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AUTONOMOUS VESSELS SUMMIT – TUESDAY 20 MARCH 2018

A SUMMIT DEDICATED TO STRATEGIC AND PRACTICAL FACTORS FOR INTEGRATING AUTONOMOUS VESSELS INTO THE MARITIME INDUSTRY.

09:00	Registration & Coffee
09:45	Chair's Opening Remarks
10:00	A realistic market outlook for autonomous vessels <ul style="list-style-type: none">• Timeline and cost projections• The value of autonomy
10:30	PANEL DISCUSSION Safety vs profitability – how will we regulate the autonomous vessels market? <ul style="list-style-type: none">• Identifying the driving force behind autonomous vessel developments• Scalability of regulations
11:00	Short Morning Coffee & Networking

11:15	Financing the autonomous vessel <ul style="list-style-type: none"> • Comparing the bottom line between normal and autonomous vessels • Outlining a marine insurance framework
11:45	QUICKFIRE SHOWCASE New technologies on the market enabling autonomous vessel developments <ul style="list-style-type: none"> • DP technology for remote operations • Tracking and data management
12:15	What crew are required for non-crewed autonomous vessels? <ul style="list-style-type: none"> • Factoring in regulation and risk prevention • Will onshore crew bases forego the principals of unmanned vessels?
12:45	Networking Lunch
13:45	Practical Demonstration – the vessel of the future
14:45	Chair’s Closing Remarks & Coffee

WELCOME DRINKS RECEPTION – 20 MARCH 2018

You are warmly invited to attend the Welcome Drinks Reception at 18:30 on open to all attendees from the main conference and exhibition

18:30	Conference Welcome Drinks
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CONFERENCE DAY 1 – WEDNESDAY 21 MARCH 2018

08:00	Registration & Coffee
08:50	Welcome from the GST & Shipping2030 Team
09:00	Chair's Opening Remarks
09:10	KEYNOTE ADDRESS A roadmap for sustainability and digital disruption in the shipping market
09:30	KEYNOTE PANEL DISCUSSION Addressing the fundamental priorities for a sustainable shipping market <ul style="list-style-type: none">• Impact of evolving regulations on the shipping industry• How close is the industry to meet the 2050 decarbonization vision set out at COP21?• Highlighting the long-term technology trends that will influence the green shipping market• Tools for effective asset management
10:15	KEYNOTE PANEL DISCUSSION Instilling a digital culture into shipping <ul style="list-style-type: none">• Interpreting the biggest digital disruption trends in the market• How does digital transformation affect the workforce?• Crucial transitional steps to enhance a digital culture• Cutting the fluff – what are the cost realities?
11:00	Morning Coffee & Networking

GST: AIR EMISSIONS & ALTERNATE FUELS		GST: WATER DISCHARGES		SHIPPING2030: ENHANCING CONNECTIVITY	
11:30	Moderator's Introduction	11:30	Moderator's Introduction	11:30	Moderator's Introduction
11:35	ADDRESS IMO Update <ul style="list-style-type: none"> • 2020 sulphur limit • GHG strategies • Fuel oil quality 	11:35	PANEL DISCUSSION How are regulations shaping the long-term future of the ballast industry? <ul style="list-style-type: none"> • Changes in D-2 implementation schedule • USCG type approval considerations • Influences of regional ballast regulations on vessel operations 	11:35	KEYNOTE The next stage of digital transformation in the maritime industry
12:05	PANEL DISCUSSION Working towards a 0% market – operational challenges to cut air emissions <ul style="list-style-type: none"> • Supply and demand projections • Repercussions of new NECA & ECA zones • Developing an effective monitoring strategy • Monitoring fuel oil consumption data to comply with MARPOL Annex VI amendments • Tier III regulations 	12:15	AUDIENCE DISCUSSION Policy vs compliance – what will D-2 implementation mean for policy development to meet the deadline?	11:50	PANEL DISCUSSION Connectivity – the vessel of change <ul style="list-style-type: none"> • New trends in satellite communications for the shipping market • Transitioning disruptive technology into actual realities • Real-time connectivity cost projections
12:45	CASE STUDY Retrofitting to cut air emissions	12:45	CASE STUDY Retrofits in action – the challenges of a BWMS installation	12:30	PANEL DISCUSSION Translating connectivity into vessel efficiencies <ul style="list-style-type: none"> • Key operational factors that are driving changes in enhancing connectivity • Utilising data analytics & performance monitoring tools for optimal connection • What are the long-term benefits for shipowners? Shipowner response panel A reality check on driving connectivity

13:00	Networking Lunch
13:45	LUNCHTIME DEBATE How are international trends in trade and the political landscape impacting the shipping market?

GST: AIR EMISSIONS & ALTERNATE FUELS		GST: WATER DISCHARGES		SHIPPING2030: COLLABORATION & IOSEA	
14:15	DEBATE Mapping the realities for scrubbers on vessels <ul style="list-style-type: none"> Long-term fuel availability Payback period for scrubber investment Is this a credible & long-term fix vs solutions that will meet the 2020 sulphur limit?	14:15	WORKSHOP Ensuring long term compliance throughout operations & maintenance of a BWMS <ul style="list-style-type: none"> Ensuring operational compliance Crew training and competence for operating the BWMS Preparing for failure – what are the contingencies in place when operations don't go well?	14:15	CASE STUDY Digitising the trade chain – working closely with the right supply chain members
14:55	WORKSHOP Mapping the options to meet the 2020 deadline <ul style="list-style-type: none"> Where do refineries stand? Sampling, tolerance levels and testing methods LNG – planned infrastructure vs realistic outlay Biofuels – what are the vessel impacts? Electric concepts – are they durable enough for blue water vessels? Mixing fuel blends - is a dual approach the way forward? 	15:15	CASE STUDY How do vessels remain compliant considering amendments to MARPOL Annex I4 & V?	14:30	PANEL DISCUSSION Collaboration – the big discussion <i>Part 1</i> <ul style="list-style-type: none"> Identifying core drivers to meet end user needs Can the shipping industry pick up lessons learnt by crossing market verticals? Translating effective business models into practise for the enhanced supply chain Impact of the EU General Data Protection Regulation <i>Part 2</i> <ul style="list-style-type: none"> In-house vs outsourcing – establishing the services to come from internal and external networks Online platform services that are creating value across the industry

		15:30	CASE STUDY Recycling options for vessels	15:30	Dissecting Shipping's Internet of Things With new buzz words hitting the shipping industry on a weekly basis, hear how IoSea is driving improvements on a vessels bottom line – communication, data automation, cost efficiencies and overall productivity
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15:45	Afternoon Coffee & Networking				
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16:30	PANEL DISCUSSION Operator Forum What are the key priorities for the drivers of development in green technology and digital disruption?				
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STRATEGIC			TECHNICAL		
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17:15	PANEL DISCUSSION Taking it back to basics – finance and investment in the shipping industry <ul style="list-style-type: none"> • What is the relationship between lending and regulation pressures? • Assessing how shorter market cycles are affecting capital spend • Financial incentives available to shipowners • Payback finance models that are realistic to meet • Global or local? What are the realities in where hubs of capital sources are located? • Data gaps between shipowners and financial institutions • What are financial institutional views on digital transformation in the shipping market? 				
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17:15	ROUND ROBINS Hear as industry experts lead discussions on crucial topics hitting the market. <ul style="list-style-type: none"> • Driving environmental management from the inside, out • Harnessing renewable energy for the shipping market • Updates on lubricants for the market • New fuel testing methods 				
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Shipowner Response Panel

Hear direct from the decision makers involved with responses to discussions from the previous panels.

18:00

Chair's Closing Remarks

18:30

Day 1 Drinks Reception

20:30

Gala Awards & Dinner

CONFERENCE DAY 2 – THURSDAY 22 MARCH 2018

08:00	Registration & Coffee	08:00	BREAKFAST BRIEFING 1 Driving sustainability from shippers and cargo owners – relaying benefits from digital solutions to owners and operators	08:00	BREAKFAST BRIEFING 2 Closed door Q&A with IMO & USCG regarding ballast compliance and enforcement	08:00	BREAKFAST BRIEFING 3 Protecting your fleet data – privacy issues
GST: ELECTRIC & HYBRID CONCEPTS		GST: BIOFOULING & HULL COATINGS		SHIPPING2030: BIG DATA & SMART SHIPS			
08:55	Moderator's Introduction	08:55	Moderator's Introduction	08:55	Chair's Opening		
09:00	DESIGN DISCUSSION A closer look at electric and hybrid propulsion concepts for the market <ul style="list-style-type: none"> Exploring drivers behind hybrid & electric technologies Distinguishing between different types of systems Battery technology and life cycles Parameters to measure savings in energy efficiencies Cost of electricity from country to country 	09:00	BRIEFING GloFouling Partnership Update With IMO's renewed focus on ships' biofouling efforts, hear how this is affecting the market and how affective the non-mandatory guidelines are at tackling invasive species risks.	09:00	WORKSHOP 101 – Harnessing big data for the shipping industry In this unique format, shipowners are able to anonymously submit a challenge they face in regards to big data and will be used as a basis for discussion. Key topics and proposed solutions include the best data to capture, organise, analyse and utilised to drive vessel performance. Other considerations include transparency amongst stakeholders for data sharing to enhance productivity.		
09:45	CASE STUDY Updates regarding battery technology for vessels	09:30	PANEL DISCUSSION New trends and technologies to manage vessel biofouling <ul style="list-style-type: none"> Matching technologies to the operational profile of the vessel Developments of in-water cleaning technologies Utilising big data for performance monitoring to drive vessel efficiency 				

10:15	CASE STUDY Integration of hybrid technology across the fleet			09:50	PANEL DISCUSSION What will the smart ship look like? <ul style="list-style-type: none"> • Vessel components that are currently being digitized for enhanced productivity • Digital system interfaces • How does the supply chain contribute to 'smarter' vessels? • Bleeding from smart to autonomous to unmanned vessels
		10:30	CASE STUDY Driving energy efficiency through the right hull coating	10:30	CASE STUDY Regulating smart ships <ul style="list-style-type: none"> • Moving from guidelines to mandatory regulations? • Who will be responsible for enforcing these regulations in the long term? • Given rapid developments in smart ship technology, what will be the effect of rate of change on evolving regulations?
10:45	Morning Coffee & Networking				
GST: GREEN SHIP DESIGN		GST: HULL DESIGN		SHIPPING2030: THE SHIP OF THE FUTURE	
11:30	Moderator's Introduction	11:30	Moderator's Introduction	11:30	Realtime connections – Blockchain in the shipping industry Hear how the industry has been harnessing this paradigm to generate
11:35	WORKSHOP	11:35	CASE STUDY Air Lubrication		

	Designing the perfect vessel post-2020 Take the opportunity to contribute to the best design outcome for a vessel as the industry heads into the next generation of sustainable ships. Key considerations include engines, regulation pressures, propulsion, lubricants, coatings and more.				better connections and improve business operations for vessels.
		12:05	CASE STUDY Underwater noise	12:00	Designing vessels of the future <ul style="list-style-type: none"> • New process for designing technology • Considerations for existing vessels vs newbuilds • How is design of autonomous vessels affecting demand and supply? • Embracing technologies of the future

12:35	Networking Lunch				
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BREAKOUT 1 CYBER SECURITY & RISK MANAGEMENT		BREAKOUT 2 GREEN & SMART PORTS		BREAKOUT 3 DATA MANAGEMENT & VESSEL TRACKING	
14:00	Moderator's Open	14:00	Moderator's Open	14:00	Moderator's Open
14:05	CASE STUDY Analysing risk and regulating cyber security <ul style="list-style-type: none"> • MSC feedback in relation to cyber risk • What has the industry learnt from cyber-attacks in the maritime industry? • The road to developing regulation 	14:05	CASE STUDY Driving sustainability portside Hear how a port has been able to drive portside operational efficiency, working more collaboratively with vessels.	14:05	CASE STUDY Meeting the standards of ISO 14001: 2015 Environmental Management System

14:20	<p>CASE STUDY Back to basics – managing risk and building a cyber-resilient organisation</p> <ul style="list-style-type: none"> • Does a one size fit all approach work for mitigating risk and creating a cyber strategy? • Top down, bottom up approach – creating an awareness culture 	14:20	<p>CASE STUDY Smarter port operations Hear how a port has been able to adopt a new technology process that has driven timing & cost savings.</p>	14:20	<p>CASE STUDY Moderating fleet performance data for enhanced operations</p> <ul style="list-style-type: none"> • Standardising data • Practical integration of data into day-to-day vessel operations • Working collaboratively between vessels and onshore management centres
14:35	<p>CASE STUDY Cyber solutions to develop a strong security strategy</p> <ul style="list-style-type: none"> • Latest trends in cyber security technology • Operational approach towards reducing cyber weaknesses in organisations 	14:35	<p>CASE STUDY Developing port infrastructure</p> <ul style="list-style-type: none"> • Identifying inefficient processes • Mapping out a new framework for portside infrastructure • Where is the investment coming from? • Factoring in port security 	14:35	<p>CASE STUDY Vessel tracking efforts in conjunction with sustainability paths and pressures from digital transformation</p> <ul style="list-style-type: none"> • Connections between on-shore bases and vessels • Evidence from performance monitoring translating into improved efficiency • Real-time results for quicker decision making
14:55	<p>PANEL DISCUSSION Cyber security in the maritime industry</p> <ul style="list-style-type: none"> • How can the function of a CIO drive organisational awareness? • Retaining flexibility towards technology change • Data flow between different levels of stakeholders 	14:55	<p>PANEL DISCUSSION Addressing portside processes that need to change to meet sustainability and technology pressures</p> <ul style="list-style-type: none"> • Water quality & underwater noise • Data management • Efficient cargo exchange • Overall emission control 	14:55	<p>PANEL DISCUSSION Data & tracking challenges in the industry</p> <ul style="list-style-type: none"> • Regulation pressures on transformational change • Cost pressures vs digital innovation • Privacy of data vs collaboration & supply chain efforts
15:25	Moderator's Close	15:25	Moderator's Close	15:25	Moderator's Close
15:30	Afternoon Coffee & Networking				

16:00

PANEL DISCUSSION

Crewing in the 21st Century

- Where are the gaps in crewing now?
- The role of the ship manager
- Seafarers handling regulations
- Balancing age of seafarer, skills to be learnt and learning on the job
- Do we have a long-term solution for the gap in crewing quantities and skills?

16:30

INDUSTRY SUMMARY PANEL

Avoiding environmental inertia – addressing decarbonization

- Identifying the gaps between regulation and implementation
- The role of leadership and organisational transparency in driving decarbonization
- Political and trade influences on the long-term shipping market
- Climate risk and carbon pricing
- Harnessing digital disruption and new technology as a tool for total decarbonization

17:15

Chair's Closing Remarks