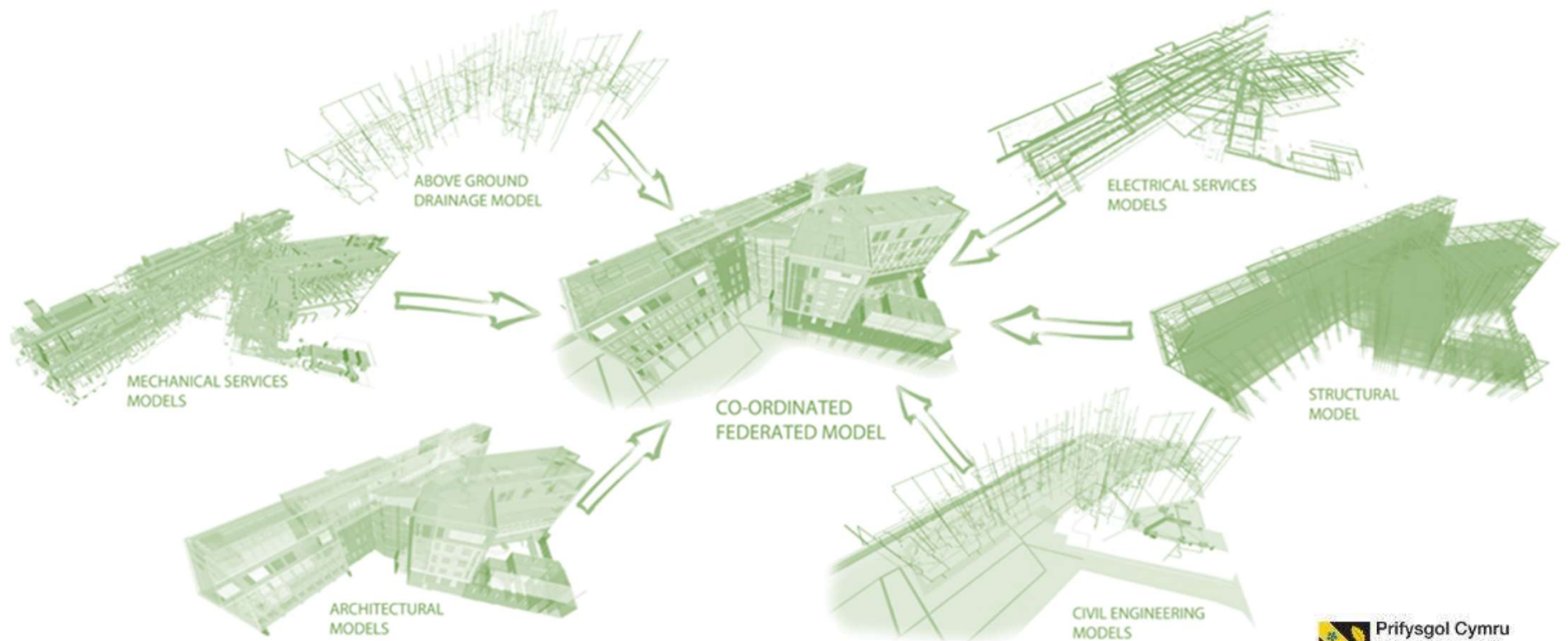


Building Information Modelling



www.onecreativeenvironment.com

Non Standard Modelling

Families, Sweeps & Reveals
In Place Mass

Exercise 5

PHASING:

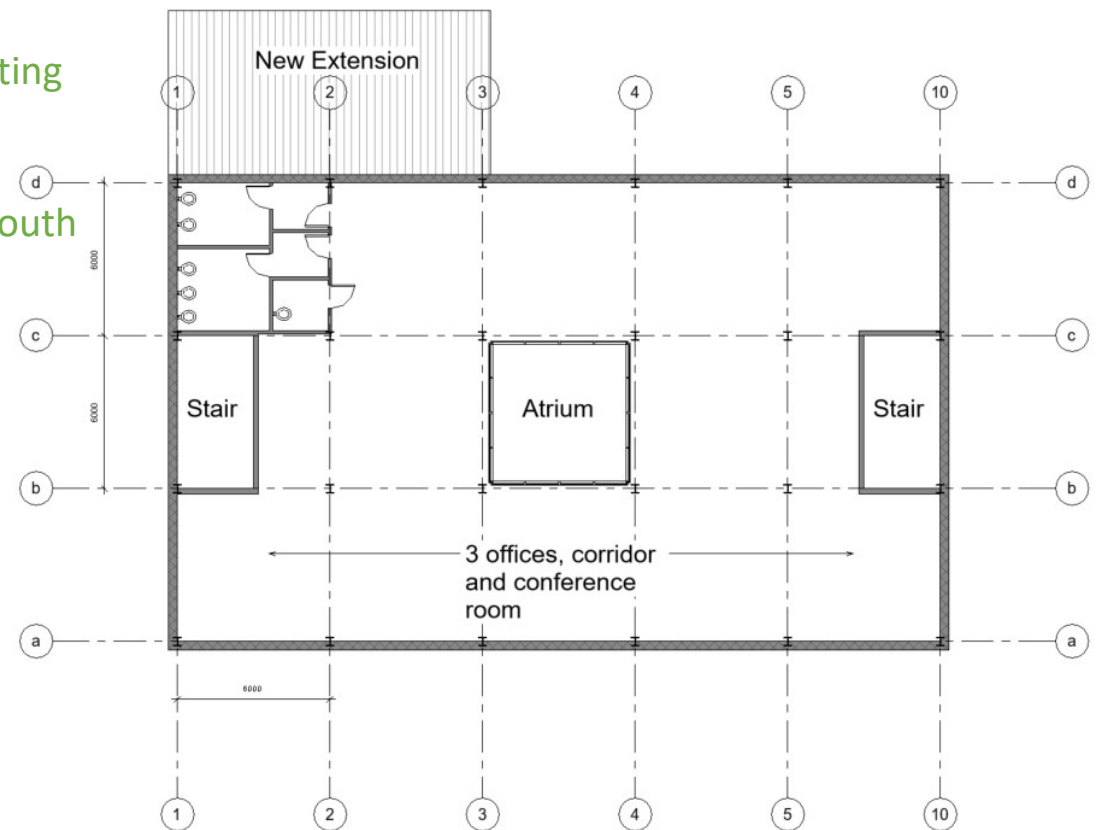
2 storey Office block refurbishment and extension.
Remove existing WC from ground and first floor to creating work open plans office space. New WCs and Kitchen /breakout facilities on both floors of the extension.
3 new offices access corridor and conference room to south elevation with conference room.

Set up your levels in Elevation view.
Distance between levels of 3500mm

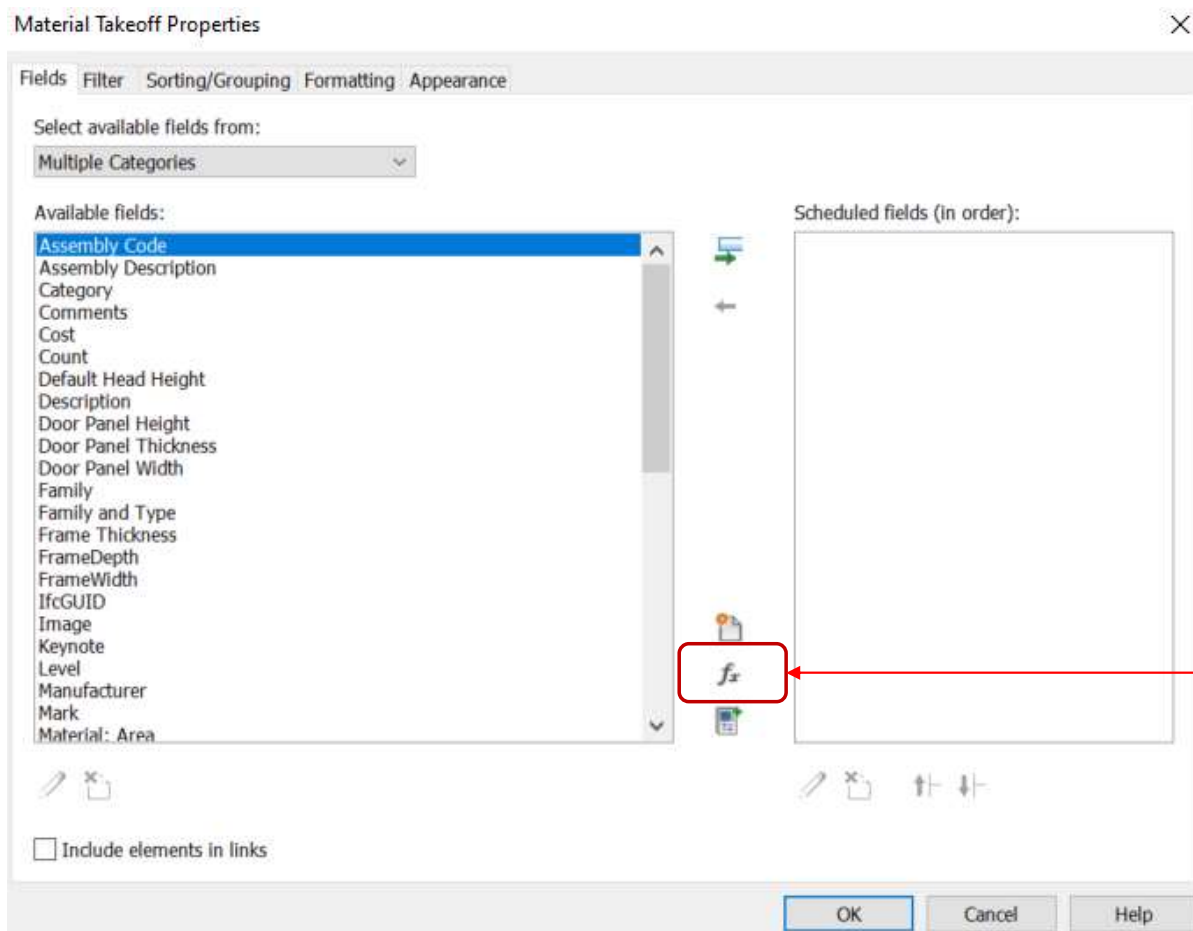
Set up Phasing (existing proposed and works plans)
Set up Grids

Assumptions:

External walls your choice.
Flat roof. External Windows distributed evenly per bay.
Framed structure with columns at 6m centres
Staircase at either end with central glazed atrium.
Apply, room names, legends, grids. create plans, section and elevation views. 3D views existing and proposed



‘Multi Category Material Takeoff’ Schedules can be produced.
Cost of materials can be applied and totals calculated.



Add fields and 'Fx' calculated formula

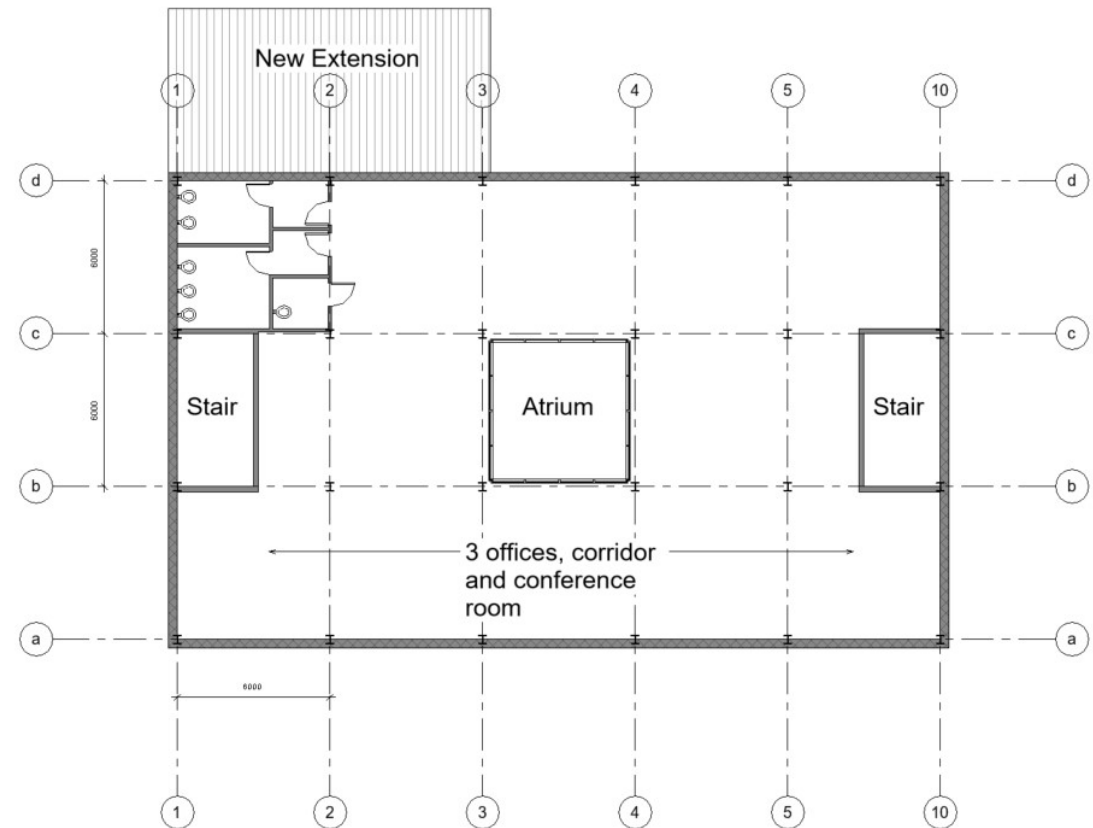
Material Area * Material Cost/1m²

Or

Material Volume * Material Cost/1m³

Exercise 5 cont...

- ADD SHEETS
- ADD GROUPS
- ADD A DOOR SCHEDULE
- ADD A MULTI CATEGORY SCHEDULE



Week 14:

- Collaboration and Revit Link Files
- Revit Basics + 'Formatting'





Collaboration



revizto™

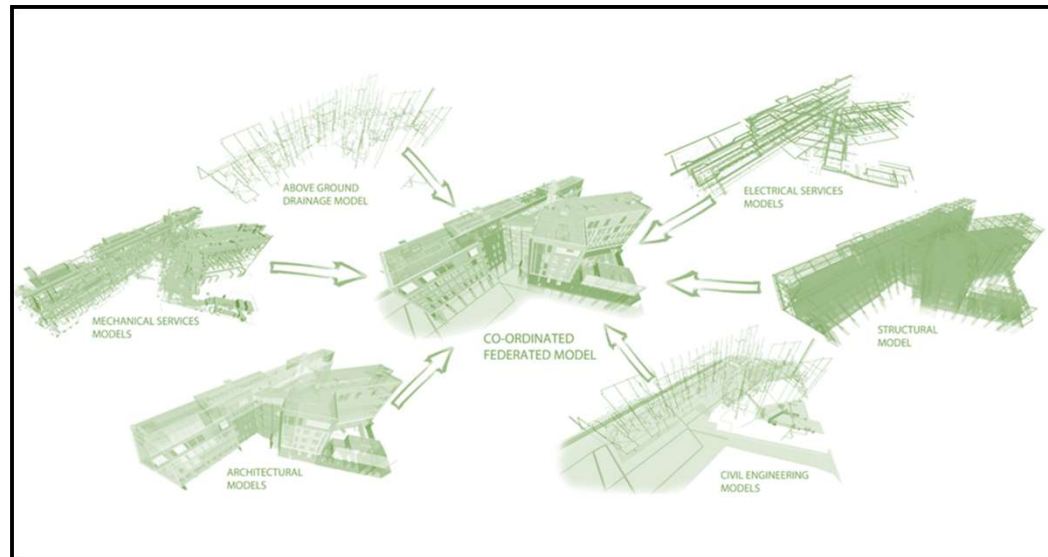


36-CENTRAL
FILES

Collaboration

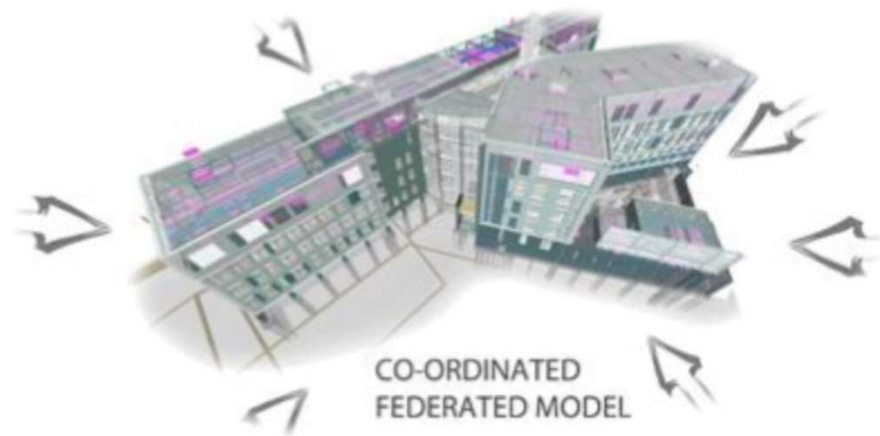


41-WORKSETS



Revit Link Files and Shared Coordinates

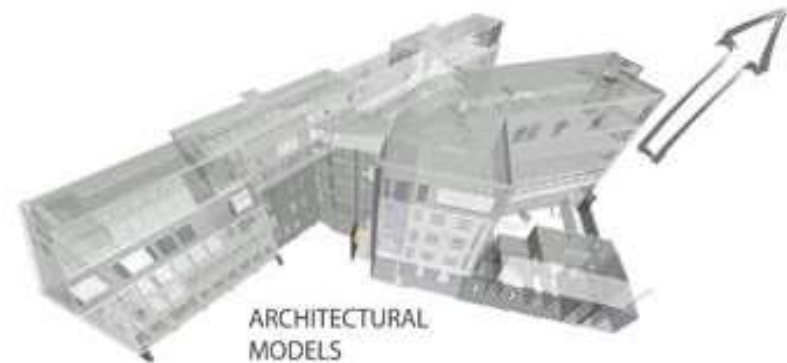
Tools such as Revizto enable a collaborative process using
2D and 3D Modelling with Intelligent Data



<https://revizto.com/en/>
<https://youtu.be/OnG3-0NqLr4>

How can we create data rich intelligent models?

Tools such as Revit enable intelligent 3D Modelling that can be linked into a BIM Process.



Remember a Revit Model alone is not BIM

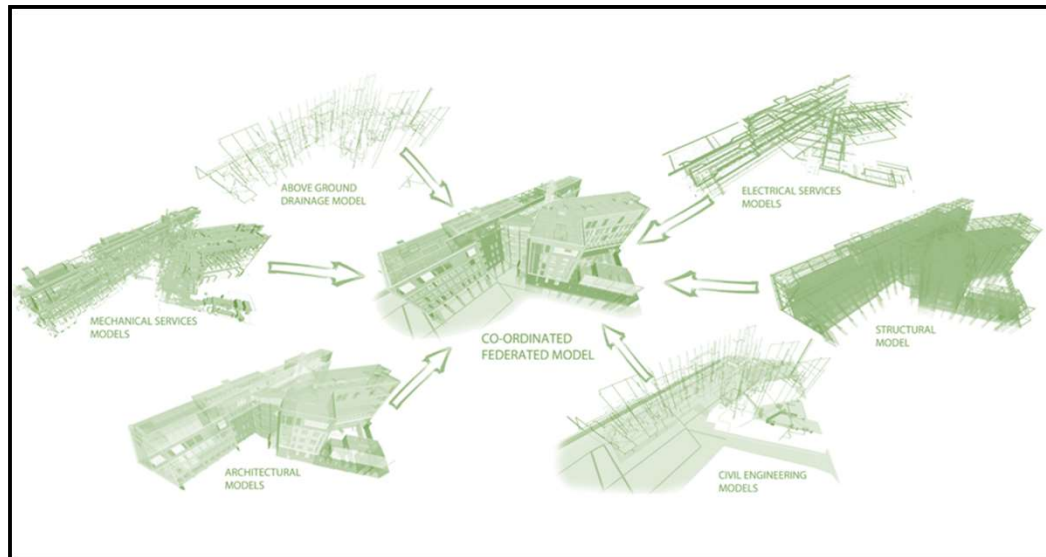


36-CENTRAL
FILES

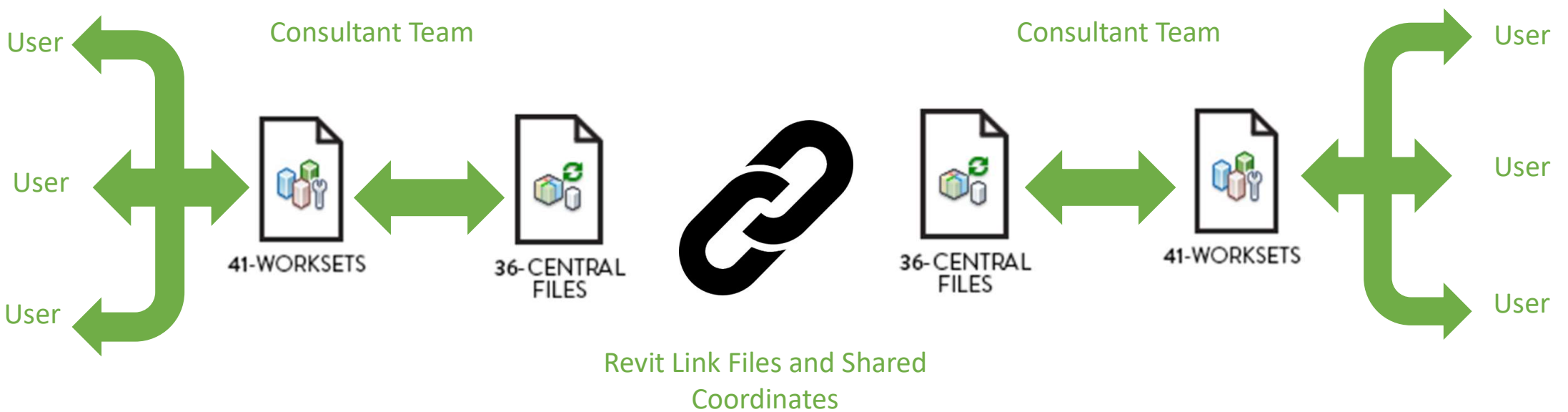
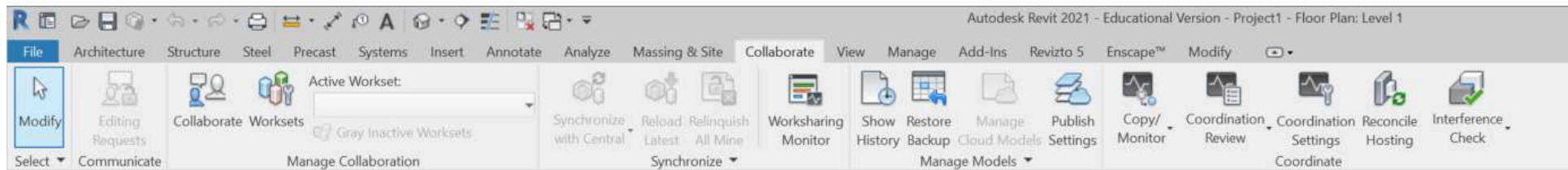
Collaboration

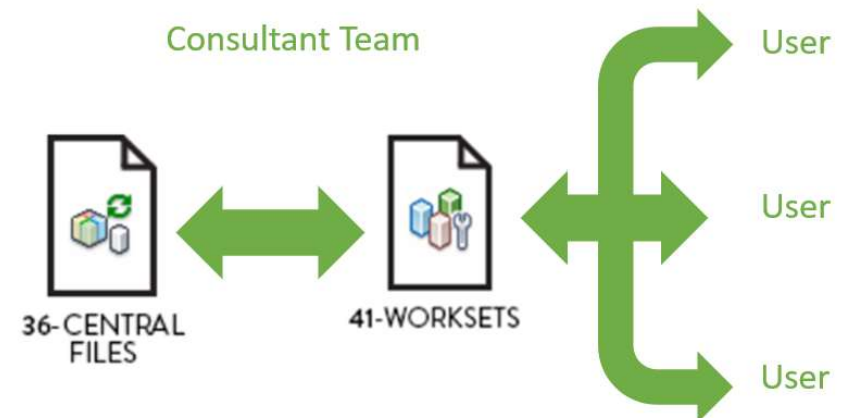
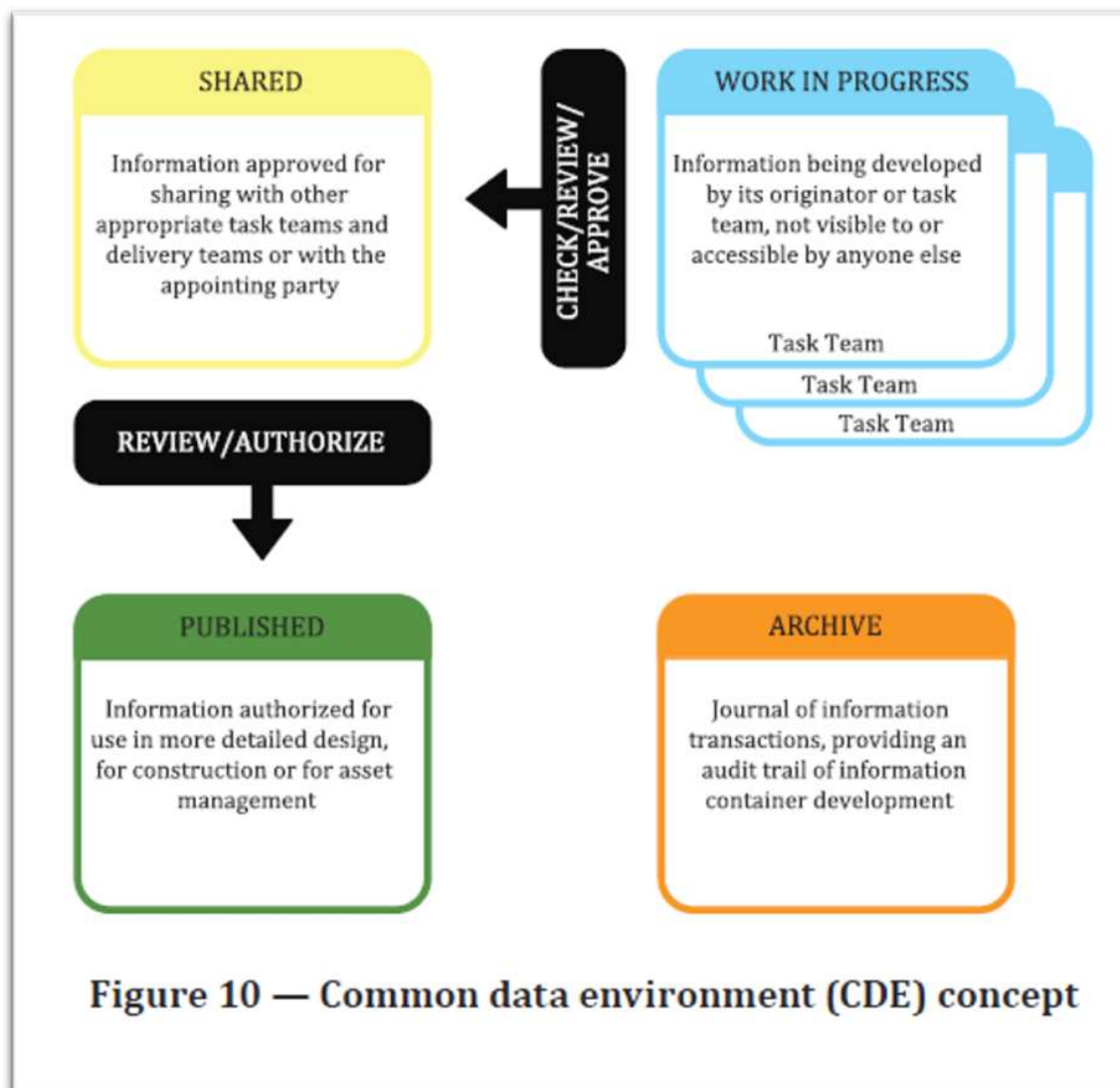


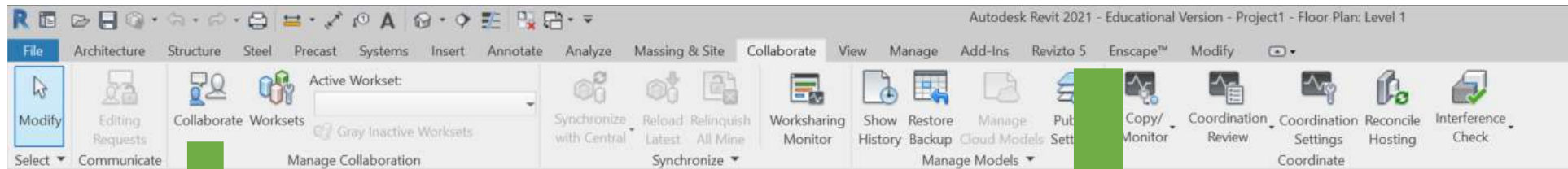
41-WORKSETS



Revit Link Files and Shared Coordinates





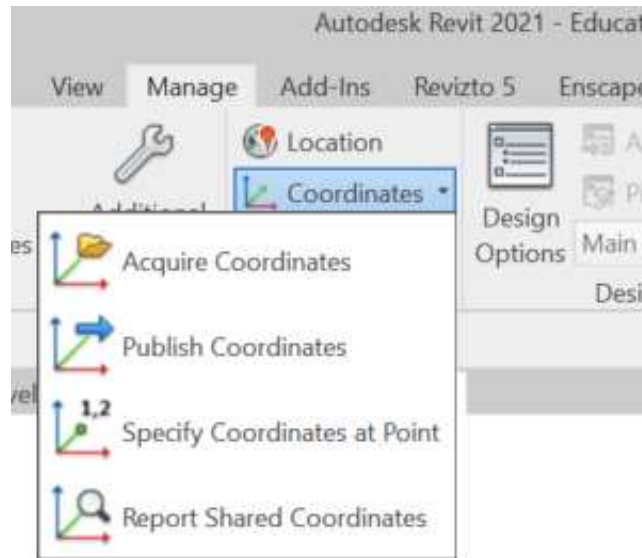


Creates a Central Model.
Server based (network)
Or
Cloud Based (BIM 360)

Plug Ins are also available
for 3rd party Collaborative
platforms. Such as Revizto



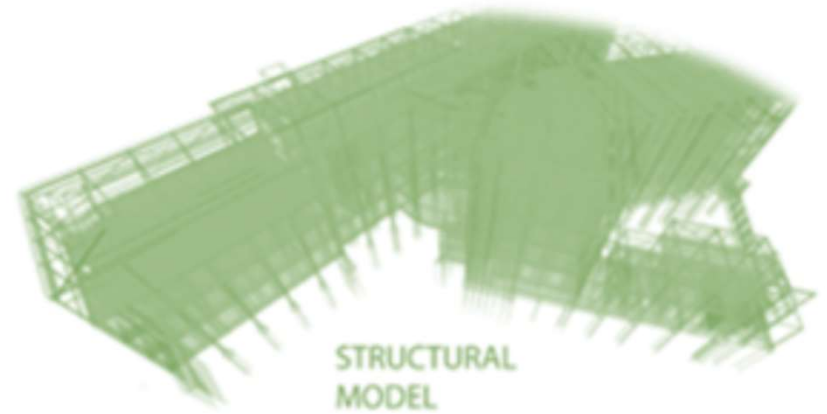
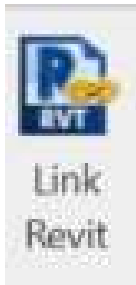
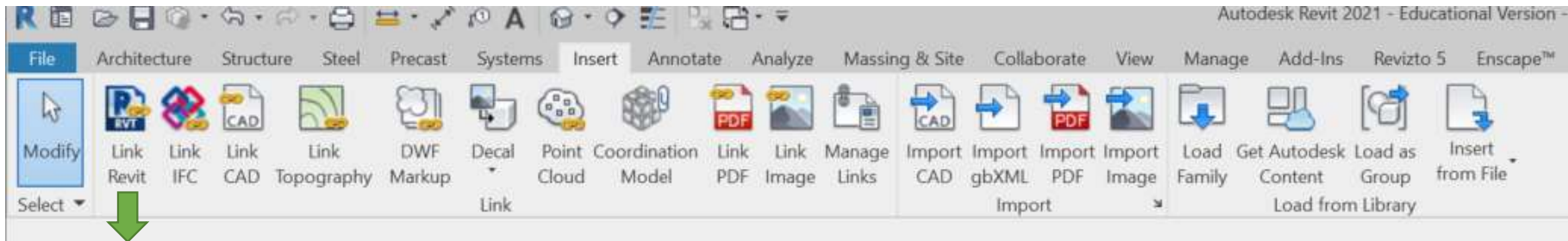
Revit Link Files and Shared Coordinates



It is important that coordinates are agreed at the outset of a Project. Revit Link files can share Coordinates



Agreed Coordinates can be specified in the BEP



Class exercise

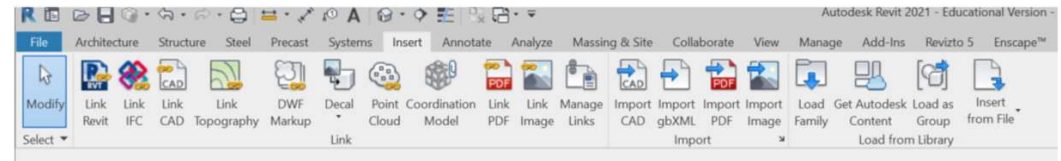
Start a New Project and use the 'Metric – Architectural Template'

- Draw a simple building with four walls a floor and roof.
- Save the Project – Arch WIP

Start a New Project and use the 'Metric – Structural Template'

- Link 'Arch WIP' to your model (internal origin to internal origin)
- Draw some columns and beams within the model
- Save the project - Structural WIP.

Open Project 'Arch WIP' and link 'Structural WIP' to the project. (internal origin to internal origin)



*The models are
now linked*