



Prism

OFFSITE MANUFACTURING

Offsite Manufacturing from an MEP Contractor/Manufacturer's Perspective

15th October 2020



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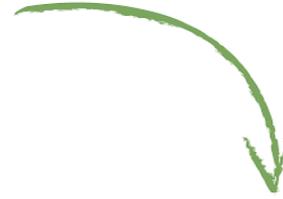
Lewis Jones

Prism General Manager
Prism

EVOLUTION OF OFFSITE MANUFACTURING



1975 Flagship Offsite Products



2020 Packaged Plantroom

AWARD-WINNING FACILITY



OFFSITE AWARDS 16

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DESIGN, DESIGN, DESIGN!

OUR PRODUCT JOURNEY



Drawing board



Factory Production



Site installation

OFFSITE BENEFITS



> REDUCED <
PROGRAMME

FASTER
INSTALLATIONS

ELIMINATION
OF SERVICE
CLASHES



**INNOVATIVE & BESPOKE
SOLUTIONS**



**PRODUCTION
COMMENCES**
IN TANDEM WITH
CONSTRUCTION



> **REDUCTION** <
IN  ACCESS SYSTEMS

**REDUCED NUMBER
OF SITE OPERATIVES**



**REDUCED SITE
HOURS**
= IMPROVED
SAFETY



**DELIVERIES ARE
MINIMISED**



ON-SITE STORAGE



> **REDUCTIONS** <

SUSTAINABILITY



**BUDGET
CONTROL**



DIGITAL ENGINEERING WITHIN OSM – PERFECT PROCESS



Early Engagement
OSM Strategy Should be considered at RIBA Stage 1



Digital Collaboration



Embed OSM Strategy into Design



DIGITAL ENGINEERING WITHIN OSM – PERFECT PROCESS



Product Development from Concept through to Manufacture



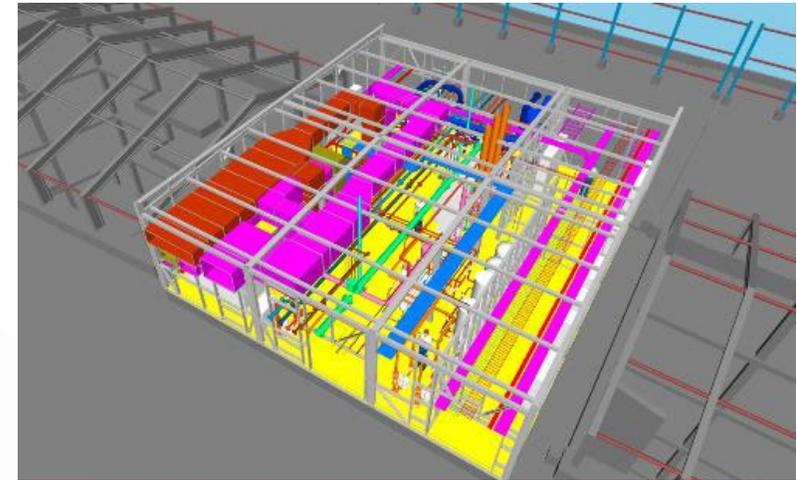
Use of standardised products and libraries
– Fabrication Parts Database



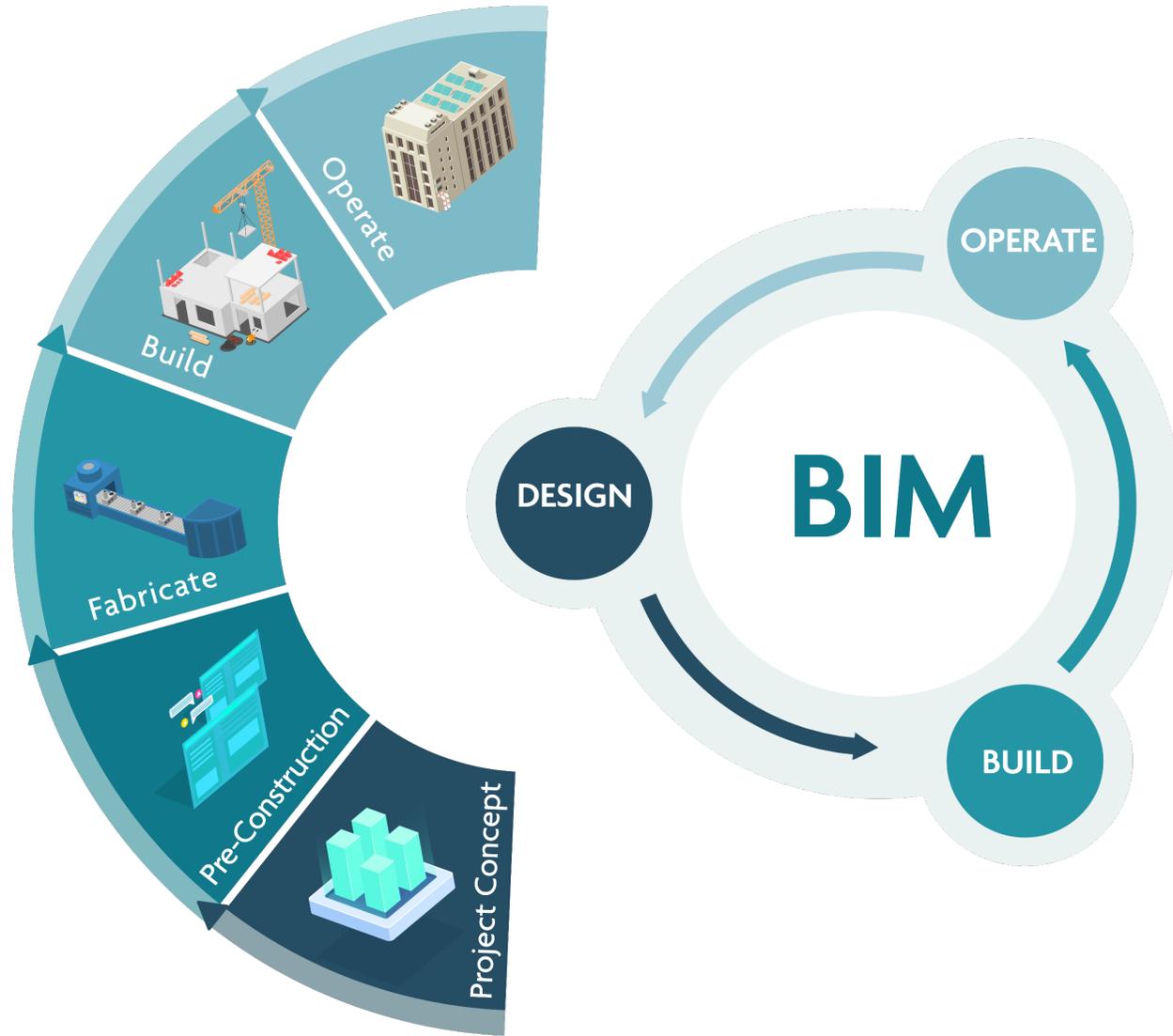
Manufacturing Drawing Production



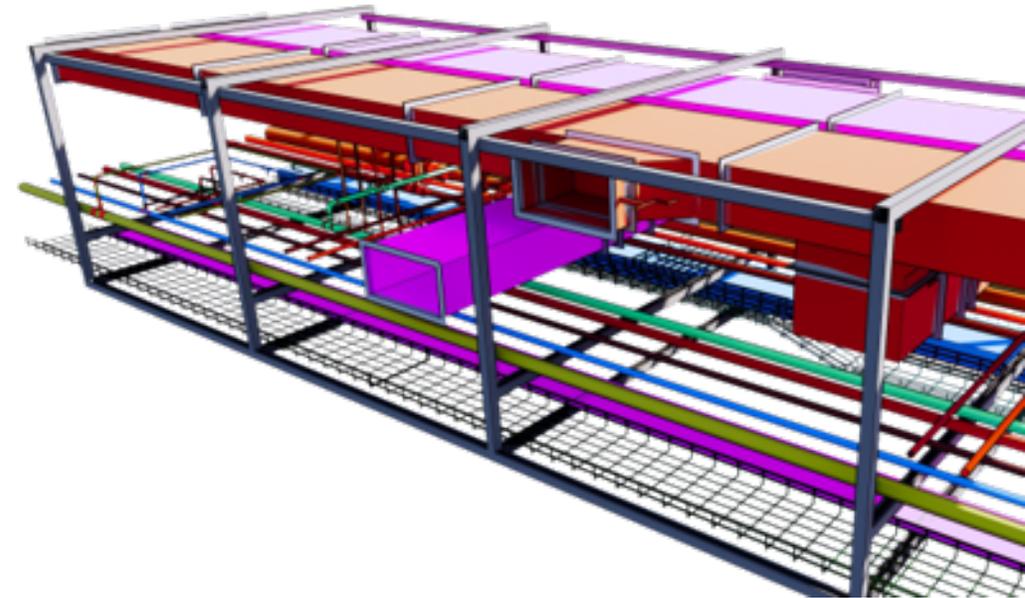
4D Deliverables – BIM 2 Mosaic



DIGITAL ENGINEERING WITHIN OSM – FUTURE VISION



- ✓ Continued Product Development
- ✓ Development of Digital Libraries
- ✓ Extended Use of BIM Beyond OSM



MANUFACTURING – FACILITY AND RESOURCE



FACTORY – 60,000 sq.ft. manufacturing space



TURNOVER - £10m per annum

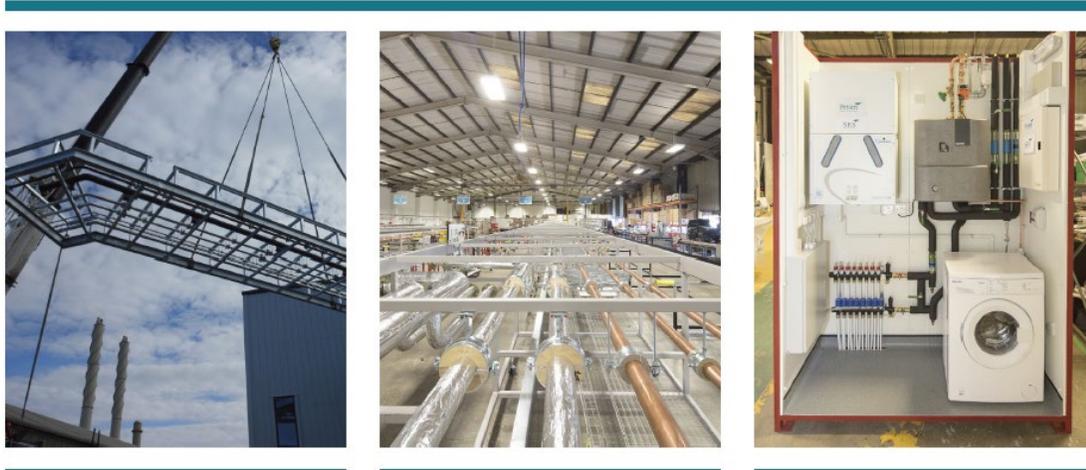


WORKFORCE & STAFF – 40 No.



CRANEAGE - 2 No. 10 tonne gantry cranes

MANUFACTURING – OFFSITE SOLUTION



BESPOKE SOLUTIONS

MODULES

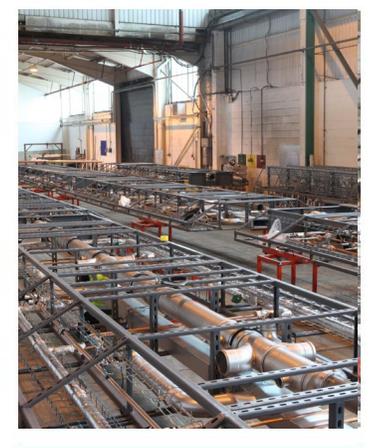
UTILITY CUPBOARDS



PLANT SKIDS



PACKAGED
PLANTROOMS



RISERS

MANUFACTURING – QUALITY AND SAFETY



Factory Environment = The **Safest** Working Environment



Working Hours in Factory per annum – **120,000**
Equates to the removal of **240,000** hours on site



Quality Management Certification
ISO 9001:2015 Quality Management Systems



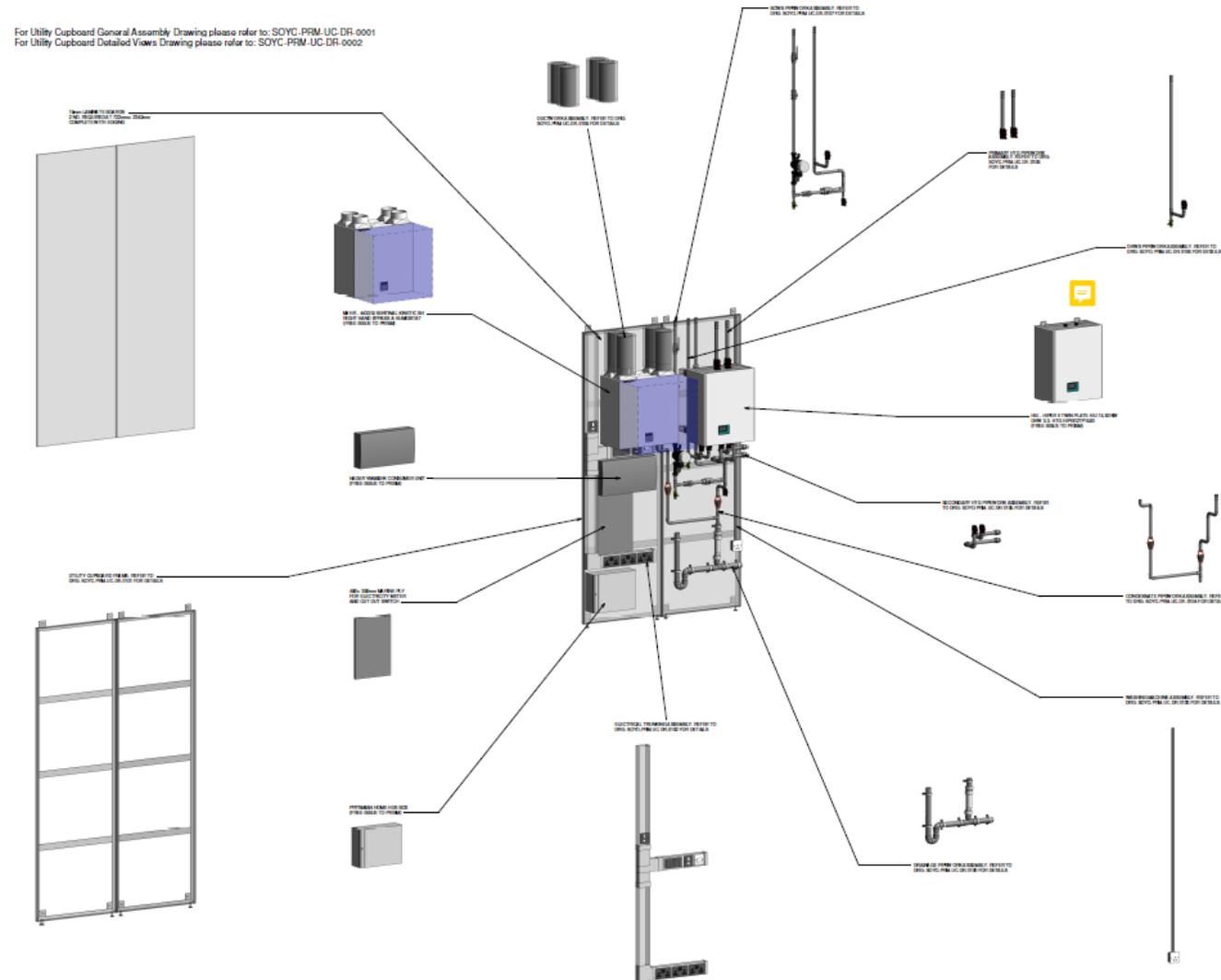


MANUFACTURING

NOT

CONSTRUCTION

MANUFACTURING – PRODUCT BREAKDOWN



SUMMARY – THE PERFECT PROCESS

- ✓ Design – DfMA
- ✓ Productivity
- ✓ Safety
- ✓ Quality
- ✓ Schedule Certainty
- ✓ Environmental Impact

