

# Implementation of RPA and Python tools in BIM Coordination of Rail Baltica project

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# Speaker



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RB Rail AS

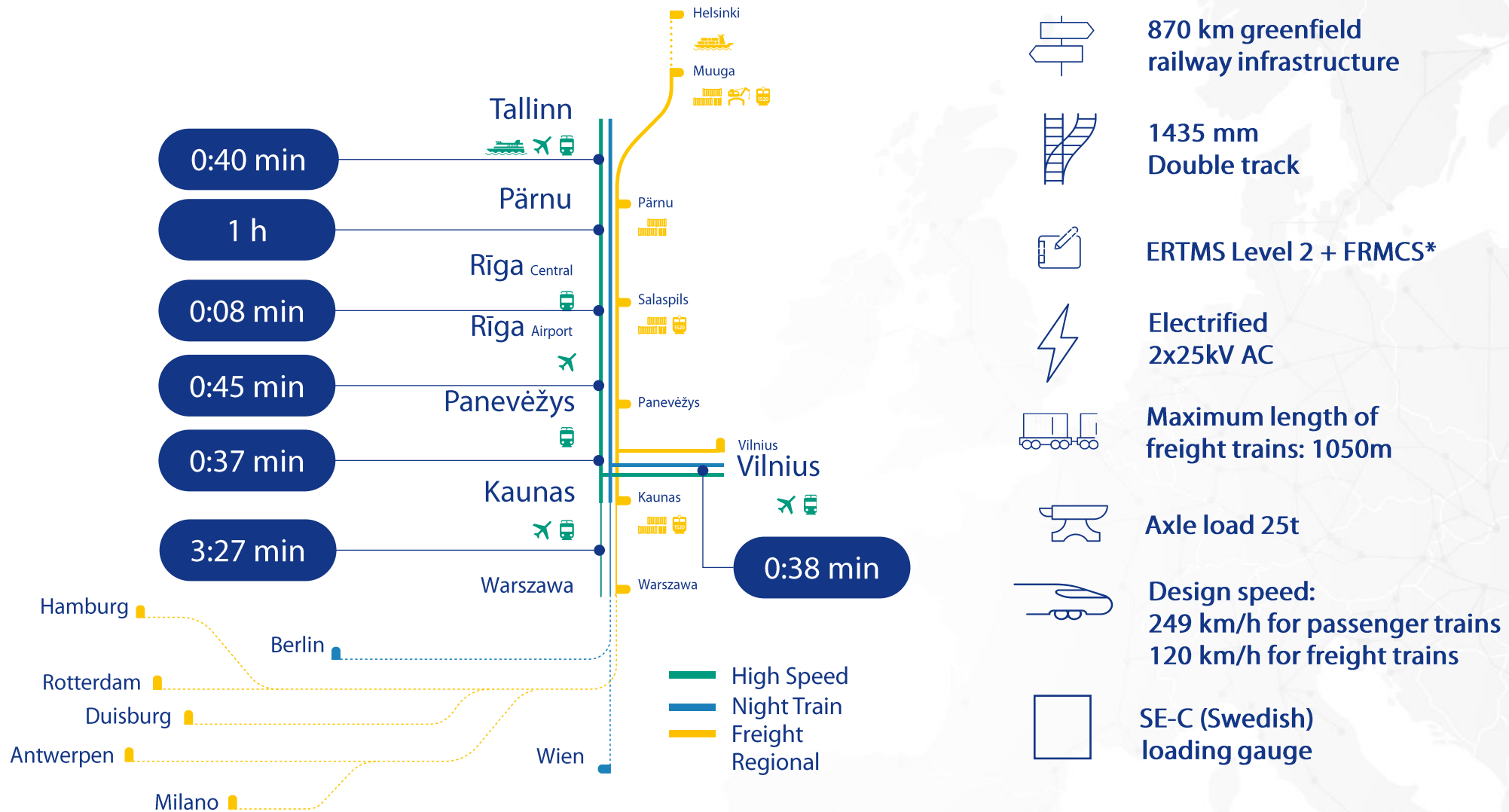
# Agenda

- Introduction of the Project
- BIM review process and automation
- Citizen Developer approach
- Use cases

**Rail Baltica – part of the North  
Sea-Baltic core network  
corridor**



# Basis for new economic corridor and military mobility

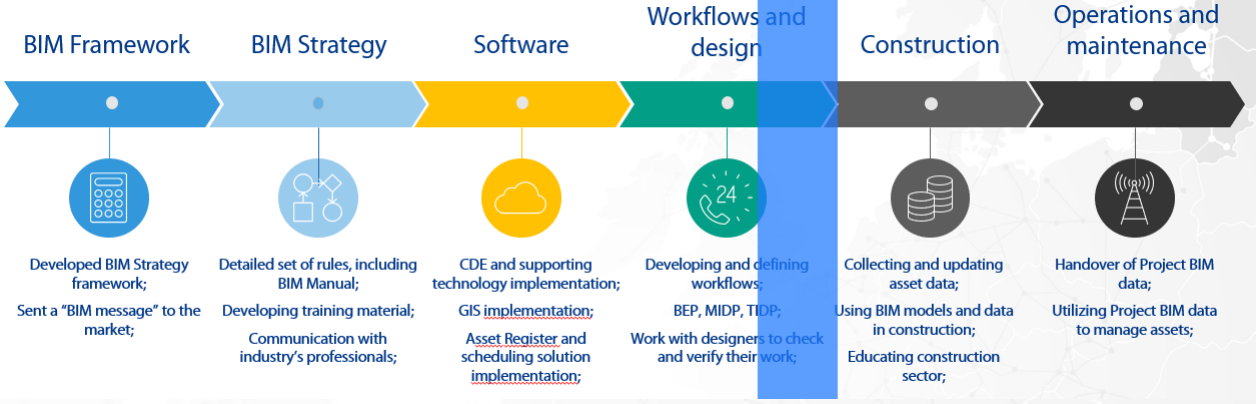


# A truly European project (with 150+ partners)

- ✓ More than 150 active contracts with total value above 900 MEUR. Over 50 international partnerships - European industry strongly represented



# Rail Baltica – Entering Construction Phase



# Native BIM model with attribute data -> IFC -> Asset Register

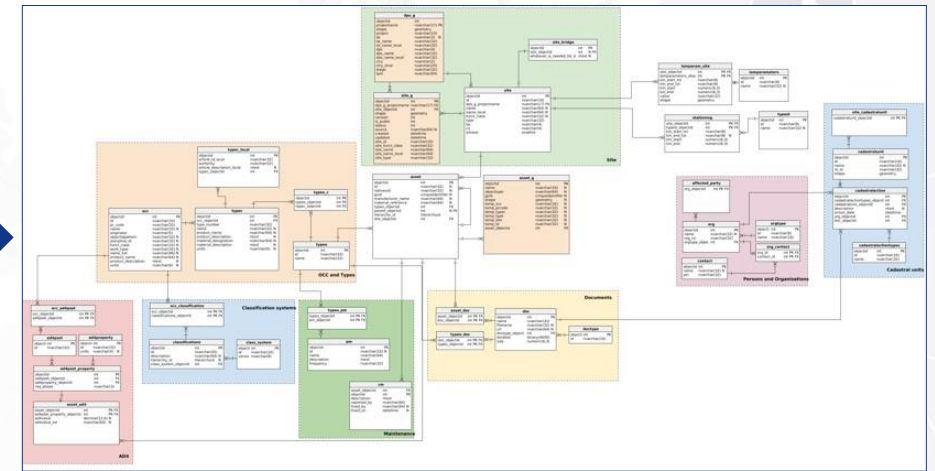
## BIM attributes

Property	Value
RBR-Exposure	XC2
RBR-Functional_classification	CV-BR-OPSS-RD
RBR-IsTemplate	<no value>
RBR-Length	<no value>
RBR-Local_Code	TS
RBR-Location	0009
RBR-LoG	300
RBR-Lol	300
RBR-Material_Description	Reinforced Concrete
RBR-Material_Designation	C30/37
RBR-Native_Unique_ID	<no value>
RBR-Number	<no value>
RBR-Object_ID	STR-FND-006
RBR-OCC	307
RBR-Originator	IDO
RBR-Position	A-2
RBR-Pr_Code	N/A
RBR-Product_Description	N/A
RBR-Product_Name	N/A

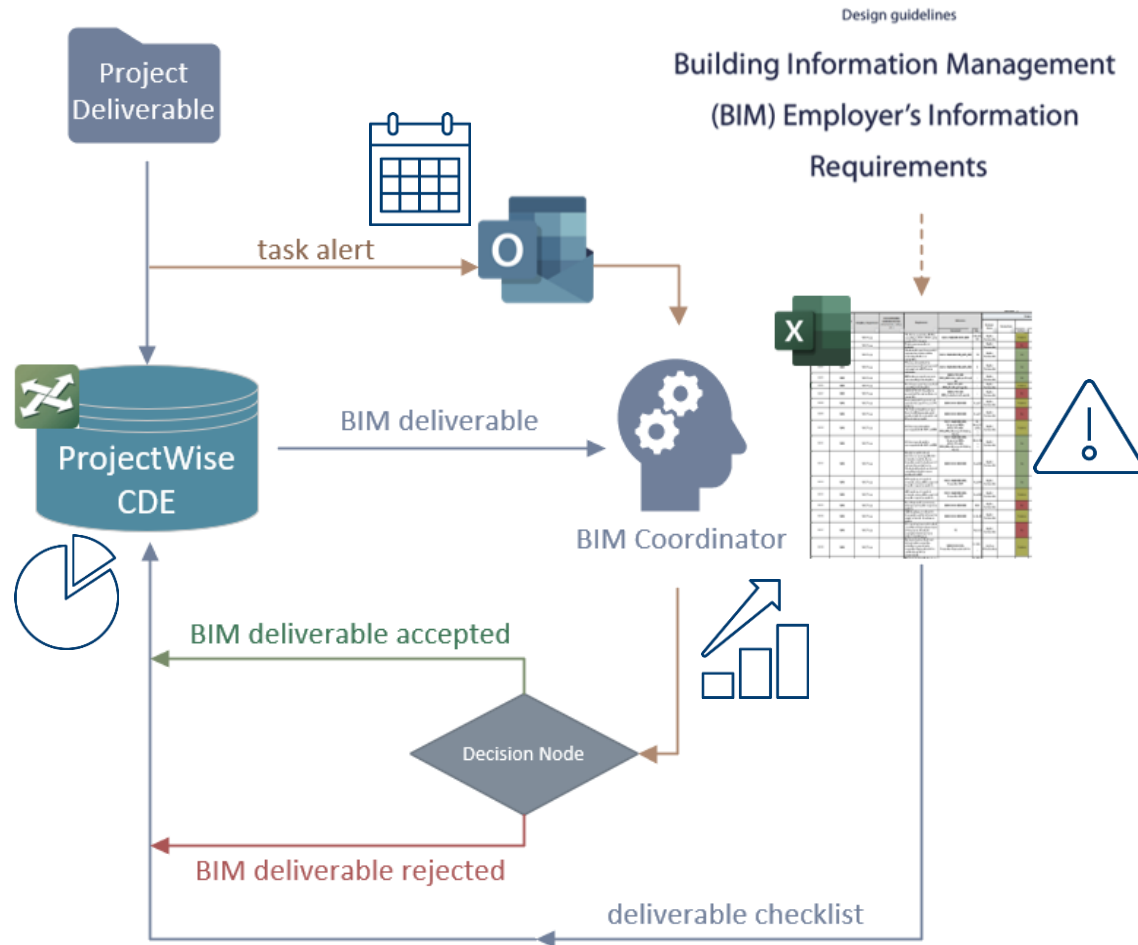
Property	Value
GLOBALID	1x0hCN8FDEDPFZSd2_nY3
RBR-OCC	300
RBR-Object_ID	STR-DCK-001
RBR-Material_Designation	C45/55
RBR-Material_Description	Posttensioned Concrete
RBR-Product_Name	Varies
RBR-Product_Description	Varies
RBR-Pr_Code	Varies
RBR-Type_number	Varies
RBR-Units	Varies
RBR-Exposure	XC4/MD3/XF4
RBR-Concrete_Volume	9474.36 m³
RBR-Steel_Mass	2694373.80 kg
RBR-Steel_Mass-Prestressing	604871.80 kg
RBR-Reinforcement_Ratio	285.0 kg/m³
RBR-Reinforcement_Ratio-Prestressing	65.00 kg/m³
RBR-Project_ID	
RBR-Section_ID	
RBR-SubSection_ID	
RBR-Originator	
RBR-VolSysZone	
RBR-Location	0011
RBR-Discipline_Code	BR
RBR-Local_Code	SK
RBR-Project_Stage	MD
RBR-Revision	001
RBR-LoG	300
RBR-Lol	300
RBR-Design_Life	100
RBR-Start_Kilometre	
RBR-End_Kilometre	
RBR-Functional_classification	
RBR-Position	North
RBR-Type	Post-tens
RBR-Depth	Variable



## Asset Register database



# BIM Review process and spots for automation



✓ Can we get clear picture on upcoming and pending BIM tasks (all PW projects together)?

✓ Can we get BIM team work performance analytics?

✓ Can we use BIM data to answer Checklist questions?

✓ Can we get BIM issues analytics based on Checklist statuses?



# Citizen Developer Approach



A **citizen developer** is an employee who creates application capabilities for consumption by themselves or others, using tools that are not actively forbidden by IT or business units. A citizen developer is a persona, not a title or targeted role.

**Gartner.**



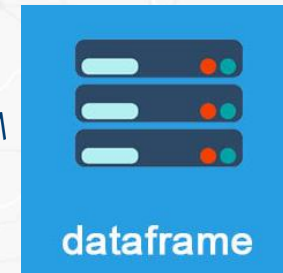
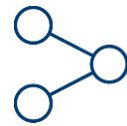
A **citizen developer** is a user with little to no coding experience who builds applications using IT-approved technology and processes



**Power Automate**



# Tools for automation and review time optimization



# Tools for automation and review time optimization



Power Automate



Power BI Desktop



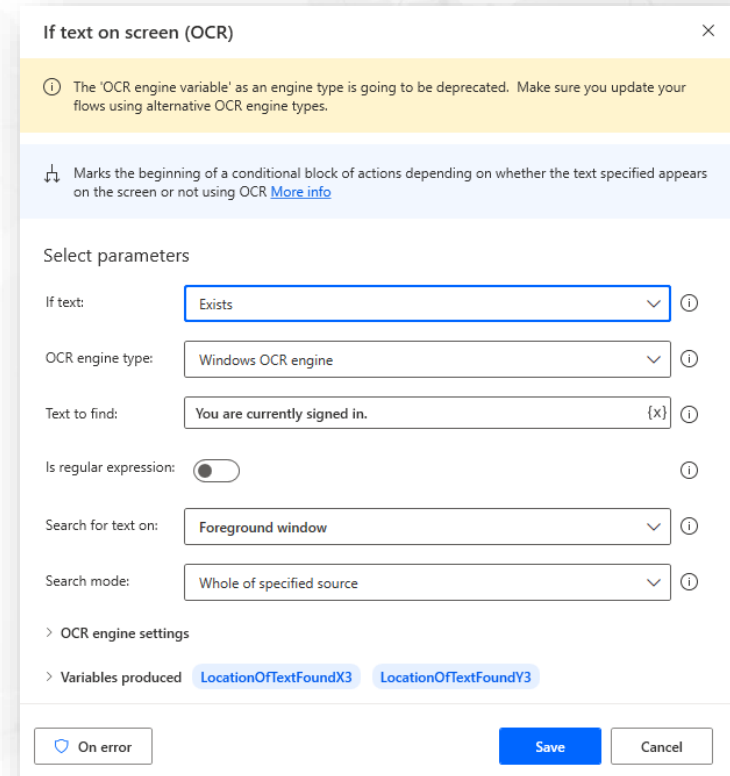
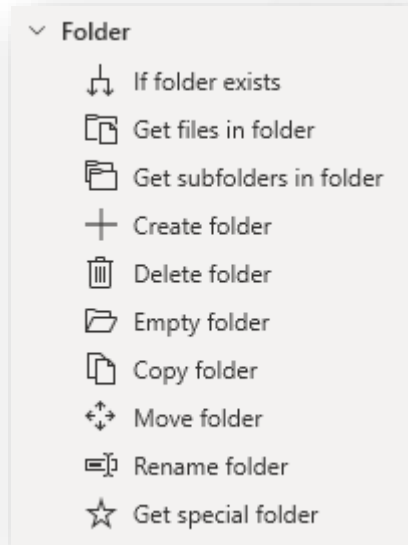
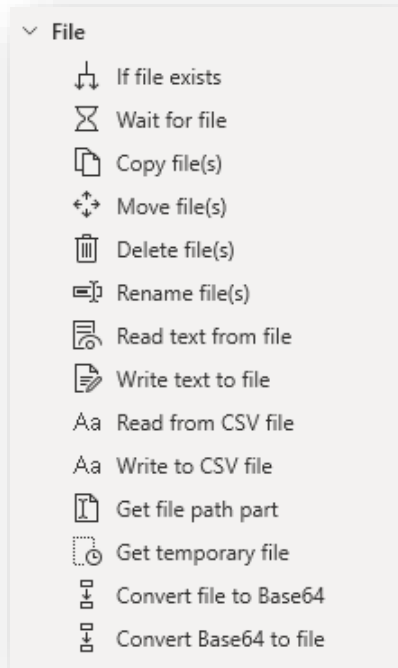
```
QEXvsDD.ipynb
[1]: import pandas as pd_
import os

dDrop_excel = 'dd.xlsx'
all_qex_xls = []
path = os.getcwd()
files = os.listdir(path)
for i in files:
    if i.startswith("qex"):
        all_qex_xls.append(i)
print(all_qex_xls)

dfs = []
for file in all_qex_xls:
    dfs.append(pd.read_excel(file))
merged_qexs = pd.concat(dfs)
header_qex = merged_qexs.iloc[11]
qex_df1 = pd.DataFrame(merged_qexs.values[1:], columns=header_qex)
qex_cleaned = qex_df1[["Object ID", "Qty", "Unit", "VolSysZone"]]
qex_cleaned.rename(columns={'Object ID': 'RBR-Object ID'}, inplace=True)
qex_cleaned.rename(columns={'VolSysZone': 'RBR-Vol_sys_zone'}, inplace=True)
qex = qex_cleaned.fillna(0)
qex.drop(qex.loc[qex["RBR-Object ID"]==0].index, inplace=True)
qex.drop(qex.loc[qex["Qty"]==0].index, inplace=True)

qex.to_excel("takealook.xlsx")
```

# Tools for automation and review time optimization



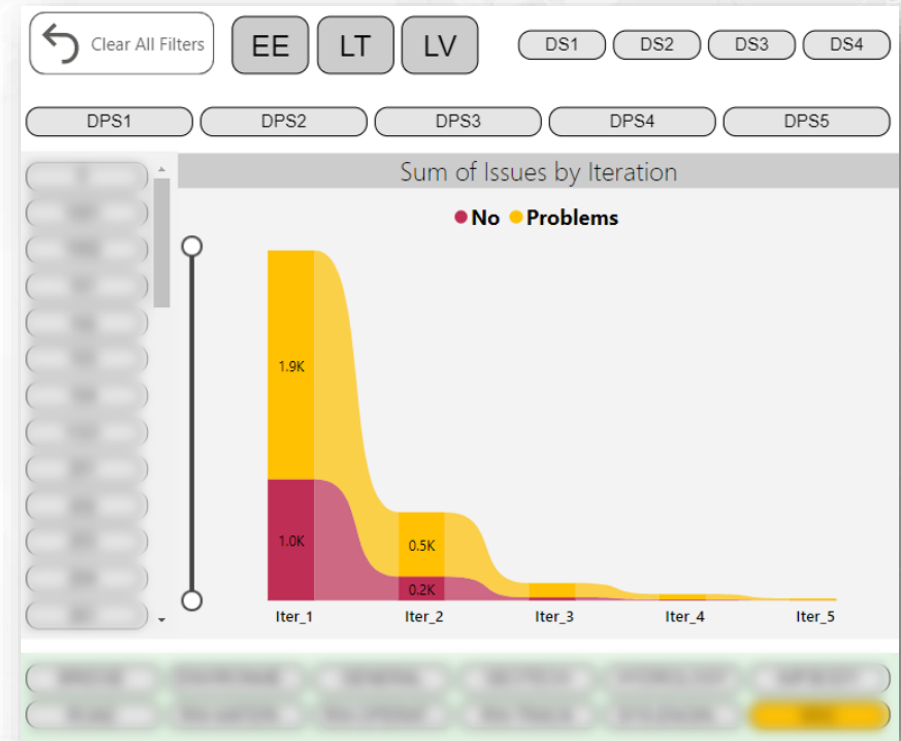
# Tools for automation and review time optimization



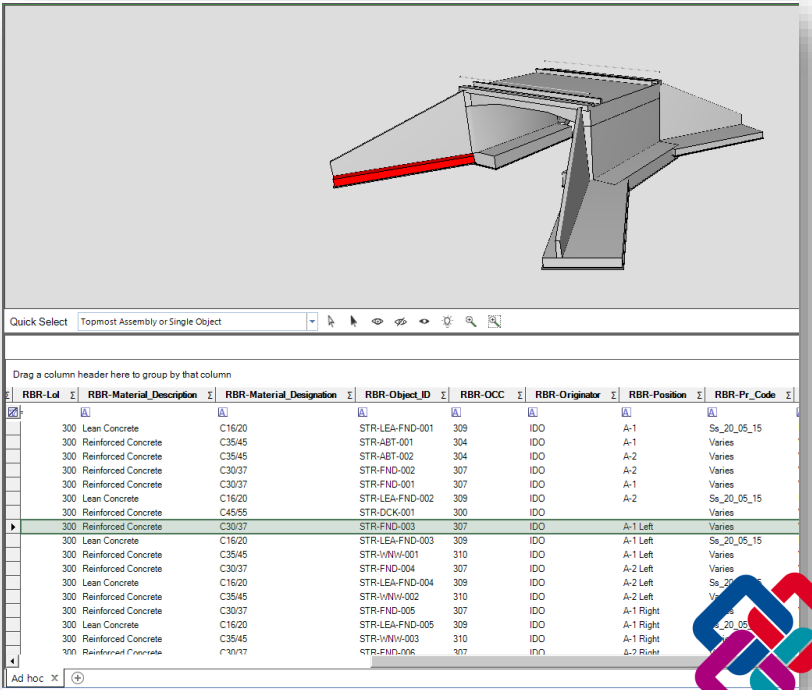
Power BI Desktop



Rail Baltica Coordinated by RB Rail	Design Review Iteration 1																	
	Reviewer's Remarks				Consultant's Response				Reviewer's Opinion				Client Decision coordinated by PM					
Number of Comments	Problems	Non-compliance	Total Issues	Accepted	Disputed	Implementation	Making Progress	Accepted	Disputed	Closed Issues	Open Issues	Closed Issues	Open Issues	Number of Comments	Problems	Non-compliance	Total Issues	
RBR General	7	7	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0
RBR Roads	95	77	0	77	0	0	0	77	0	0	0	0	0	0	0	0	0	0
RBR Railway Track	113	29	8	37	0	0	0	37	0	0	0	0	0	0	0	0	0	0
RBR Structures	145	73	1	74	0	0	0	74	0	0	0	0	0	0	0	0	0	0
RBR Geotech & Materials	135	77	21	98	0	0	0	98	0	0	0	0	0	0	0	0	0	0
RBR Hydrology & Stations	72	29	18	47	0	0	0	47	0	0	0	0	0	0	0	0	0	0
RBR Spatial Planning & Environment	85	52	0	52	0	0	0	52	0	0	0	0	0	0	0	0	0	0
RBR Railway Operations	21	9	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0
RBR BIM	122	82	11	93	0	0	0	93	0	0	0	0	0	0	0	0	0	0
RBR RAMS	8	8	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0
ESP General	15	0	3	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
ESP Roads	210	105	9	114	0	0	0	114	0	0	0	0	0	0	0	0	0	0
ESP Railway Track	117	24	8	32	0	0	0	32	0	0	0	0	0	0	0	0	0	0
ESP Structures	173	41	22	63	0	0	0	63	0	0	0	0	0	0	0	0	0	0
ESP Geotech & Materials	86	0	31	31	0	0	0	31	0	0	0	0	0	0	0	0	0	0
ESP Hydrology & Stations	96	39	13	52	0	0	0	52	0	0	0	0	0	0	0	0	0	0
ESP Spatial Planning & Environment	110	9	21	30	0	0	0	30	0	0	0	0	0	0	0	0	0	0
ESP WOP	23	10	3	13	0	0	0	13	0	0	0	0	0	0	0	0	0	0
ESP Utilities	33	25	1	26	0	0	0	26	0	0	0	0	0	0	0	0	0	0
<b>Total Summary</b>																		
RB Rail Comments	803	443	59	502	0	0	0	502	0	0	0	0	0	0	0	0	0	0
ESP Comments	863	253	111	364	0	0	0	364	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1666</b>	<b>696</b>	<b>170</b>	<b>866</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>866</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



# Tools for automation and review time optimization



RBR-Project_ID	RBR-Section_ID	RBR-SubSection_ID	RBR-Originator	RBR-Discipline Code
Text	Text	Text	Text	Text
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO



# Use Case: BIM Team task management



✓ Can we get clear picture on upcoming and pending BIM tasks (all PW projects together) ?



✓ Can we get BIM team work performance analytics?

Save Run Stop Run next action Recorder

Subflows Main

- Open CMD session  
Start a new CMD session with working directory 'C:\Users\Dmitri.Garbuzenko\OneDrive - RB Rail AS\0\_CTOrep from Sharepoint\OUTPUTS' and store it into CmdSession
- Write to CMD session  
Execute the command 'python3 output.py' and then send Enter at CMD session CmdSession
- Click UI element in window  
Click on UI element Power BI Desktop
- Click UI element in window  
Click on UI element List Item 'RB Rail CTO MasterFile'
- Wait 60 seconds
- Focus window  
Focus window with title 'RB Rail CTO MasterFile - Power BI Desktop' and class 'WindowsForms10.Window.8.app.09fe31\_r8\_ad1'
- Click UI element in window  
Click on UI element Button 'Refresh' 6
- Wait for image  
Wait for an image on the list to appear on the foreground window
- Loop LoopIndex from 1 to 100 with step 1
  - If text on screen (OCR)  
If text 'We couldn't authenticate with the credentials provided. Please try again,' exists on Foreground window using Windows OCR engine
    - Click UI element in window  
Click on UI element Button 'Connect'
    - End
  - Wait 2 seconds
  - If text on screen (OCR)  
If text 'The current user isn't signed in' exists on Foreground window using Windows OCR engine
    - Click UI element in window  
Click on UI element Button 'Sign in as different user' 2
    - End
- End

Clear All Filters Last Update 12/30/2022 9:39:50 AM NEXT YEAR

## BIM Team Dashboard 2022

Rail Baltica

Approved Pending Rejected

DTD MD VE

Review Status

3.72% 96.28%

Deliverables Distribution

Martins 254 Dmitri 225 Rokas

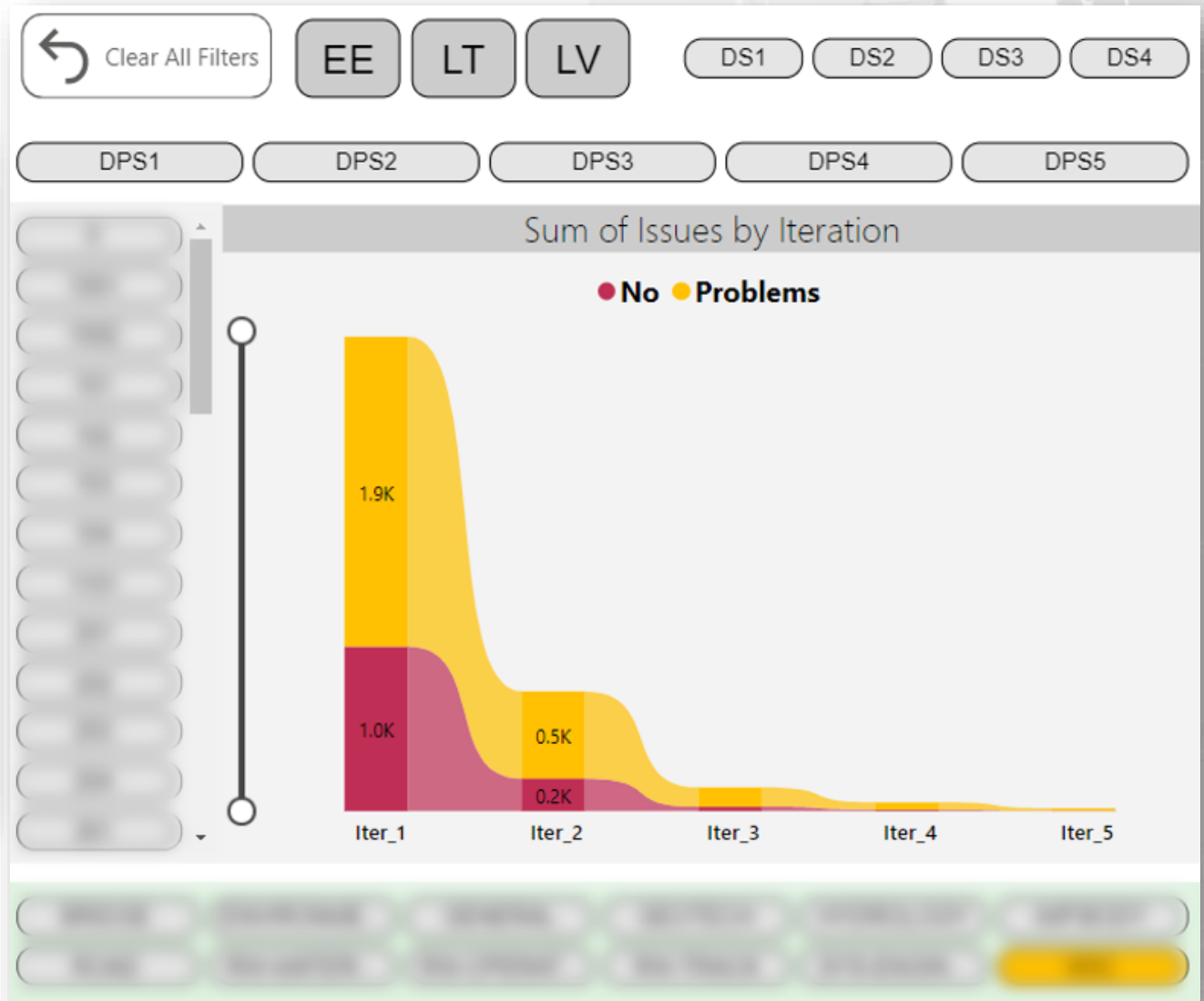
DS-abbr	reviewerFirstna...	Package Name	Review Du...	Review Da...	Review deadline st...	
EE-DS1	Dmitri	...	27.12.2022	27.12.2022	Reviewed, on time	https://fc1070706
LT-DS1		...	27.12.2022	27.12.2022	Reviewed, on time	https://fc1070706
LV-DS4		...	23.12.2022	21.12.2022	Reviewed, on time	https://cad1https://fc1070706
EE-DS1		...	21.12.2022	21.12.2022	Reviewed, on time	https://fc1070706
EE-DS1		...	19.12.2022	19.12.2022	Reviewed, on time	https://fc1070706
LT-DS1		...	16.12.2022	16.12.2022	Reviewed, on time	https://fc1070706
LT-DS1		...	16.12.2022	16.12.2022	Reviewed, on time	https://fc1070706
EE-DS2		...	15.12.2022	15.12.2022	Reviewed, on time	https://85b692b7https://85b60706
LV-DS3		...	14.12.2022	14.12.2022	Reviewed, on time	https://85b60706
EE-DS2		...	12.12.2022	12.12.2022	Reviewed, on time	https://85b60706
LT-DS1		...	09.12.2022	06.12.2022	Reviewed, on time	https://85b60706
LT-DS1		...	09.12.2022	05.12.2022	Reviewed, on time	https://85b60706
EE-DS1		...	08.12.2022	08.12.2022	Reviewed, on time	https://fc1070706
EE-DS2		...	02.12.2022	02.12.2022	Reviewed, on time	https://85b60706

# Use Case: Checklist data analytics



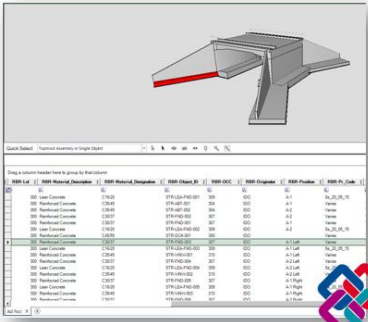
✓ Can we use BIM data to answer Checklist questions?

- 1 Get current date and time  
Retrieve the current datetime and store it into `CurrentDateTime`.
- 2 Convert datetime to text  
Convert datetime `CurrentDateTime` to text using format 'yyyyMMd' and store it into `FormattedDateTime`.
- 3 Launch Excel  
Launch Excel and open document 'C:\Users\Dmitri.Garbuzenko\OneDrive - RB Rail AS\Desktop\Employees.xlsx' using a new Excel process and store it into Excel instance `ExcelInstance`.
- 4 Get first free column/row from Excel worksheet  
Get the first free column/row in the active worksheet of the Excel document whose instance is stored into `ExcelInstance` and store them into `FirstFreeColumn` and `FirstFreeRow`.
- 5 Read from Excel worksheet  
Read the values of the cells ranging from column 'A' row 1 to column `FirstFreeColumn` - 1 row `FirstFreeRow` - 1 and store it into `ExcelData`.
- 6 Set variable  
Assign to variable `RowNumber` the value 2.
- 7 For each `CurrentItem` in `ExcelData`
  - 8 Convert text to number  
Convert text `CurrentItem` [Q1Q2] to number and store it into `Q1Q2`.
  - 9 Convert text to number  
Convert text `CurrentItem` [Q3Q4] to number and store it into `Q3Q4`.
  - 10 Write to Excel worksheet  
Write the value `Q1Q2` + `Q3Q4` into cell in column 5 and row `RowNumber` of the Excel instance `ExcelInstance`.
  - 11 Set variable  
Assign to variable `MonthlySales` the value ( `Q1Q2` + `Q3Q4` ) / 12.
  - 12 Truncate number  
Round `MonthlySales` at 3 decimal digits and store it into `MonthlySales`.
  - 13 Write to Excel worksheet  
Write the value `MonthlySales` into cell in column 6 and row `RowNumber` of the Excel instance `ExcelInstance`.
  - 14 Run Excel macro  
Run macro 'ColorCode' `MonthlySales` ; `RowNumber` on the Excel document whose instance is stored into `ExcelInstance`.





# Use Case: QEX and IFC data comparison



RBR-Project_ID	RBR-Section_ID	RBR-SubSection_ID	RBR-Originator	RBR-Discipline Code
Text	Text	Text	Text	Text
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO
RBDTD-EE	DS1	DPS4	IDO	GEO

```

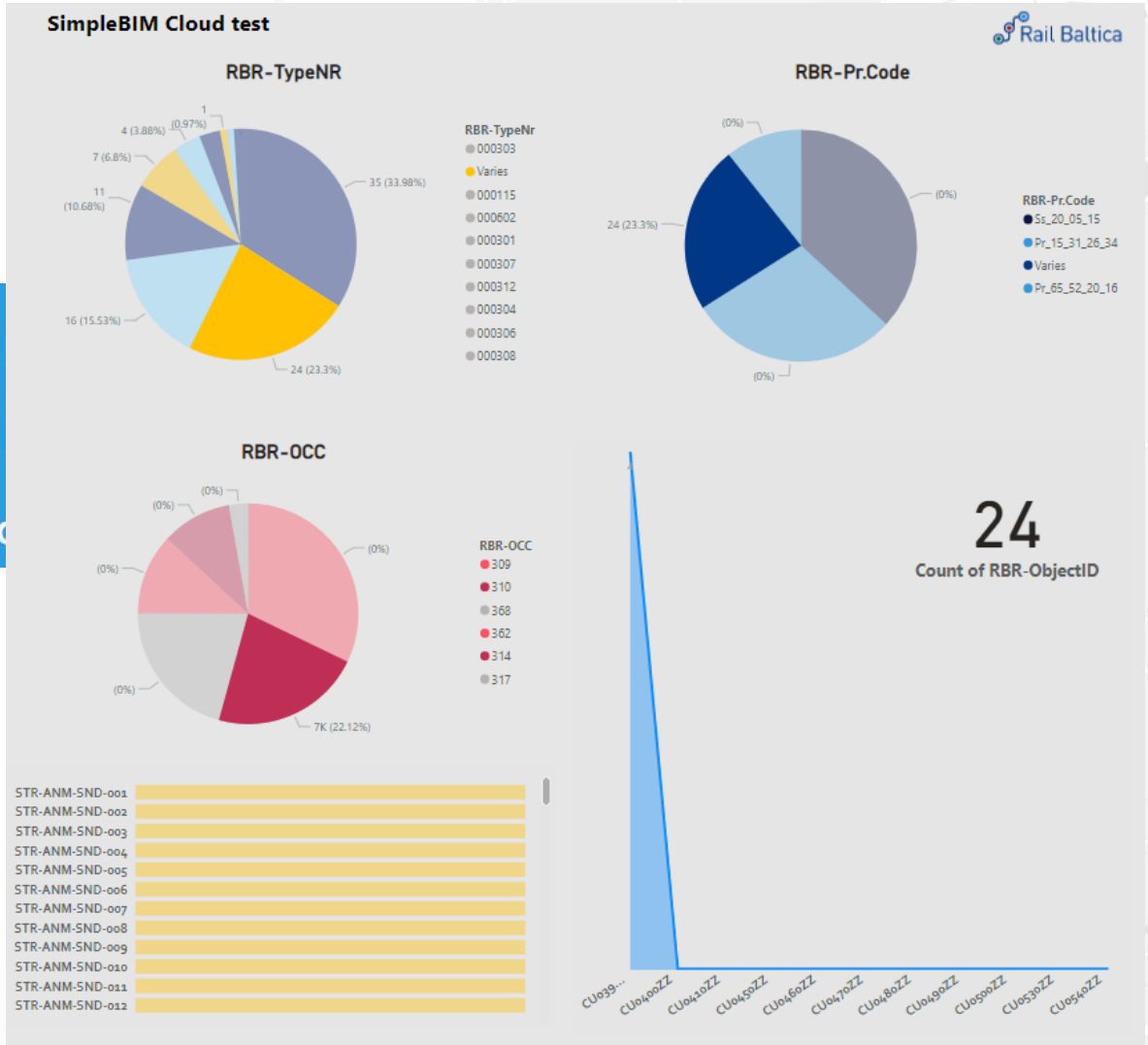
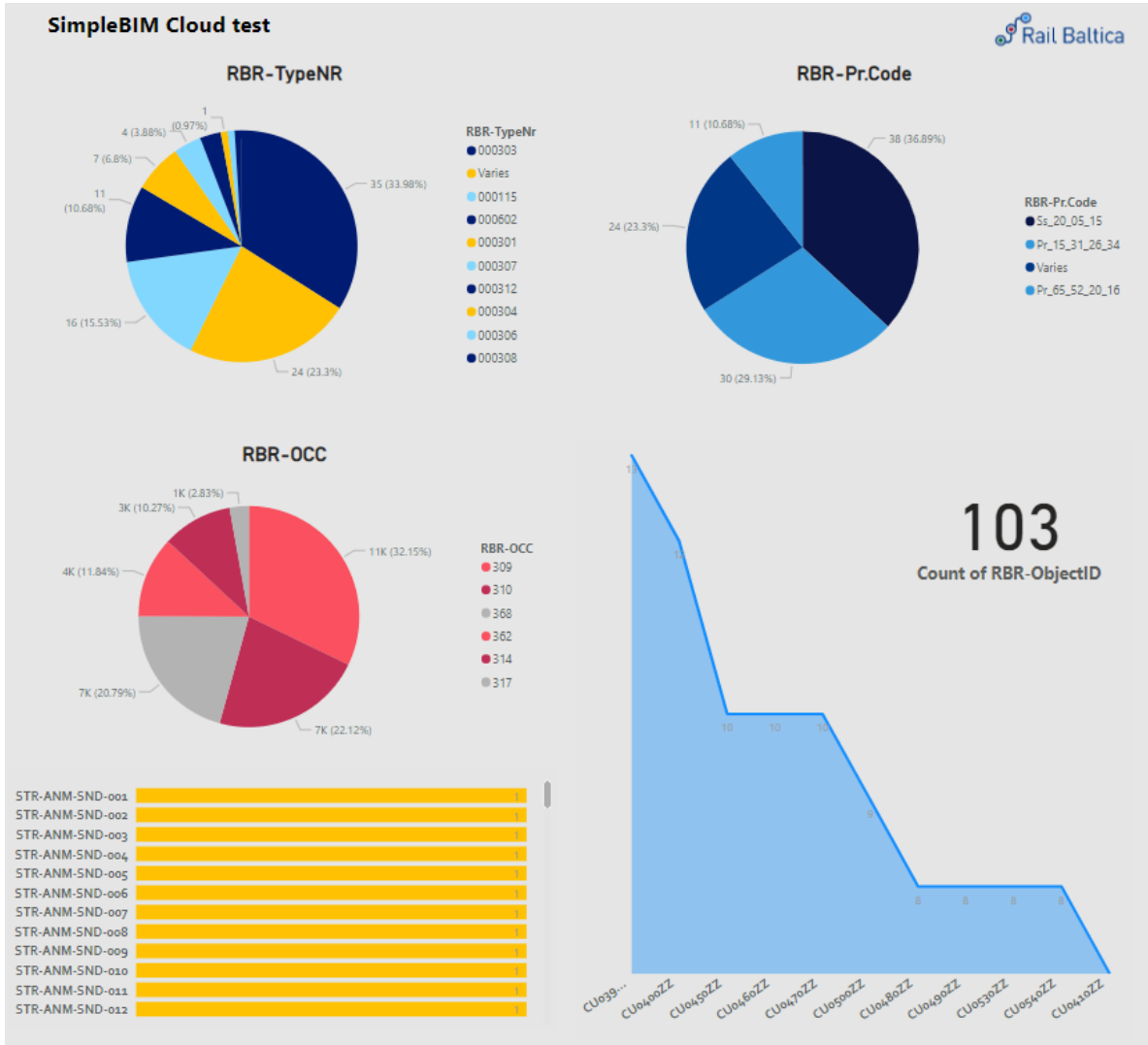
QEXvsDD.ipynb
Code
[1]: import pandas as pd_
    
```

RBR-Object_ID	RBR-Concrete_Volume	RBR-Length	RBR-Steel_Mass	RBR-Volume	RBR-Area	RBR-Quantity	RBR-Number	RBR-Vol sys zone	Qty	Unit	Ok/Not
STR-DCK-001	2852.96	131.00 m	460934.18	Not in DD	Not in DD	0	0	BR0350ZZ	2852.96	m3	TRUE
STR-TRS-001	33.31	0	4587.91	Not in DD	Not in DD	0	0	BR0350ZZ	33.31	m3	TRUE
STR-TRS-002	33.55	0	4587.91	Not in DD	Not in DD	0	0	BR0350ZZ	33.55	m3	TRUE
STR-PTH-001	24.15	132.05 m	1252.92	Not in DD	Not in DD	0	0	BR0350ZZ	24.15	m3	TRUE
STR-PTH-003	24.14	132.05 m	1253.03	Not in DD	Not in DD	0	0	BR0350ZZ	24.14	m3	TRUE
STR-PTH-002	6.96	144.90 m	1666.41	Not in DD	Not in DD	0	0	BR0350ZZ	6.96	m3	TRUE
STR-PTH-004	6.92	144.15 m	1657.76	Not in DD	Not in DD	0	0	BR0350ZZ	6.92	m3	TRUE
STR-LEA-FND-022	12.52	0	0	Not in DD	Not in DD	0	0	BR0350ZZ	12.52	m3	TRUE
STR-LEA-FND-021	5.7	0	0	Not in DD	Not in DD	0	0	BR0350ZZ	5.7	m3	TRUE
STR-FND-018	189	0	14116.39	Not in DD	Not in DD	0	0	BR0350ZZ	189	m3	TRUE
STR-PIL-026	28.84	25.50 m	2131.57	Not in DD	Not in DD	0	1	BR0350ZZ	1	pc	TRUE
STR-PIL-027	28.84	25.50 m	2131.57	Not in DD	Not in DD	0	1	BR0350ZZ	1	pc	TRUE
STR-PIL-028	28.84	25.50 m	2131.57	Not in DD	Not in DD	0	1	BR0350ZZ	1	pc	TRUE
STR-PIL-029	28.84	25.50 m	2131.57	Not in DD	Not in DD	0	1	BR0350ZZ	1	pc	TRUE
STR-PIL-030	28.84	25.50 m	2131.57	Not in DD	Not in DD	0	1	BR0350ZZ	1	pc	TRUE
STR-RTW-005	41.65	0	4065.58	Not in DD	Not in DD	0	0	BR0350ZZ	41.65	m3	TRUE
DR-PIPE-STEEL-001	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-002	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-003	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-004	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-005	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-006	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-007	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE
DR-PIPE-STEEL-008	0	0	0	Not in DD	Not in DD	1	0	BR0350ZZ	0	0	FALSE



Spec Code	RBR-Occ	QUANTITIES		
		UNICLASS 2015 Product Code(Pr_Code)	Type number	Product Description
	N/A	Pr_35_31_68		Waterproofing on rail structures decks consists of all works and expenses necessary to achieve the specified end result, e.g. workforce, materials, equipment and transportation (incl. fuel, insurance, etc.). This item is meant for waterproofing systems applicable to bridges, viaducts and underpass structures on whose deck the ballast of the railway tracks is directly supported or has earth filling on top. In these structures, each system will consist of a membrane, formed by one or more layers of heat welded elastomer bitumen sheets, adhered to the deck, on which a protection will be placed. This protection will be measured separately, including sealing with epoxy at the edges of the membrane in the deck.
			000302	
	N/A	Pr_35_31_68		Waterproofing asphalt protection course consists of all works and expenses necessary to achieve the specified end result, e.g. workforce, materials, equipment and transportation (incl. fuel, insurance, etc.). This item is meant for supply and placement of a 3.00 cm thick asphalt layer protect the waterproofing system. It includes all the materials and work necessary for its completion
			000308	

# On-going Projects: SimpleBIM Cloud



# Automation possibilities



**Dmitri Garbuzenko • 1st**  
 BIM and AIM Coordinator at RB Rail AS | Rail Baltica  
 2w • 🌐

What if you could analyze your BIM deliverables without even opening your laptop? With Power Automate, Teams, Python (ifcOpenShell + Pandas), and PowerBI, you can create a rapid flow to see BIM data and assess model quality—all from your PHONE.



With just a few taps, you'll gain valuable insights that can help you make better, actually data-driven decisions and optimize your workflows before you go to good-old "model rotation".

#bim #python #pandas #data #buildinginformationmodeling #powerautomate #micorsoft #datanalytics #dataanalysis #rpa #powerbi

Hey Dmitri! New BIM deliverable in working folder!

I can run any flow that's:  
 - triggered on a schedule  
 - manually triggered with no inputs  
 For the default environment, I can run:  
 1: Monday Emails to CTO regarding ControlCenter  
 2: Block out my calendar for an hour  
 3: IfcOpenShell to PowerBI flow  
 4: Weekly team trigger

Done! Your run for Flow IfcOpenShell to PowerBI flow has been started.

Power Automate Available

Power BI

BIM Deliverable Data Analytics

Number of elements: 163  
 Type number: 000108  
 OCC code: 1090

5 comments • 3 reposts



**Dmitri Garbuzenko • 1st**  
 BIM and AIM Coordinator at RB Rail AS | Rail Baltica  
 3d • 🌐

Thanks to chatGPT we can now make things that were too hard for BIM coordinators with no previous programming experience. I was struggling with IfcOpenShell more than a year to get IFC data to Pandas Dataframe.

But now, after 30-40 prompts in chatGPT - problem solved. Skript ready without any procurement of any new software(!)

By dragging to PowerBI all needed sources: IFC data (Dataframe to csv) and all other EIR specified tables (OCC codes table, PrCode table, PayItem tables, QEXvsModelData table, etc) and creating connections between them - any BIM coordinator can get much better understanding what is hidden under geometry and finally focus on that "I" letter in BIM. Finally

#bim #powerbi #data #pandas #chatgpt #bimcoordination

BIM Deliverable Data Analytics

Model elements data

OCC data (ver 5)

QEX vs Model quantities

Number of IFC files found: 12  
 data was successfully exported from IFC files to datadrop file  
 QEX and IFC data comparison file was created  
 Time taken: 24,15232775952 seconds

Artis Kurps and 123 others

1 comment • 2 reposts

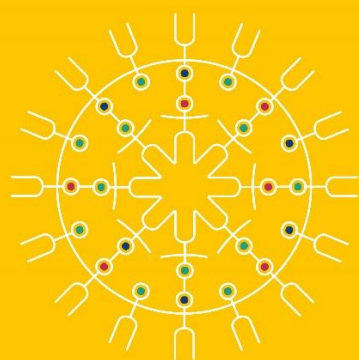


**OUR VISION**

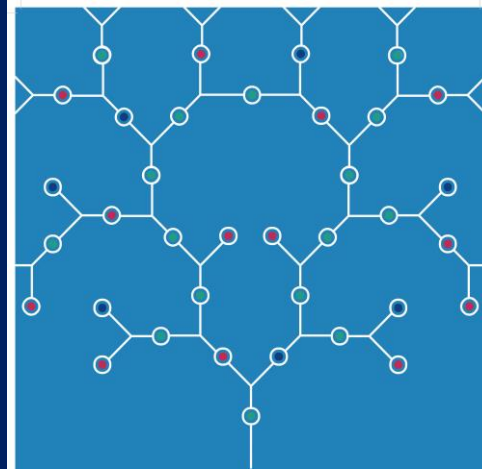
**Connected Baltics in a  
connected Europe**

**OUR MISSION**

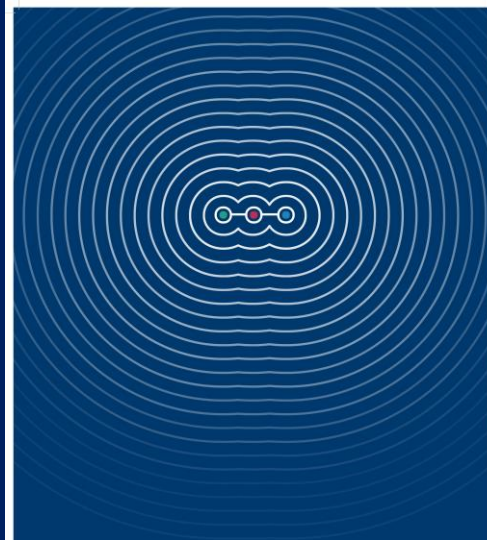
**We are delivering a seamless mobility for  
people, goods and services to accelerate  
social and economic development in the  
Baltics and beyond**



**WE VALUE PEOPLE**



**WE VALUE PROFESSIONALISM**



**WE VALUE PURPOSE**

**Thank you!**