BIM Speed Methodology Toolkit

Training material

HOCHTIEF ViCon GmbH

BIM SPEED

BIM SPEED METHODOLOGY TOOLKIT
SHORT DESCRIPTION

The BIM Speed Methodology Toolkit supports identification of data to be collected to fulfill the aimed renovation goals for projects. Based on chosen Renovation Phase, RIBA Stage and Business Processes, relevant Use Cases and therefore data to be collected will be listed.

DATA TO BE COLLECTED

Application of BIM SPEED Methodology Toolkit

Who can use the tool?

The BIM Speed Methodology Toolkit should be used by everybody responsible to collect specific data to support the renovation process.

Since the BIM Speed Methodology Toolkit is based on Microsoft Excel, everybody is enabled to use the tool.

BIM SPEED METHODOLOGY TOOLKIT

Main Topics

Purpose

Identified Challenges

BIM SPEED´s Approaches

Development

Support Main Objectives

Identify BIM Use Cases

Derive Data to be collected

Application

Demonstration of

Methodology Toolkit

The **PURPOSE** of
BIM SPEED Methodology Toolkit

PURPOSE

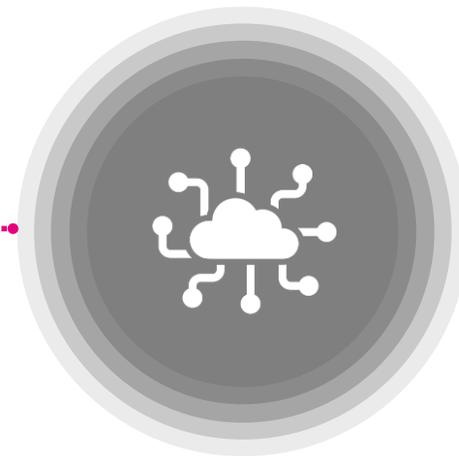**Challenges**

DATA COLLECTION

**REQUIRED
INFORMATION**

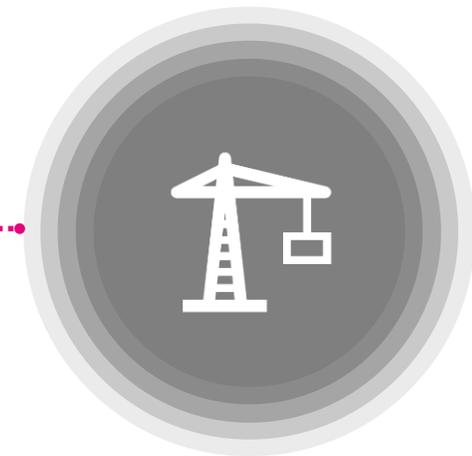**REQUIRED
LEVEL OF DETAIL**

POST PROCESSING

**REDUCE
TIME & EFFORTS**

**USABLE
DATA FORMATS**

COLLABORATION

**SHARE DATA &
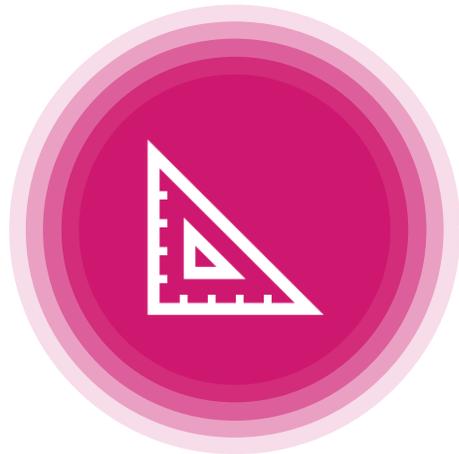ENABLE COLLABORATION**

**AVOID
LOSS OF INFORMATION**

TRANSFER

**IMPLEMENT
NEW FINDINGS ON-SITE**

**AVOID
THEORETICAL SOLUTIONS**

PURPOSE
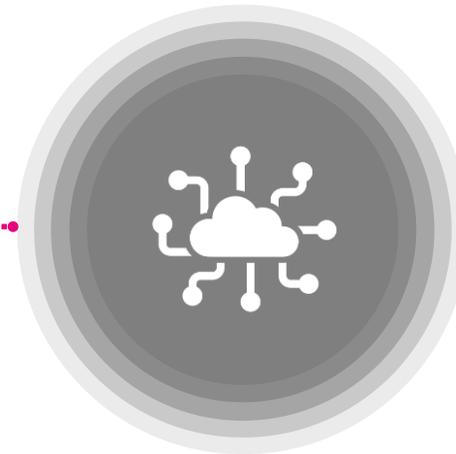## BIM-SPEED´s Approaches

REQUIREMENTS

EXTRACT
REQUIREMENTS
FROM
USE CASES

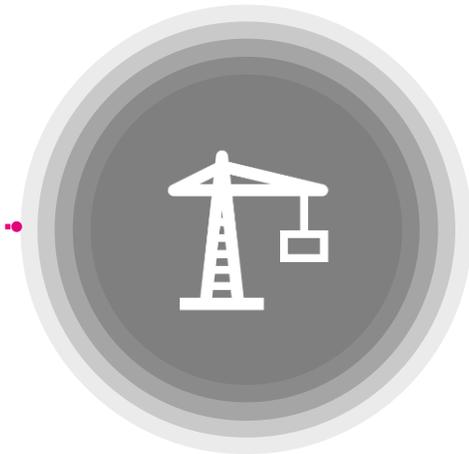**POST PROCESSING**

REDUCE
TIME & EFFORTS

USABLE
DATA FORMATS

COLLABORATION

SHARE DATA &
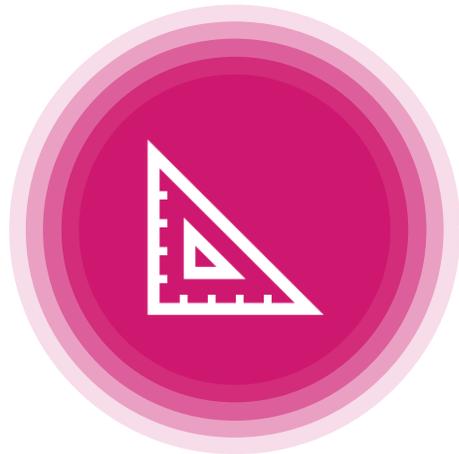ENABLE COLLABORATION

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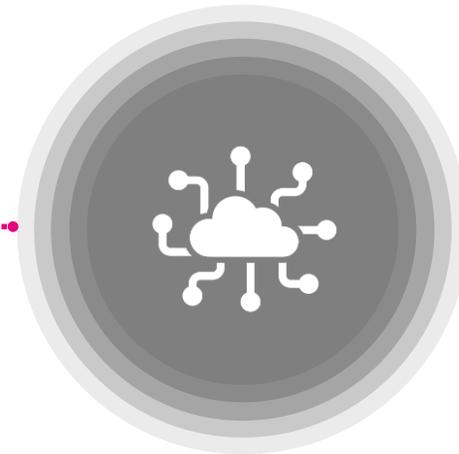## BIM-SPEED´s Approaches

REQUIREMENTS

EXTRACT
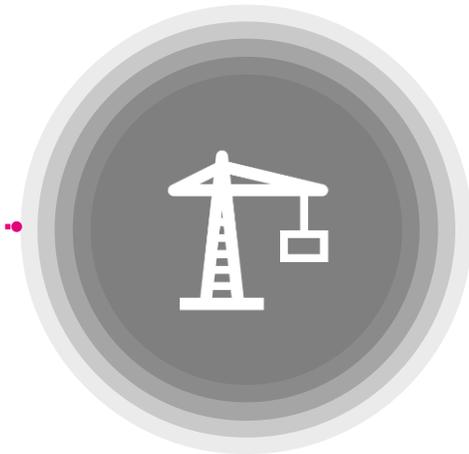REQUIREMENTS
FROM
USE CASES

METHODS

DEFINE
METHODS & TOOLS
ON HOW TO
PROVIDE REQUIRED INFORMATION

COLLABORATION

SHARE DATA &
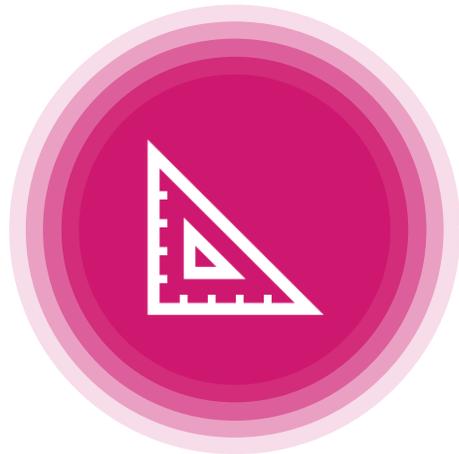ENABLE COLLABORATION

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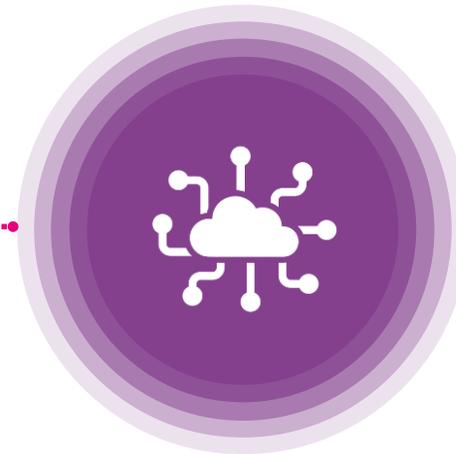
PURPOSE

BIM-SPEED´s Approaches

REQUIREMENTS
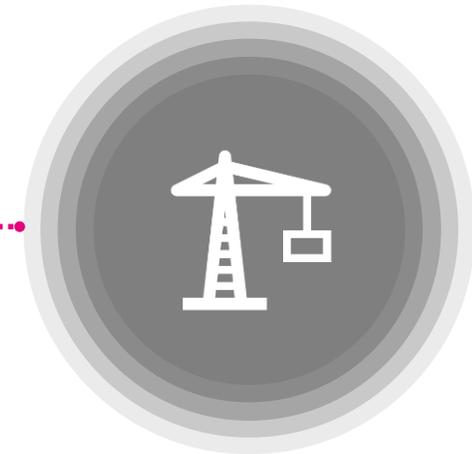
EXTRACT
REQUIREMENTS
FROM
USE CASES

METHODS

DEFINE
METHODS & TOOLS
ON HOW TO
PROVIDE REQUIRED INFORMATION

IT-ENVIRONMENT

ESTABLISH
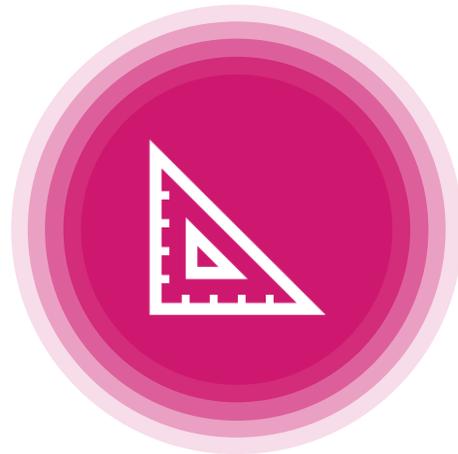IT-ENVIRONMENT
TO INTEGRATE DATA
FROM SEVERAL SOURCES

TRANSFER

IMPLEMENT
NEW FINDINGS ON-SITE

AVOID
THEORETICAL SOLUTIONS
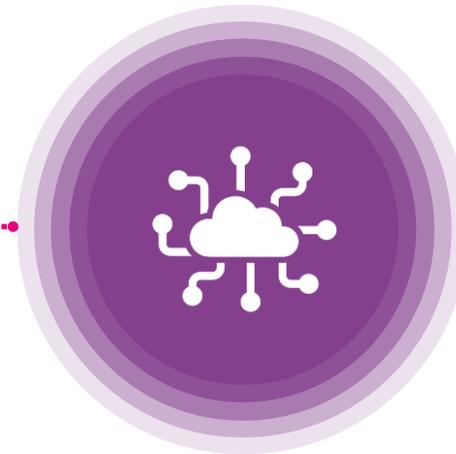
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BIM-SPEED´s Approaches

BIM SPEED

REQUIREMENTS
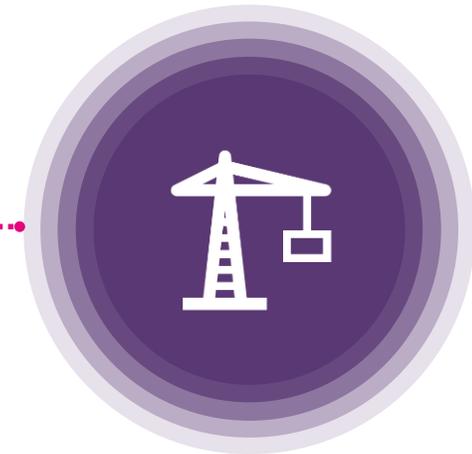
**EXTRACT
REQUIREMENTS
FROM
USE CASES**

METHODS

**DEFINE
METHODS & TOOLS
ON HOW TO
PROVIDE REQUIRED INFORMATION**

IT-ENVIRONMENT

**ESTABLISH
IT-ENVIRONMENT
TO INTEGRATE DATA
FROM SEVERAL SOURCES**

DEMONSTRATION

**VALIDATE METHODS
AND
IT-ENVIRONMENT
ON DEMONSTRATION SITES**
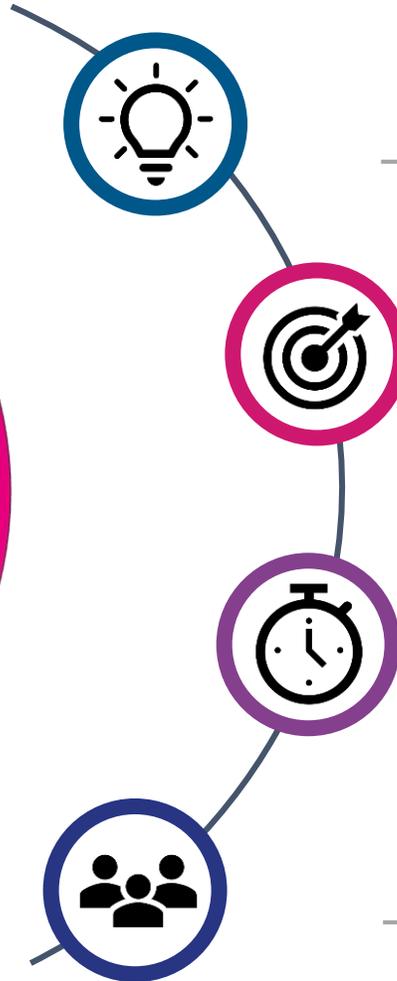
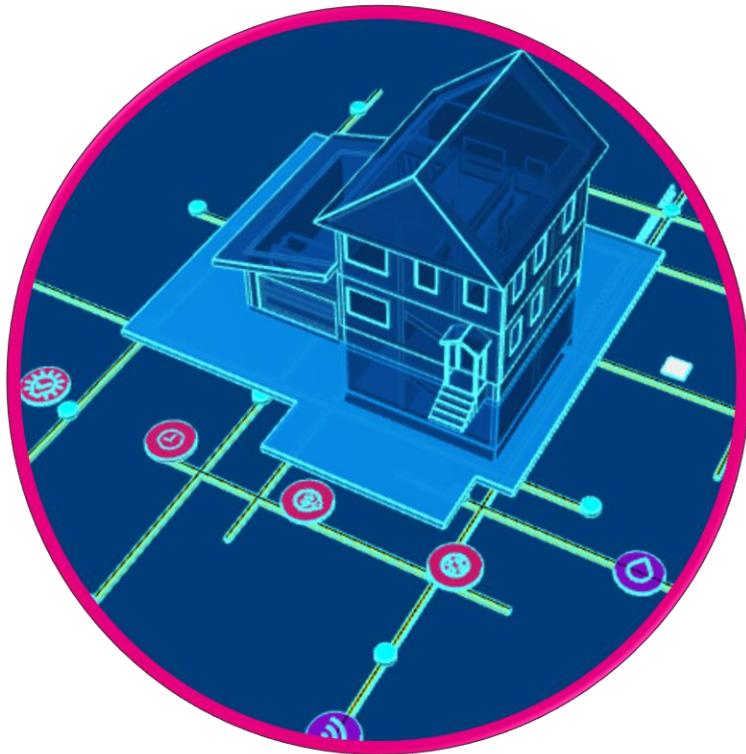# The DEVELOPMENT of BIM SPEED Methodology Toolkit

DEVELOPMENT

Concept

Support
for BIM SPEED´s
Main Objectives

Identification of
relevant
BIM Use Cases

Deriving
the required
Data to be collected

DEVELOPMENT
Support Main Objectives

Increase Energy Performance

Reduce Costs

Speed up refurbishment process

Increase Inhabitants Comfort

DEVELOPMENT

Use Case Terminology

RENOVATION GOAL ● ...aims to be achieved (e.g. reducing energy consumption)

BUSINESS PROCESS ● ...task to be performed in design and construction projects (e.g. energy analysis)

BIM USE CASE ● Use of BIM to support a business process (e.g. BIM based energy analysis)

METHODS ● The way of working to serve BIM use cases (e.g. transfer BIM to BEM)

DEVELOPMENT
Data to be collected

				BIM-SPEED Renovation Phase	RIBA Stage	Business process	Business process description	BIM use case	BIM use case description	Methods	Methods description	Tools/Software/Devices

Requirements Approach

What are the requirements to reach a specified goal?   **Top-Down-Approach**

The APPLICATION of
BIM SPEED Methodology Toolkit

Knowledge of required information, empowers smooth Refurbishment.

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HOCHTIEF ViCon GmbH
BIM-SPEED Methodology Toolkit
BIM-SPEED Project