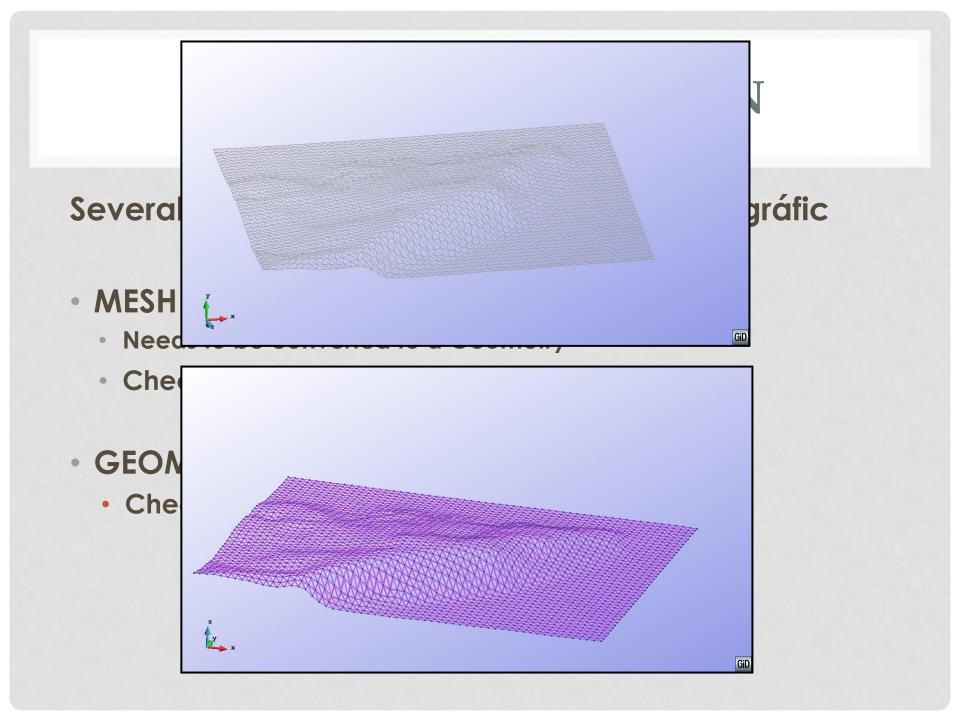
INTERFACE FOR CFD GROUND MODELS

ALBERT GANCEDO VILA

INDEX

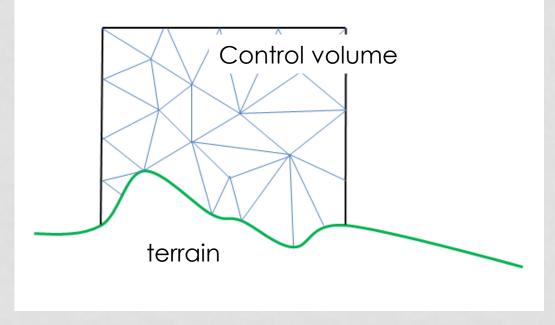
- IMPORTING A TERRAIN
- MESHES
- BODY FITTED MESH
- BODY FITTED CASES
- EMBEDDED MESH
- FURTHER STEPS



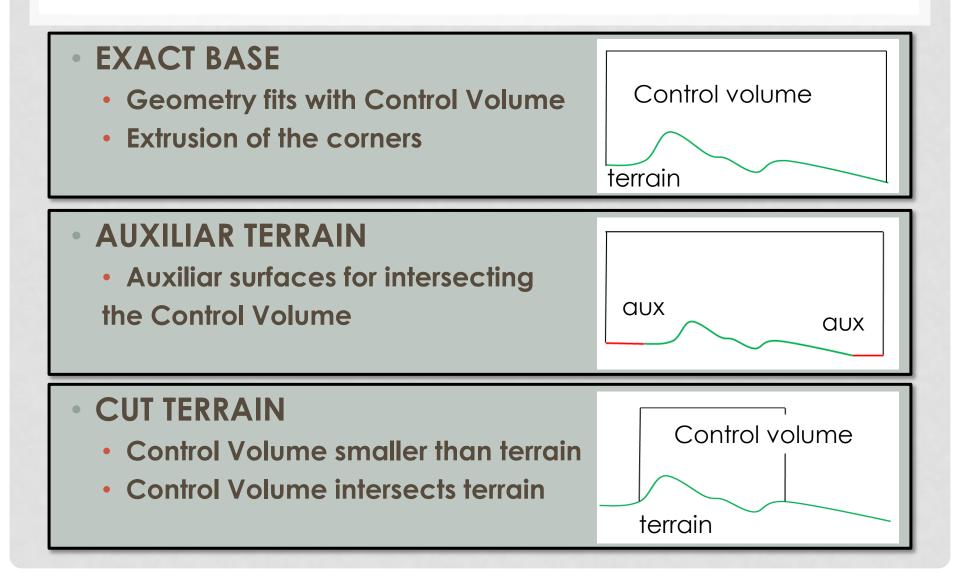
BODY FITTED MESH

BODY FITTED

- Terrain is well defined
- Control volume by the base and 5 sides of a parallelepiped
- All points belong to fluid (or boundary at least)

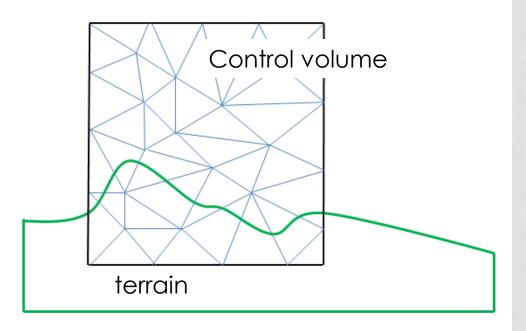


BODY FITTED CASES



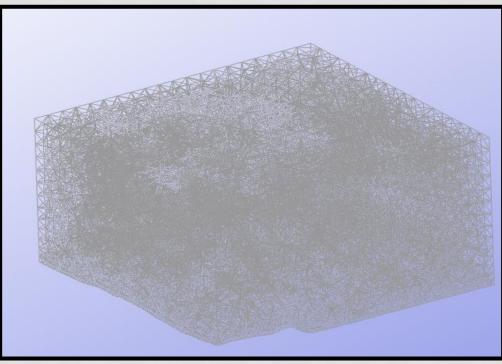
EMBEDDED MESH

- Does not respect the shape of the terrain
- Detection of the domain of the points
- Easy to implement



FURTHER STEPS

- Location and properties of the Control Volume
- Properties of the mesh
- Full automation of the calculation
 - User interface
 - Flow properties



Thanks for your attention