

# Project toolkit for standardisation & pre-assembly

## From academic research to industrial reality

Alistair Gibb & Martyn Pendlebury

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The information presented has been shown in good faith.



- What is off-site production (pre-assembly)?
- What was the CIRIA work?
- What was the development process?
- What is the (current) end result?



- What is off-site production (pre-assembly)?



## What is Off-Site Production?

Manufacture and assembly before installation

- Level 0 – Materials    Level 1 - Component Sub-assembly
- Level 2 - Non-volumetric pre-assembly 
- Level 3 – Volumetric pre-assembly 
- Level 4 – Modular Building 



## OSP Spectrum

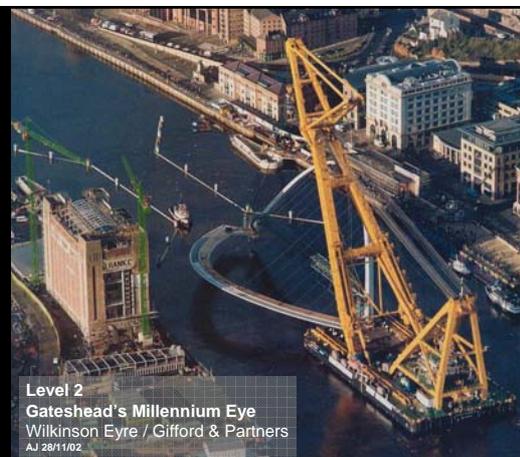
Level 1  
Component  
subassemblies

Level 2  
Non-volumetric

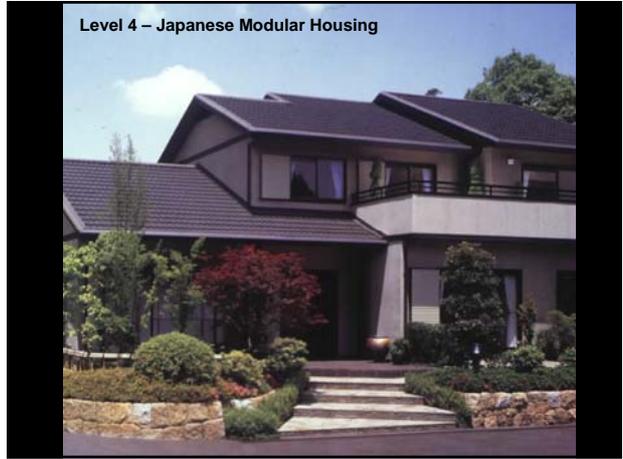
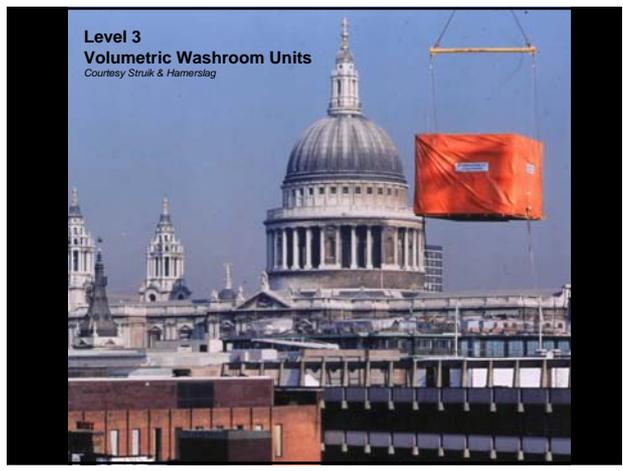
Level 3  
Volumetric

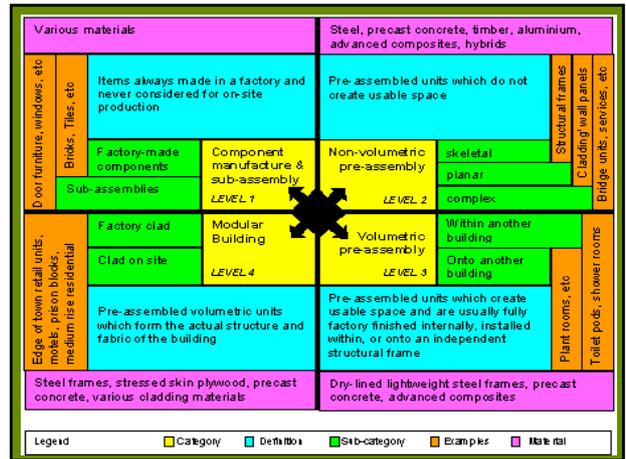
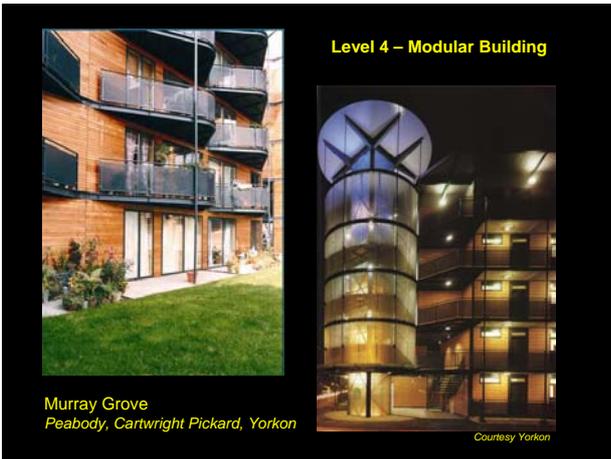
Level 4  
Modular

## Examples

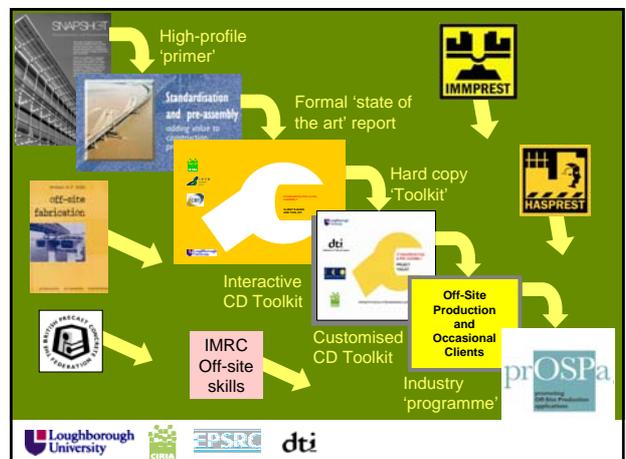


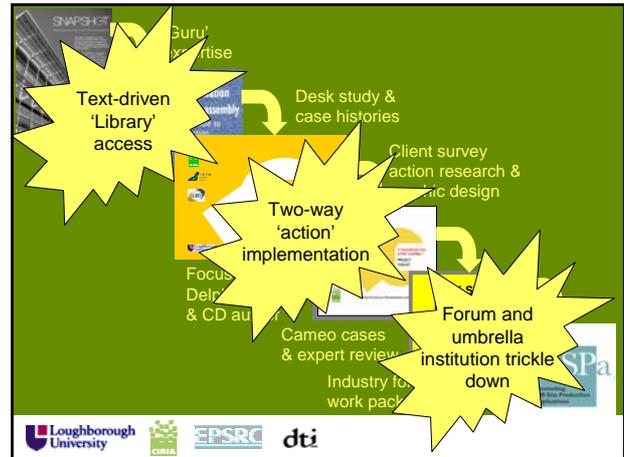
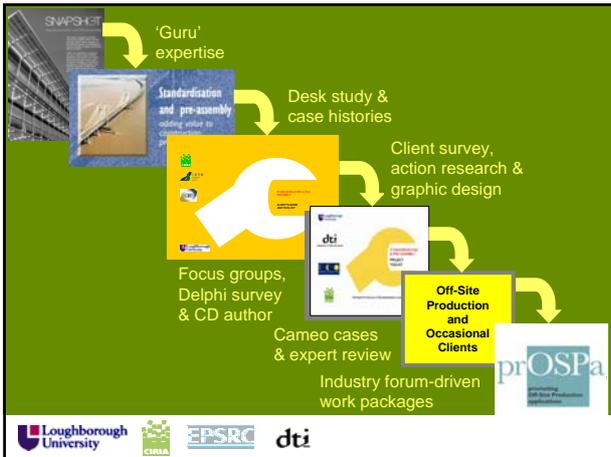
Level 2  
Gateshead's Millennium Eye  
Wilkinson Eyre / Gifford & Partners  
AJ 28/1/02





- What is off-site production (pre-assembly)?
  - What was the CIRIA work?
  - What was the development process?
- Loughborough University





- What is off-site production (pre-assembly)?
  - What was the CIRIA work?
  - What was the development process?
  - What is the (current) end result? (Toolkit demo)
- Loughborough University



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