Wärtsilä Smart Navi-Planner
Marintec China 2019 – 3 Dec 2019

Barry Khoo – General Manager, Wärtsilä Voyage Shanghai

Transas (Wartsila Voyage Solutions) in the global organisation:

ENERGY BUSINESS

WARTSILA CORPORATION

MARINE BUSINESS

VOYAGE SOLUTIONS

MARINE POWER SOLUTION

ASSET MANAGEMENT SERVICES

ELECTRONICS, ENTERTAINMENT & PROCESSING

NCS · ADP · TRANSAS · KAS · VSS

TURNKEY SOLUTIONS

SPECIAL PRODUCTS

ENTERTAINMENT SYSTEMS

NCS - Navigation, Communication, Smart Sensors

ADP - Automation, Dynamic Positioning

KAS - Key Account Solutions

VSS - Voyage Solutions Services

Transas – Wartsila Voyage Solutions

PEOPLE OFTEN THINK WE ARE JUST AN ENGINE COMPANY

No3 Renewables Energy Solution Integrator	Largest Energy Storage Management in the US	World's leading Hybrid & Gas Engine Integrator	300+ Vessel Traffic Systems Installed worldwide – Voyage Solutions/Transas	More than 13, 000 Electronic Chart Systems (ECDIS) – Voyage Solutions/Transas	More than 5500 marine simulators installed – Voyage Solutions/Transas
Guinness World Record for Cleanest Engine Technology	Installed Power stations in 178 Countries	Leading the drive to 100% renewables future	World's first autodocking installation successfully tested by us – SAM ADP	80% of cruise vessels are navigated by us – Voyage Solutions/SAM	1 in every 2.5 ships is serviced by us
			We have every single component of Autonomous Shipping available today	Leading marine company In AI and Machine Learning – Voyage Solutions/Transas	We are one of the largest user of Robotics Process Automation in Europe

VOYAGE SOLUTIONS
WILL LEAD WÄRTSILÄ TO SHAPE OUT THE GLOBAL
SMART MARINE ECOSYSTEM

WHY SMART MARINE???

Easter morning 1900: 5th Ave, New York City. Spot the automobile.

Source: US National Archives.

Easter morning 1913: 5th Ave, New York City. Spot the horse.

Source: George Grantham Bain Collection.

WÄRTSILÄ

Many Buzz Words?!

IoT

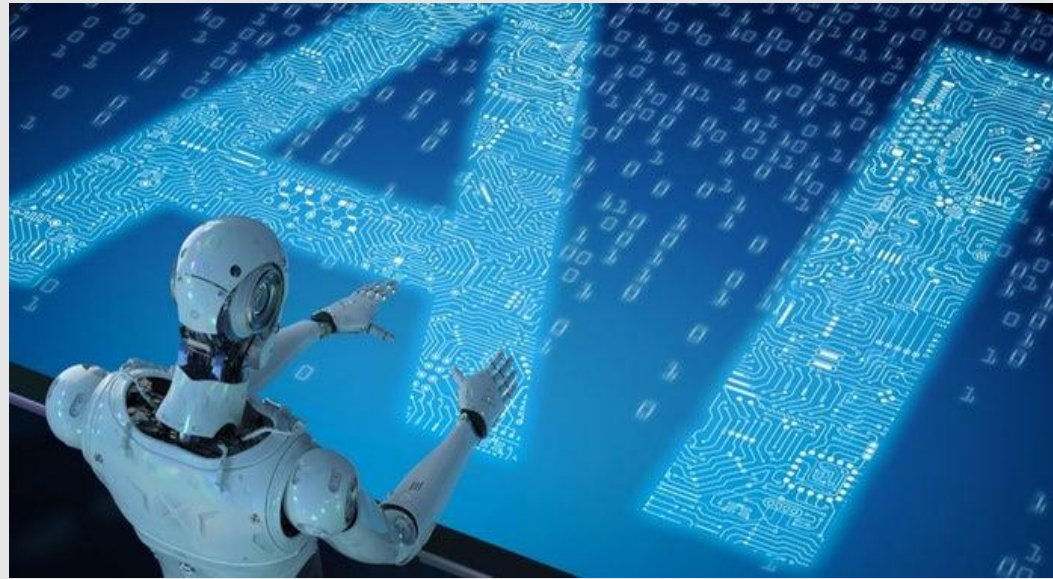MACHINE LEARNING

DIGITALIZATION

SELF DEEP LEARNING

BIG DATA

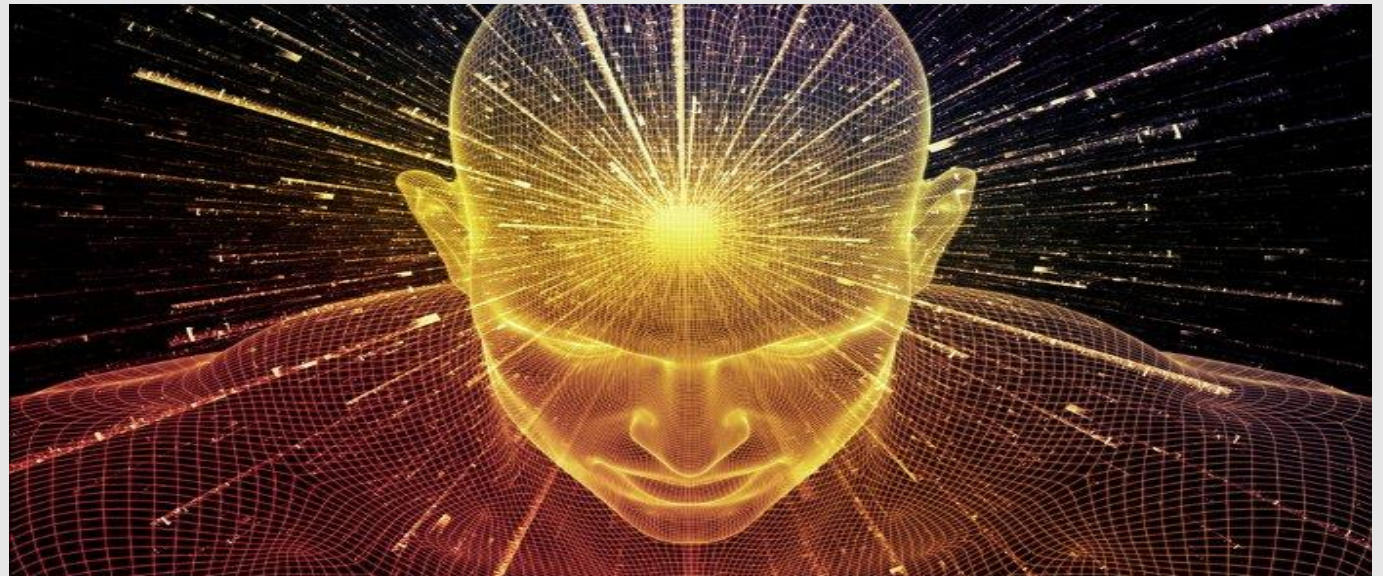ARTIFICIAL INTELLIGENCE (AI)

CONNECTIVITY

BLOCKCHAIN

智商 -
Intelligence

智能 – Smart (AI & Machine Learning)

智慧 – Wisdom

Fleet Operations Solutions

Wärtsilä Smart Navi-Planner

secure environment to make sure that the ship arrives to the destination point safely and in time.

Advanced software applications facilitate routine tasks and decrease the workload allowing people to focus on their main objectives.

1/3 of the world fleet (~13,000 ships) are already sailing with our Transas ECDIS

Fully integrated into our Fleet Operations Solution

What if we connect these?

NAV. DATA

ANALYTICS

REAL-TIME DECISION SUPPORT

PATTERN RECOGNITION AI/ MACHINE LEARNING

EXTERNAL DATA: CHARTS, ZONES, WEATHER, ETC.

- More computation power

- Always up to date and latest charts, publications and data

- Central data collection hub for onboard data

- Communication hub for other stakeholders (e.g. ports)