



IBPDI Use Case 01

Embodied Carbon Assessment

IBPDI Use Case 01 – Embodied Carbon Assessment

Introduction

Description

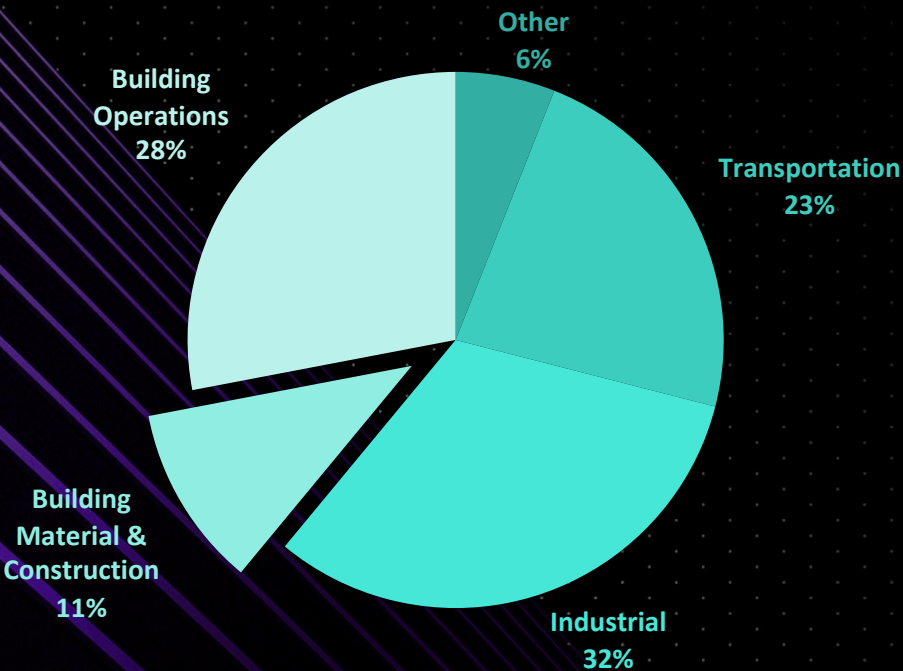
- Buildings account for at least 39 percent of annual global carbon emissions related to energy, with 11 percent attributable to embodied carbon, or greenhouse gas (GHG) emissions from the production, transportation, installation, operation, maintenance, and disposal of construction materials.
- The often-overlooked piece of the pie - embodied carbon assessment of the built environment - necessitates accurate and structured data in order to conduct the analysis and further optimize it.

Challenges for the End User

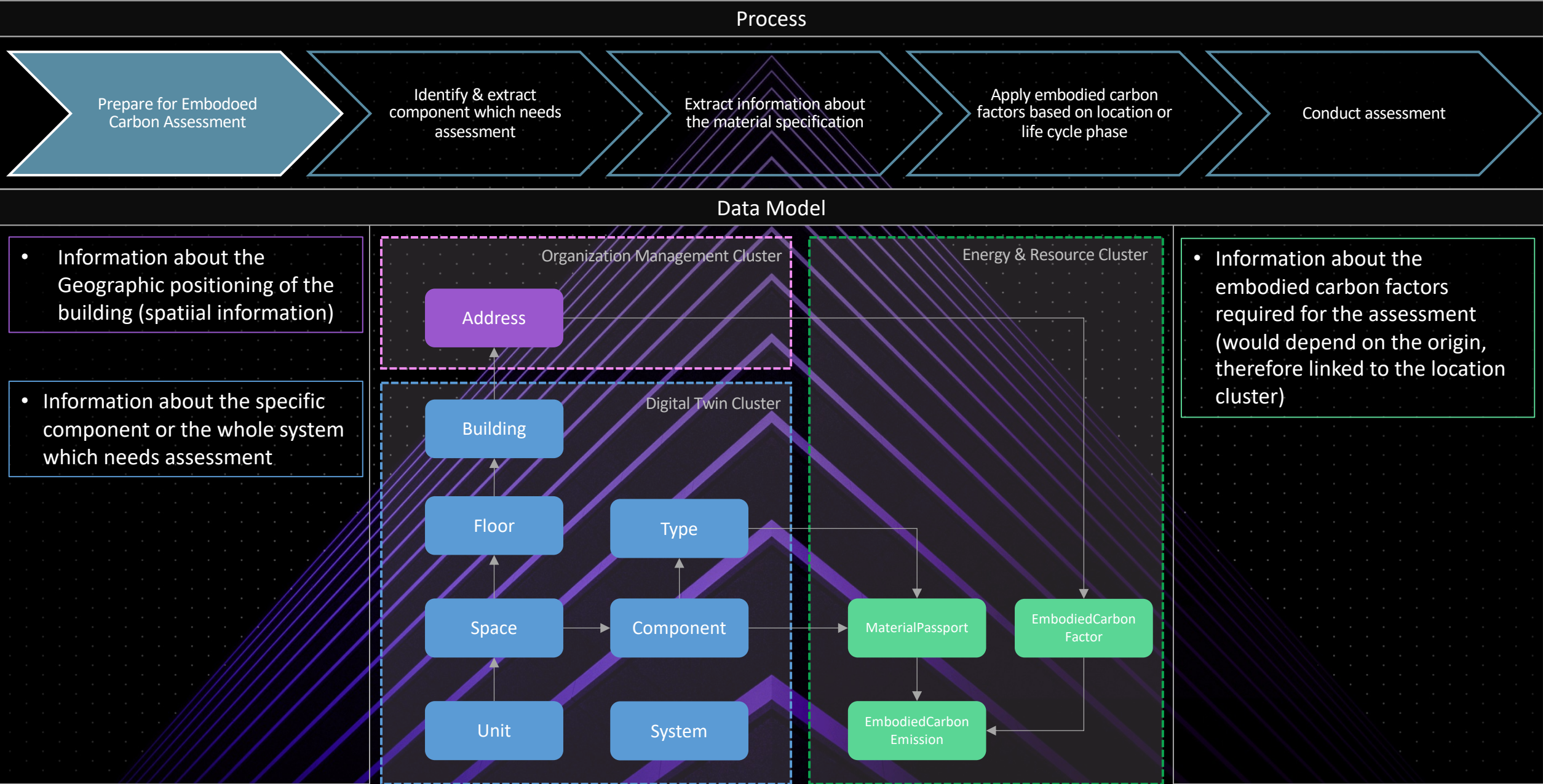
- Data management of all the existing assets (components, systems etc.) in the building or property or portfolio
- Reporting to the applicable regulatory norms

Solution offered by IBPDI

- The integration of IBPDI's Digital Twin, Energy Resource and organization management cluster allows the user to organize their building data in order to efficiently and accurately assess the embodied carbon of the built environment at the desired level of detail.



IBPDI Use Case 01 – Embodied Carbon Assessment





IBPDI Use Case 02

Operational Carbon Assessment

IBPDI Use Case 02 – Operational Carbon Assessment

Introduction

Description

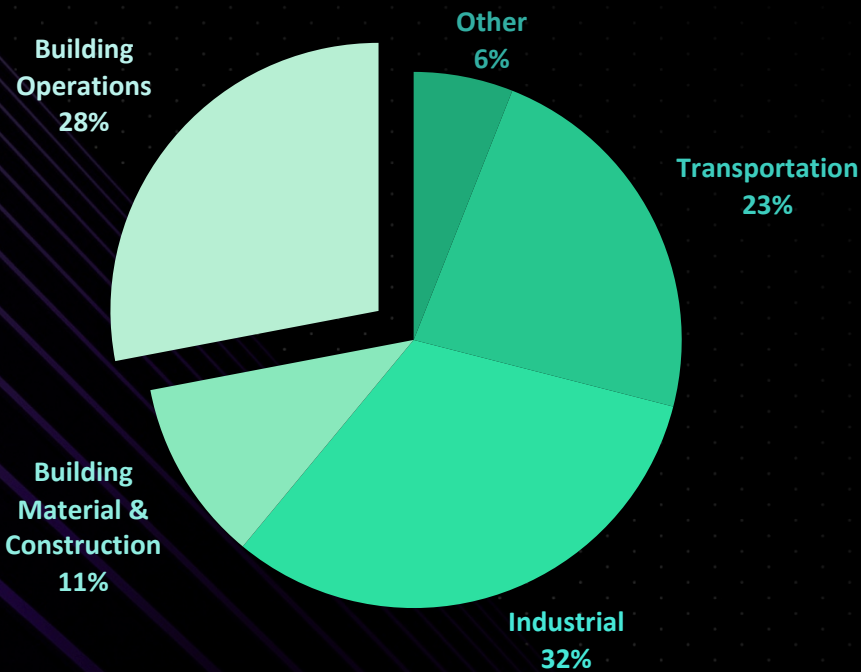
- Building operations are responsible for around 70% of the real estate sector's nearly 40% share of worldwide CO2 emissions. The real estate sector needs to undergo considerable changes in terms of data management if global and national climate targets are to be met, which call for significant reductions in emissions from operations.

Challenges for the End User

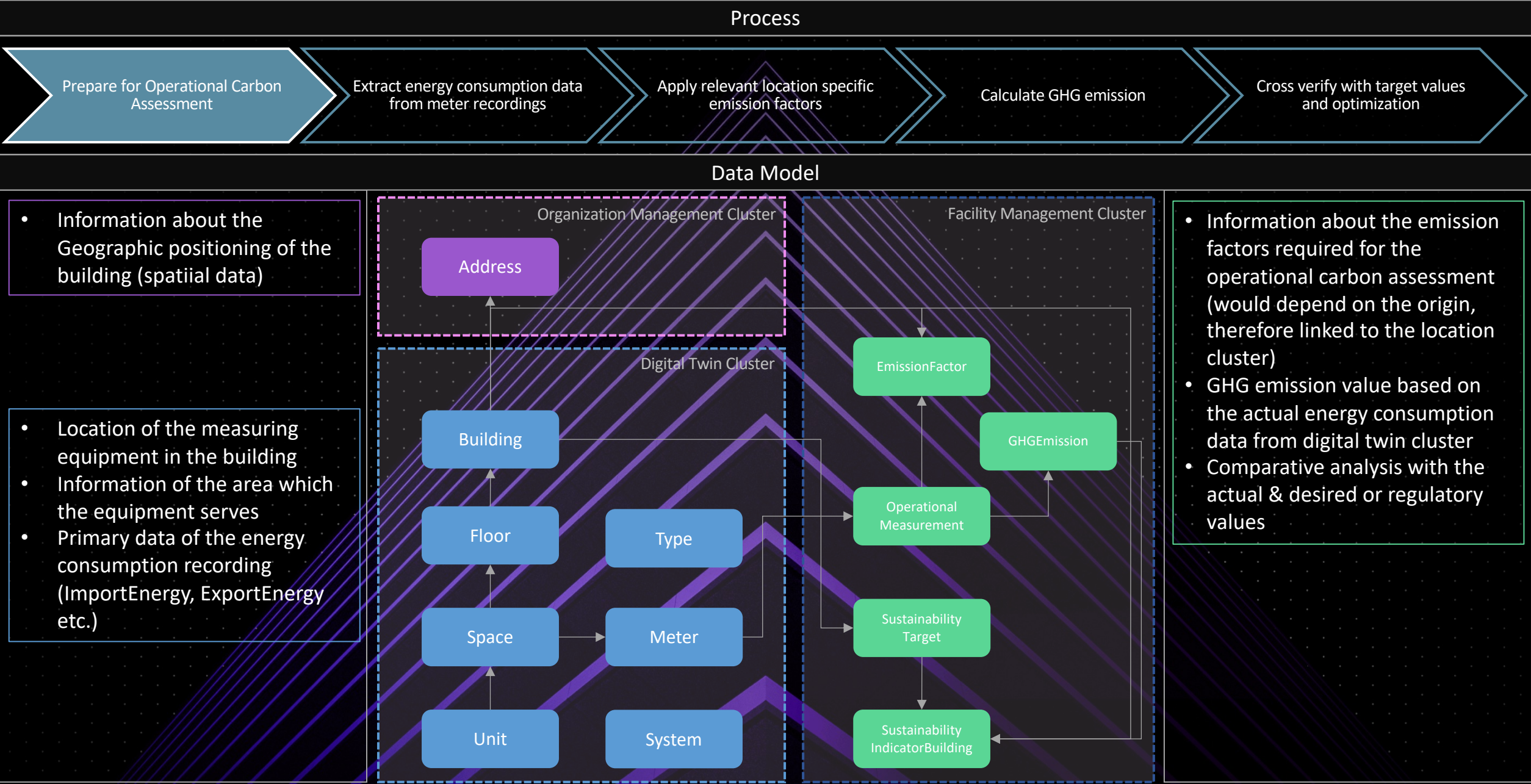
- Data management of building’s operational energy consumptions recordings (Dynamic Data)
- Reporting to the applicable regulatory norms

Solution offered by IBPDI

- IBPDI seeks to aid in this shift by providing users with an efficient approach for managing and organizing their dynamic data in order to precisely quantify and further optimize the operational carbon emissions of the built environment.



IBPDI Use Case 02 – Operational Carbon Assessment





IBPDI Use Case 03

CapEx Analysis

IBPDI Use Case 03 - CapEx Analysis

Introduction

Description

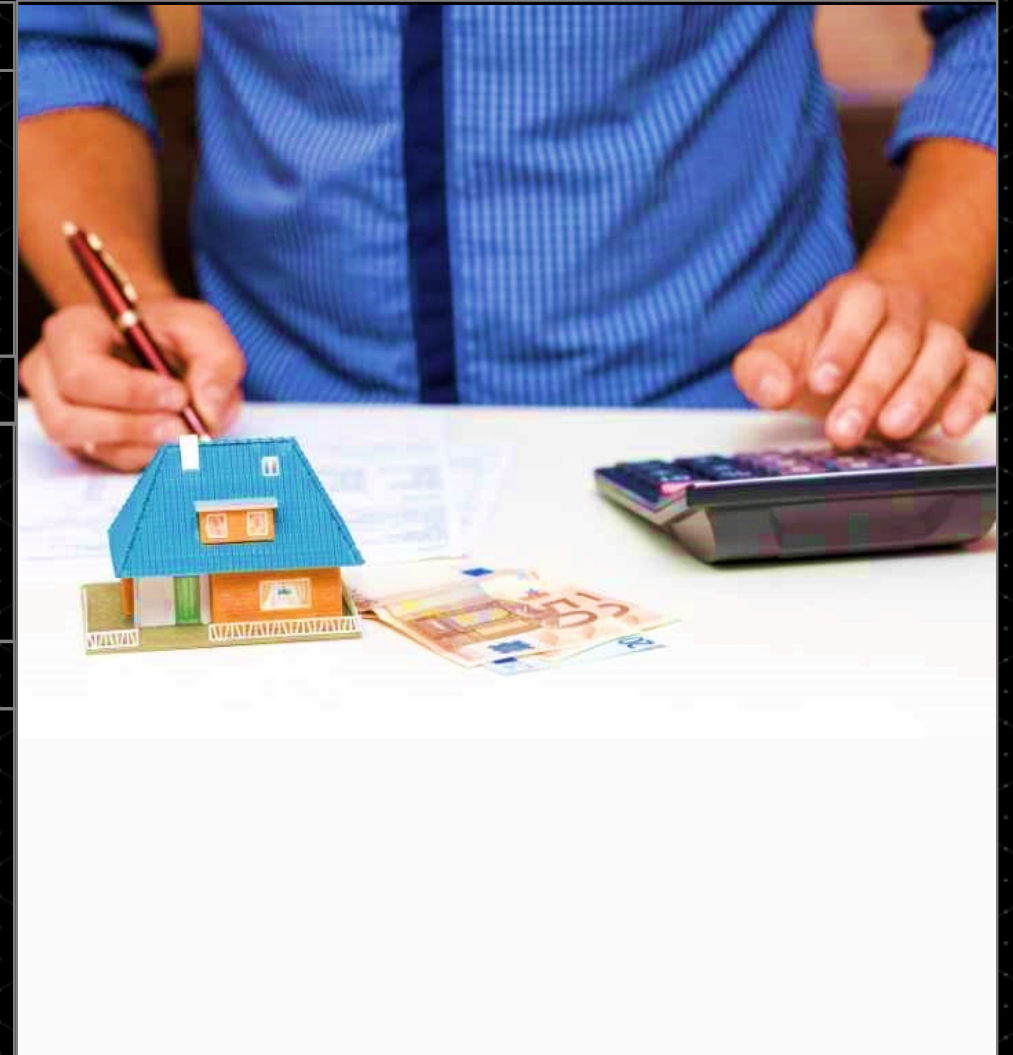
- Capital expenditure or "CapEx" are the funds used to acquire, upgrade or repair the property. It also includes the acquisition of equipment for said property. An expenditure is considered a CapEx if it is a new purchase or extends the life of the property. For example, fixing the roof, installing a furnace or painting the building.

Challenges for the End User

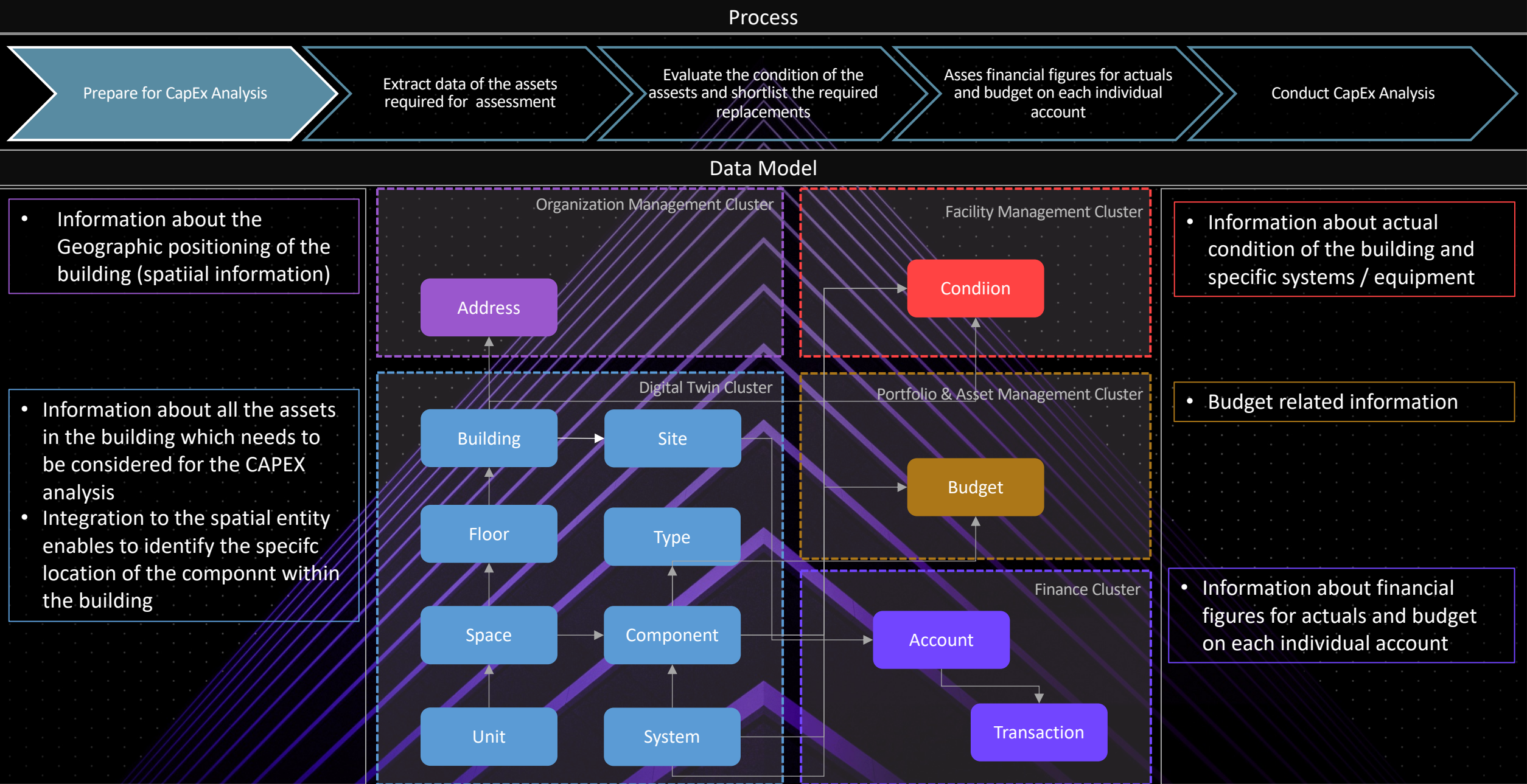
- One of the significant obstacle in carrying out this analysis is lack of structured data, which ultimately leads to inadvertent fund allocation and has an influence on both short- and long-term business objectives.

Solution offered by IBPDI

- IBPDI's holistic approach attempts to organize these massive amounts of heterogeneous data and provides the user with a consistent framework for gathering and retrieving all the relevant information needed to carry out an efficient analysis



IBPDI Use Case 03 - CapEx Analysis





IBPDI Use Case 04

Service Charge

IBPDI Use Case 04 – Service Charge

Introduction

Description

- Service charges deal with the costs of servicing and operating a property, to comply with the landlord lease obligations for the provision of services.
- This includes reasonable costs of maintenance, repair and replacement (usually where beyond economic repair) of the fabric, plant, equipment and materials necessary for the property's operation.

Challenges for the End User

- One significant impediment to carrying out this analysis is a lack of unified data from varied sources involved, which ultimately leads to incorrect service charge allocation and has an impact on both short- and long-term business objectives.

Solution offered by IBPDI

- IBPDI's extensive as well as the integrated approach enables the user to structure these assorted data in a consistent framework, enabling them to effectively gather as well as retrieve the pertinent data as desired



IBPDI Use Case 04 – Service Charge

