Lloyd's Register

NOVEL SHIP DESIGN

Maritime Cyprus 2017 - Evagoras Lanitis Centre, Limassol - 10 October 2017
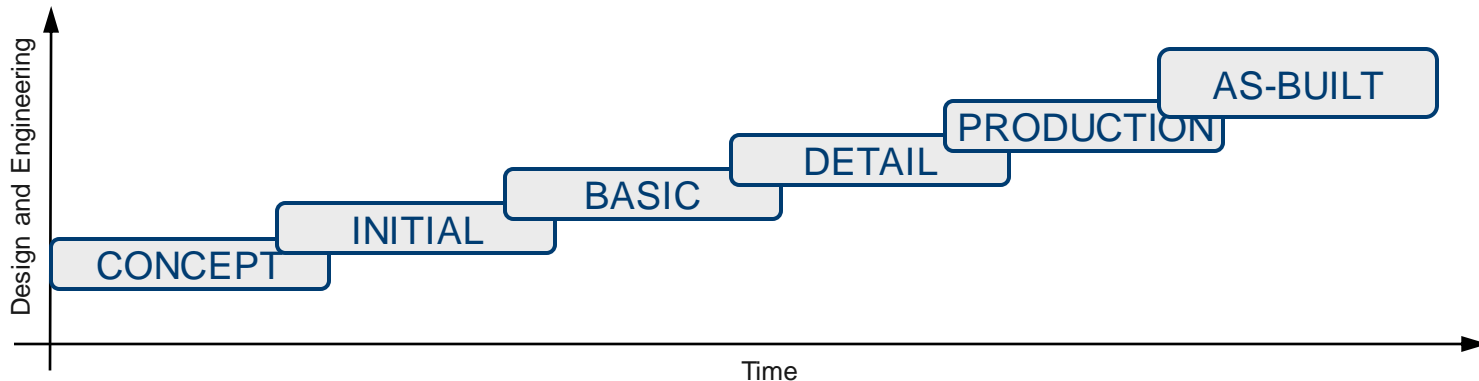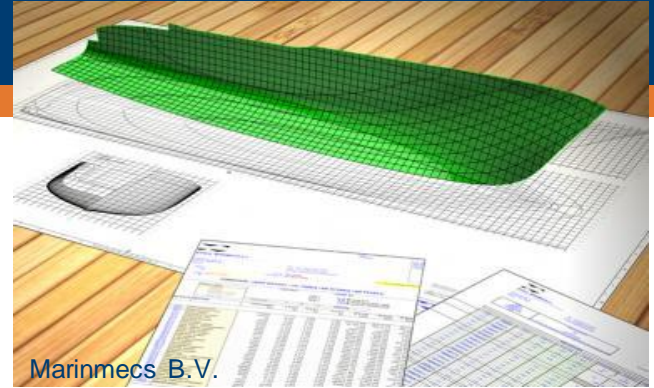
Definitions

Bigroll Shipping B.V.

- Novel - [ˈn(ɒ)vəl]
  - adjective
  - original, new, sophisticated, stylish, ..
- Ship - [ʃip]
  - noun
  - boat, vessel, platform, ..
- Design - [diˈzain]
  - noun
  - layout, sketch, drawing, diagram, pattern, ..
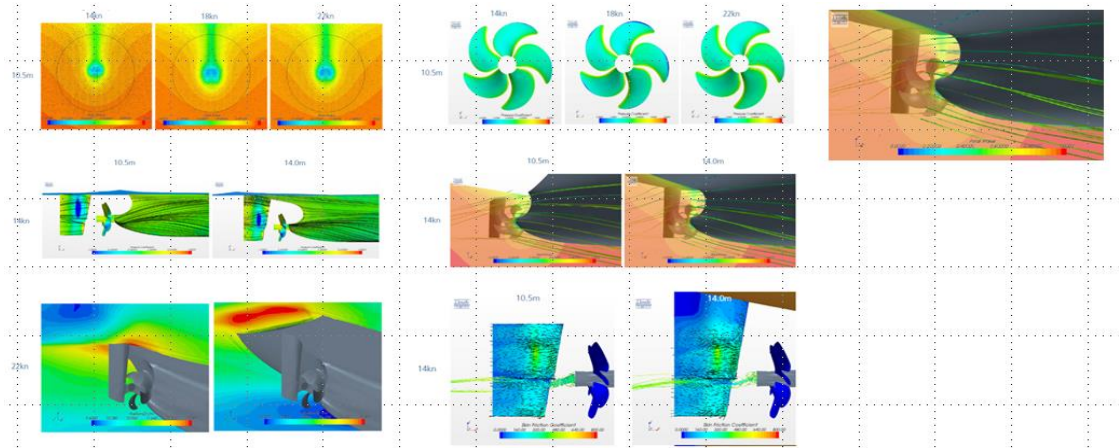 - design process and stages

Ship Design Process

Marinmecs B.V.

- General arrangements
- Weight distribution, hydrostatics, waterlines, hull form, compartmentation, ..
- Iterations and design loops
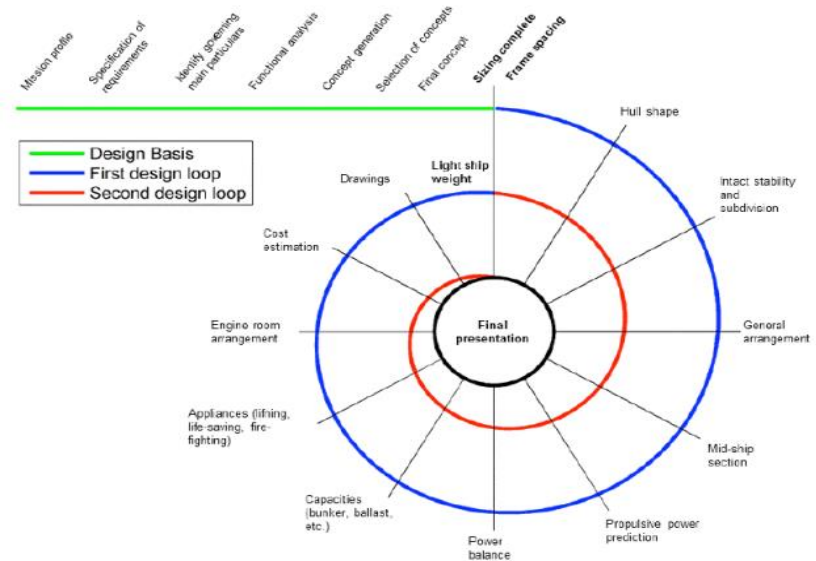- Calculations, Computational Fluid Dynamics, Model tests, ..

Design and Engineering (vertical axis)

CONCEPT → INITIAL → BASIC → DETAIL → PRODUCTION → AS-BUILT

Time

- Engineering approach
  - Enhance, refine
  - Expand, extrapolate
  - Develop, design
- Target
  - Cargo arrangements
  - Ship structures
  - Shipboard systems
  - Propulsion
  - Fuels
  - ..

- Application
  - Cargo Ships
  - Special Purpose
  - Projects

- Tasks
  - Current
  - Future
  - Upcoming requirements

de Vries, L.; Costa, N. et al.

Enhance, refine
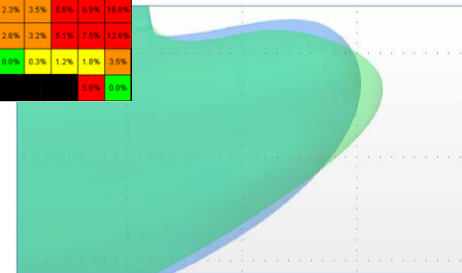
- Ballast   A   O
- (Bulbous) Bows A
- Ducts   A
- Engine   A   O
- Fins   A
- Fuels   A   O
- Propeller   A
- Rudder   A
- Speeds   O
- Trim   O

A - arrangements / O - operation

Zhejiang Ouhua Shipbuilding Co., Ltd.

Zhejiang Ouhua Shipbuilding Co., Ltd.

Ship type Container Ship

MOL TRIUMPH - IMO 9769271

- Length [m] 400.00
- Breadth [m] 58.80
- Draught [m] 16.00
- Tonnage [GT] 210,678
- Intake [TEU] 20,150

HANSA
INTERNATIONAL MARITIME JOURNAL

Start   Schifffahrt   Largest container ship named »MOL Triumph«

Schifffahrt

Largest container ship named »MOL Triumph«

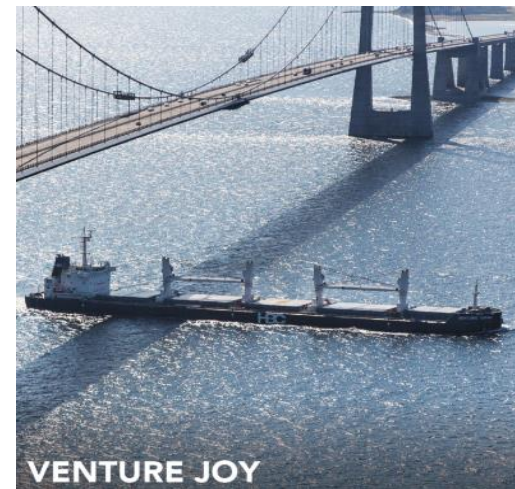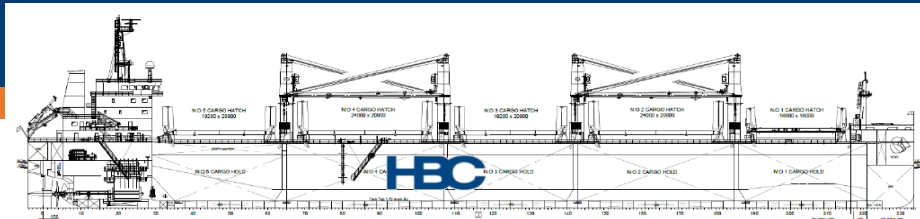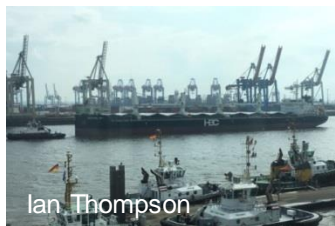| LR No	Ship Name	Shiptype	GT△	DWT	LR Class	St	YOB	Class
9769271	MOL TRIUMPH	CONTAINER SHIP	210,678	196,878		S	2017	LR

Develop, design

Ship type Bulk Carrier

VENTURE JOY - IMO 9670781

- Tonnage [GT] 26,411
- Deadweight [t] 43,532
- Bow, hull form, lines, propulsion, rudder, ..
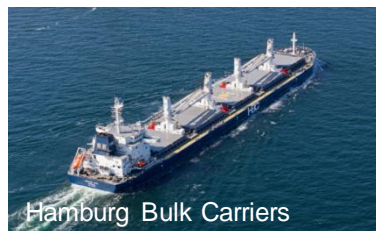- Nor-Shipping 2017 Energy Efficiency Award

VENTURE JOY

nor-shipping.com/press

Ian Thompson

Ian Thompson

Hamburg Bulk Carriers

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Thank you.

www.lr.org

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