# **Room Tracking**

## Tracking from Excel's program requirements:

If we were provided with an excel file containing list of rooms required and the program tracking needs to start from this point (before it has been modelled in revit).

#### Step 1:

Assuming the Excel requirements list looks like the picture below, where the list contains the Room names, Qty required and unit area required at the least. If we want to track the reason for change then a comments column in is recommended along with department name for better categorization and ease of filtering.

Room Code	Room Name	Qty Req'd.	Unit Area Req'd.	Const Phase	Const Type	Comments	Department	Functional Area:
EXAU1	Exam / Consult, Audiology	2	120	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
EXVE1	Vestibulography and Biosway Room - combine with OPAE2 for dual use	1	180	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
HAFR1	Hearing Aid Fitting Room	2	120	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
HATL1	HEARING AID TESTING LAB/SHOP	1	190	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
OFA01	OFFICE, Supv	1	120	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
OPAE2	Electrophysiology Room	1	0	1	0	Combined with OPAE2	OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
PEHS4	Exam, Audiometric Booth	5	260	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
RECP1	Reception	1	100	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
SRSE1	Storage, Equipment	1	150	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC
TPG01	Toilet, Audiology Patient (delete if a pt toilet is nearby in design)	1	60	1	0		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC

### Step 2:

Use the highlighted tool in excel (custom tool that PT created) to instantize the rooms (rows based on the qty required column and assign Room Unique IDs or RUID to each row by just selecting and dragging the marker down in Excel which will autofill the next number in the series.

	AutoSave		·& ~ <sup>C□</sup> →	Protot	ype Steps & Template.xl:	sx - Excel	∠ Search	
F	ile F	Home Insert Draw	Page Layout Formula:	5 Data	Review View	RvtRoomTrack Help	BLUEBEAM	
	۲							
Ro	wDupIBy	ColQty						
	RoomG	rp						
H.	23	* : × ✓ j	Sec .					
4	Α	В	С	D	E	F	G	Н
1	Room	Room Name	Qty Reg'd.	Unit Area	Comments	Department	Functional Area:	Room UID
_	Code EXAU1	Exam / Consult, Audiology	2	Reg'd. 120		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0000
	EXAU1	Exam / Consult, Audiology	2	120		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0001
,	EXAUL	Vestibulography and Biosway		120		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGI CLINIC	0001
	EXVE1	Room - combine with OPAE2	1	180				
4		for dual use				OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0002
		l	_					
	HAFR1	Hearing Aid Fitting Room	2	120				0000
5	HAFRA	Hearing Aid Fitting Room	2	120		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0003
5	HAFR1	HEARING AID TESTING	2			OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0004
7	HATL1	LAB/SHOP	1	190		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0005
3	OFA01	OFFICE, Supv	1	120		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0006
9	OPAE2	Electrophysiology Room	1	0	Combined with OPAE2	OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0007
						·		7
0	PEHS4	Exam, Audiometric Booth	5	260		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0008
	PEHS4	Exam, Audiometric Booth	5	260		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0008
	PEHS4	Exam, Audiometric Booth	5	260		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0009
	PEHS4	Exam, Audiometric Booth	5	260		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0010
	PEHS4	Exam, Audiometric Booth  Exam, Audiometric Booth	5	260		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0011
	RECP1		3	100		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0012
_	SRSE1	Reception 1 Storage, Equipment 1		150		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0013
0		Toilet, Audiology Patient	· · · · · · · · · · · · · · · · · · ·			OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0014
	TPG01	(delete if a pt toilet is nearby in	1	60		OUTPATIENT / PACT CLINIC	1 - AUDIOLOGY CLINIC	0015

Step 3:

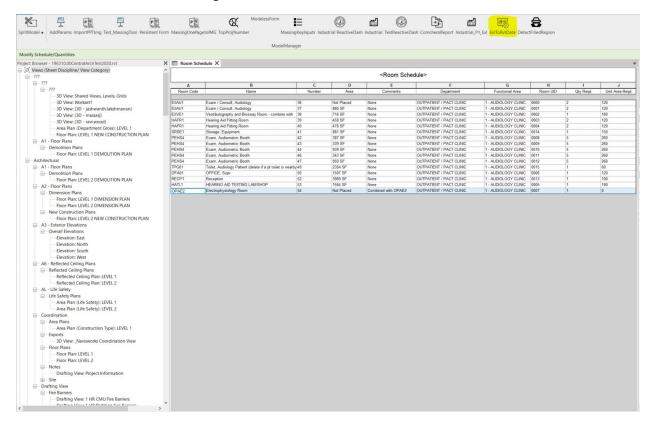
Once the project is modelled in Revit and the rooms have been placed, we would need a room schedule with the following fields :

	<room schedule=""></room>										
Α	В	С	D	E	F	G	Н	I	J		
Room Code	Name	Number	Area	Comments	Department	Functional Area	Room UID	Qty Reqd	Unit Area Reqd		
	Exam / Consult, Audiology	36	Not Placed				0000	0	0		
	Exam / Consult, Audiology	37	880 SF				0001	0	0		
	Vestibulography and Biosway Room - combine with OPAE2 fo	38	716 SF				0002	0	0		
	Hearing Aid Fitting Room	39	458 SF				0003	0	0		
	Hearing Aid Fitting Room	40	476 SF				0004	0	0		
	Storage, Equipment	41	881 SF				0014	0	0		
	Exam, Audiometric Booth	42	387 SF				0008	0	0		
	Exam, Audiometric Booth	43	339 SF				0009	0	0		
	Exam, Audiometric Booth	44	939 SF				0010	0	0		
	Exam, Audiometric Booth	46	343 SF				0011	0	0		
	Exam, Audiometric Booth	47	950 SF				0012	0	0		
	Toilet, Audiology Patient (delete if a pt toilet is nearby in desig	49	2354 SF				0015	0	0		
	OFFICE, Supv	50	1507 SF				0006	0	0		
	Reception	52	3969 SF		<u> </u>		0013	0	0		
	HEARING AID TESTING LAB/SHOP	53	1564 SF		<u> </u>		0005	0	0		
		54	Not Placed				0007	0	0		

At which point the user will have to manually match each row/room to its respective RUID to bring in the information from excel using our tool.

Step 4:

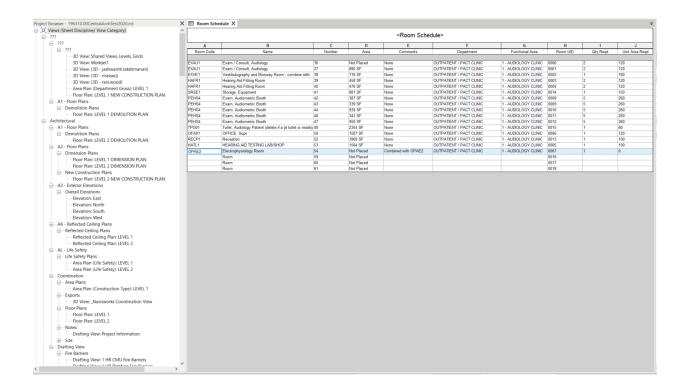
Use the data transfer tool to bring in all the relevant information for each of the rooms into revit



Once all this information is in Revit, our custom hooks that come as a part of the GS General tools automatically collect all the room information and stores it in a sql server database when you close the file. Which is then queried and visualized using power BI where we use sliders and filters to consume this data.

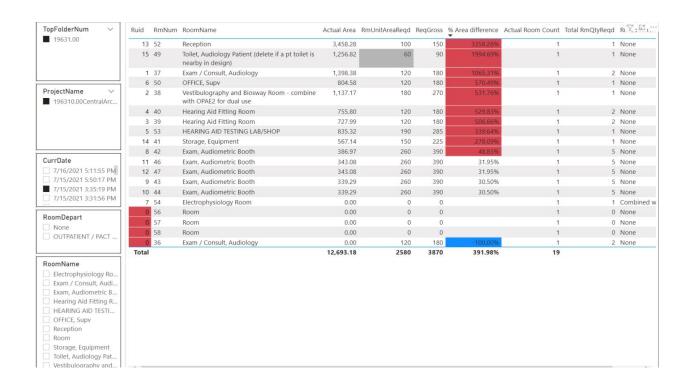
#### Step 5:

When new rooms are added an RUID is automatically assigned after each sync. That is why we do not want to delete any rows/rooms from the project. We could potentially assign RUIDs which are not unique and we'd stop tracking those rooms since its RUID no longer exists.



Step 6 :

Open Power BI filter through the projects and dates



#### Compare between two different dates:



#### Or look at a linear chart as the room area changes through dates with its comments in a running table

