

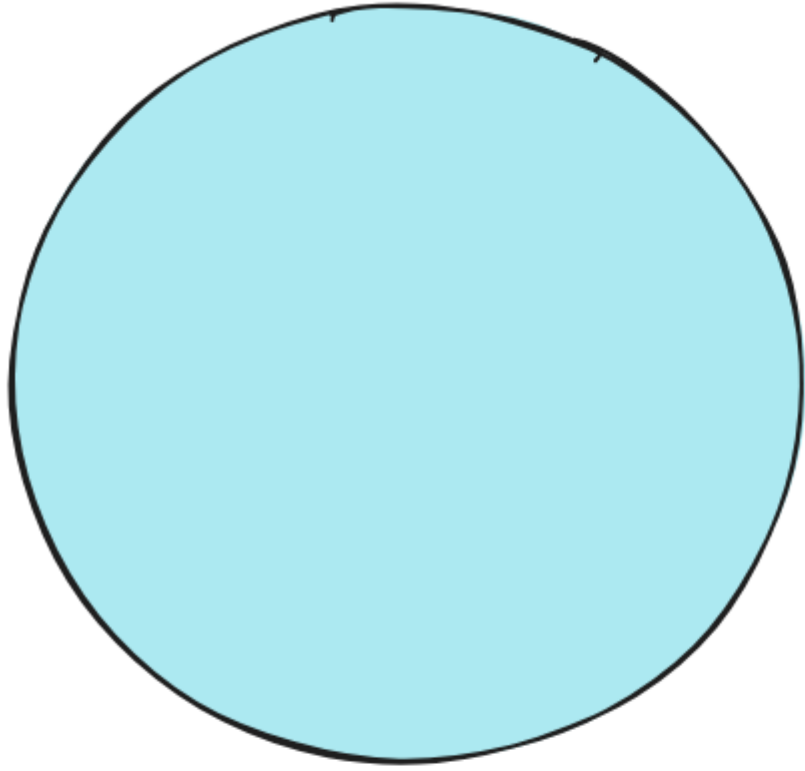
MUSEUM OF LONDON

- a Smart Museum -

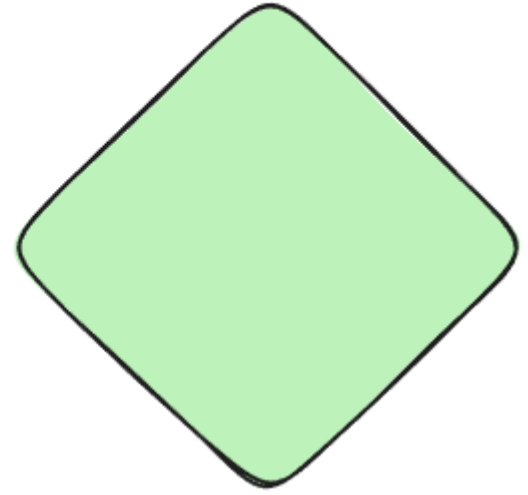
..every challenge is our opportunity to improve..

Steve Watson

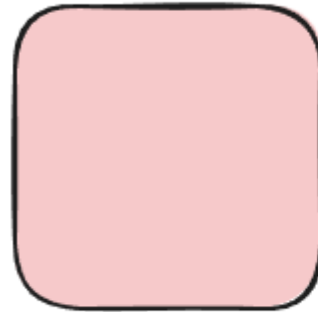
2020



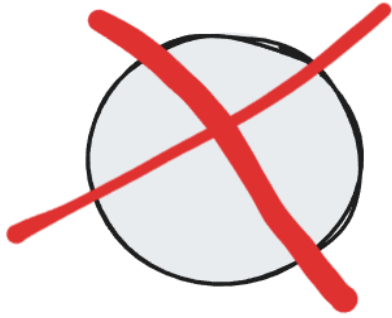
Museum of London
London Wall



Museum of London
Docklands



Mortimer Wheeler House
storage facility

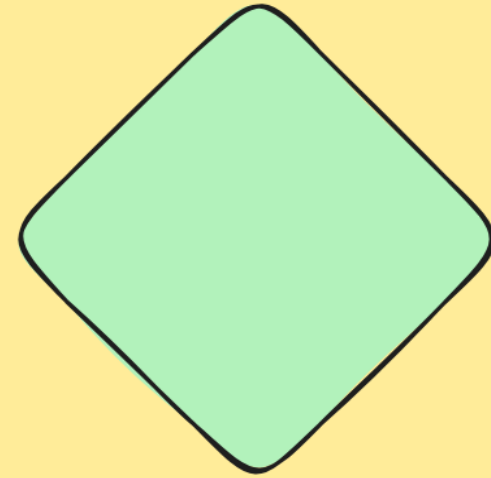


Museum of London
London Wall

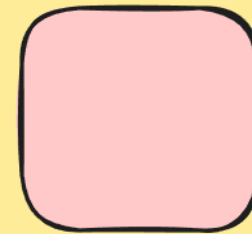
2022

(New) Museum of London
Smithfield

- 0 - Strategic definition.
- 1 - Preparation and brief.
- 2 - Concept design.
- 3 - **Developed design.**
- 4 - Technical design.
- 5 - Construction.
- 6 - Handover and close out.
- 7 - In use.



Museum of London
Docklands



Mortimer Wheeler House
storage facility

(NEW) MUSEUM
OF LONDON
SMITHFIELD

developing smart
building specifications
for tender

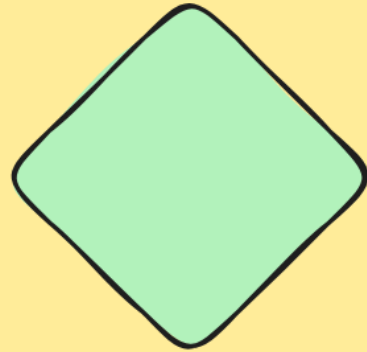
developing information
requirements

understanding the
capability of BIM

understanding the
capability of COBie

understanding IFC

Docklands & MWH Smart Building prototype



Museum of London
Docklands



Mortimer Wheeler House

FOCUS ON BMS AND METER DATA

DEVELOP THE PROTOTYPE STRATEGICALLY

LAGGING THE SMART BUILDING DESIGN ON
THE NEW MUSEUM, BUT LEADING IN
HANDS ON EXPERIENCE

CONVERTED TREND BMS CONTROLLERS TO IP

RENAMED ALL BMS POINTS

MARKET ENGAGEMENT - MSI, BMS

INTERNAL FM & IT TEAM ENGAGEMENT

INSTALLED LORAWAN WIRELESS NETWORK

(NEW) MUSEUM OF LONDON SMITHFIELD

Trade Contractors understanding

Lifts, MEP, Security, BMS, Audio Visual

Modelling

Design specification (eg. BMS) requirements

COBie

IFC exports

Asset naming

Type / Instance

Asset data

Docklands & MWH
Smart Building
prototype

USE CASE PROTOTYPES
WITH EXTERNALS

UCL UK

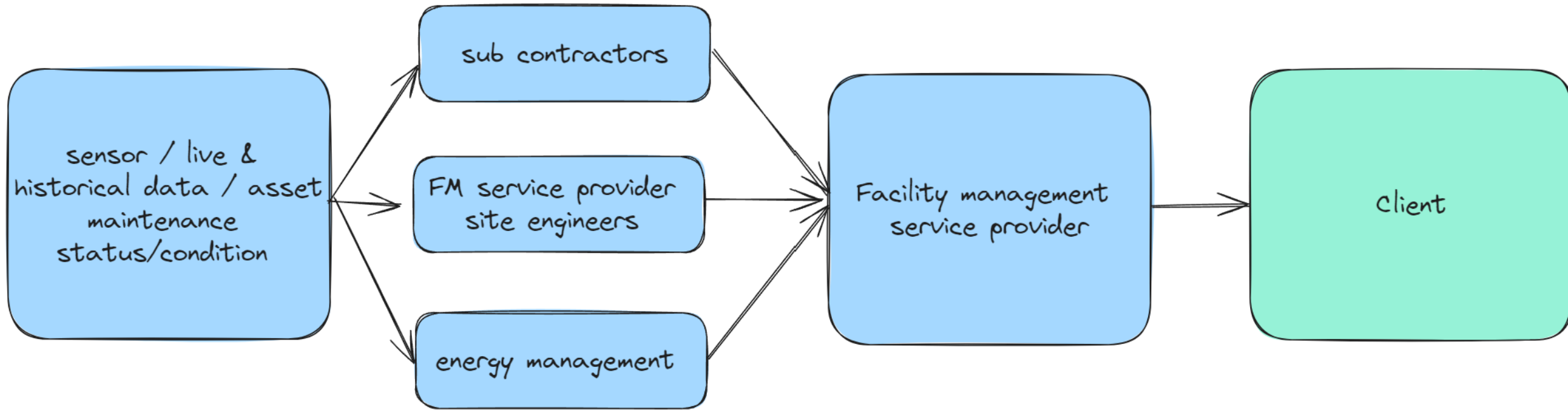
Amazon UK

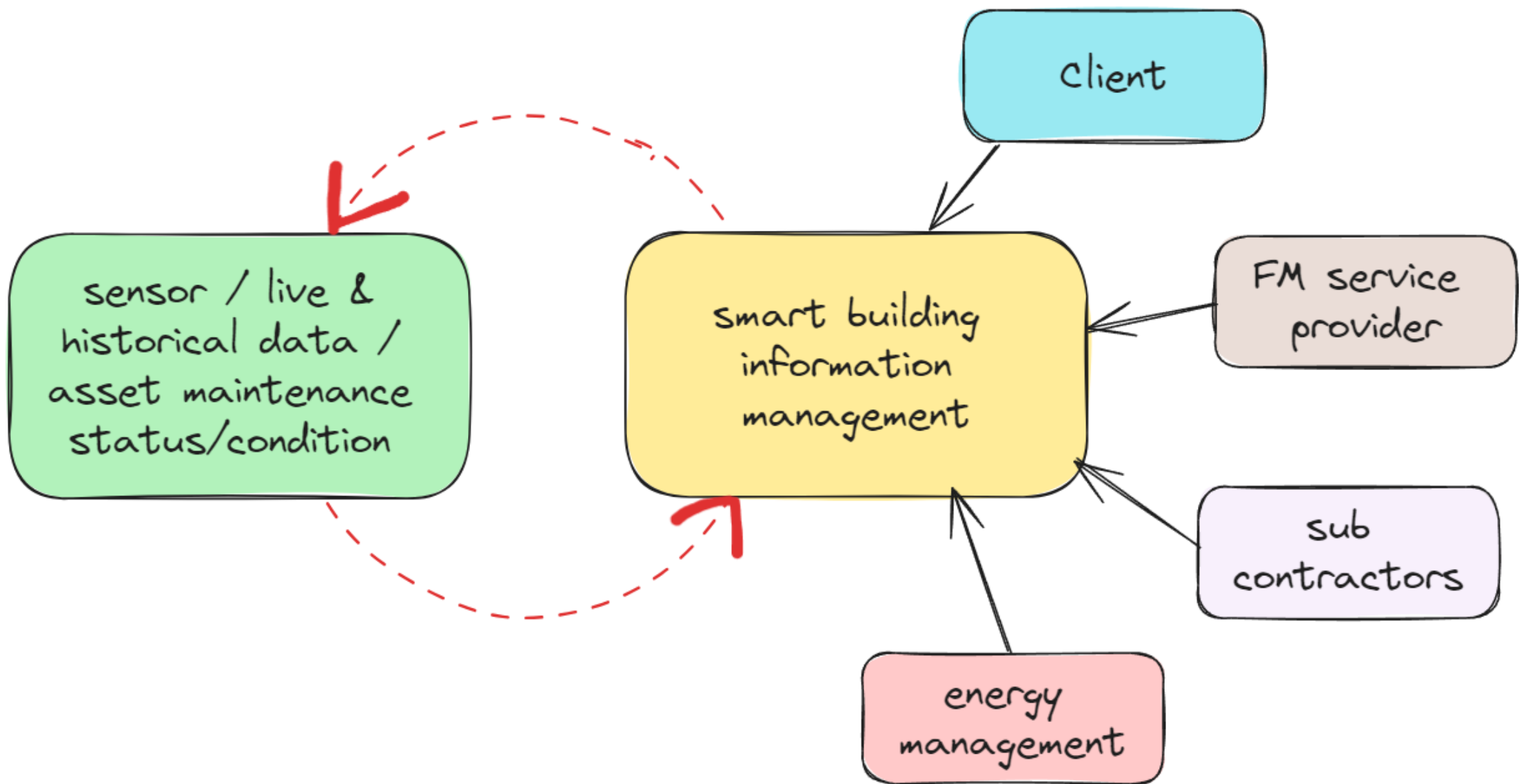
Munich University of
Applied Sciences Germany

RMIT Melbourne

Drexel USA

traditional information flow





SMART BUILDING INFORMATION

CAFM / CMMS

Smart building platform

data availability for applications

3D models for FM (Dalux)

consistency across the portfolio

client ownership of data

transparency

data availability for staff

increased quality of fault finding

CHALLENGES

within every challenge is our opportunity to improve

upskilling of top tier building contractors and
trade contractors on smart buildings

new skill sets for building operators / facility management

the right process for existing buildings - prototype - pilot - live ?

bringing academic skills / knowledge into the workplace

lack of demonstration buildings