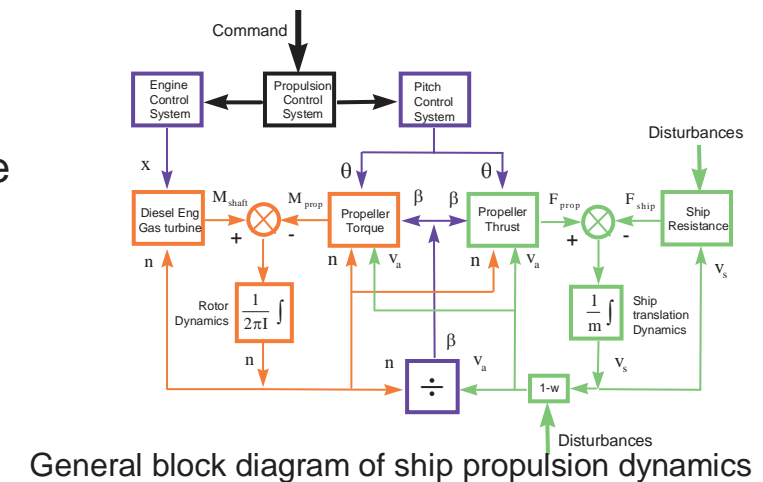


Task 6.1: Overall ship power train optimization

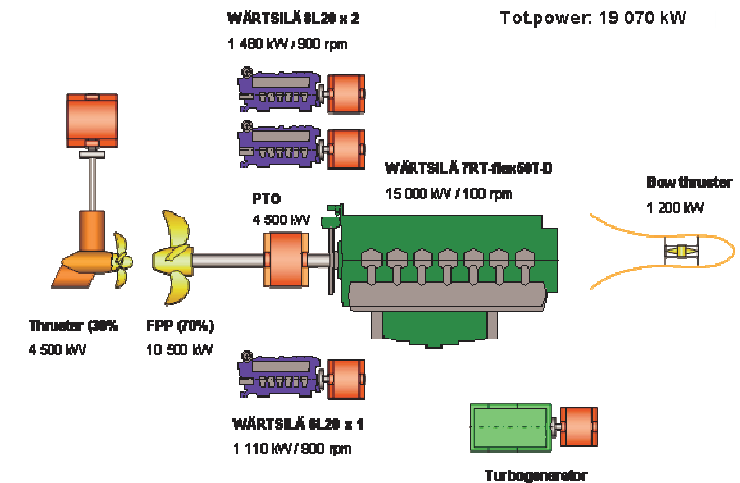
Objectives:

- Consolidate a methodology and develop an associated tool for ship propulsion power train optimal configuration and performance
- Reduce overall pollutant emission and increase propulsive efficiency
 - 3% by more effective operation in real live service conditions
 - 3% due to design optimized for real service conditions



Progress Highlights:

- Methodology and associated tool
- Description of main propulsion train component stationary and dynamic characteristics
 - Including propulsion systems, engines, e-motors, gears& shafts, controllers, hull resistance and manoeuvring models.
- Tool development stationary propulsion power train
- Dynamic models of main propulsion train components



Example configuration: Pulling thruster and fixed pitch propeller in contra-rotating setup

Partners:



HERCULES-B