

A Brief Outline Of Progress So Far

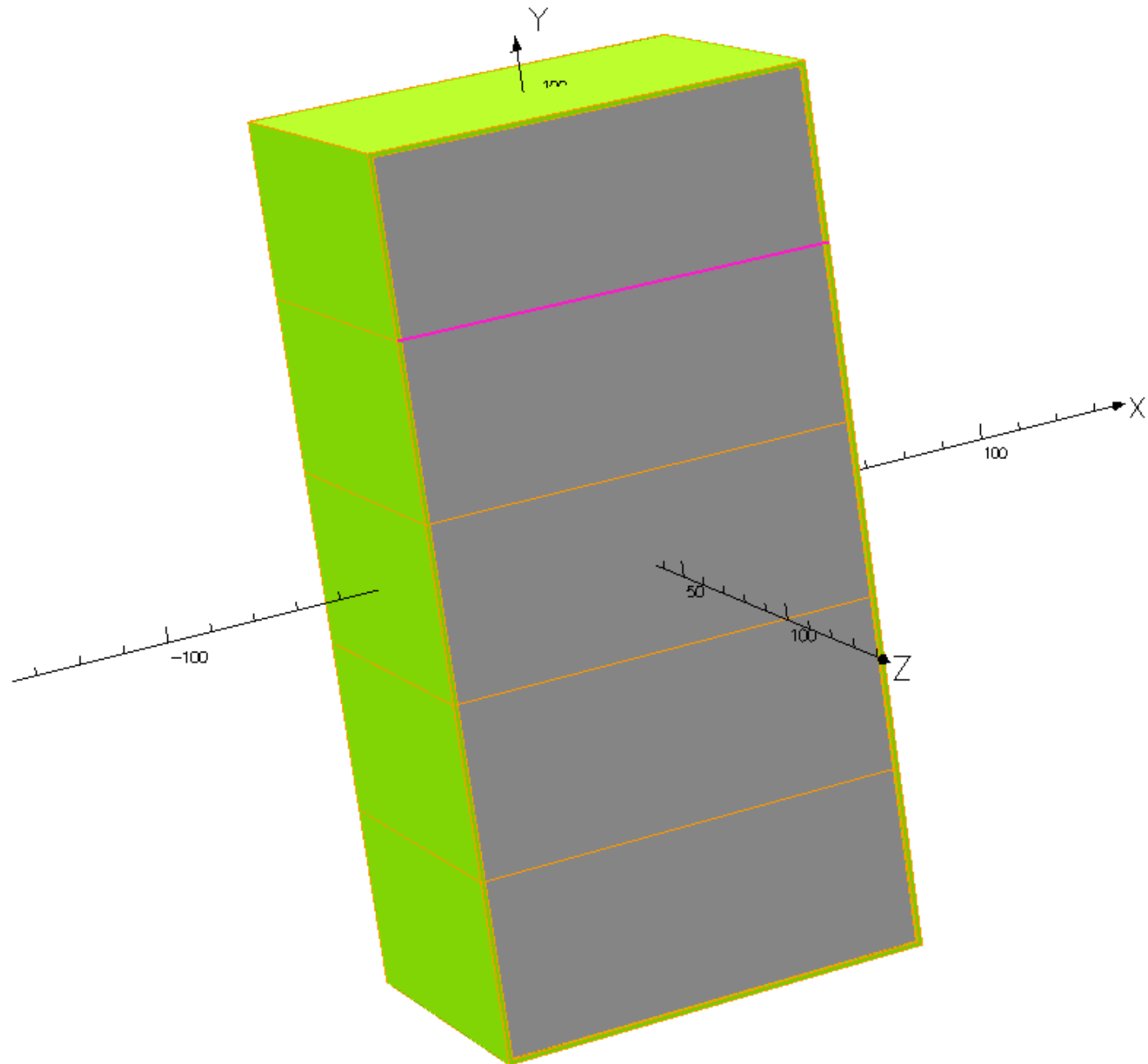
Melissa George

19/3/13

Summary

- Rack Model
- Compressor Model
 - Progress and plans
- R9 Model
 - Existing Models
 - Considerations
 - Future plans

Rack Model



Compressor Model

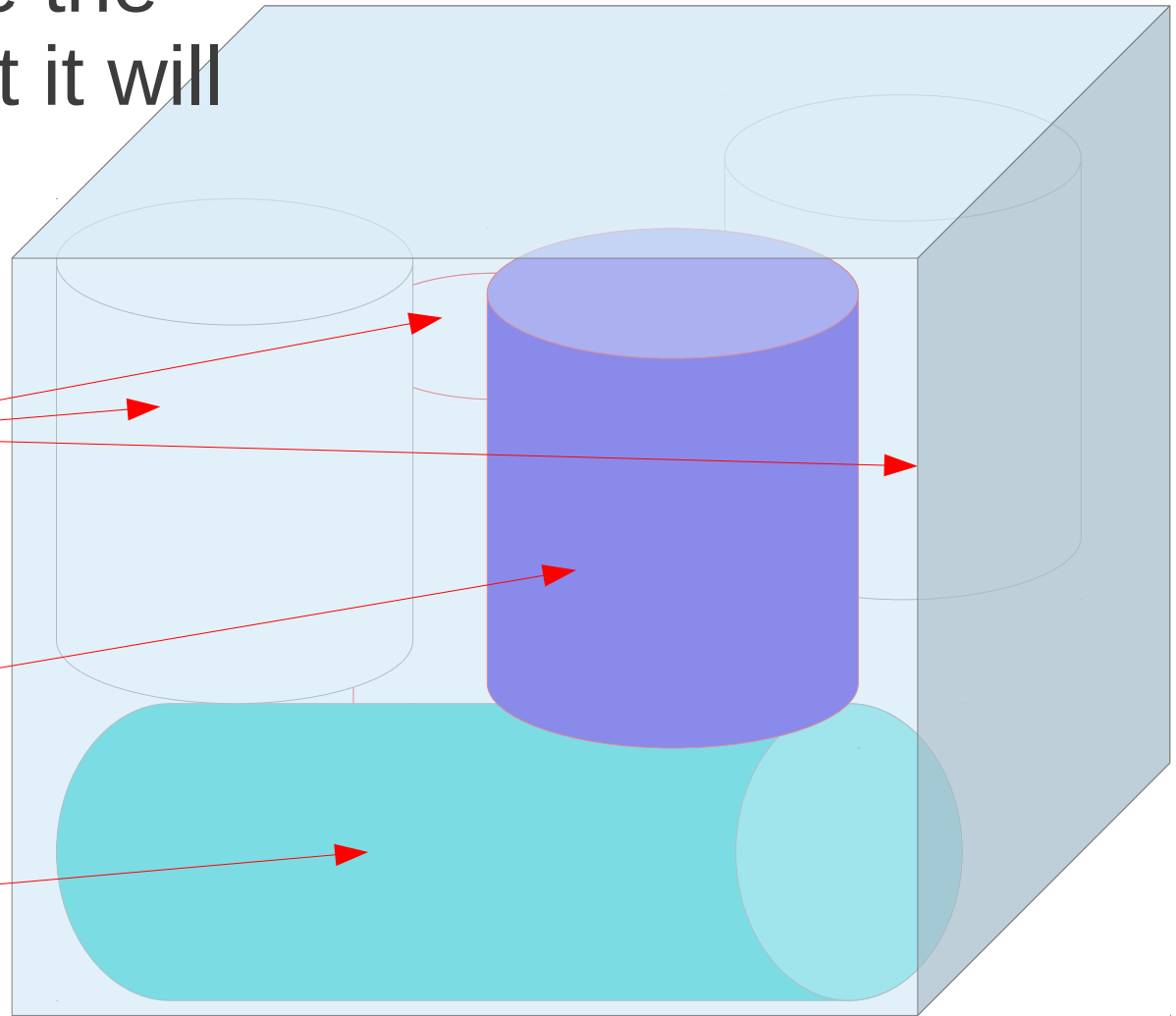
- At the moment it looks much like the rack modal, but it will look like this ->

Finer meshing will be used wherever you see a line in this design.

Air blocks, just for ease of understanding

Copper again for understanding

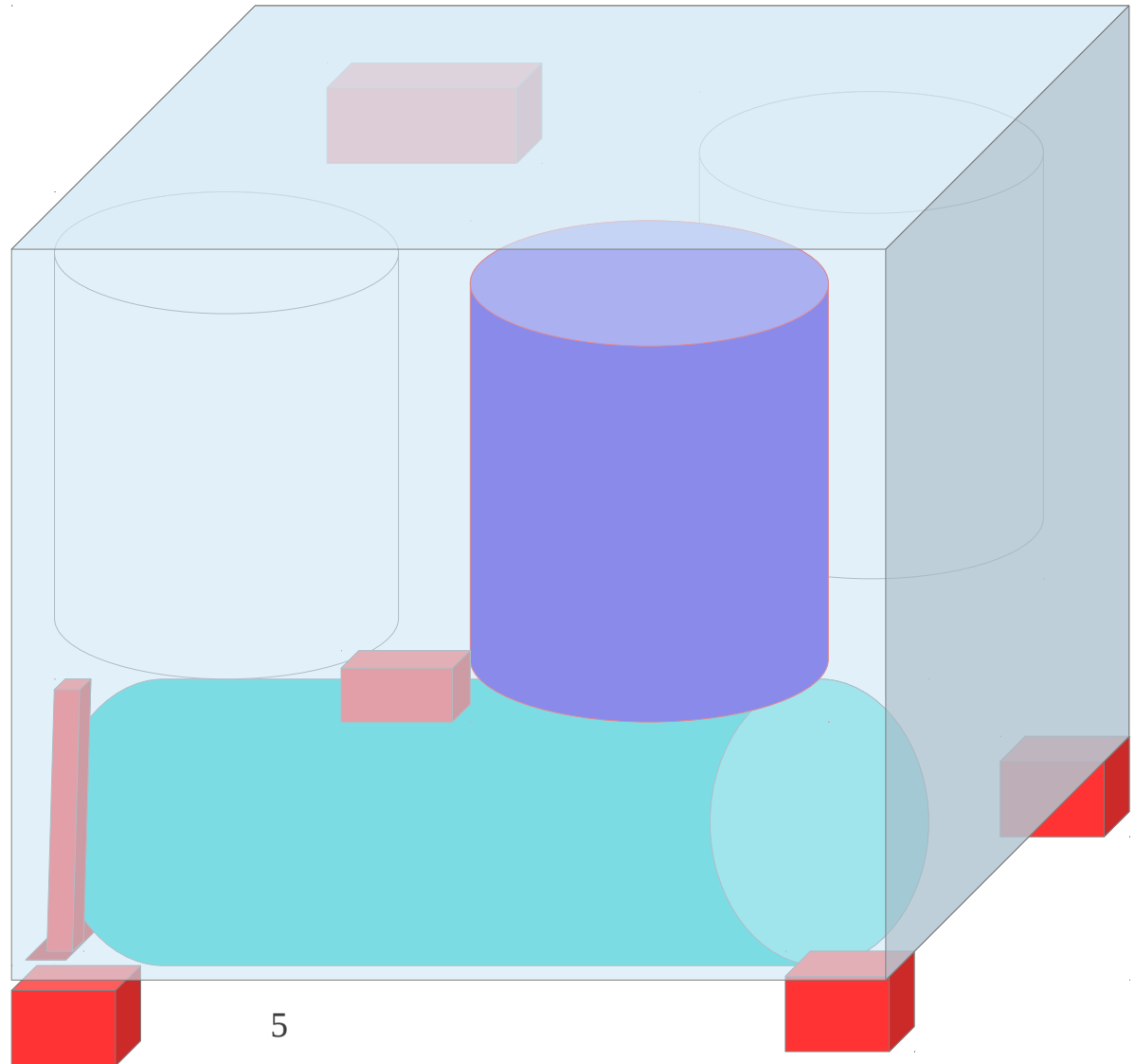
Mild Steel



Compressor Model

- There are some extra areas of mild steel that may or may not be modelled in a second round depending upon physics case.

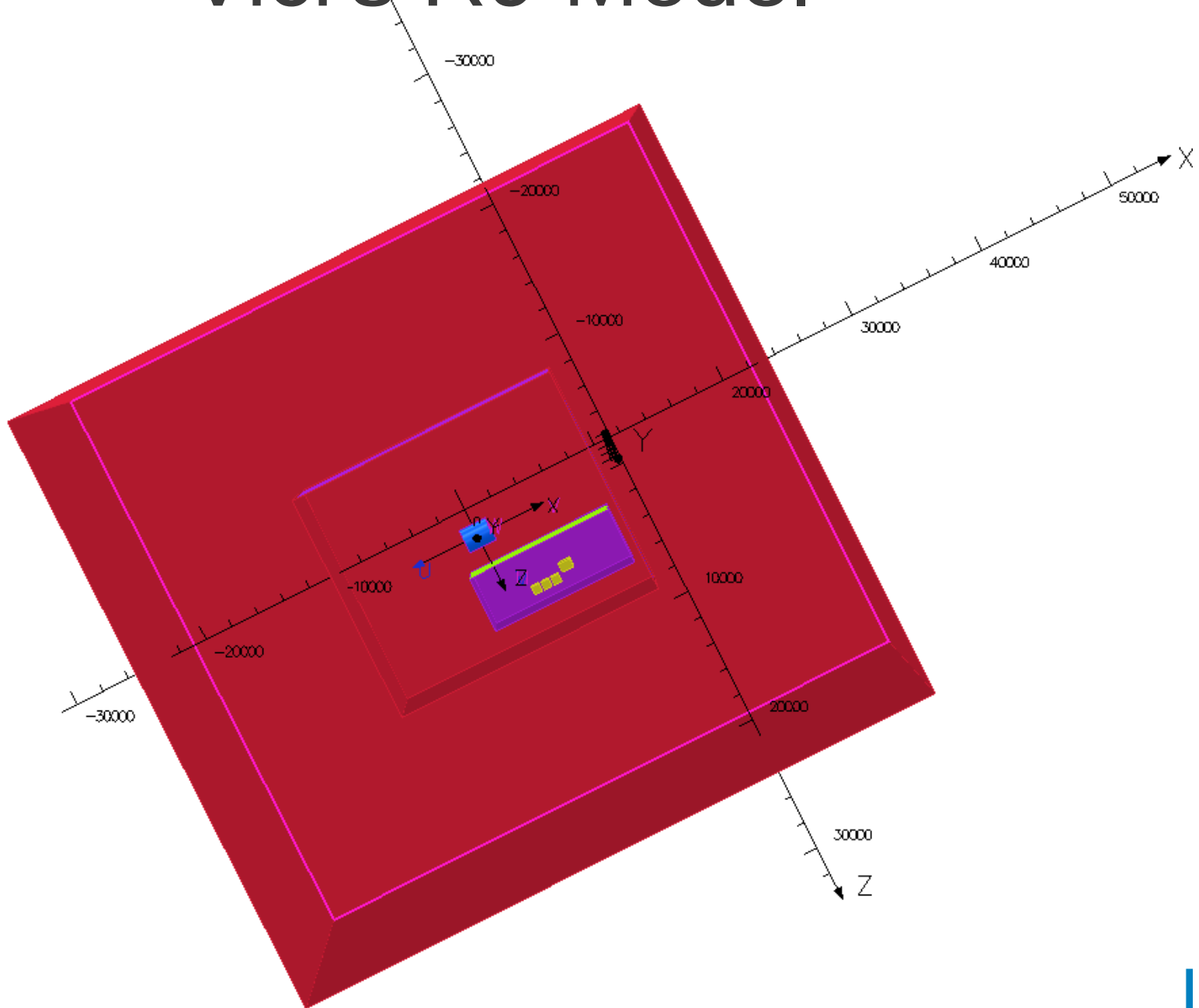
These areas are shown in red.



Vici's R9 Model

- Was made primarily to consider safety for people walking past and therefore does not cover the detail we need.
- Three simulations:
 - two walls and no rack or compressor
 - No walls no rack or compressor
 - two walls with rack or compressor
- Rack and compressors modelled as air filled steel cubes.
- Existing models take a long time to run already.

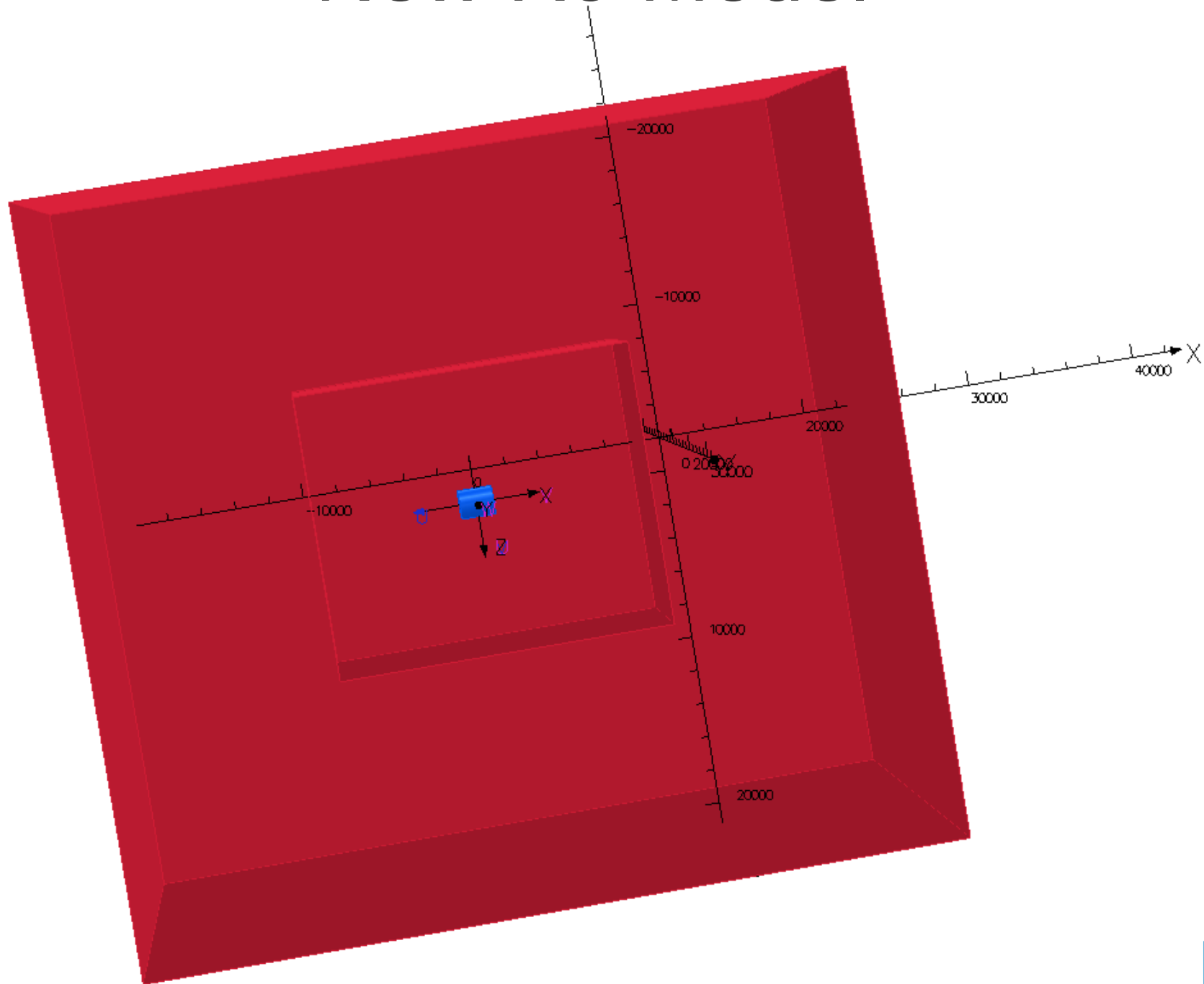
Vici's R9 Model



New R9 Model

- Uses Vici's AFC design as input to model
- Will include all walls
 - To what degree should the storage area be implemented?
Just uprights?
- Rack and Compressor designs are being developed separately and form inputs to the R9 model.
 - These rack and compressor models can therefore easily be transferred to sub-models for main hall model.
- Includes steel joists that run under the floor as mapped by Ian and Cilest.
- **Meshing is designed into model at start to improve run time and accuracy,** (but clearly takes longer in development).

New R9 Model



Some Friendly Questions

- Can anyone remind me how to print images from OPERA, I have definitely noted how to do it but cant find it...
- Does anyone know how to recover a .comi file from a .opc file that was previously saved?