

The UCL Design Research Centre (DRC)

Prof. David Andrews

[http://www.mecheng.ucl.ac.uk
/research/marine-systems/design-research/](http://www.mecheng.ucl.ac.uk/research/marine-systems/design-research/)

Who We Are

- Small, flexible research organisation
- Professor of Engineering Design: David Andrews
- Research Associate: Dr. Richard Pawling
- Research Students on focussed projects
 - Computer Aided Preliminary Ship Design
 - Simulation
 - Ship Design Methodology
 - The Design Environment

Who We Are: Multidisciplinary Connections

- UCL (Bloomsbury Campus)
 - Faculty of Engineering Sciences
 - Department of Mechanical Engineering
 - Marine Research Group (MRG)
 - » **Design Research Centre (DRC)**
 - » Naval Architecture and Marine Engineering (NAME)
 - » CFD
 - » NDE

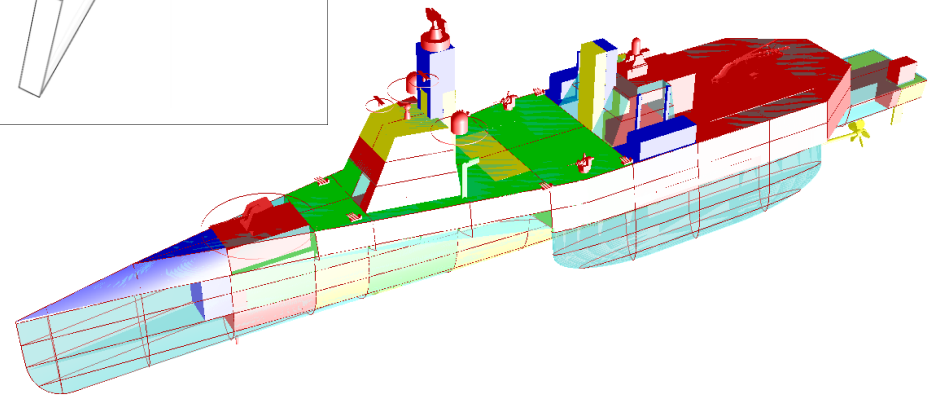
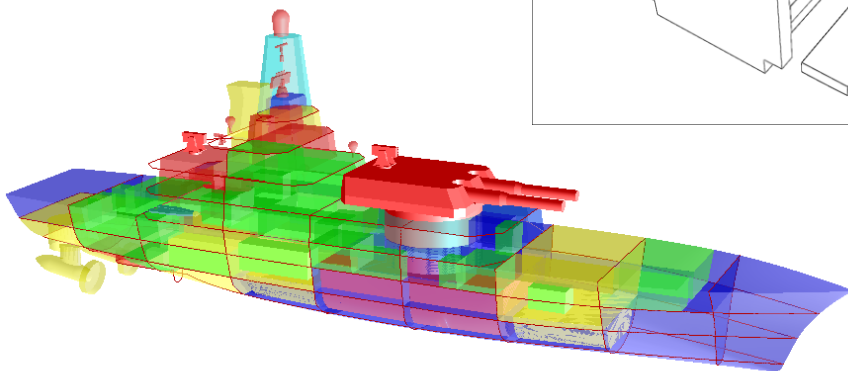
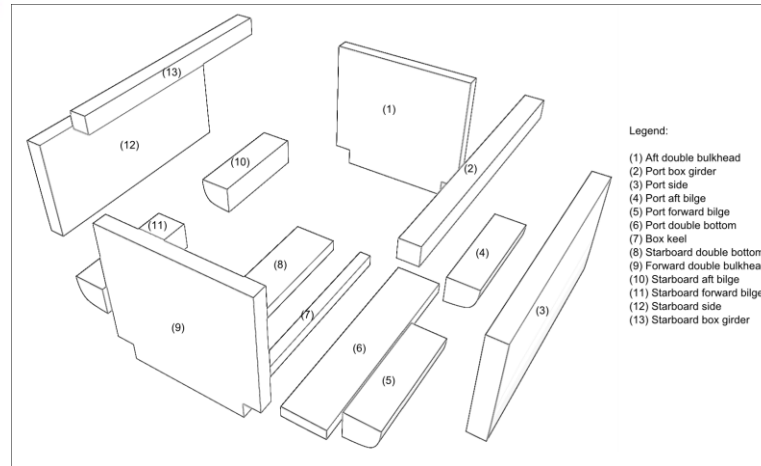
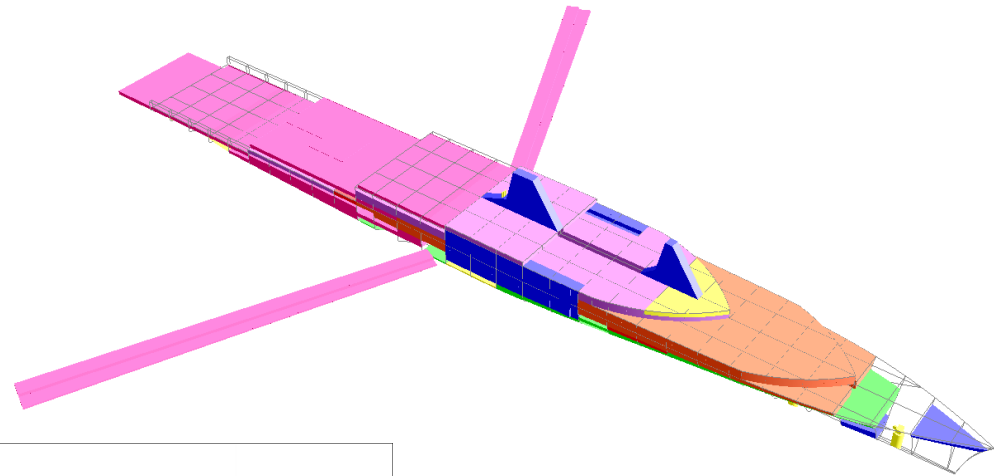
What We Do

- Focus on the Design Building Block Approach
 - Architecturally centred approach to PSD
- Rapid concept design studies
- Detailed technical studies
- Long term research projects
 - EU and EPSRC funded

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Design Studies



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Long Term Research Projects

- EPSRC: “Low Carbon Shipping: A Systems Approach”
 - Design development and analysis
- FP7: FIREPROOF
 - Design modelling and risk metrics
- EPSRC: “Guidance on the Design of Ships for Enhanced Escape and Operation”
 - Interface and visualisation development

Interests in This Call

- Design impact of retrofitting
- Design for improved interfaces
- Competitiveness, cost effectiveness and efficiency
- Encouraging collaboration
- Innovative designs