

## EXPLORING HOW SUPPLIERS CAN FIND SOLACE FROM RETROFITS DUE TO BUDGET CUTS FOR NEWBUILDINGS



### DAMEN SHIPYARDS























- Family owned maritime multinational from The Netherlands
- Niche markets for new building
- Repair & conversions
- 36 yards world wide
  - 23 new building
  - 18 repair and conversions
- 2018: 2 B€ turnover
- >12.000 people employed



# INTRODUCTION MICHEL GOEDEGEBUURE

- Master of Science in Aerospace Engineering, Delft University of Technology
- Experience
  - Aerostructures industry
  - Industrial production
  - Maritime Industry (Damen Shipyards)
- International experience
  - Supplier to European Aerospace and Industrial Clients
  - Managed entities in The Netherlands, Spain and Singapore
- This webinar: my personal opinion

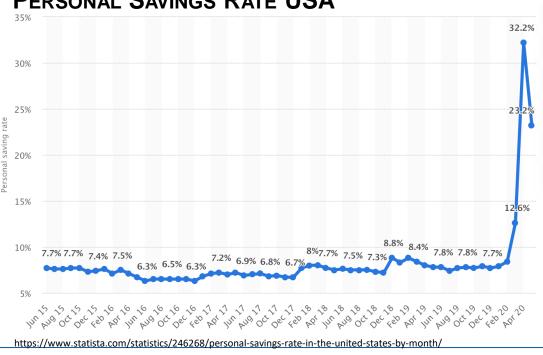




## **COVID-CRISIS: OUTLOOK**



- Opinion: the economy is not going to 'bounce back'
- Less demand for maritime transport and services
  - People are careful spending money (see savings chart)
  - Less travel
  - Less consuming of goods





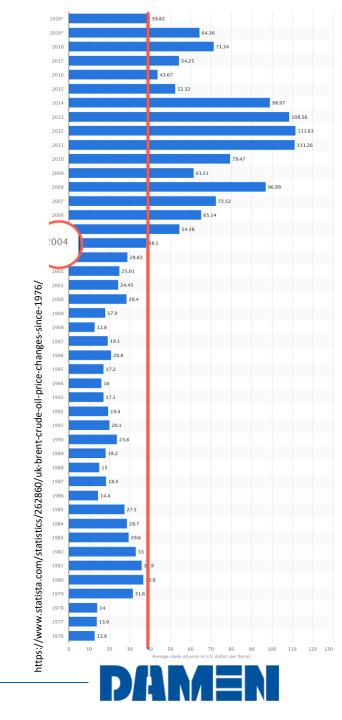




#### PERSONAL SAVINGS RATE USA



- Oil price is at the lowest point since 16 years (see graph)
- Interest rates are low
- Talented people are searching for work
- Staff and other companies are open for change
- There is time now to redesign your product and business model
- Time available to upgrade staff and hardware

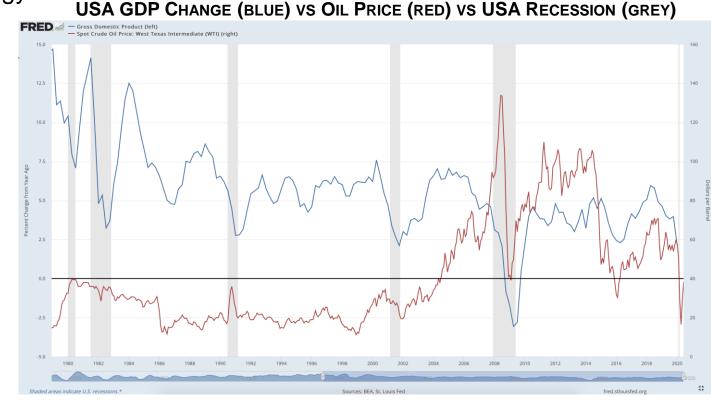


# MARITIME INDUSTRY - OVERALL

- Historically: lagging economic development
- Low oil price has large impact on maritime activities in oil & gas and renewable energy (ref: 2015 oil price drop and subsequent effect on marine industry)
- Some sectors in marine industry flourish with low price of energy, e.g. public transport new building

#### 2020

- Low oil price and economic recession / depression coincide
- World wide, no regions exempt
- Expectation: ship owners will delay investments
- Further price fighting



https://fred.stlouisfed.org/series/GDP#0



# **OPERATORS PERSPECTIVE**

Market is uncertain for immediate futureHigh speed of technological development

#### Investing in new vessel

- Return on investment is long and high risk
- Fit with future business model could be weak

### Retrofit

- Low CAPEX upgrade of ship
- Necessary to comply with rules <u>and</u> win the trust of crew and clients

### Mothballing and disinvestment

Reduce OPEX





# RETROFIT, REPAIR AND MAINTENANCE: WHY NOW?

#### License to operate

Safe distance rules for crew and clients

### Opportunity

- Maintenance and repair does not hurt earning capacity
- Extend the (economical) useful life of the asset
- Lower OPEX
  - Smaller crew by more automation and autonomation
  - Remote monitoring and maintenance





## **OPPORTUNITIES FOR YARDS AND SUPPLIERS**

- Remote sensing and control
- Automation of operating the vessel
- Educating crew to perform 'higher level' maintenance and repair
- Telecommute of engineer

