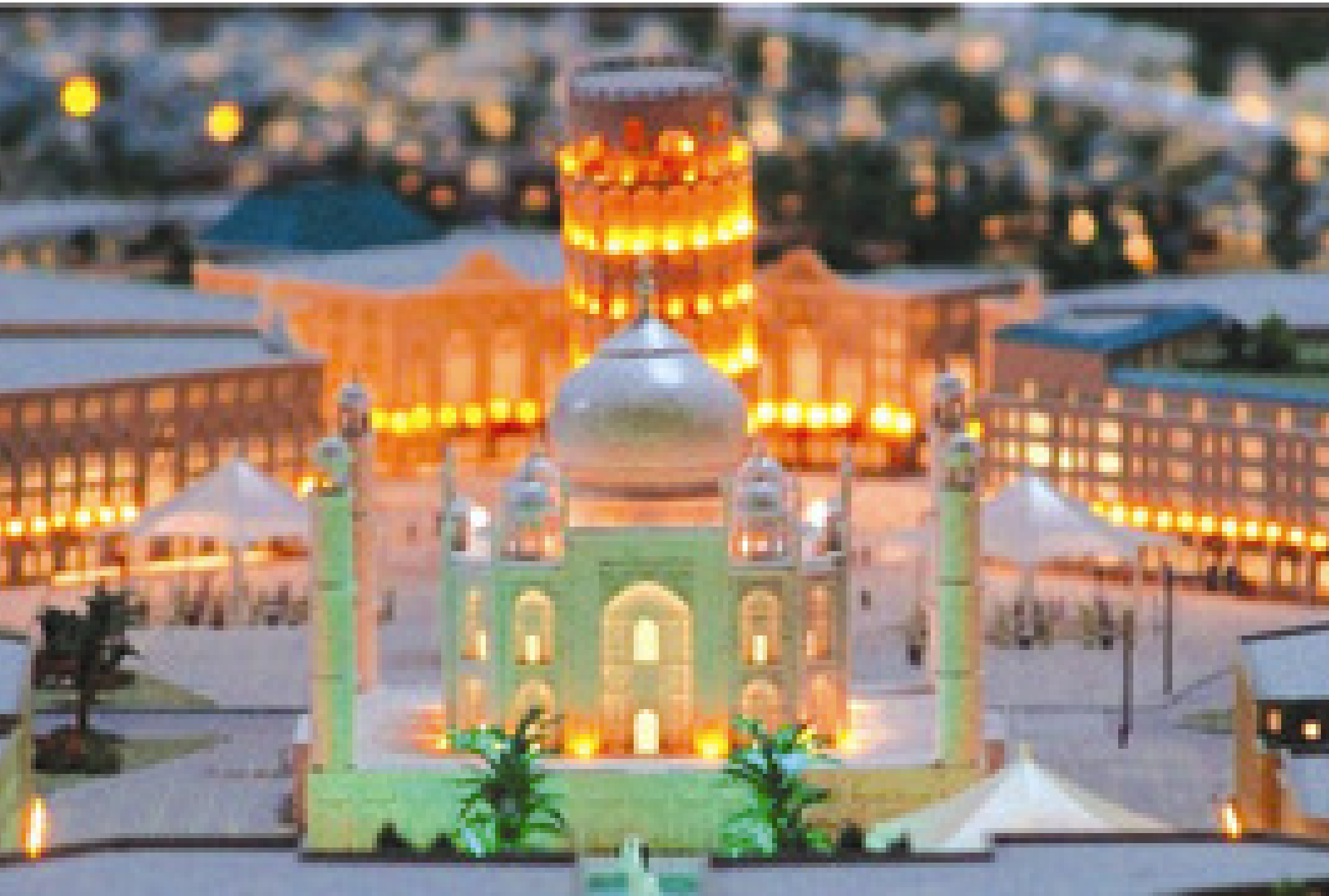


Living with Risk

Pierre Wassenaar

RIBA Trustee Board







Thomas Heatherly Making





ment methods

% is wasted

resents 35% Carbon footprint

t is key, **but**

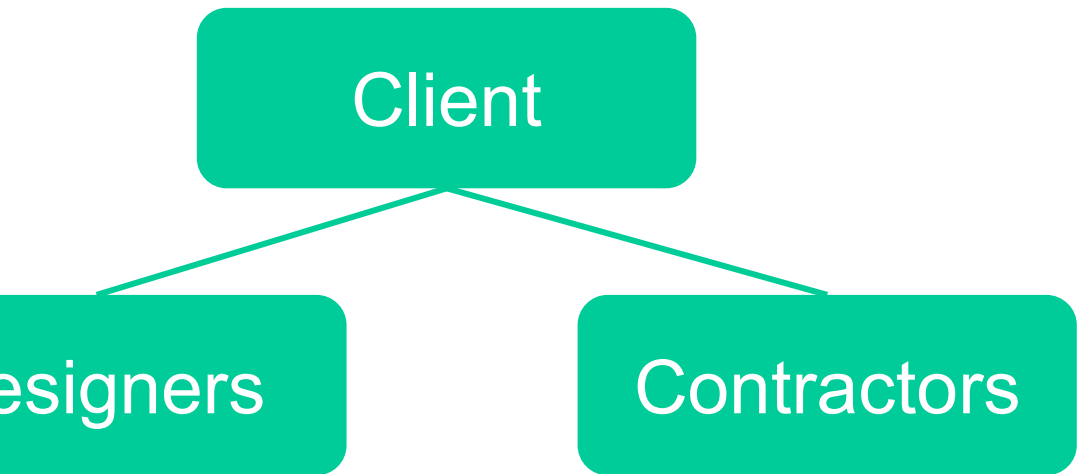
vements in quality control, risk

t, coordination BIM etc

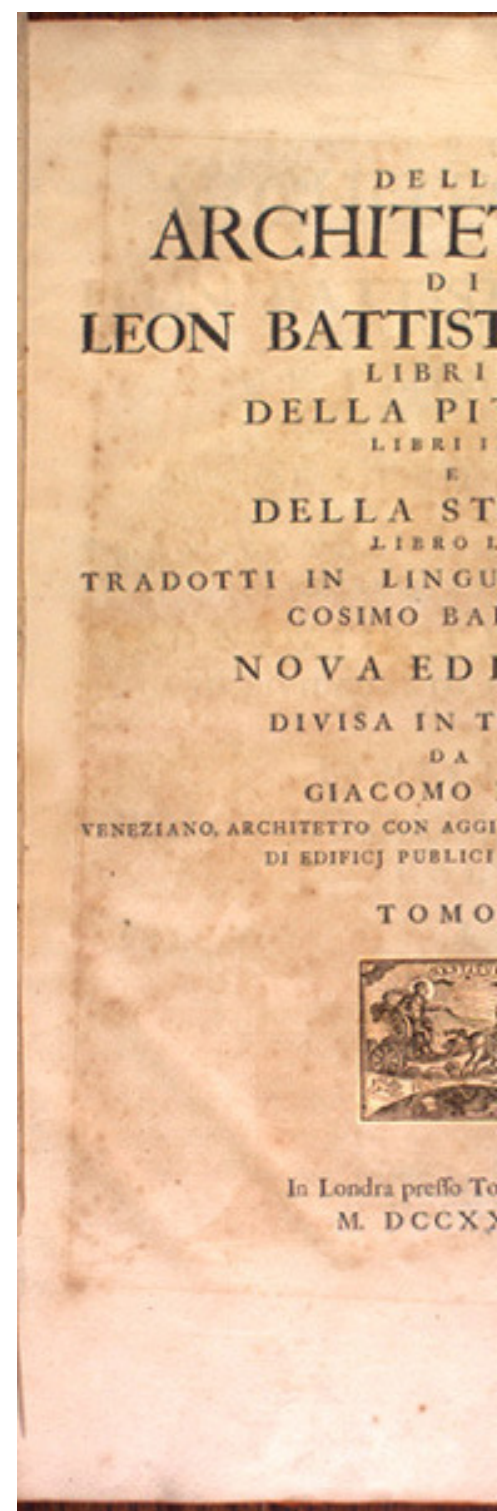
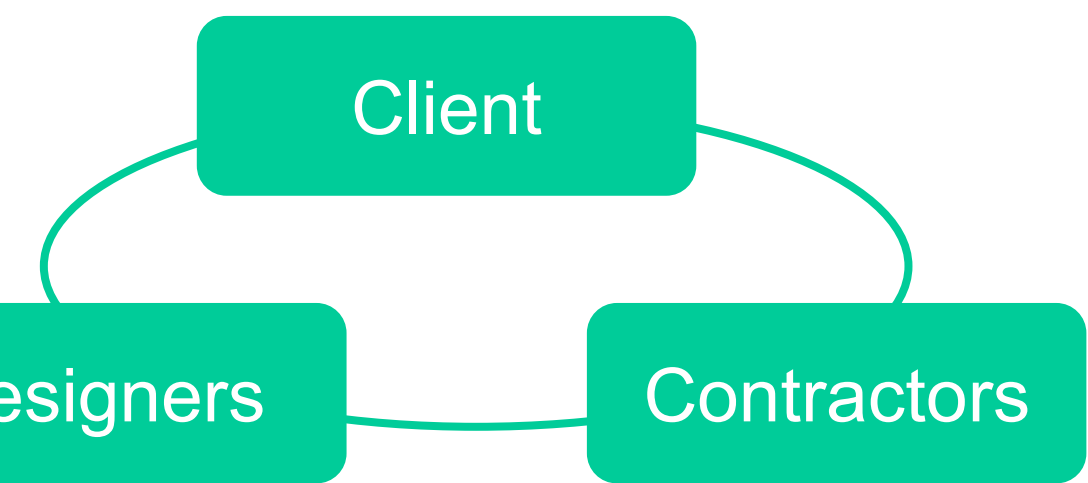
nt ventures, possibly across borders.

PFI - Long-term management





ed split between Designer & Builder



selecting subcontractor on worst

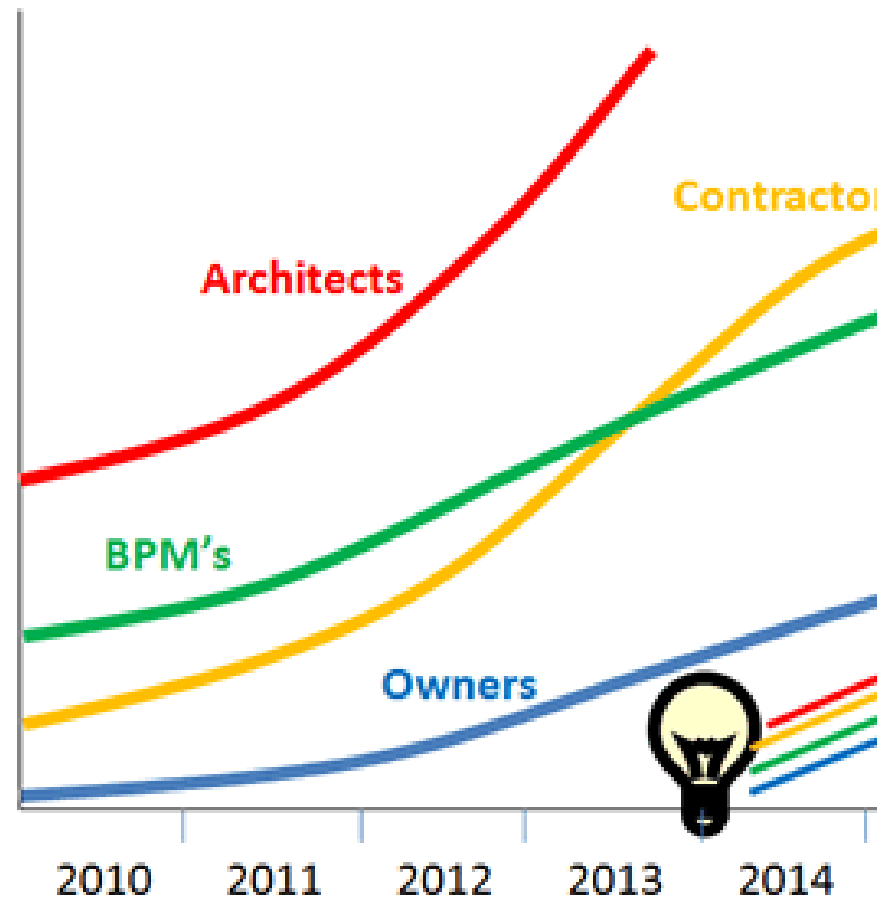
on plan

Integrated Project Delivery

Design & Construction

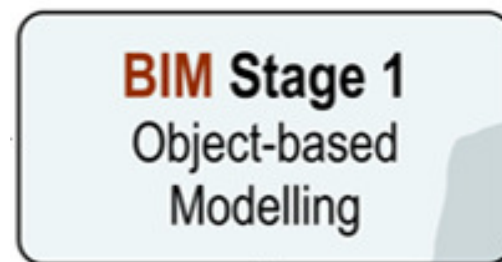
ing gets built twice

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

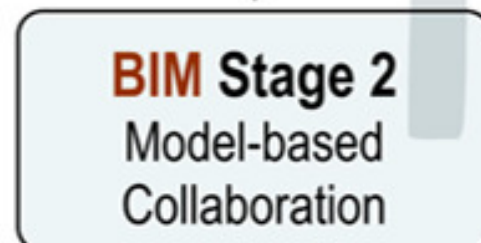


take up
experienced but slow

growth
76%
years



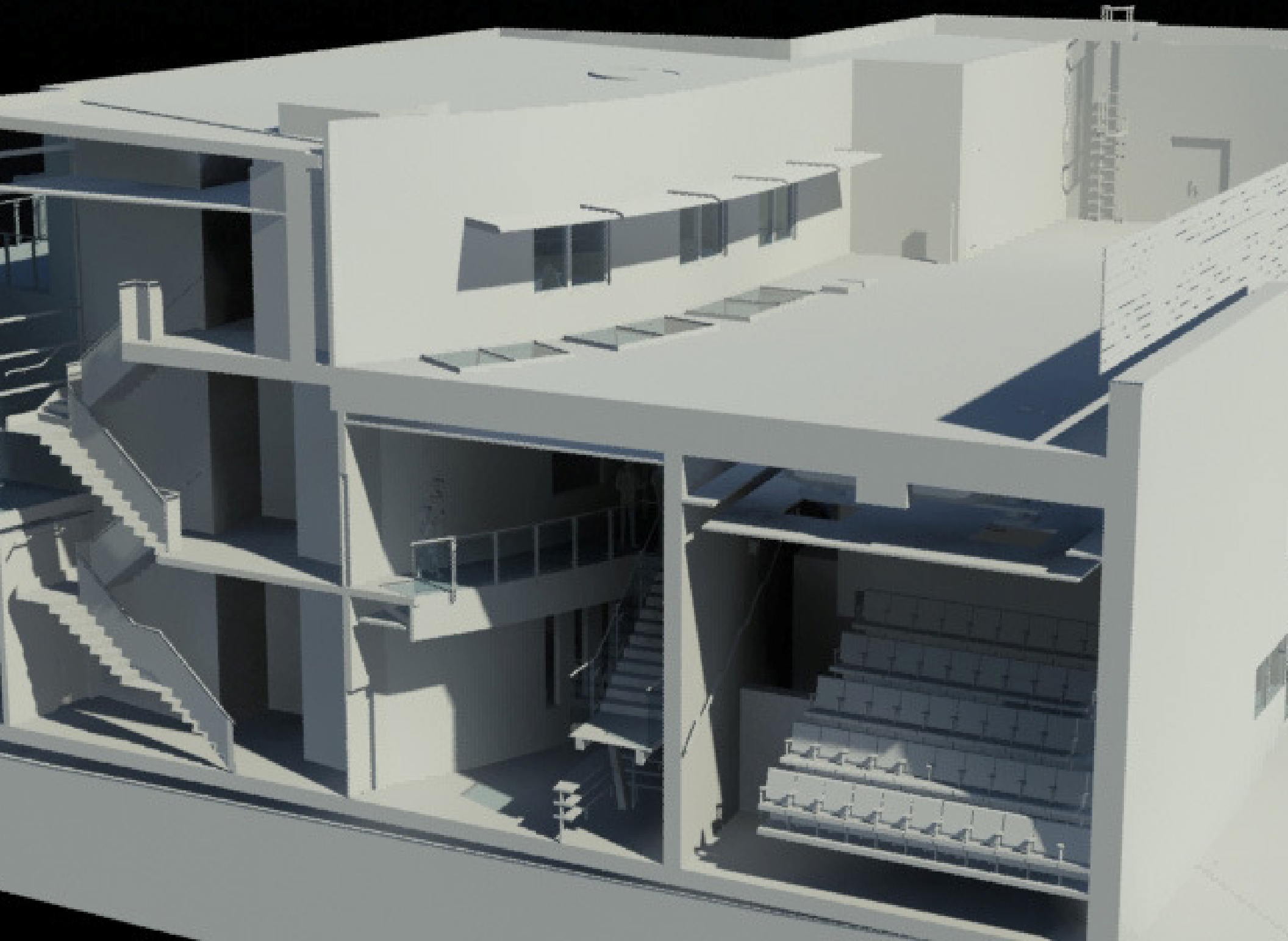
Y steps
modelling to
collaboration



Z steps
collaboration
to integration



- Minimum Qualification:** Single-disciplinary software within one
- Project Lifecycle Phase:** Design [D] or Co
- Number of Disciplines:** One discipline
- BIM Stage Properties:** (a) Iterative proces (c) Linear feed - fe communications
- Summary deliverables:** (01) The first three (02) A single-disci Coordinated views and (05) Basic da
- BIM Node Requirements:** Policy changes LC Technology chang
- Minimum Qualification:** Multi-disciplinary s one or between tw
- Project Lifecycle Phase:** [DD], [DO], [DC] a
- Number of Disciplines:** Minimum two disc
- BIM Stage Properties:** (a) Iterative proces (e) Cumulative inf (f) Multilinear fee
- Summary deliverables:** (06) Fourth and Fi disciplines and (0
- BIM Node Requirements:** Policy changes M Technology chang
- Minimum Qualification:** The model is crea throughout the Pr
- Project Lifecycle Phase:** [DCO]
- Number of Disciplines:** Three disciplines
- BIM Stage Properties:** (g) Risk-sharing r (i) Simultaneous feed - feedback a
- Summary deliverables:** (09) Multi-dimens analyses at early constructability, li disciplines utilise



ect Costs are Change

tor Change Control

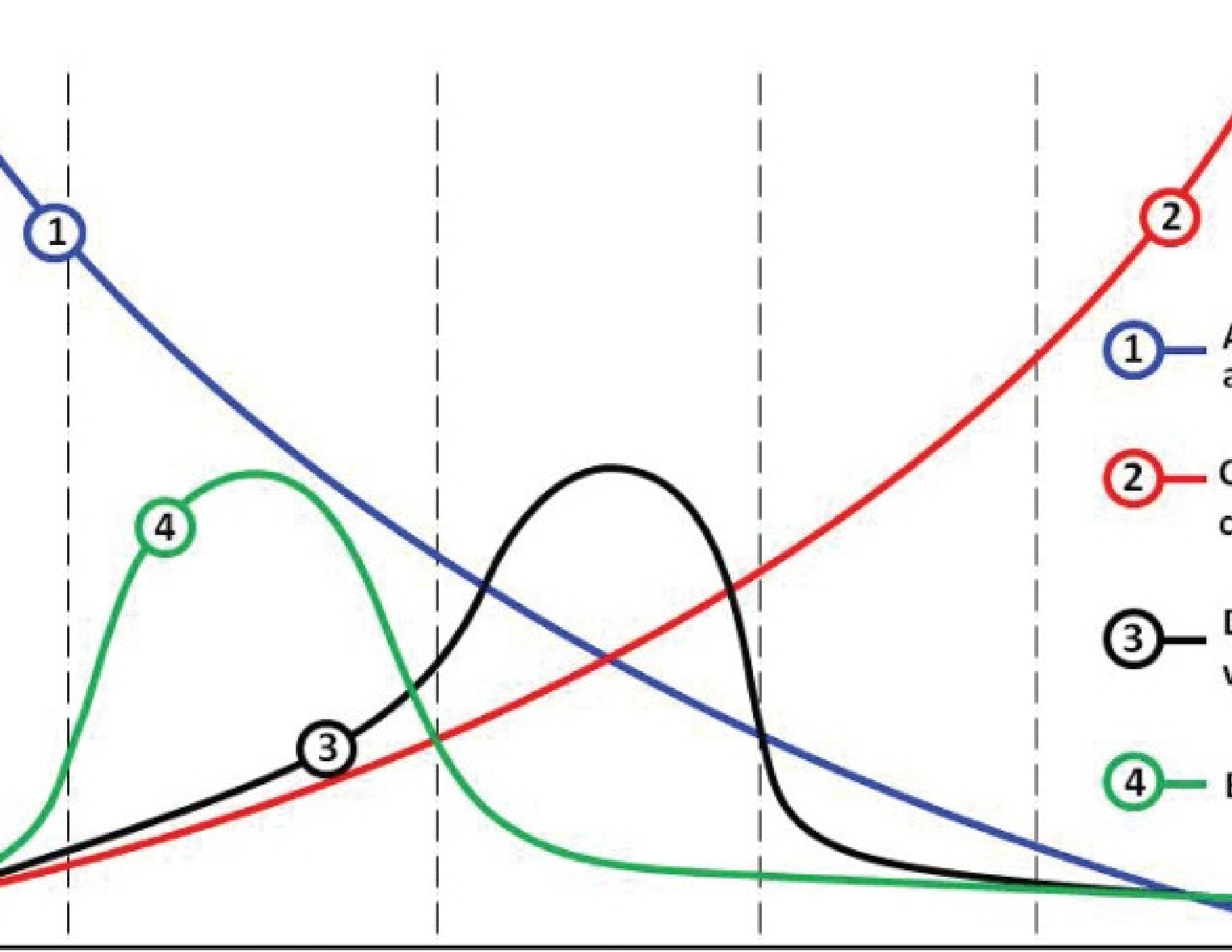
nely BIM

laborative BIM

etween tender and

IM





Architecture: a case for pre-fabrication a sation







British Antarctic Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL





ice

om inception to completion

zero change controls











General Offices derelict and abandoned, site purchased by Welsh Government and Blaenau Gwent CE



