Does your organization need in-house training to enhance systems performance modelling by your engineers? Please contact Ernest on +254(0)729151906.

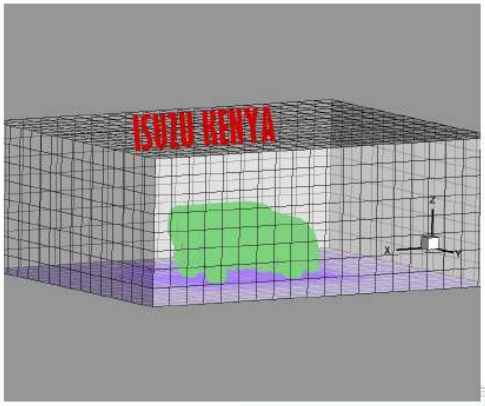
Computational Simulation For Enhanced Vehicle Aerodynamics and Airflow Systems (EVAAS)

UoN Isuzu Kenya Training

CFD Laboratory
UoN Department of Mechanical Engineering

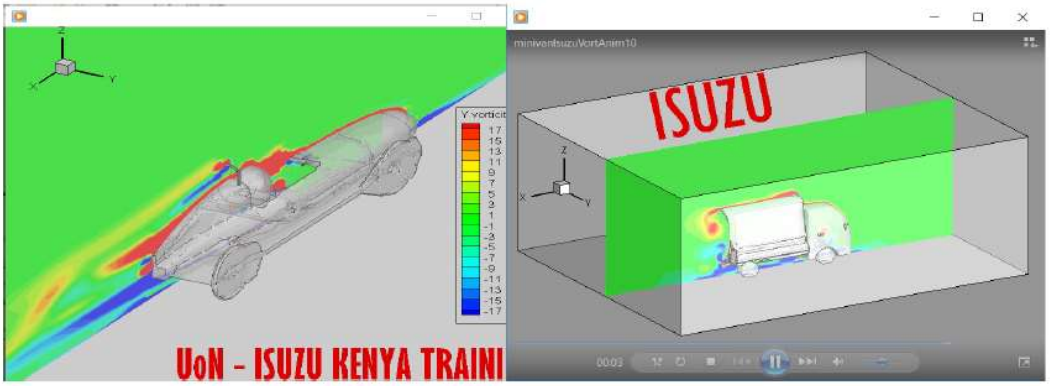
Mesh

- This particular mesh was produced by the OpenFOAM® utility **SnappyHexMesh**, for hexahedral meshing
- The mesh can also be produced by using a CAD programme (e.g. AutoCAD, SolidWorks, Salome)



Vorticity Results - Aerodynamic Vehicle

- The wake behind the vehicles is as a result of boundary layer separation and being a region of **low pressure** a horizontal force (**drag**) arises.



Internal Flow - mesh and geometry

- Key parameters are pressure drop and volumetric efficiency