

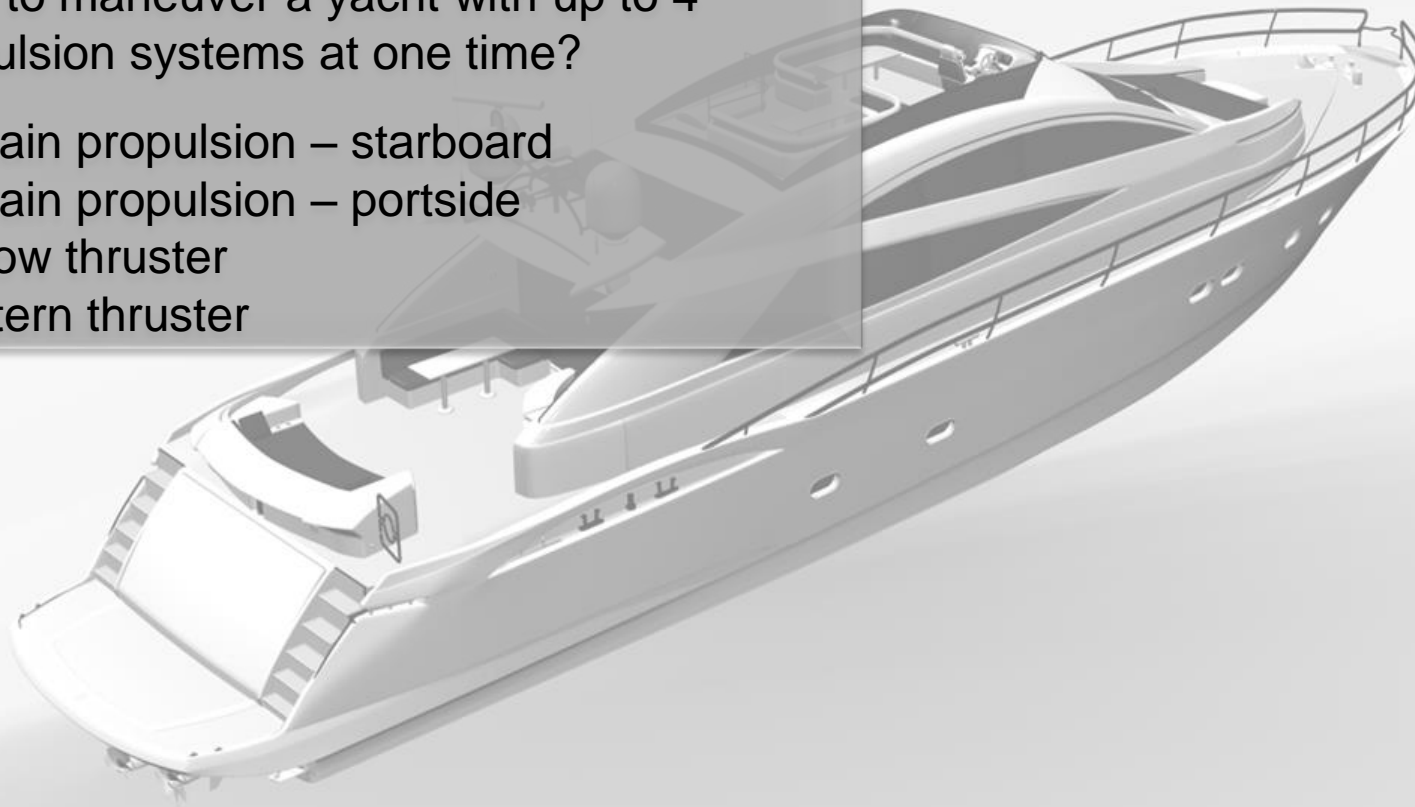
## MAREX 3D JOYSTICK – FEEL THE PRECISION



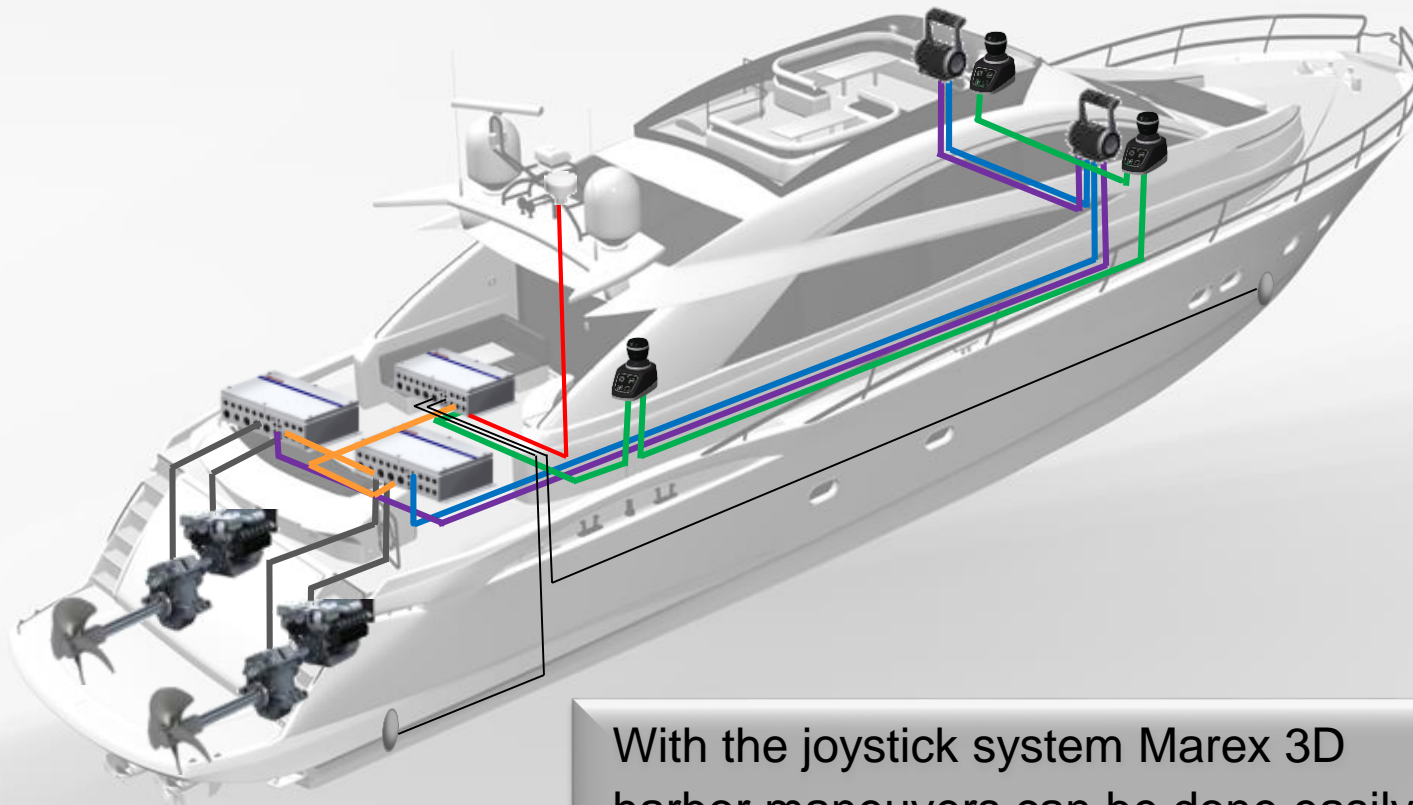
## Easy Maneuvering

How to maneuver a yacht with up to 4 propulsion systems at one time?

- Main propulsion – starboard
- Main propulsion – portside
- Bow thruster
- Stern thruster



## Easy Maneuvering



With the joystick system Marex 3D  
harbor maneuvers can be done easily

## Main features



Intuitive precise maneuvering

State-of-the-art & ergonomic design

Any combined movement possible(x,y,z)

Heading compensation (optional)

Thruster only mode

Any thruster interface available

Turnkey integrated solution (CAN link)

## Propulsion control modes

### 3D mode

- Recommended for harbor maneuvers
- Joystick is the only control device
- All propulsion elements will be controlled via a vector control system
  - Engine speed
  - Clutch engagement or trolling
  - Thruster control

## 3D mode - easy maneuver

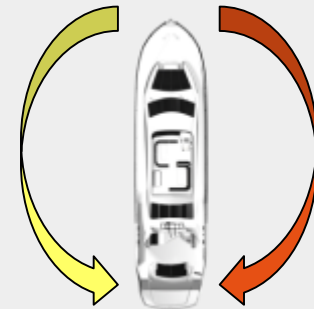
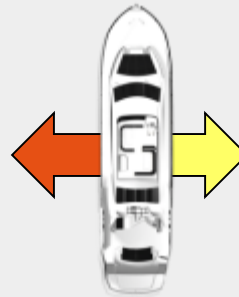
Ahead and astern



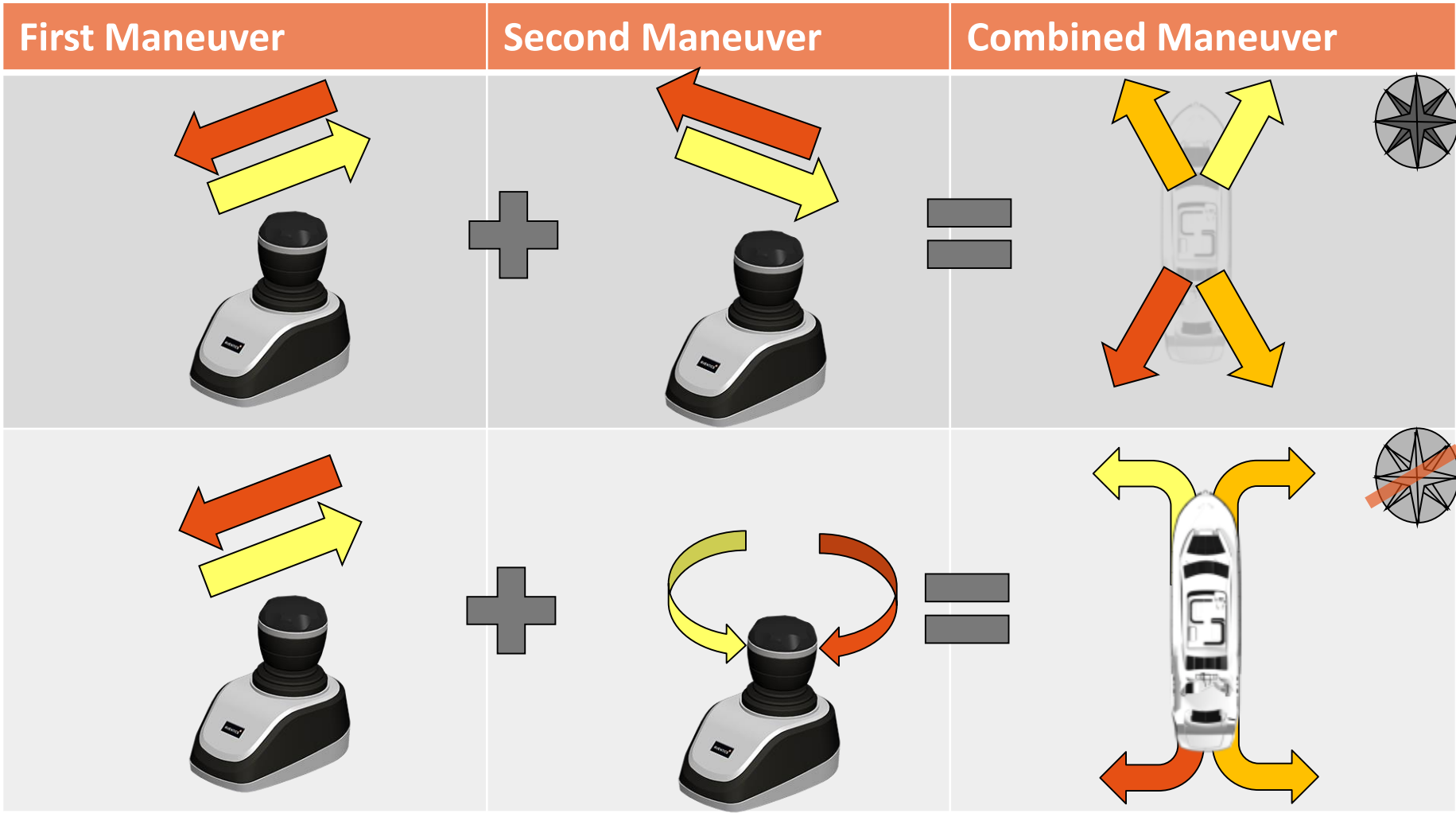
Lateral movements



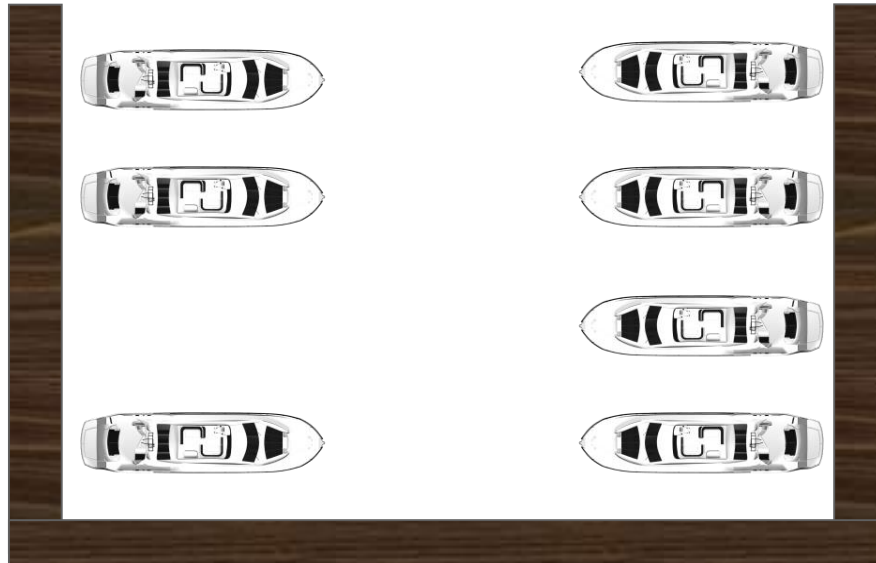
Rotational movements



## 3D mode – complex maneuver



## 3D maneuver mode



Linear movements

Rotational movements

Lateral movements



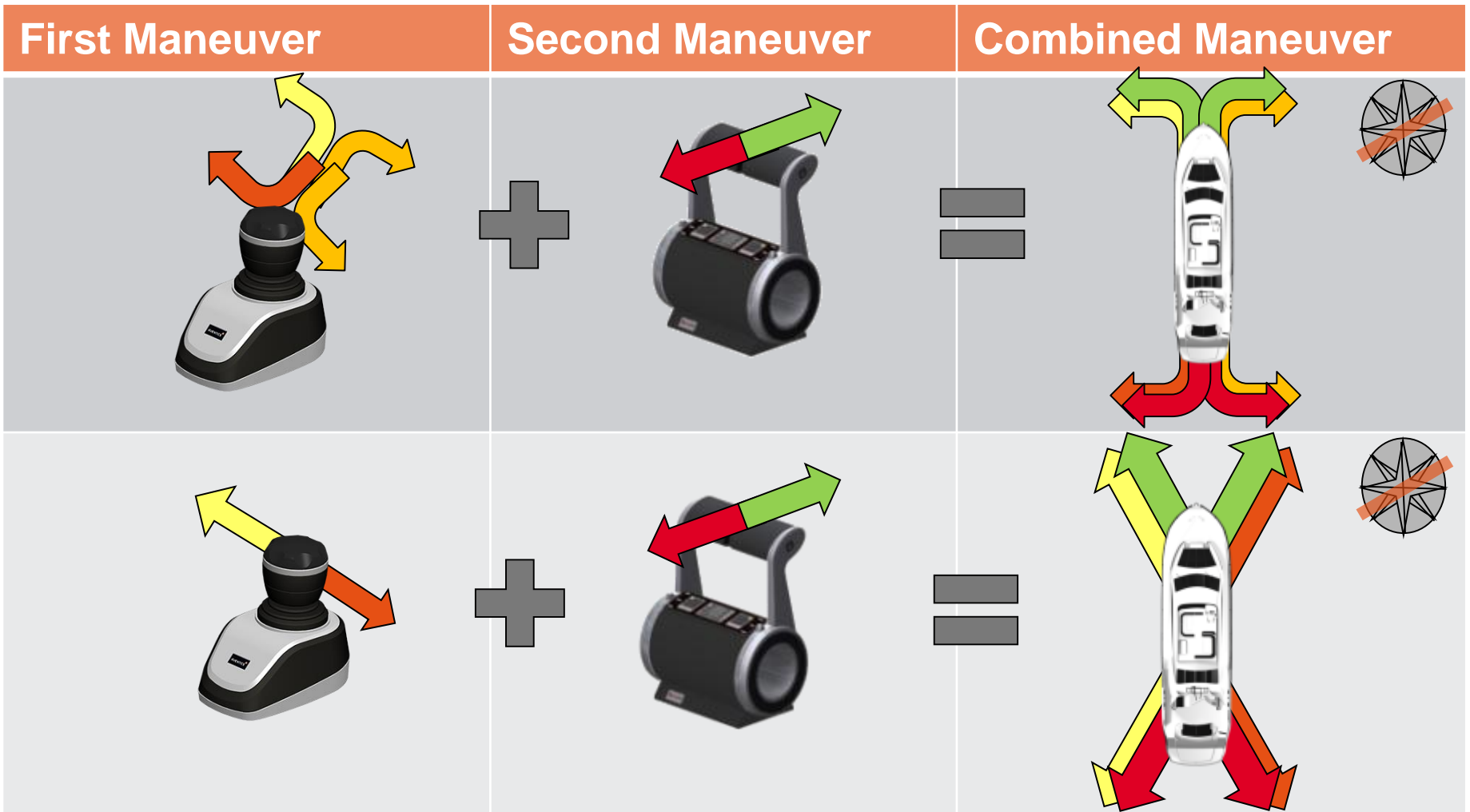
## Propulsion control modes

- **Thruster Mode**
  - Manual control of all propulsion elements
  - Joystick operates bow and stern thrusters
    - No additional thruster levers necessary
  - Control head operates main propulsion systems

## Thruster mode – manual thruster control

Individual control Specific movements	Combined control Lateral movements	Combined control Rotational movements




## Thruster mode – manual control with paired lever



## Integration

- Remote control system integration
  - Optimized for integration into Marex ECS and Marex OS III systems
  - Subsequent extension of Marex OS II systems
- Thruster connectivity
  - Open interface to major thruster interfaces (Dig., anal., NMEA2000)
  - Licensed connection to Side power “S-Link”
- Engine & gear connectivity
  - Open interface to major engines and gearboxes
- GPS-Compass connectivity
  - Optimized GPS-compass optionally in scope of supply
  - Integration of available NMEA 2000 compass on request
- **Complete control system from single source**

## Dynamic Positioning Features

Hold Modes	Heading	Position	Requirements	Use Cases/ Benefits
<b>Heading Mode</b> 	Fixed	Floating <i>According to wind and current</i>	Included: New joystick type531 and compass needs to be installed	- Sports Fishing - Keep the view to sunset, skyline, etc. -...
<b>Hold Position</b> 	Fixed	Fixed	DP-module incl. GPS	- Waiting at watergates, fuel stations, etc. -...
<b>Virtual Anchoring</b> 	„Natural“ <i>According to wind and current</i>	Fixed range	DP-module incl. GPS	- Keeping position with optimized fuel consumption and noise

## Benefits

Timeless design

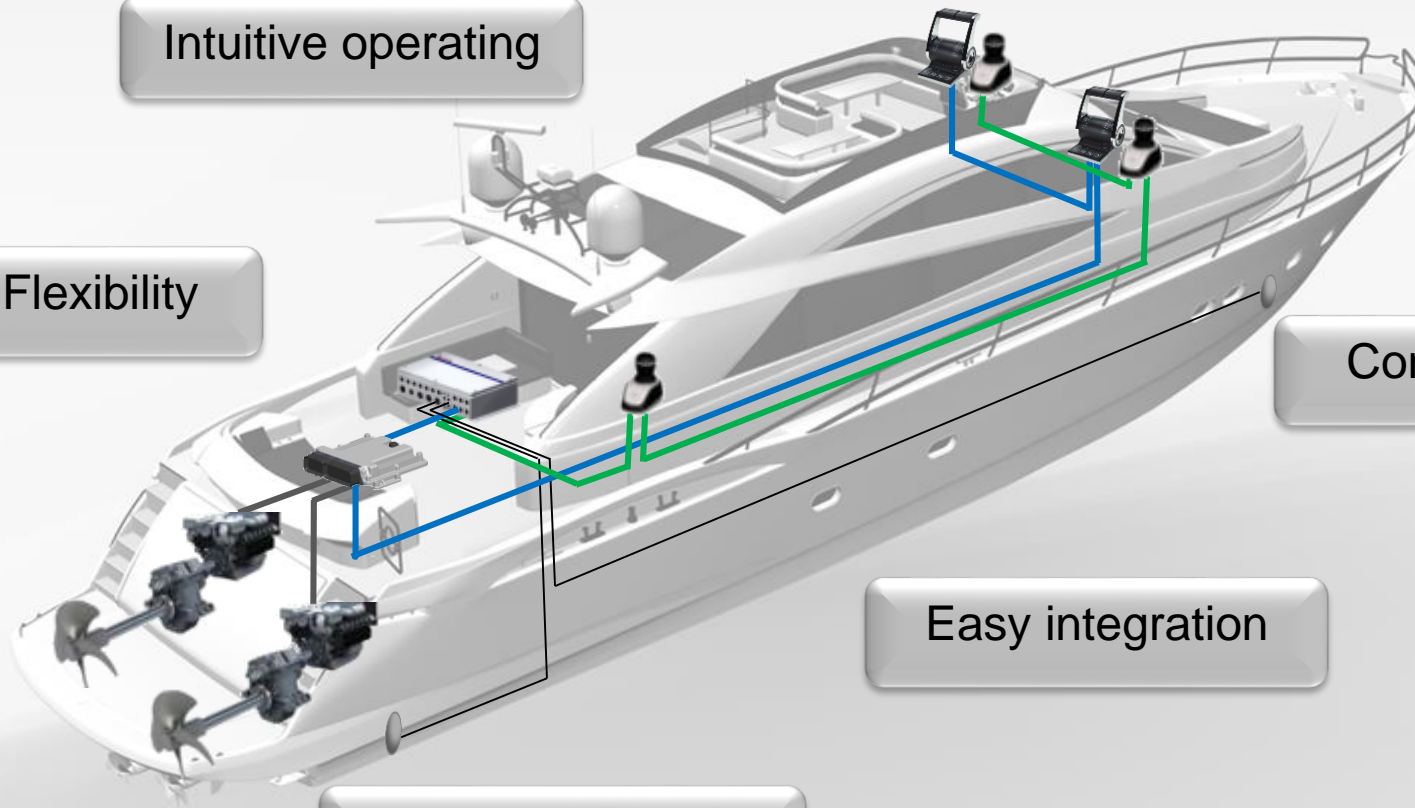
Intuitive operating

Flexibility

Convenience

Easy integration

Progressive safety



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