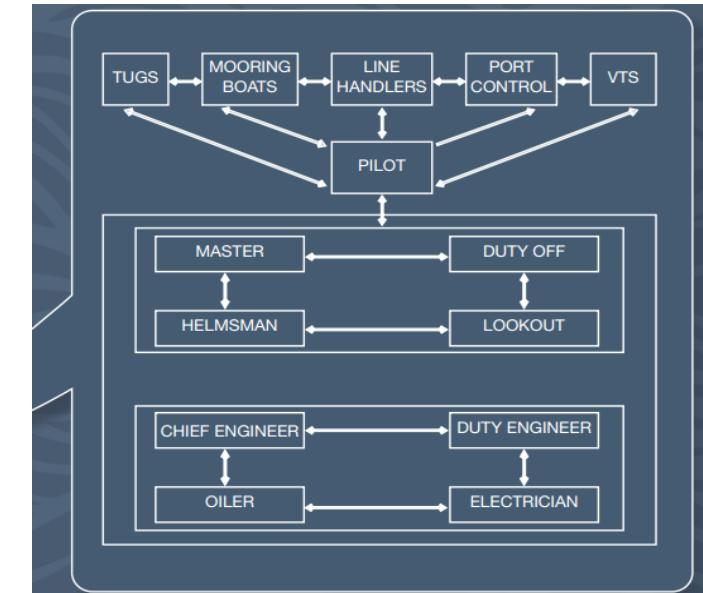
Ability to focus on critical issues



Ability to manage change



Ability to cope with increased stress



Ability to communicate effectively



Ability to work with remote teams

Ability to learn continuously

Ability to be a leader

Time to redesign how we teach and what we teach



Training methods must be chosen according to the learning outcomes desired and the habits of the student group

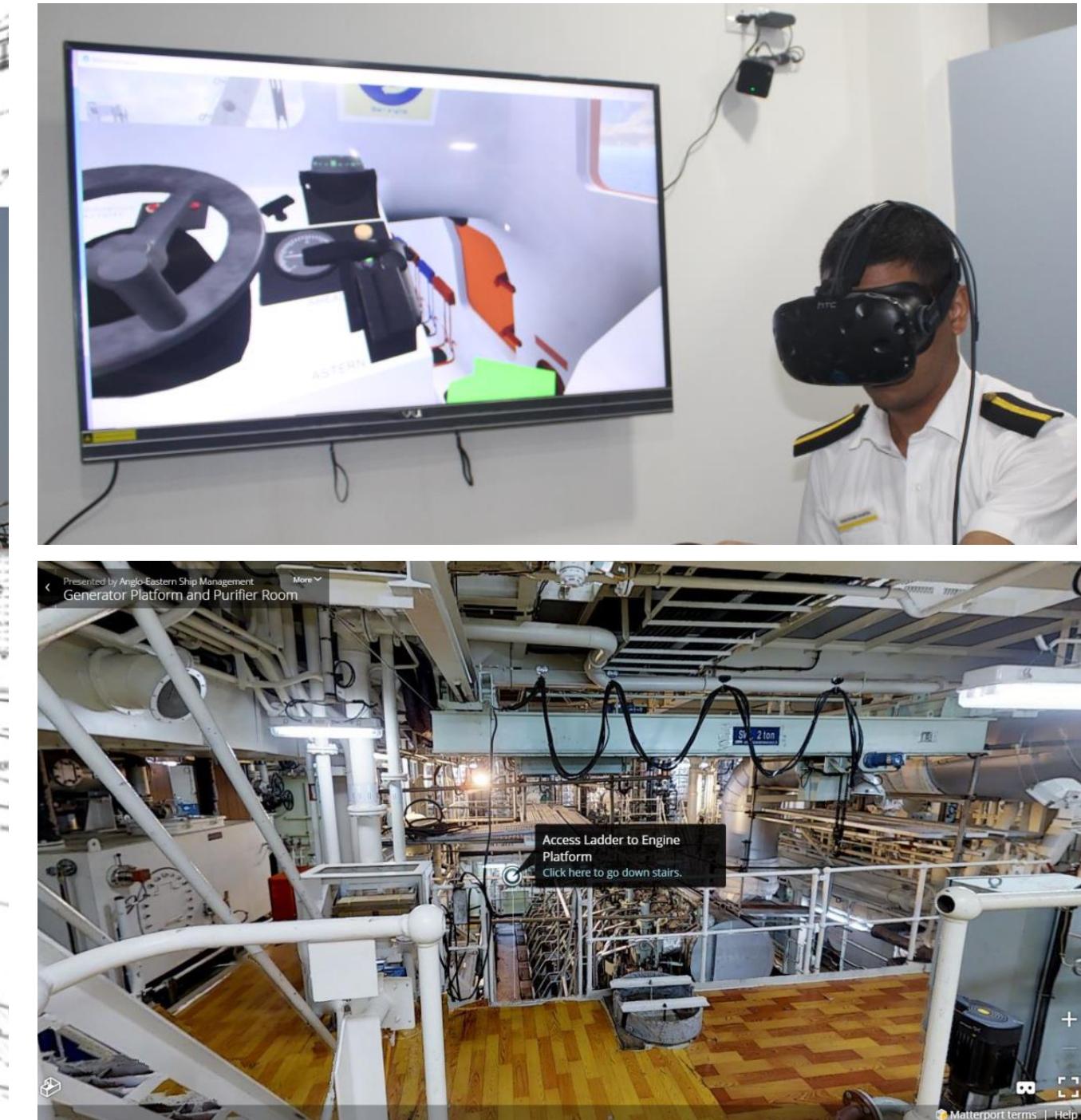
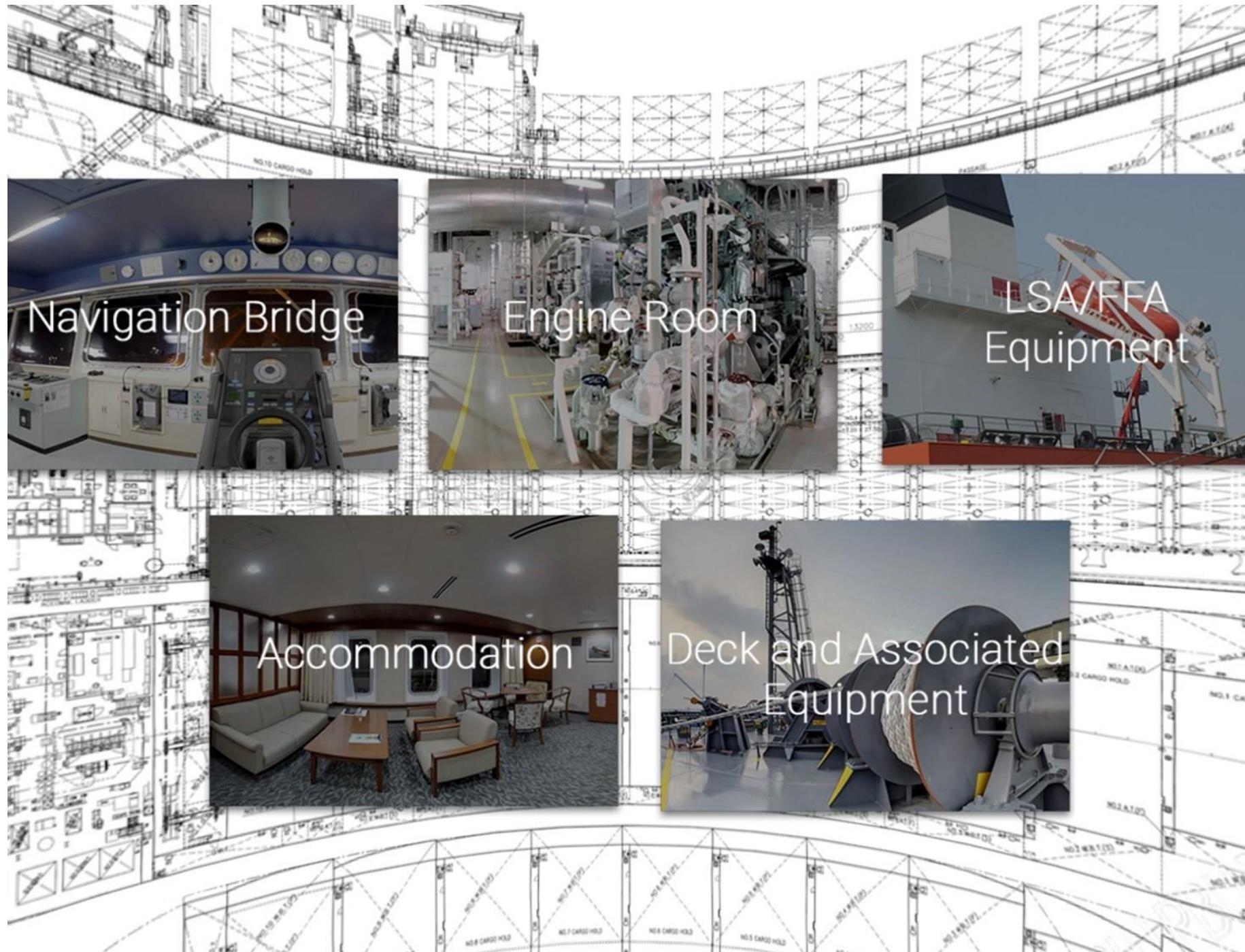


"I want you to find a bold and innovative way to do everything exactly the same way it's been done for 25 years."

Learning Platforms



Virtual Reality





Learning Platforms

Gaming / AE Flix

The collage illustrates several maritime learning platforms:

- Vessel Inspector:** A mobile application interface showing a smartphone screen with the app's UI and a promotional banner below it stating "Learn to have Zero Deficiencies Onboard!" with a progress bar and five achievement cards (VINV1L1 to VINV1L5).
- Download and Play:** A promotional page for the Google Play Store featuring a QR code to download the app.
- Anglo-Eastern Mobile App:** A screenshot of the app's main menu with icons for Credits, Settings, Leaderboard, and Full Screen, and a background image of a ship's propeller.
- AE Flix:** A screenshot of the platform's user interface showing a profile for Amit Nauhwar, navigation tabs for AE Games, AE Mentors, Survey, and Notifications, and a video thumbnail titled "LEADING THROUGH TIMES OF CHANGE" with a duration of 04:44.

<https://play.google.com/store/apps/details?id=com.marinepals.vesselinspector&hl=en>



Learning Platforms

Micro Learning

Anglo-Eastern Training Micro Learning

Amit Nauhwar

RANK
Select a Rank

STUDENTS / USERS
Select a User

ENROLLED FOR MICRO-LEARNING / TOTAL USERS
338 / 2645

LIBRARY (COURSES)
10 (6)

Library

Soft Skills
30%
389 Views
6 Courses

Health and Safety
0%
0 Views
0 Course

Navigation
0%
0 Views
0 Course

Cargo Work
0%
0 Views
0 Course

Trending Course

Show 10 entries Search:

Name	Course Type	Category	Views	Favorite	Watch Time
Leadership - Safety, Human Performance, Learner mindset and Wellbe	Video	SoftSkills	76	2	05h 21m 57s
Leading Through Times of Change	Video	SoftSkills	68	1	05h 55m 35s
Learner Mindset and Safe to Speak Up	Video	SoftSkills	64	1	03h 38m 16s
How You Respond Matters	Video	SoftSkills	61	1	11h 14m 40s

Students / Users Leaderboard (Initiative Score)

Show 10 entries Search:

Name	Rank	Course Watched	Watch Time	Initiative Scores
Anand Dalela	Superintendent	6	04m 02s	30
Shabrez Ahmed	Superintendent	6	00m 13s	30
Samrat Biswas	Superintendent	6	22m 06s	30
Hem Kumar	Superintendent	6	41m 07s	30
Anand PALTANWALE	Superintendent	6	00m 01s	30



Simulators



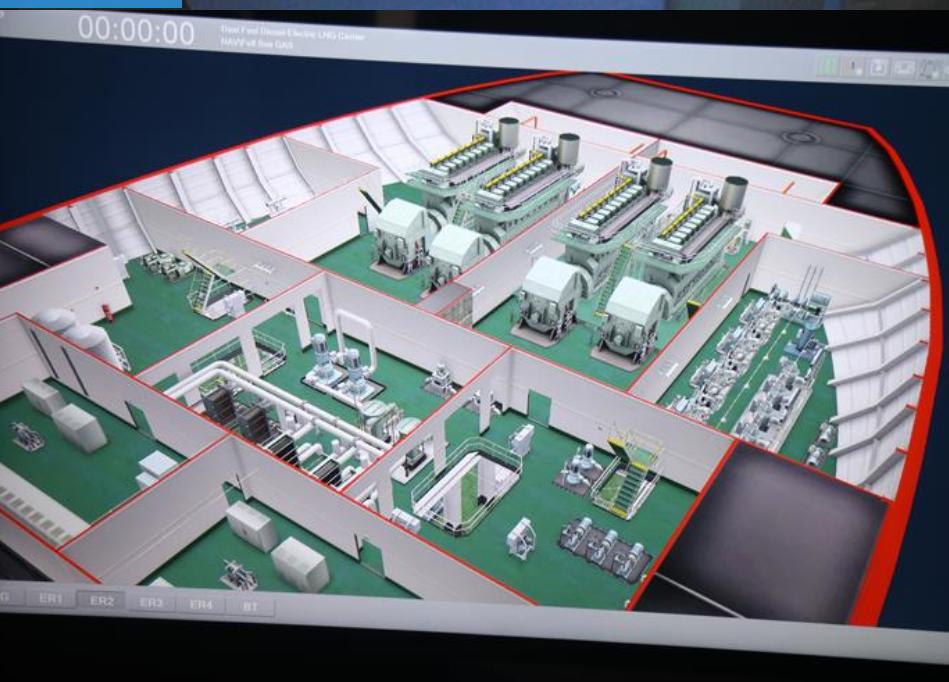
360° Navigation Simulator



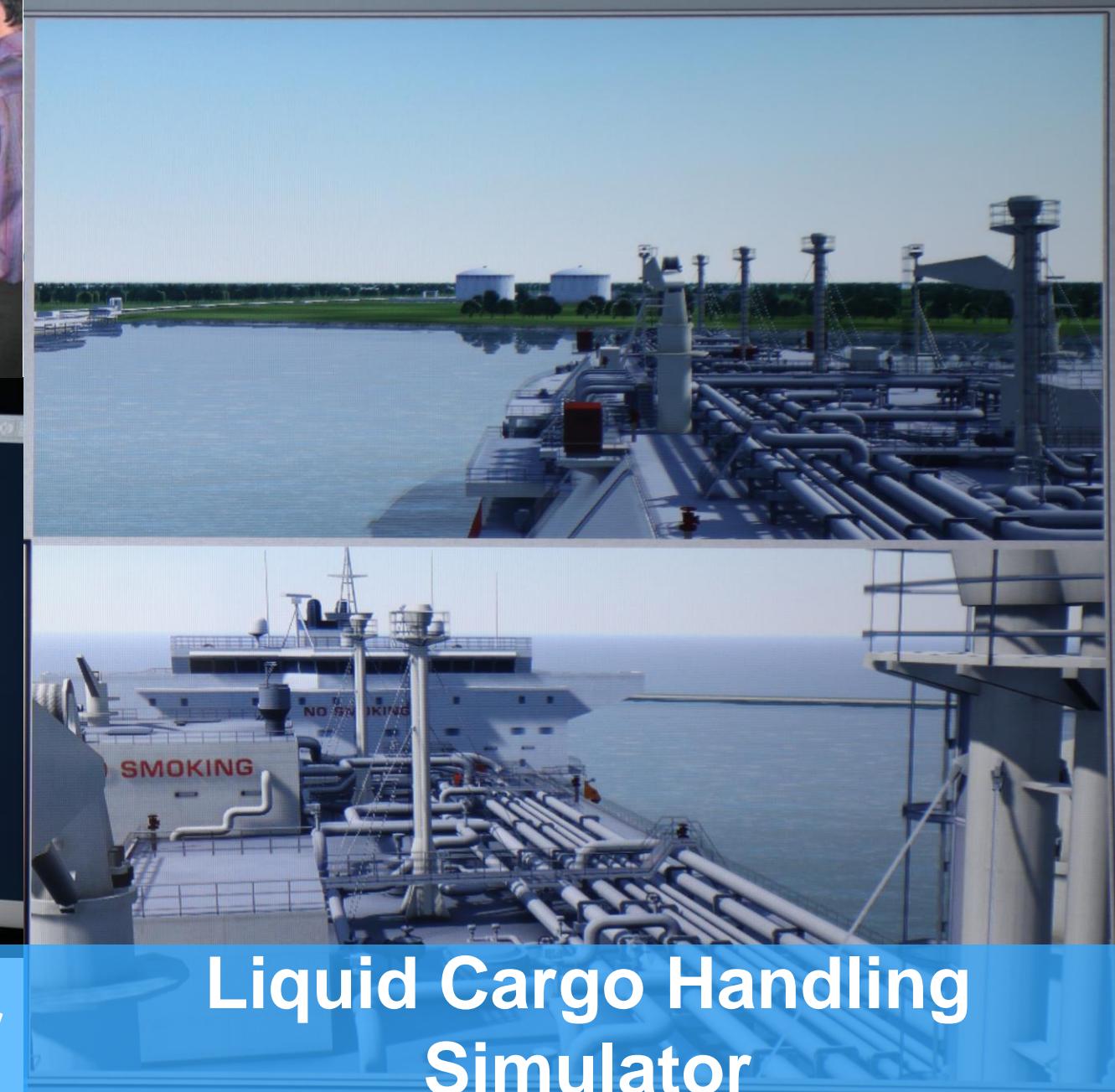
Navigation Simulator



Cloud Simulator



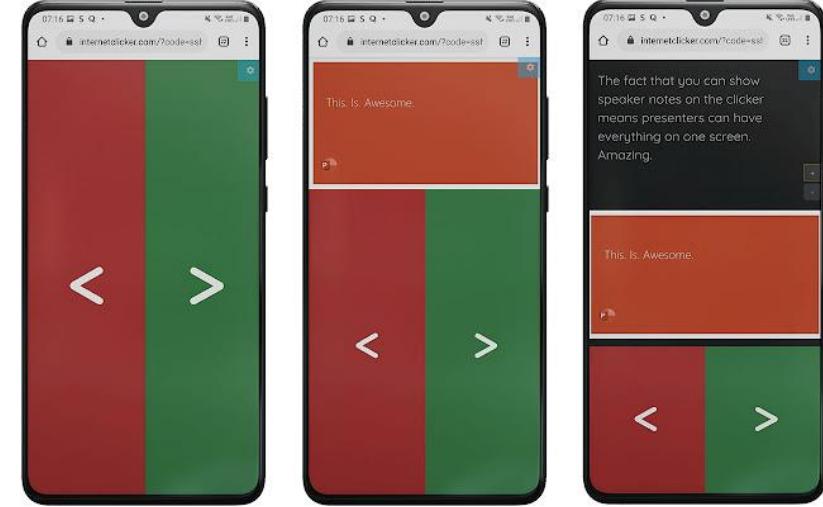
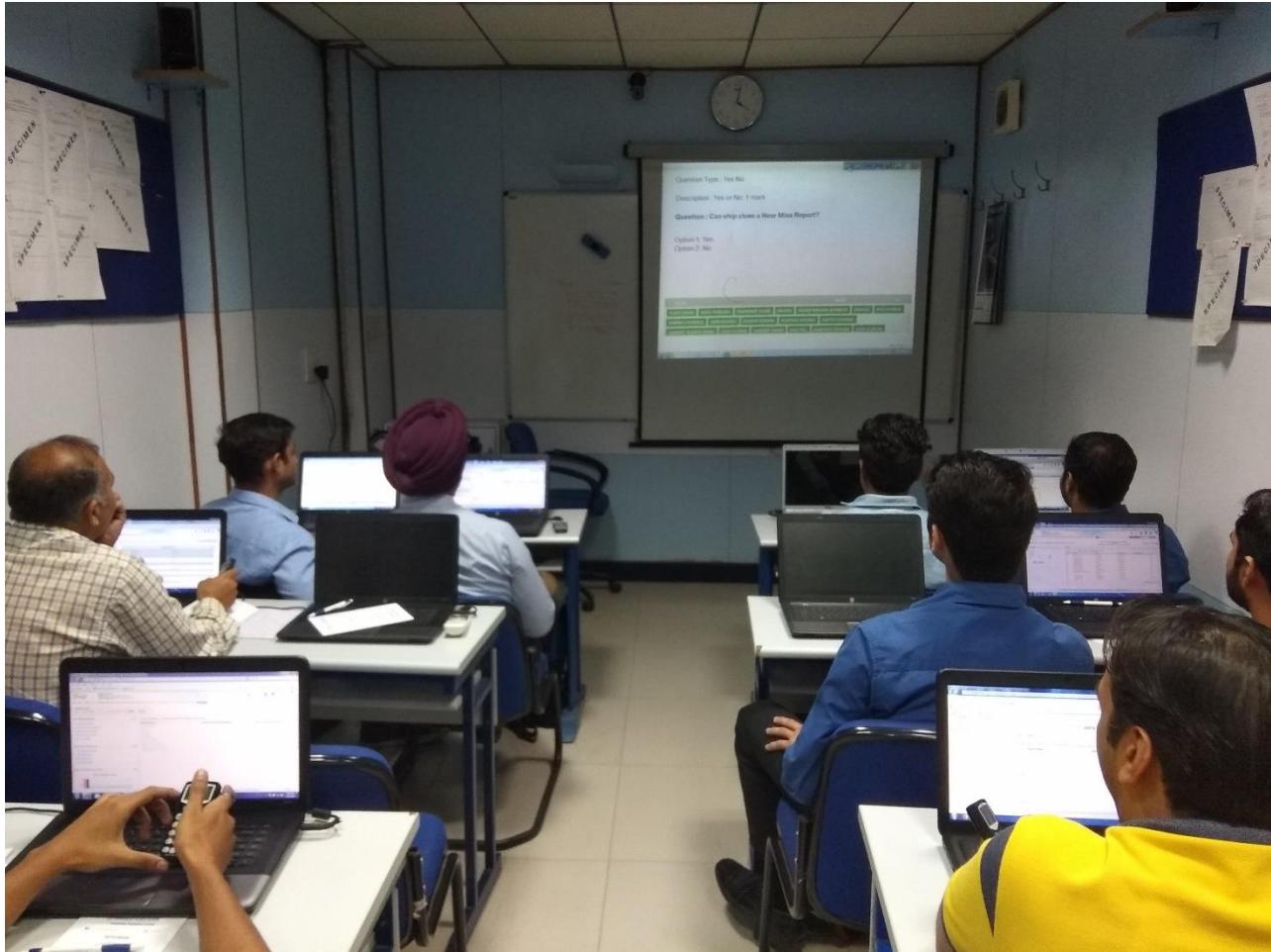
Main Engine Simulator



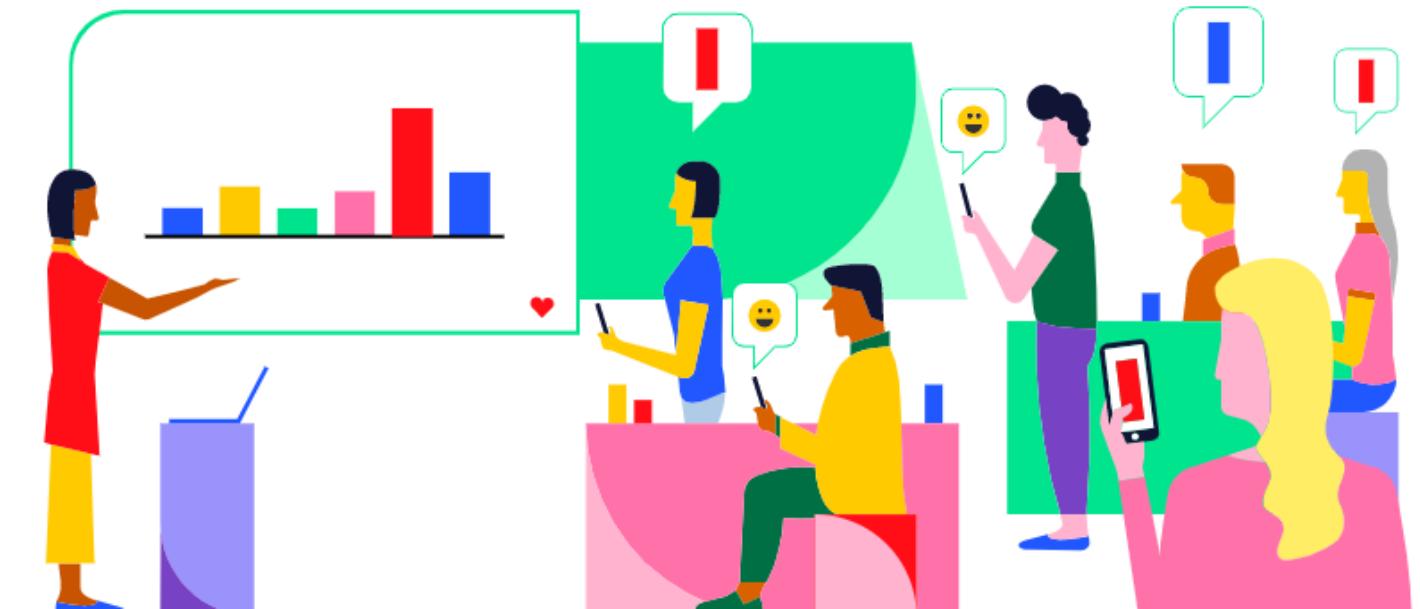
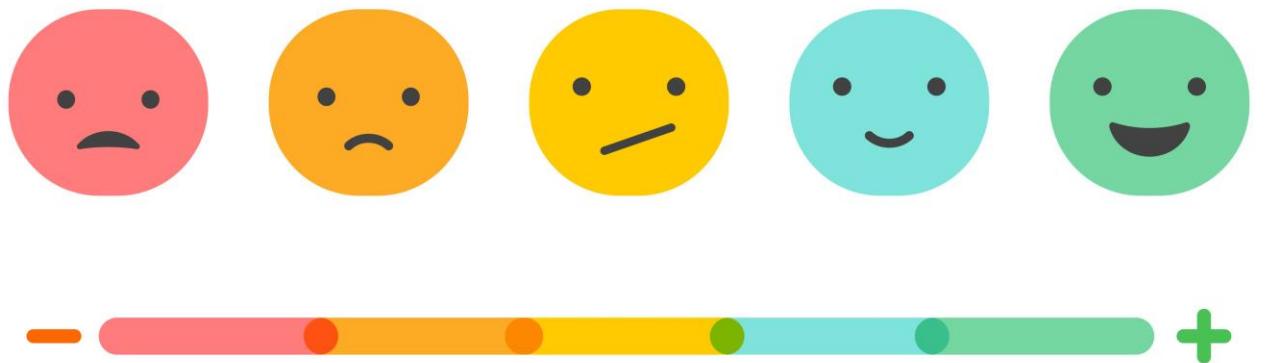
Liquid Cargo Handling Simulator



Student response system – instant feedback



Internet Clicker



Mentimeter



Hands on Training





Mentoring

Anglo-Eastern Training
AE Mentors

VIRTUAL REALITY MICRO LEARNING GAMES MENTORS CADETS CONNECT

Select Role: Mentee Mentor Admin

Find a Mentor

Mohit Sah
Superintendent
Haldwani, India
Mentees: 0
Willing To Mentor: 0

Vinay Singh
Managing Director
Hong Kong S.A.R.
Mentees: 0
Willing To Mentor: 20

My Contacts

	Amit Nauhwar <i>Captain</i> Wan Chai	Mentee	
	Himanshu Chopra <i>Captain</i>	Mentee	
	Nikhil Monga <i>Superintendent</i> Noida	Mentee	

[View all](#)

Upcoming Events

Audit Ship 01/27/2021, Mumbai - 01:21	Management
Video Conference 08/15/2021, Goa - 7:30 PM	Education
Mentors Meeting 03/11/2021, Goa - 3:00 PM	Meeting

August 2021

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Mentoring Request (1)

	rohit mehrotra <i>Superintendent</i> Kowloon City	Pending	
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Chat

	Amit Nauhwar	Mentee
	Hello	
	Radharaman Lath	Mentee
	Hi Radha	
	AMT Nikhil Monga	Admin
	Hi	
	Himanshu Chopra	Mentee
	Hi	

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18

Soft-skills will become even more critical



Teamwork



Communication & Influencing



Situation Awareness



Decision making



Results focus



Leadership & Managerial skills



Alternate
Fuels

Decarbonization

More change is coming

Digitalization –
Smart Ships

Autonomous
Systems

Big Data
and
Analytics

Robotics

Advance
Rudder and
Propeller
System



Are you on board or are we
missing the boat?



Thank You

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