

APRÈS DEMAIN

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(RE)IMAGINE THE MARITIME INDUSTRY IN A DIGITAL WORLD

Examining the future of maritime industry for successful investment

his report has been prepared for examining the maritime industry through the lens of a venture capitalist. It includes an external analysis of the driving-forces that shape the industry (areas, technologies, and key trends), an analysis of the recent evolution of the business models, and some principles for future successful investments.

This report is based upon sources of information believed to be reliable such as management literature, research papers, company reports and documents, and desk research.



WHERE TO PLAY

efined as "all enterprises that own, operate, design, build, provide specialized equipment or services to all types of ships and other floating entities" (Melbye et al., 2015), the maritime industry has always been a traditional playground for private equity firms because of its reputation of being an historically owner-operated business, a capital-intensive, and growing steadily industry.

Thus, regarding the global marine vessel market only, its size was estimated at US 201.36 billion in 2018 and is expected to reach US 220.18 billion by 2026, exhibiting a CAGR of 1.10% during the forecast period (Fortune Business Insight, 2020). An integral part of a broader industry commonly referred to as the "blue economy", the maritime industry generally covers the following areas: shipping, ports, shipyards, and maritime equipment or service provider (Jacobsen, 2011). The creation of value is mainly achieved through the shipping activities.

	Established industries	Activities	Sub-activities	
Blue Economy	Maritime industry	Shipping Ports Shipyards Maritime equipment / service	Offshore, drilling and production, Shortsea, Deepsea Trade, logistic, supply, security Offshore vessels, car or passenger ferries, coastal vessels Security, repair, mechanical / electronic equipment, financial and legal, storage	
	Food industry	Capture fisheries Seafood processing	Boiled Smoked Canning Fermentation Frozen Salted	
	Offshore industry	Deepwater oil and gas Mind energy Coean renewable energy Mining	Topsides (production and drilling facilities, power and utilities, accommodations, ops support) Hull (global performance) Mooring system Riser system	

Figure 1: Part of the maritime industry within the "blue economy" (source: author analysis)/

Because the maritime industry depends on the global maritime trade and the shipping demand, it is highly influenced by the performance of the world economy (Stopford, 2009). The demand for ship increases during economic growth and decreases during the recession.

This is why the maritime industry is currently suffering the full force of the COVID-19 crisis (A -7.3% drop in the world sea freight market is thus forecast, Transport Intelligence, 2020). But there are other forces that shape this industry: the environmental regulations (the maritime industry has become the focus of green initiatives and fully engage in the course to decarbonization, i.e. Poseidon principles), and the digital revolution of course.



Stressed by physical and financial volatility, the maritime industry has been slow to ride the wave of digital transformation, to modernise its processes and to adopt new, faster and cheaper technologies, and has therefore failed to anticipate the profound change taking place.



The digital revolution has completely transformed the nature of the existing rivalry within the maritime industry, making it increasingly intense. Indeed, while the cost of capital or the ownership of assets such as ships or warehouses were strong barriers to entry for potential competition, digital has made it possible for a whole new generation of new entrants to emerge on the market. This new wave of start-ups is challenging

traditional players by offering products and services that improve or leverage existing business models (LBM: by improving efficiency, reducing costs, simplifying supply chain) and by creating new business models (RBM: marketplaces, multi-modal collaborative platforms). There is then a digital disruption: a loss or shift in value between traditional actors and new entrants who divert value from all or part of the value chain.

		Key Benefits	Key Trends	Key Technologies
Digital Revolution	Existing Business Models	Cost reduction Performance enhancement Capacity optimisation Trade prediction Process optimisation and simplification	Revenue management Real time information Automation Collaborative robots Collaborative platforms Bill of lading automation and security Fuel and energy management Advanced navigation Smart containers Capacity management	Data and analytics Blockchain Internet of Things (IoT) Al Global trade management Electronic communication
Digita	New Business Models	"One-click" online booking platforms High-margin services (intermodal and warehousing solutions) Focus and specialization	Marketplaces Multi-modal collaborative platforms Supply-chain transparency Sensitive shipping	Digital forwarding Enterprise technology SaaS PaaS

Figure 2: Impact of the digital revolution on maritime industry business models (source: author analysis)

These new start-ups allow traditional players to take a new look at the maritime industry by helping them re-imagine their business, accelerate their digital transition, but also create real opportunities for growth through innovation (via incubation or excubation programs according to the innovation stage). This wave of new players shakes the industry by

bringing many benefits: cost reduction, performance enhancement (efficiency), capacity optimisation, trade prediction, process optimisation and simplification through automation, or visibility and transparency.

This is the reason why more and more private equity firms are investing in start-ups or technologies related to the maritime industry. Indeed, according to the Journal of Commerce (2017), investors injected more than \$430 million into 29 companies dedicated to introducing technology into the transportation and logistics industries between 2012 and 2017 and that nearly 90% of this money was invested between 2015 and 2017, with the largest investment being made in 2016 (i.e. Flexport or Freightos).

Trends	Sample of Start-ups	
Marketplaces	Freightos, iContainer, GoCargo, xChange, CoLoadX, Kontainers, Logistitrade, MyForwarder, Nyshex, Simpliship, Tendertool, Transnations, Vamaship	
Pricing	Xeneta, PredictHQ	
Supply-chain optimisation	ClearMetal, Project44, Fourkites	
Real-time tracking	AIM, Awarepoint, Particle	
Capacity optimisation	HawkEye360, Kayrros	
Trade prediction	SpaceKnow	

Figure 3: Sample of new maritime industry new players per key trend (source: author analysis)

HOW TO WIN

or all the reasons mentioned above, there is a real interest for a venture capitalist to invest in the maritime industry and through its financing in the new wave of maritime industry start-ups, to actively contribute to reinventing this industry.

Nevertheless, these investments present not only risks related to the industry itself (regulatory, market or physical risks) but also risks related to the technologies such as: shift in R&D and CapEx to more sustainable options, loss of returns from sunk costs into seafaring assets.

In order to limit all these risks, a number of investment principles could be adopted (Investment strategy selection and decision-making):

Purposeful

Reconciling financial return objectives with sustainability objectives (e.g. by investing in startups that contribute to the decarbonization of the industry through new energy solutions).

Precautionary

Limit opportunity profits by creating an investment portfolio consisting of 80% of startups focused on improving existing business models (Series B+: startups that are already generating revenue and need

funds to grow, scale-up their business or expand into new markets), and 20% of startups focused on creating new business models (Seed, Series A).

Investment Portfolio	Business Models	Funding stages		
80%	Existing	Series B, C, D		
20%	New	Seed, Series A		
Sustainable Maritime Industry				

Figure 4: Maritime industry startups investment portfolio (source: author analysis)

Impactful

Ensure that the investments provide social, environmental and economic benefits for the current and the future maritime industry.

Solution-driven

Direct investment towards innovative solutions to maritime industry challenges (both land-based and ocean-based) - including circular economy approaches.

Partnering

Partner with key shareholders and stakeholders (public, private and non-government sector entities) to accelerate progress towards a sustainable and successful maritime industry.



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