BIM Speed Methodology Toolkit

Training material

HOCHTIEF ViCon GmbH







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





BIN SPEED

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

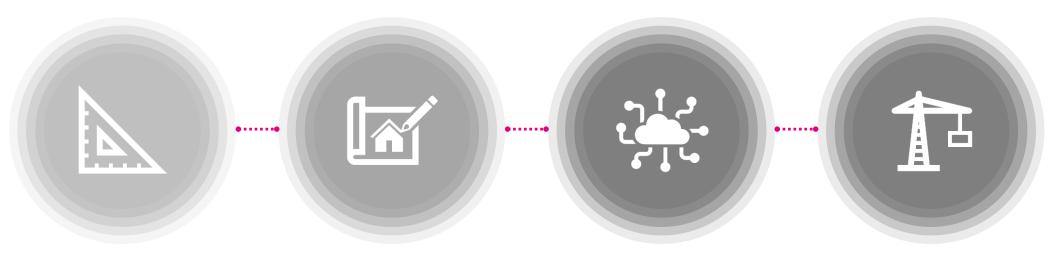
Demonstration of Methodology Toolkit



The **PURPOSE** of BIM SPEED Methodology Toolkit

Challenges





DATA COLLECTION PO

REQUIRED INFORMATION

REQUIRED LEVEL OF DETAIL

N 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

BIM-SPEED's Approaches





REQUIREMENTS

EXTRACT REQUIREMENTS FROM USE CASES

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

BIM-SPEED 's Approaches

USE CASES





AVOID **THEORETICAL SOLUTIONS**

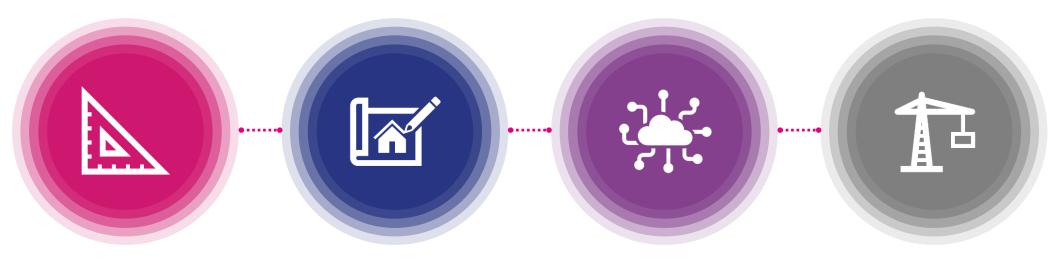
BIM-SPEED Training Material

LOSS OF INFORMATION

PROVIDE REQUIRED INFORMATION

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

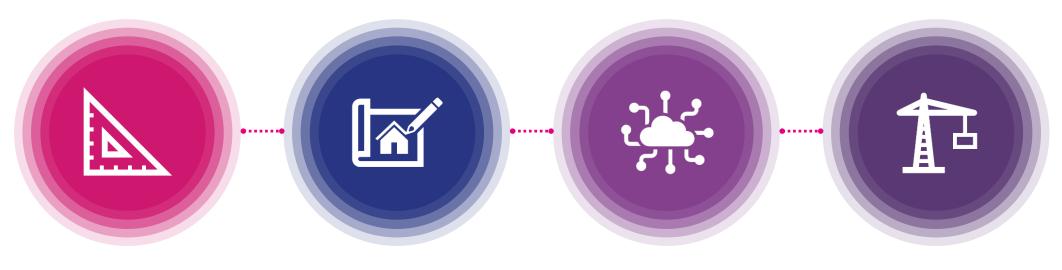
TRANSFER

IMPLEMENT NEW FINDINGS ON-SITE

AVOID THEORETICAL SOLUTIONS

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

DEMONSTRATION

VALIDATE METHODS AND IT-ENVIRONMENT ON DEMONSTRATION SITES



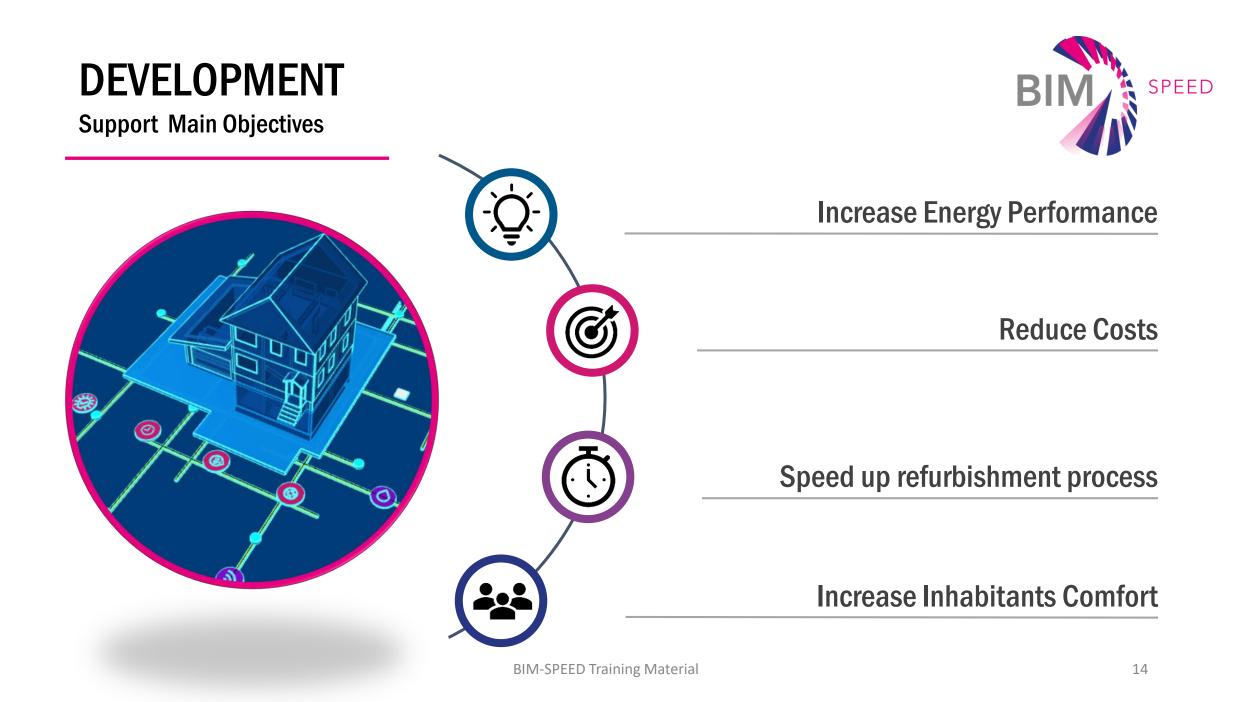
The **DEVELOPMENT** of BIM SPEED Methodology Toolkit

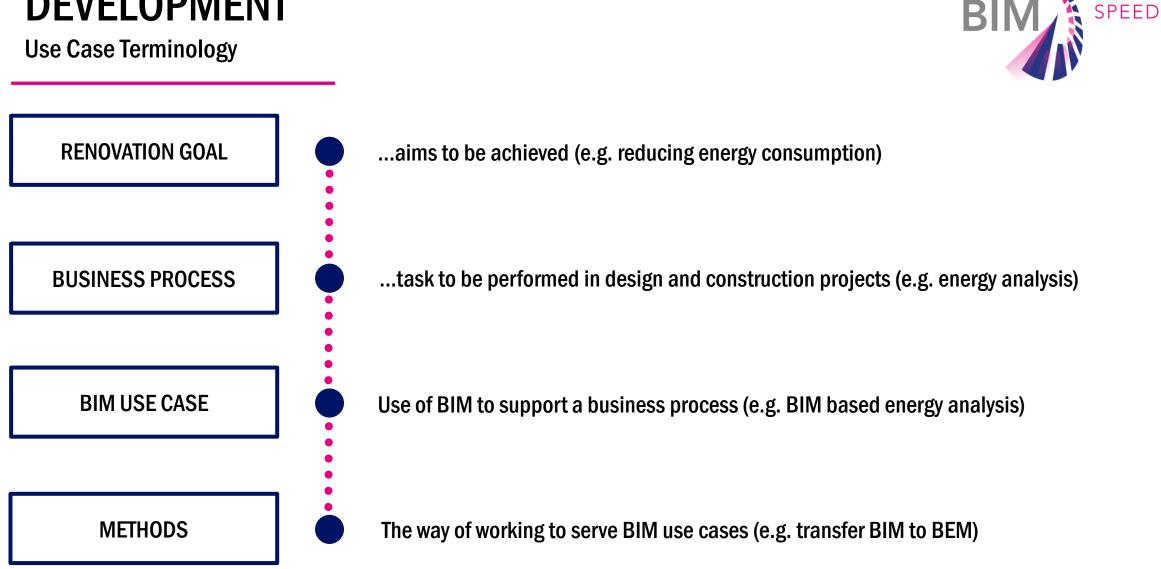
DEVELOPMENT

Concept









DEVELOPMENT

DEVELOPMENT

Data to be collected



| j: | (-) | S. | | BIM-SI | PEED Renovation Phase RIBA Stage | Business process | Business process descriptio | n BIM use case | BIM use case description Methods Methods description Tools | /Software/De |
|-----|--------|--------------------------------|------------------------|--|---|---|--|--|--|------------------------------------|
| • • | \sim | - | ~ A | * | v | | - | ¥ ¥ | | |
| | | | | | | | - | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | assessed Environmental Information | | | | | Daving one day to use a performance for intergencing while state work of a state | |
| _ | 1 | & Totaling Installed | Li Peppentice and App | appress Chargenging Information | Stream the data domain to concord og environment data (data had data ignion to be added | Detroites of Istory choses Instaging | EM GE data tringuistor | I data integration. | Using ready to use arthouses for integrating BM data and CE data | Acceptable infrascolute |
| | | 5. Delaying Bull ding Deta | IL Preparence and the | evente il Chiranteria, infantia- | altract the arm purpose to surround og provinsinget plan i den had description to be added. | Definition of Refuturations: Domington | | Edita integration | SAR implementation for perioding QS data from available web zerolaat for auch dens alter | Capetro Ja |
| | | 1. Totaling Bull Bing Date | | | Direct the delta domain to sampard og environment, deta (dela fod description to be added | Orsign. | Diff 0.5 data triagnation. 2 | C data integration | Vering model to softwaren for integrating Effe data and GD data. | Availe1 Pra |
| | | E Data way built along Garan | 1) Personal and Acc | authest Environmental Information | efforts the data domain to sumpanding environment data carea ted description to be added. | Orago . | 5 W GD Arts Potpelium 0 | 6 data integration | Using readerts use softwares for integrating BW Asia and OS asia | 4x001-0+0 He |
| | | 4. Talence Bull Ding Date | 11 Peparatics and and | ecohest Englanette vitarise) | a thread the data domain to surround og environment deta udeta had description to be without | Owner) | h W 65 data integration | 6 deta integration | And a made to one softwares for responsing fire data and 60 table | Actions Phaness |
| | | 5. Assigning Ball string Carbs | 11 Wegamber and | aumant Incremental Information | ophthesis the data domain to cannording environment data check and description to be added | Oweign. | | IS data integration | (AP) inglementation for existing bits data have avoidable web services for each dense size | 6.4349435.25 |
| | 8 | 1. Setting bolisting Date | All Department and Apr | azaneit Enirgineita irfumati | Closel the date domain to concerned ag environment date (date led description to be added | Kenstruction Flamming | EVICE area respected | E data integration | Using ready to use softwares for integrating ESF data and CS data | Sectifie |
| | | L. Drieting Building Date | | | without the data domain to contourid og anvironment data lideta had deapliphion to be added | Construction Planning | | 6 dea integration | Uning reach to use between the integrating BM data and GG data. | ArcOl Oning |
| _ | 8 | L. Delating Multipling Dates | | | (Breah the data domain to summand og ancrumment data (data fod description to be added | Geographics, Figuring | | 5 data integration | Using ready to use softwares for integrating EM data and ES data | Agricement infrastructure |
| | | 1. Detering Statisting Game | | | Deeps the sets some to surround or environment data clear had deacharter to be asked | CONSTRUCTOR FIRMING | 54 05 seat rangetion 0 | 6 data impartion | API implementation for potenting DS must have available web pervices for each dense site. | (aperton)a |
| 1 | | 1. Dooring Blue drog Date | 11 wapawice and the | | Evente revisiteted besign fasse for Refurbishment Projects obstanled besignation to be added | Design. | | perior with branef on all the could | Taket at Low Low | Actions beat |
| 1 | | L Pangang Balliding Cares | 11 Wepatrice and | | Create candidated becign Bace for Refurbicitinent Projects (detailed description to be acceded | (incip) | | special particular on participation | Based on paired citizat | have to \$194 |
| 1 | | & Takening Ball King Carbo | | Lat. Create Creater, Roce | Direste cellutater lanigh Bane for Cafuth obmare lingare, state ant descript on to be artear). | Design . | | statistics have not an indian as he in | Based on any large an huir desirement or 10 menus, 20 depunds, protect, respective devel | Londen Leur |
| 1 | | L Griefing Bulleting Data | | ige: Grante Danigo Base | Create relidated Secient Roce for Refurblehment Projects (sets list description to be added) | Oneiro | | Decoment basist on Devision Analysis | Devision analysis to spinning analysis 12-models spontour and 10 model required. | Havager 12 Halfrager |
| - 2 | | L fallening building Date | | examples, Dynamic Data (Indoard | Through of indicer styramic state of her stings plate and description to be assured | Definition of Refuturtment Interaction | | are Baueri an cambur aya (P) | Collections Researce conductions AF | Service and in CAPUP |
| | _ | t. Cristing Bull string Data | | exchent. Dynemi, Delle (Indust) | Dramage of reduce dynamic cars of buildings steeps not departure to be easied | | | ex based or WOT sever of entity cases | Collect peraltagood as WOT server client in case | Invicent in (a)*/ |
| | | L Column Bull drug Taria | | essine iC Dysanii, Data (Indust) | Dramps of motor dynamic data of buildings state and analyzing is the address | | | the beaution intercher's protocory | Dest est dest bannel au interdent automatic de lawer. Este vert la instrutier autoritation faituret. | Developed to GATH |
| | | 5. Taturny Bulling Gale. | | assment Oppartic Data (Indear) | Transpe of volcar dynamic clara of tax strings schemed description to be addenti- | Owholice of Refuturines Strategies | Download and storing of useful data tion Demonsters data | the Beneficier of the API | Collections finded as other AF defined to lender installers for example Suppried Denission | Bromigini is GARTIP |
| | | A Design the state limits | | acchant Dynamic Cata (Indoor) | Storage of motor synamic sets of the storage state and description to be added | Owholton of Amutochners Issaulted | | els Beced on 5/2-decebace | Collect one faces or \$2, centrics | |
| | | 1. Salating Blacking Calls | | accords of Dynamic Data (Indeas) | Storage of indicate dynamic data of buildings platter and deals given to be added | | | to Excert of V2-dicateor | Col et des fuero al 20 centrale | Pringrettes |
| | | 5 Televing Building Calls | | | Toronge of matoer dynamic data of his stings states and description to be added | | | ata Barrari at 1/2, charakana | Con en cala ferrar y mais versioner | Savalopari in GUN |
| | | | | acoment Synamic Data (matter) | | Orthonics of Refurbishment Stranging | | | | Concession of the second |
| | | L. Coloring Bull string Carts | | | Augent current install of install actions photo-last Association to be added | Ownstices of Natural Astronom Dissingling | | areas evening with condition | Deserving screen reapily of point and doctors | Condia. |
| | | L Column Installing Case | | esanese. MP77544C installed and | | Delivitius of Relativalment Interaires | | earlies, entireing MCP canalities | Determining control receptly of paging and declares | Paul () segmed an |
| | | S. Coloring Bull string Datab | | REPART METHON INCOMENDATION | Alther cancer and the excitence access received accesses to an access | OKSYSTER OF REVENUES AND A SERVICE | | saras maning MCP condition | Demoking series interfaced in state broughtly | 1.00 |
| | | A TOROPHEND OF DUTY | | | Anne context status of instal access contained description to be establish | Orbation of Arbitration Ballegies | ALIAN ACTIVE MET CONTRACT A | DAID ACTIVE MOVIDATION | prestrong schert chephylic much ar an hertogen | Terry |
| - | | E SANDYERANDINE DADA | | average in habitable input | converting systematic input place and description to be excluded | Cartinizian of Datumpichmans (Instagling | | ecidariti, Cala E. Input Gol action | The construction for structure from structures and constructures and developing methods for structures for automatically doing the | dia interary days to be deserve |
| _ | | 5. Toteling building lists | | ALL-PROPERTY AND A PROPERTY AND A PR | Estimental intercente input plate las description in he attled | 124.185 | | es dante Sate & input Collant an | The states is the data a both can be to include it and includes and share it, the antic of assertances and detailing agreed and to data analysis and proved one to extend of the antic of the | dear Tranding Japp. No has rise of |
| _ | | L GARING BLARING DOD | | asservent in hakitantia ingud | For each of supervised which there yes percent in personal | Cetatrustian Theoring | | epidente Deta & ingest Gollection | To see the two data which day be considered how investments and see if it is a visit of allowing on and developing real how how and be called to be data see if it is a visit of a set of a visit of a set of a visit of a v | Joar Trandy App 75 to deve it |
| _ | | 2 Renamelian Decign | | ger, Dezige, Depetimetion | Courd rate serviculatile Design (description to be added | Construction Parening | | 1 scheduling | Counte 40 model instant an general template of and advantate | Synatria PND |
| - | | 2. Renovation Decision | | Lan. Design Constitution | Flore A heats service scheller, Design (Astro-Text and an in the set Art A | Change: Guality Management | NW Neper, Design coordination 2 | crige Grandination | Control provides sur information about as its number | TOTA REPAIR CONCUS |
| _ | _ | C. MARCONAL MARCON | | uge, Design Constraints | Source extension and the Denne of Denne All Reaction of Seneration Content of Seneration S | Oesigh Gualt's Management | EMAniest. Zeogr. UserZenture. 22 | REAL COLORNALION | Techni georgen sei information staat weisi a tuatsio | CASE REPORT NUMBER |
| 1 | | a broadcastersign | | uge: Design Constitution | | Oexign Goality Management | the Laser Decign conduction D | | | Single schooling neurophenis |
| 1 | | | | rige, Deerge Demokration | | Oneign Guaith Management | Without Design constraints [7 | | | |
| | | | | ger Design Countination | | Crister, Coality Management | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

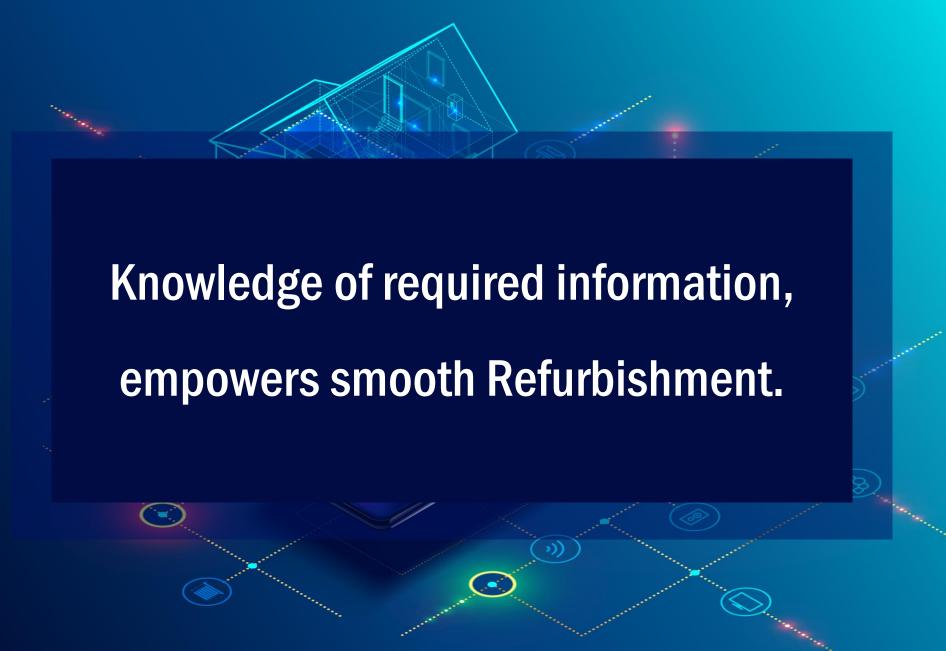
Requirements Approach

What are the requirements to reach a specified goal?

Top-Down-Approach



The APPLICATION of BIM SPEED Methodology Toolkit





Jan-Derrick Braun, Jessica Steinjan HOCHTIEF ViCon GmbH BIM-SPEED Methodology Toolkit BIM-SPEED Project



© BIM-SPEED ALL RIGHTS RESERVED. ANY DUPLICATION OR USE OF OBJECTS SUCH AS DIAGRAMS IN OTHER ELECTRONIC OR PRINTED PUBLICATIONS IS NOT PERMITTED WITHOUT THE AUTHOR'S AGREEMENT

THIS PROJECT IS FUNDED UNDER THE EU PROGRAMME H2020-NMBP-EEB-2018 UNDER GRANT AGREEMENT NUMBER: 820553. THE CONTENTS OF THIS PRESENTATION REFLECT ONLY THE AUTHOR'S VIEW AND THE AGENCY AND THE COMMISSION ARE NOT RESPONSIBLE FOR ANY USE THAT MAY BE MADE OF THE INFORMATION IT CONTAINS.

