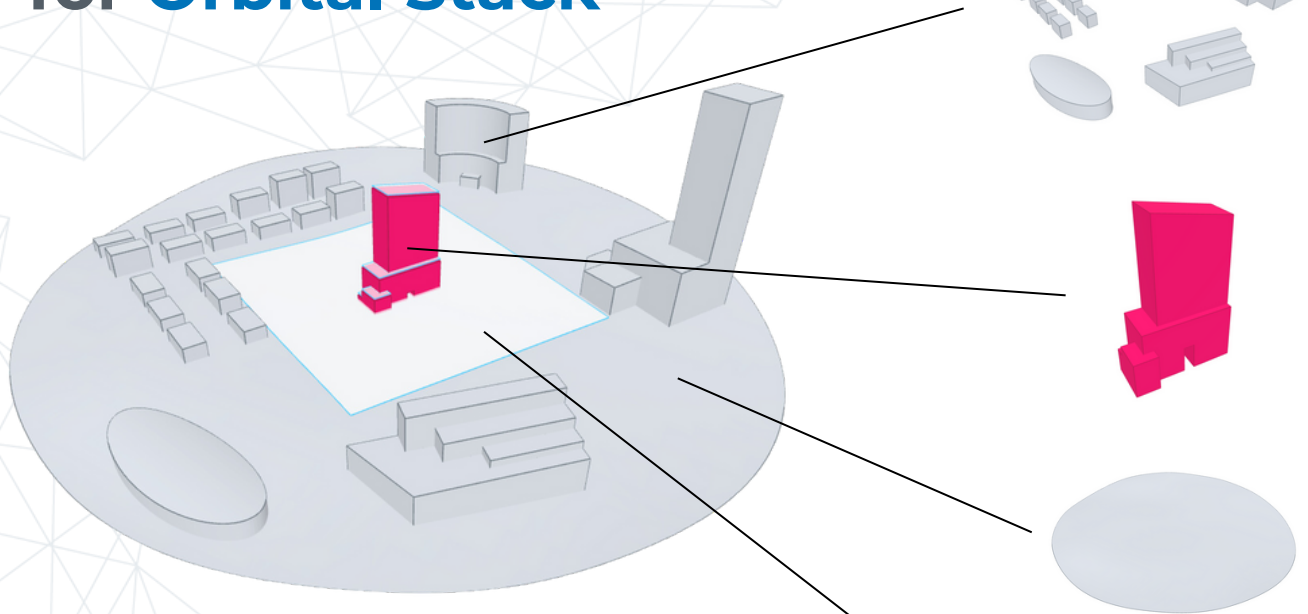


# Preparing Your Geometry for **Orbital Stack**



## Surrounding Buildings STL File

- Simple block massing only
- Only the buildings immediately around the study building are needed

## Study Building STL File

- Block massing, no surface detail
- Undercuts, colonnades, recesses, etc. at ground level can be included
- Avoid any features smaller than 1m
- No landscaping, furniture or other extraneous details

## Ground Surface STL File

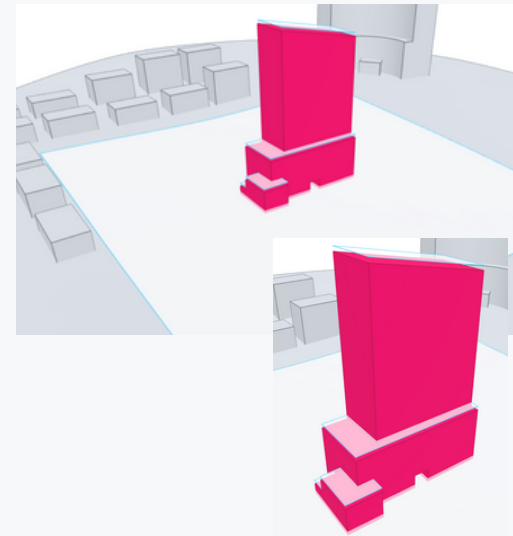
- Flat or minimal topography
- 300m radius

## Overall Requirements

- Scale must be 1:1
- Units: Metres
- y+ axis (in plan view) must be aligned to North
- Centered on the origin (0,0,0)
- No holes larger than 0.5m
- Buildings must fully intersect the ground surface
- The simpler the geometry the better

## Exporting Your Files

- Each of the four parts (ground surface, study building, surrounding buildings and presentation plane) must be exported as a separate .stl file
- Can be either ASCII or Binary format
- Each file must be no larger than 20MB



## Presentation Plane(s) STL Files

*These are the surfaces on which the wind simulation results will be displayed. At a minimum, this should include a 'ground' plane, but can also include planes for elevated amenity spaces such as a podium.*

- Raised 1.5m above the ground or podium/terrace of interest
- The ground presentation plane should extend about 100m out from the edge of the study building