SMARTSHIP architecture: Beyond DANAOS fleet condition based monitoring solution

SMARTSHIP 2nd Training session

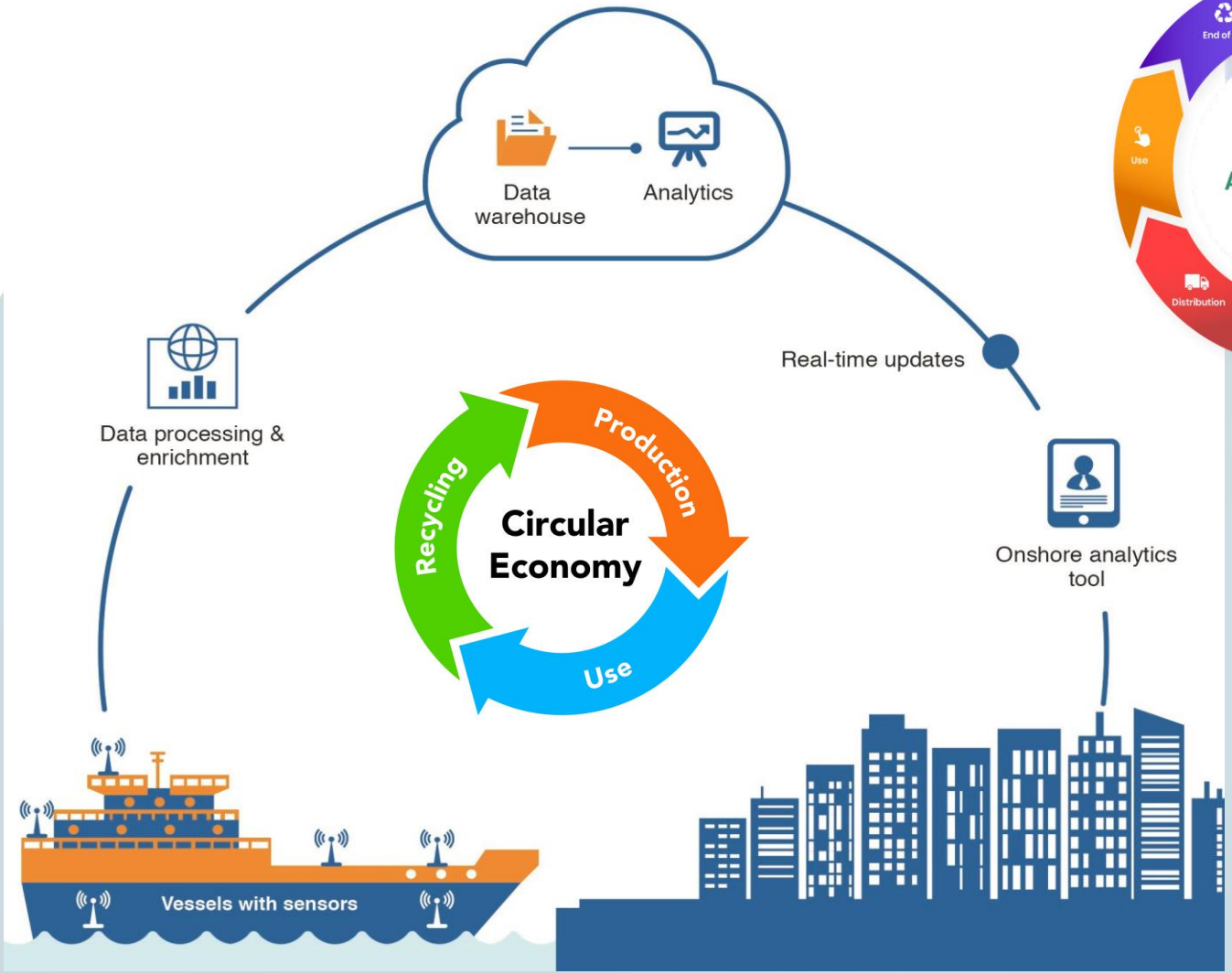
The SmartShip project has received funding from the European Union's Horizon 2020 research and Innovation programme under the Marie Skłodowska-Curie Grant Agreement No 823916

Towards Green Shipping (Reducing GHG by 50% in 2050)

TRADITIONAL APPROACH:
Hardware driven

- *Huge Capital expenditures*
- *Unpredictable Return of Investment*
- *Feasibility of solutions is under investigation*
- *Low Motivation for Investment from the owner*

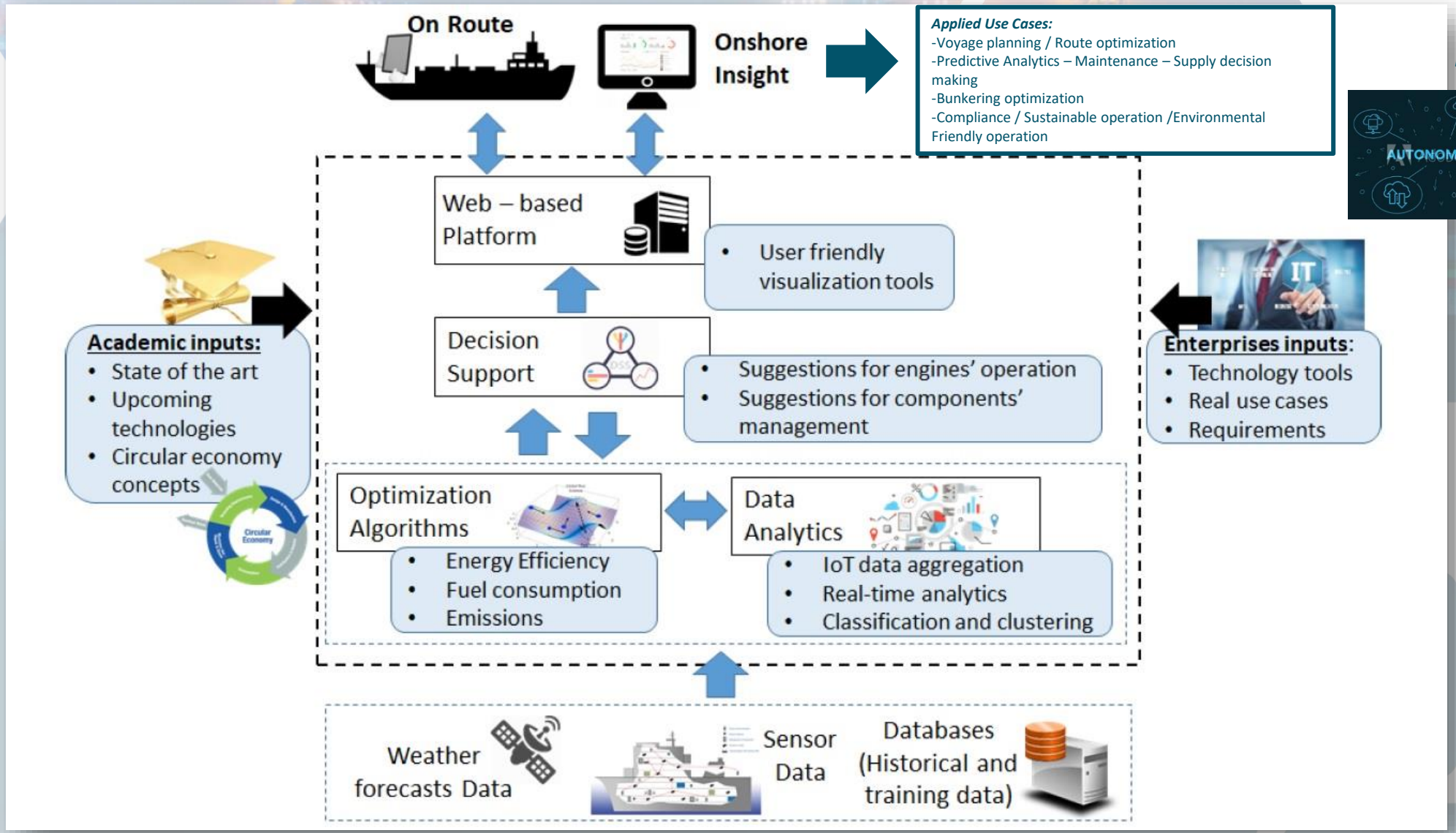
Towards Green Shipping (Reducing GHG by 50% in 2050)



OUR MODERN APPROACH:
Data Driven Model

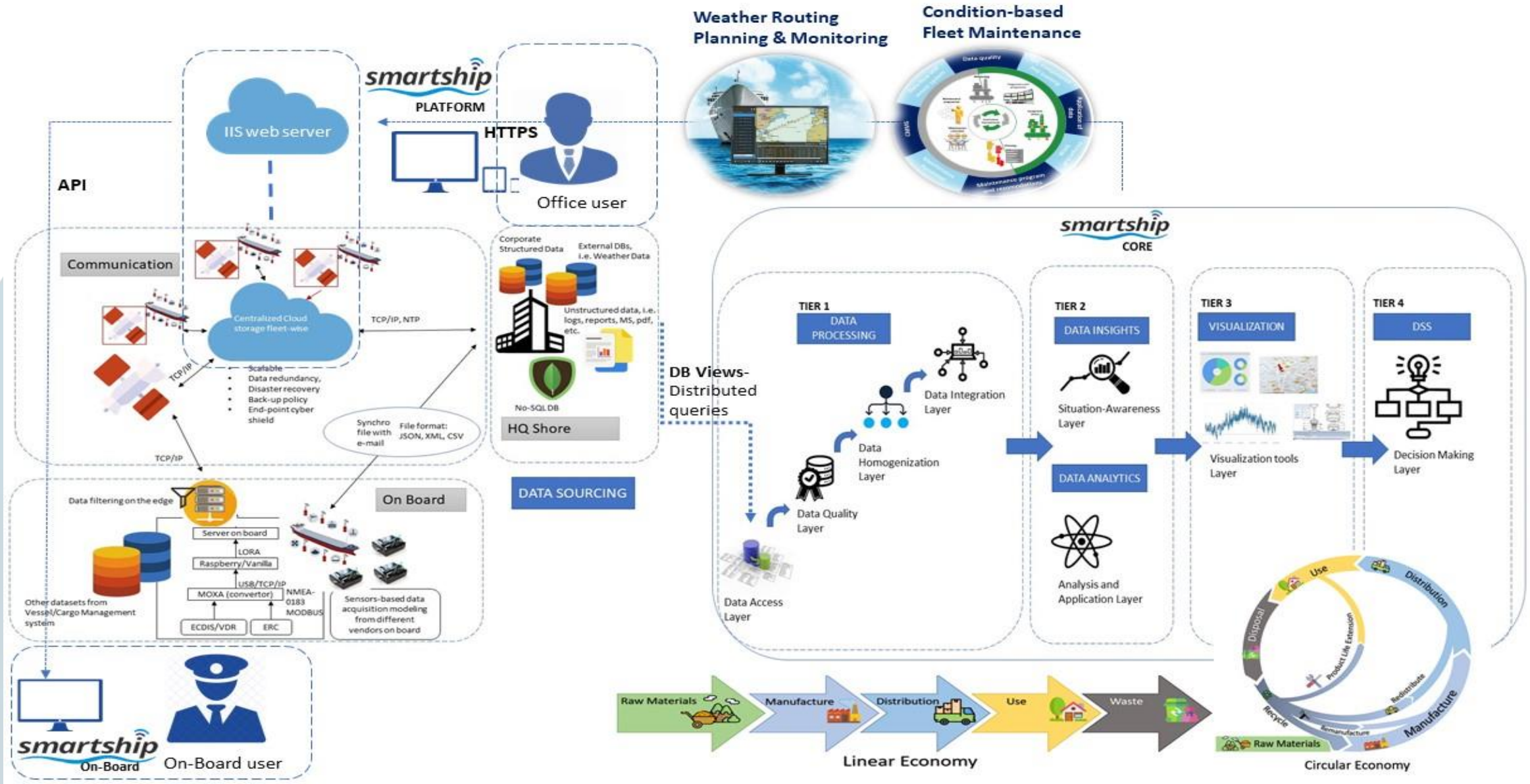
- *Re-Thinking. Monitor, Analyze, predict and improve operation in a cost effective manner*
- *Life Cycle Multi-parametric Analysis for decision making*
- *Sustainability and Compliance*
- *Circular Economy design*

Solution

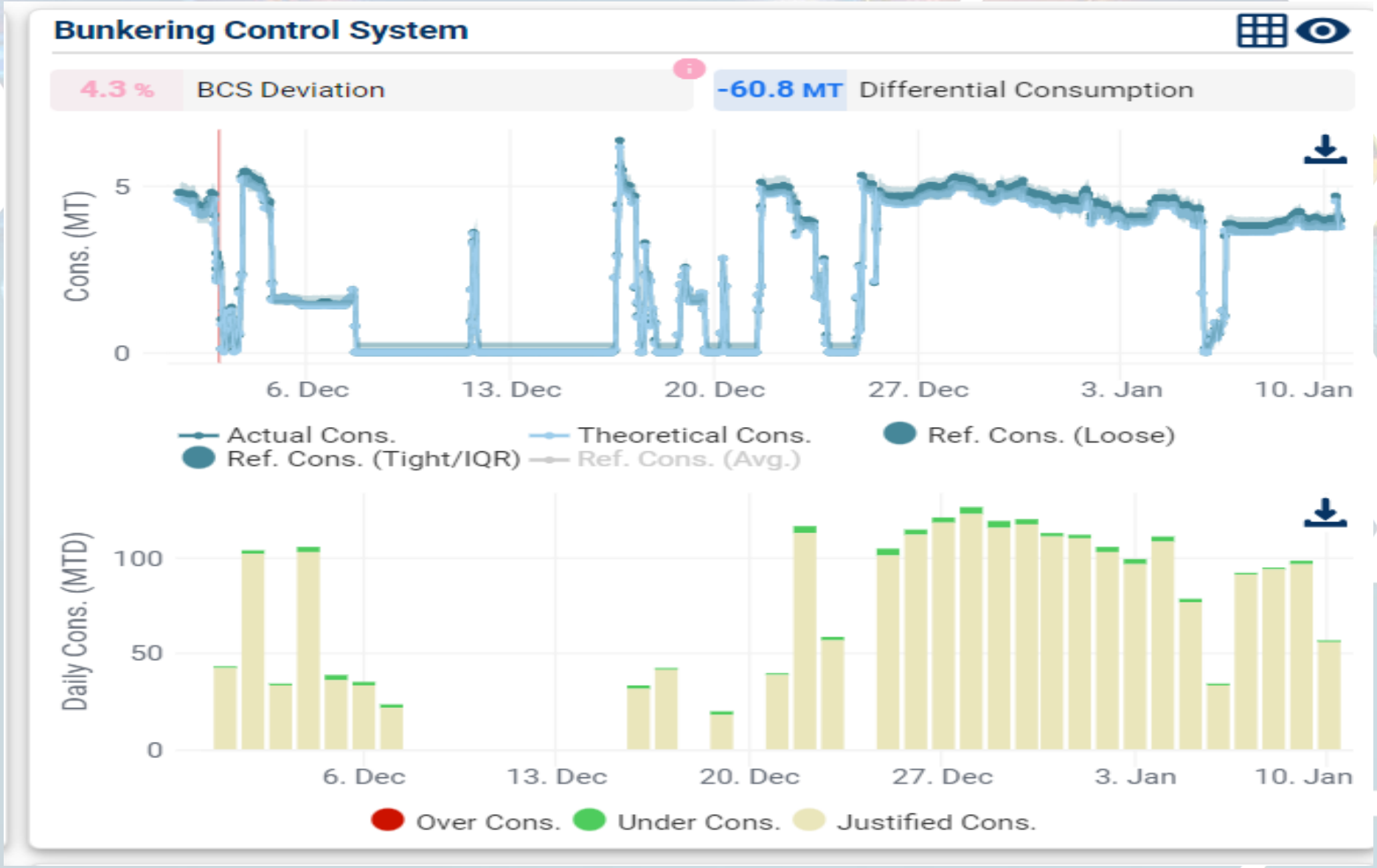


Novelties

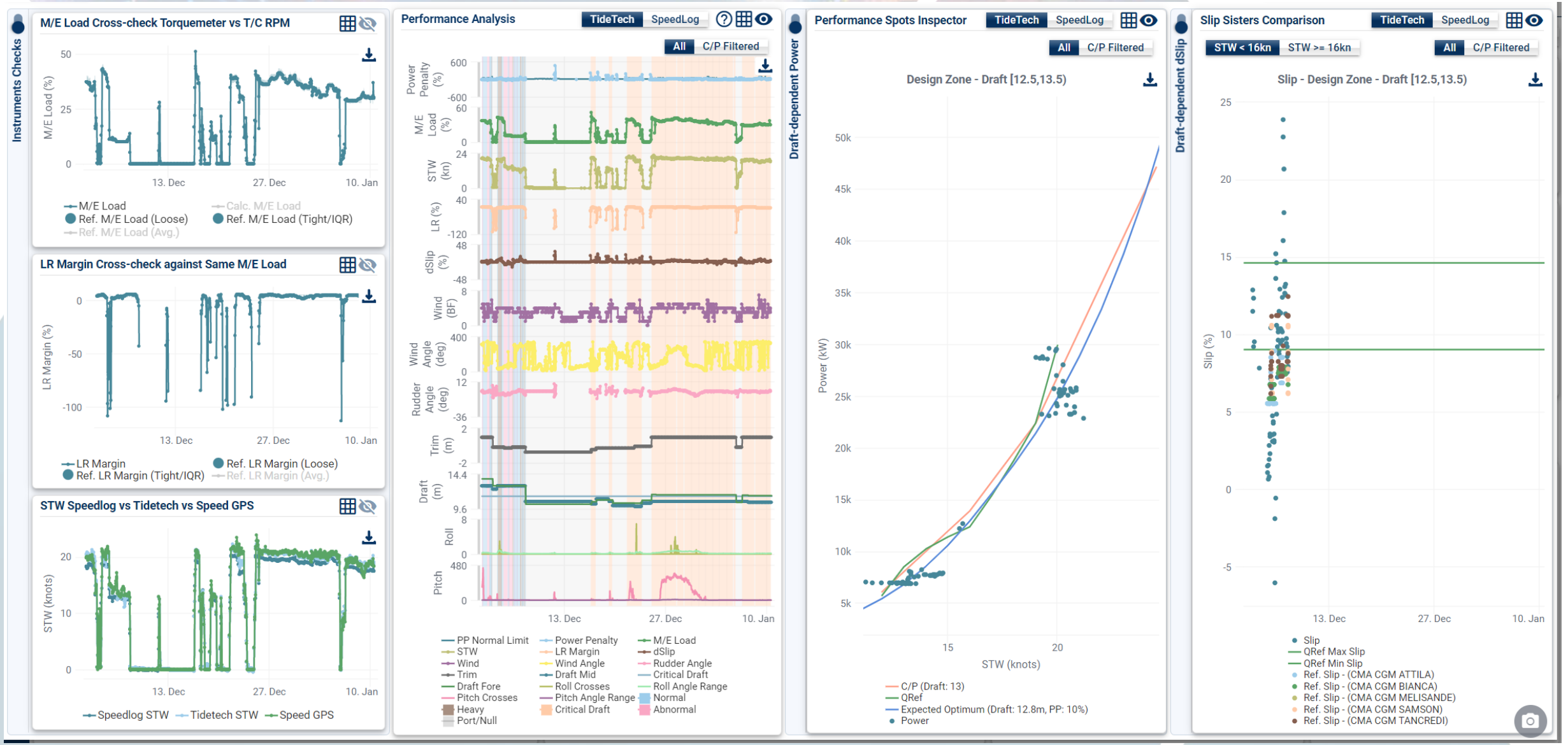
Architecture design and Use Cases



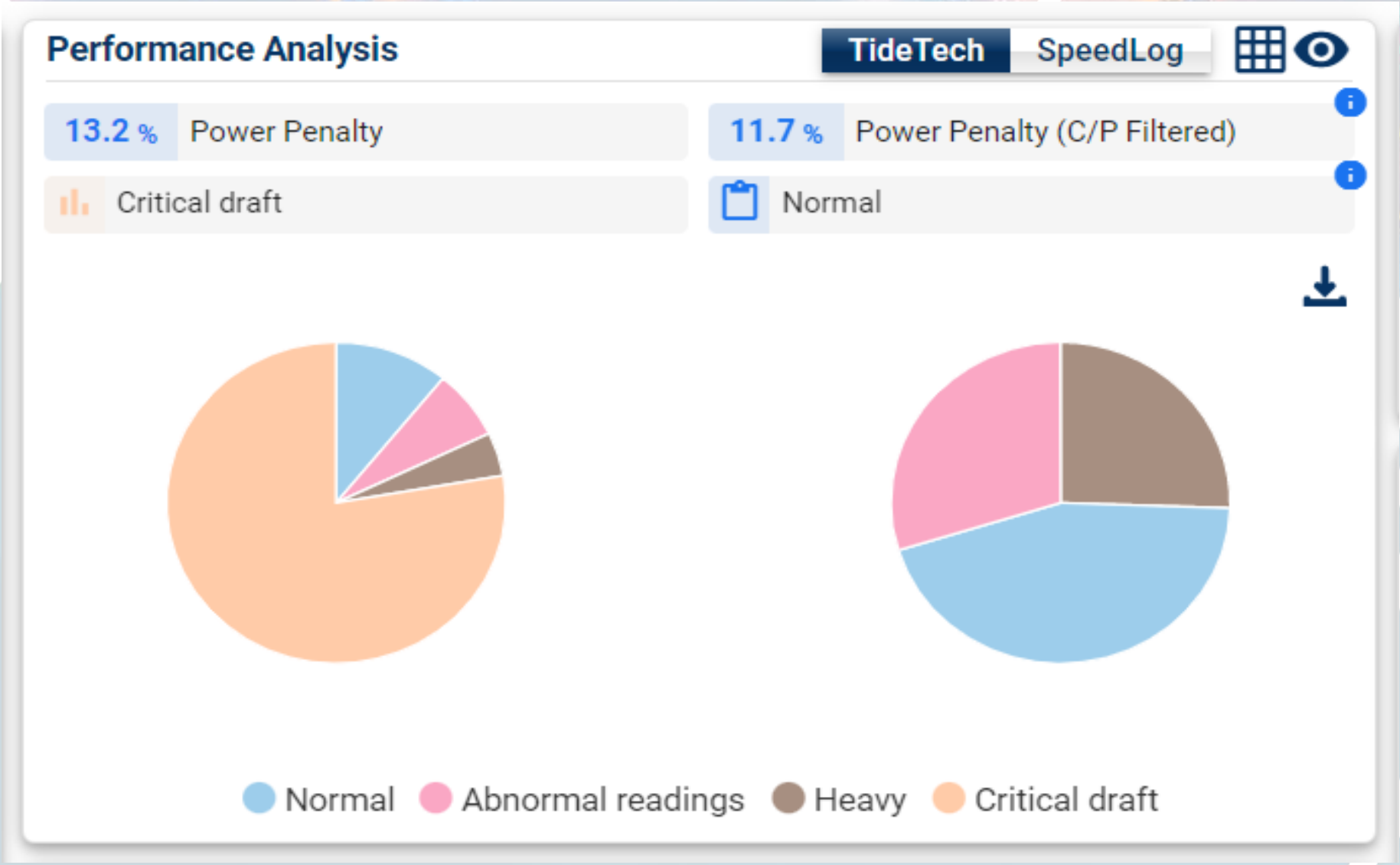
DANAOS WAVES: Reporting Deviation



DANAOS WAVES: Fleet Performance Dashboard



DANAOS WAVES: Compliance Performance Analysis



Circular By Design

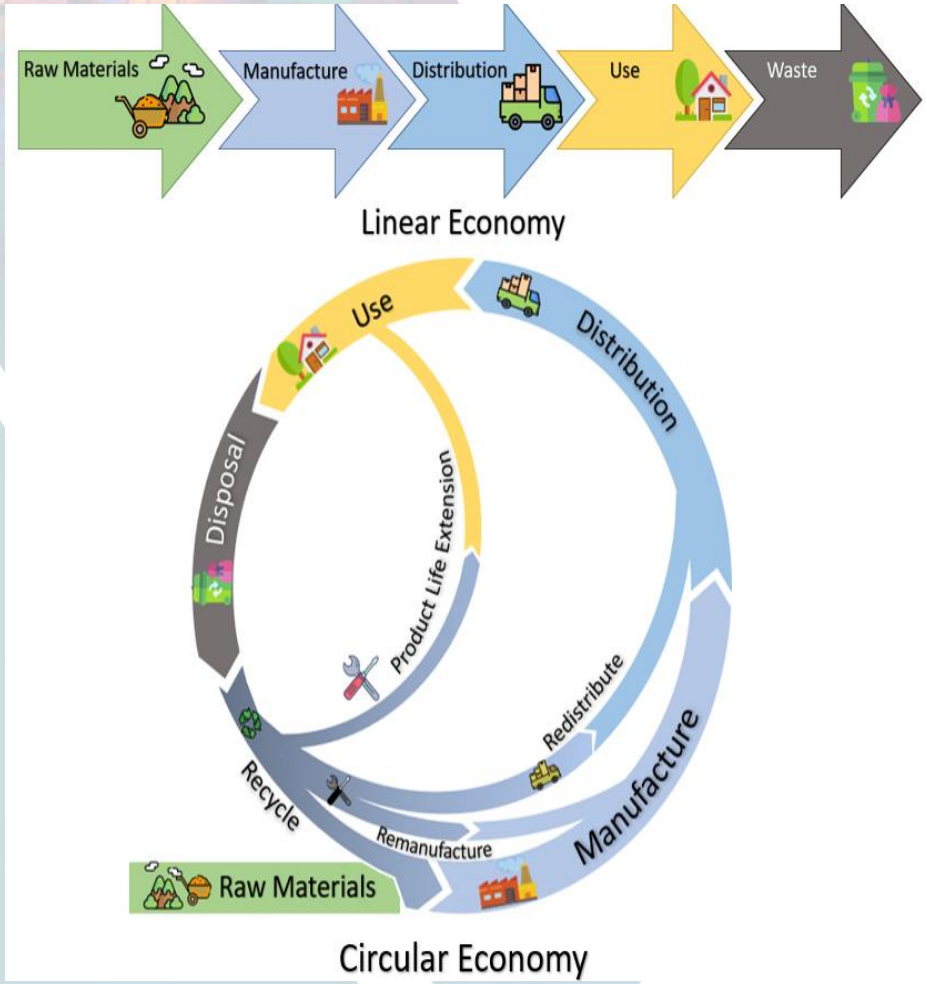
Emerging Class of Smart Assets: Maximize sustainable vessel utilization and ensure long-lasting durability of the asset

Value Driven: Extract value from the large amount of data generated by smart maritime assets. Effective flow of Information for natural capital rebuild

Eliminate Waste: Through Re-Using of data and lean management in decision making for fleet operation and maintenance

Green Thinking and Sustainability: Minimize energy consumption per unit by combining technologies effectively

Integrated Framework: Extends across the entire fleet and lifetime of the vessel. Values drivers are paired and efficiency is achieved through comparison analysis. Critical mission objectives are met.



Thank you!

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