

New Technologies in Shipping Mr Jon Key

Director of Strategy, Innovation and Transformation

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Introduction – Jon Key





- Director of Strategy, Innovation and Transformation at V.Group
- Background in strategy, innovation and transformation in many companies
- Maritime experience in equipment manufacturing, services, ship management and offshore
- Round-the-World yachtsman.
 Grandfather sunk twice in Battle of Atlantic
- Passionate about clients and sefarers, innovation and collaboration



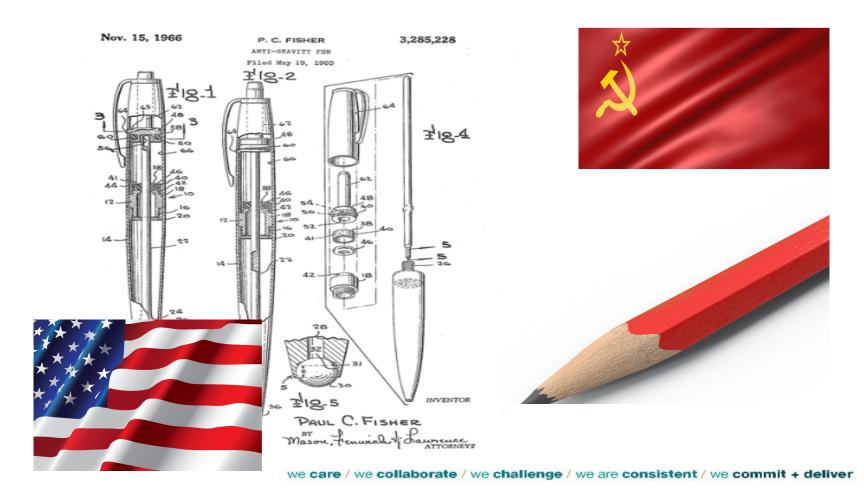
Global leader in marine support services

44,000 Seafarers 60 Offices 30 Countries 1,000 Vessels

- > Leading provider of integrated services
- Market leader in tanker ship management
- > Setting the market agenda
- High ethical standards and values

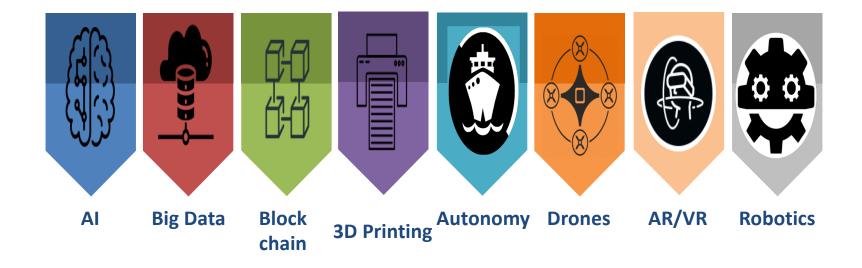


Blinded by science



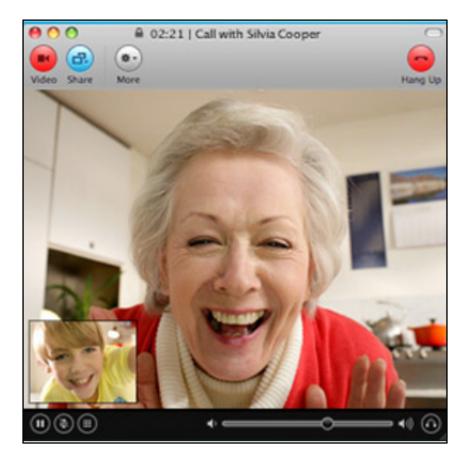


New technologies ... and not so new





Personal experiences ahead of work





More work to do on translating to work







Technology advances in shipping



we care / we collaborate / we challenge / we are consistent / we commit + deliver



The mother of invention

Environmental efficiency Ship intelligence Fuel diversity Electric ships and systems Harsh environments New business models Ship design flexibility **Automation** Connectivity and communication Al, data, analytics

Technology, like all innovation, must drive value







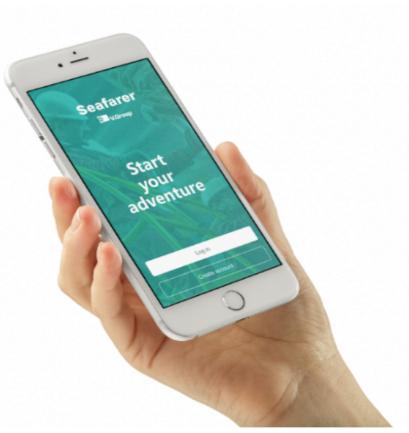
Collaboration: the marine "ecosystem"

Investors	Charterers	Owners	Supporting services
Ship builders	Ship yards	Engine manufacturers	Crewing companies
Equipment manufacturers	Ship managers	Insurers	Seafarers
Ship design	Ports	Regulators	Technology companies
Start-ups	Consumers	Interest groups	Classification societies
Flag	Training providers	Supply chain	
Vessel types, geographies, jurisdictions			

V.Group

Technology in Crewing





DECIDE WITH DATA MANAGE WITH INSIGHT

Real-time ship management Your Data. Your Decisions. Anywhere.



SAFETY & COMPLIANCE | CREWING | PLANNED MAINTENANCE | PROCUREMENT | FINANCE



Challenging the way we do things



we care / we collaborate / we challenge / we are consistent / we commit + delfver



The next "fleet cell of the future"



V.Group

Nothing new under the sun











