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# **BIM IMPLEMENTATION**

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## **DIGITAL MANAGEMENT OF ASSETS**

BY

OLUFEMI DAVID OLAIYA

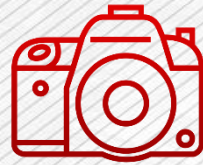
Email: [Olufemi.Olaiya@portsmouthcc.gov.uk](mailto:Olufemi.Olaiya@portsmouthcc.gov.uk)

**ARCHITECTURE**

**PHOTOGRAPHY**

**FM**

**BIM**



**2006**

**2008**

**2012**

**2018**

# REGENERATION DIRECTORATE



**400+ STAFF**



**7 SERVICES**



**24 TEAMS**

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## OUR VISION

TO CREATE AN ENABLING ENVIRONMENT THAT SUPPORTS



**ECONOMIC GROWTH**



**CULTURAL DEVELOPMENT**



**GREAT CITY**

# STRATEGIC DEVELOPMENT

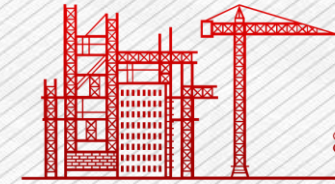
REPRESENTS THE COUNCIL AS ITS DEVELOPMENT  
ARM, EXPLORING REGENERATION AND  
DEVELOPMENT OPPORTUNITIES THAT BENEFIT  
PORTSMOUTH.



**REGENERATION SCHEMES**



**DEVELOPMENT PROGRAMME  
DELIVERY**



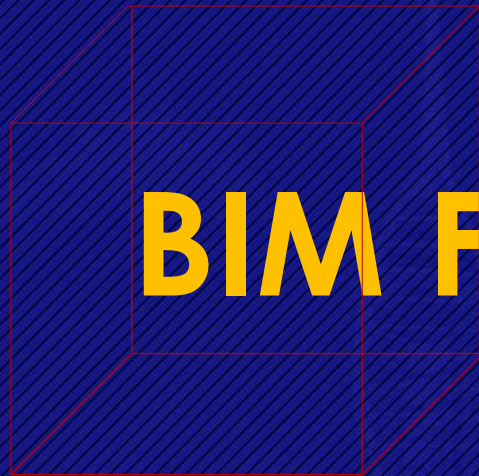
**COMMERCIAL SITE  
DEVELOPMENT**



**PROJECT MGT, OFFICE**



**BIM**

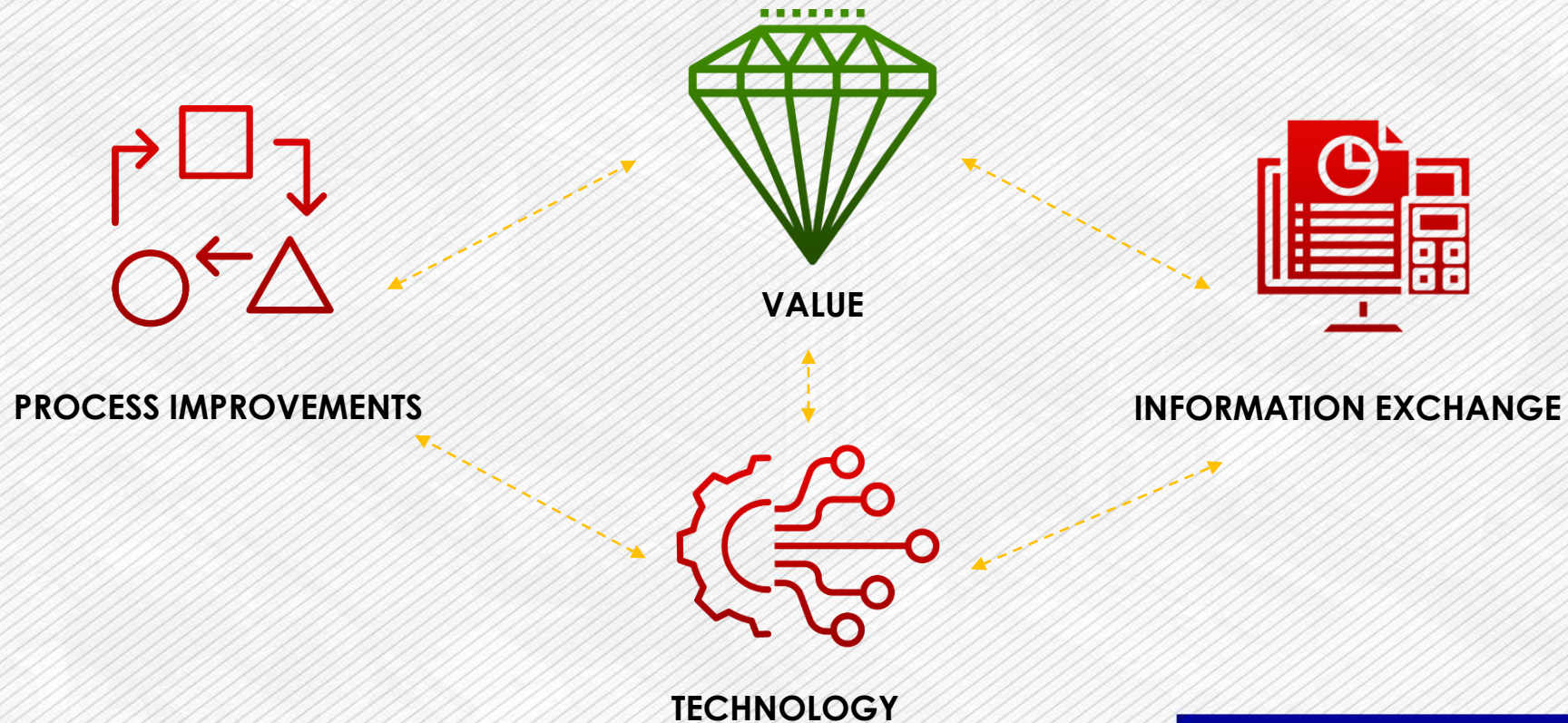


# **BIM FOR PORTSMOUTH**

**DIGITAL TRANSFORMATION**

# A BOLD STEP...

“ WE ARE PASSIONATE ABOUT CREATING A WORKING ENVIRONMENT THAT WILL SIGNIFICANTLY IMPROVE PROJECT OUTCOMES AND END USER EXPECTATIONS.”



# DRIVERS

**PUBLIC  
ORGANISATION**



**POTENTIAL TO  
DRIVE CHANGE.**

**ASSET OWNERS**



**OWN  
17,000  
PROPERTIES**

**PROPERTY  
DEVELOPERS**



**DELIVERED  
OVER 230  
PROPERTIES IN  
THE LAST 5 YRS.**

**HOUSING  
DEMAND**



**18,000  
UNITS BY 2036**

# STRATEGY

## 2018

- IDENTIFIED THE NEED FOR BIM
- AWARENESS WORKSHOP
- STAFF CAPABILITY SURVEY

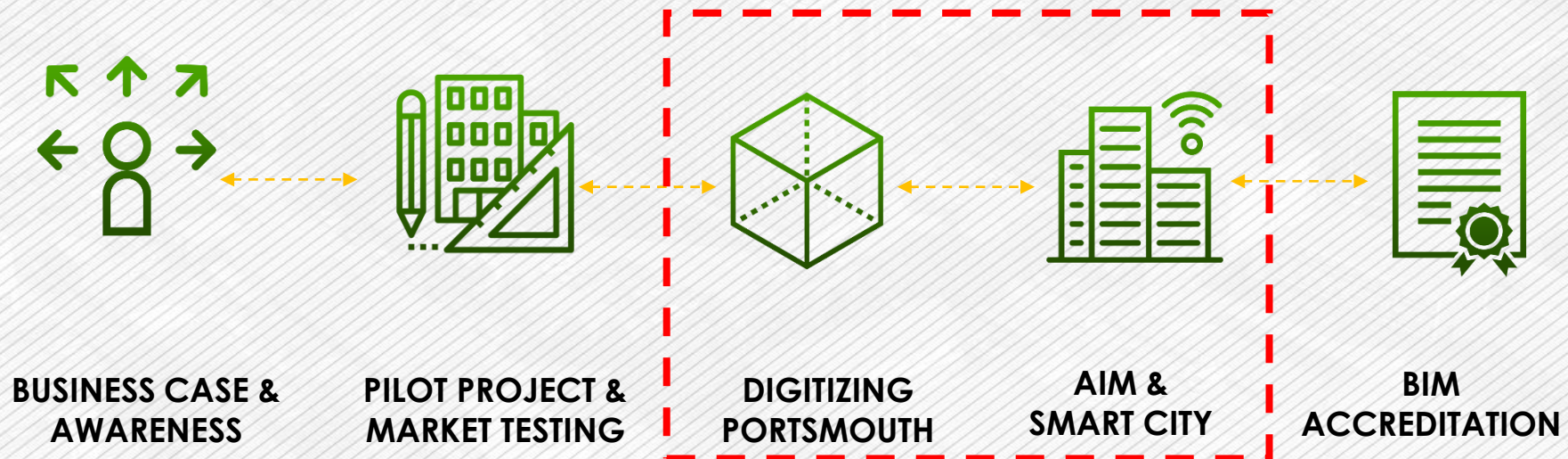
## 2019

- BIM ADOPTION AND IMPLEMENTATION ROAD MAP
- PROJECT VIABILITY ASSESSMENT & ROI

## 2020

- BIM WORKING GROUP
- AWARENESS & TEAM FOCUSED WORKSHOP
- BIM IMPLEMENTATION ON PROJECTS

# PHASED APPROACH







# **ASSET MANAGEMENT**

# ESTABLISHED PROCESS

## DESIGN



- DESIGN SERVICES
- INFRASTRUCTURE

## DELIVERY



- STRATEGIC DEVELOPMENT
- PROJECT MANAGEMENT

## OPERATE



- ASSET MANAGEMENT
- FACILITIES MANAGEMENT



# DIGITAL ASSET INFORMATION CHALLENGES

## INFORMATION REQUEST



- TENDER DOCUMENTATION (TRADITIONAL EMPLOYERS REQUIREMENTS (ER) & EXCHANGE INFORMATION REQUIREMENTS (EIR))

## SILOED DATA



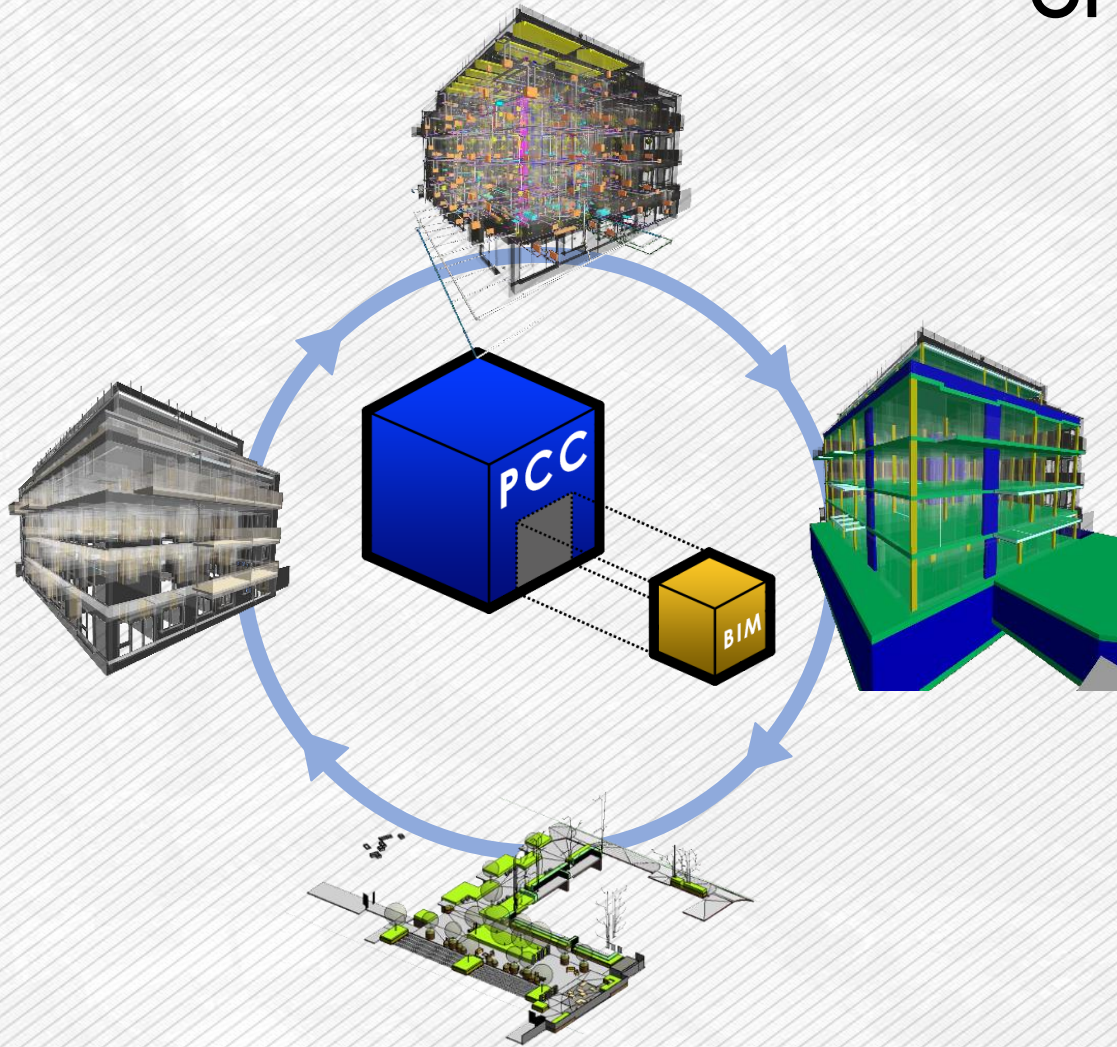
- ACCESS TO THE REQUIRED INFORMATION/DATA WHEN NEEDED.

## EXISTING ASSETS VS NEW ASSETS



- OVER 90% OF OUR ASSETS ALREADY EXIST.

# DIGITAL ASSET MANAGEMENT OPTIMIZATION



- **INTEGRATING BIM INTO AN ALREADY ESTABLISHED SYSTEM OF WORKING.**

- **ENSURING OPTIMAL COORPORATION BETWEEN THE DELIVERY TEAM AND STAKEHOLDERS.**
- **ENSURING THAT RHE PRE-CONSTRUCTION INFORMATION IS UP TO DATE AND READY FOR LATER STAGES.**
- **CREATING A STRUCTURE FOR COLLECTING, MAINTENING ANS SHARING DATA.**
- **BREAKING DOWN THE PROJECT INFORMATION INTO COBIE FORMAT TO HELP WITH MANAGEMENT OF THE ASSET AFTER HANDOVER.**



# **BIM PROJECTS**



# ARUNDEL STREET

TYPE: RESIDENTIAL DEVELOPMENT

STAGE: RIBA STAGE 4 - 7

## PROJECT

To develop 76 new homes for rent to meet the housing needs of the city.

A modern 22-floor residential tower in Portsmouth city centre; our Arundel Street development tackles the Portsmouth housing shortage head on.

Built on council owned land; this slick, attractive block includes a balcony for every flat and a ground-floor commercial unit.

## BIM IMPLEMENTATION

- Carried out project viability assessment and ROI.
- Established our project information requirement by issuing an EIR as part of the tender documentation.
- Define Asset information requirements using our standard O&M Documents.
- CDE Setup: BIM360

## PROJECTIONS

- Monitor and measure progress at every stage.
- A more efficient Operational and asset management experience.
- Effective use of AIM and COBie to facilitate the Operations of the asset
- 4D and 5D optimisation

# TIPNER WEST



TYPE: REGENERATION SCHEME

STAGE: RIBA STAGE 1- 3



## PROJECT

Tipner West is a unique site where land meets sea and roadway meets waterway.

With the provision of more than 4,000 homes, over 145 acres of marine employment. We're pioneering a new way of living in one of the most ambitious and innovative housing and employment developments in the south coast.

## BIM IMPLEMENTATION

- Issued EIR to define our information requirements
- Early Stakeholders engagement and helping to lay a foundation for a process that integrates design with the rest of the projects lifecycle.
- CDE Setup: information was shared using BIM360

## PROJECTIONS

- Setting project as an example to raise the profile of BIM in Portsmouth city council
- Laying a foundation for SMART city processes and technology.
- Better Project team collaboration.
- Identified Triggers for a smooth and effective Asset Management.



# EDINBURGH HOUSE

TYPE: EXTRA CARE HOUSING

STAGE: RIBA STAGE 1 - 3

## PROJECT

The building will be designed primarily for people with varying degrees of dementia and will accommodate both very frail and more active people, including those with physical and mental disabilities.

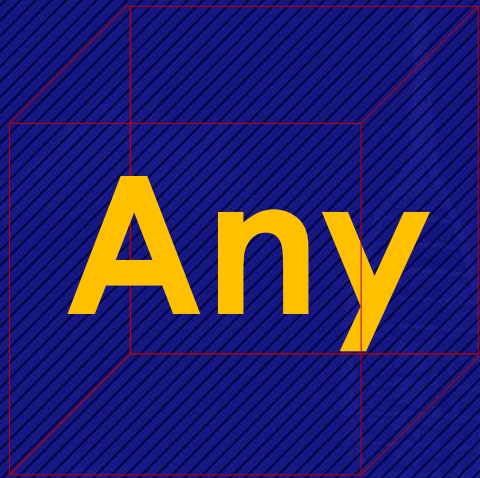
We aim to provide 62 new extra care flats to meet the needs of local people. The principle of a new extra care housing facility is to allow people to maintain an independent lifestyle but they may need some 'extra care' to do that.

## BIM IMPLEMENTATION

- Carried out project viability assessment and ROI.
- Established our project information requirement by issuing an Exchange information requirement EIR as part of the tender documentation.
- Received pre-contract BEP
- 
- CDE Setup: BIM360

## PROJECTIONS

- Monitor and measure progress at every stage.
- A more efficient Operational and asset management experience.
- 4D and 5D optimisation



**Any Questions?....**