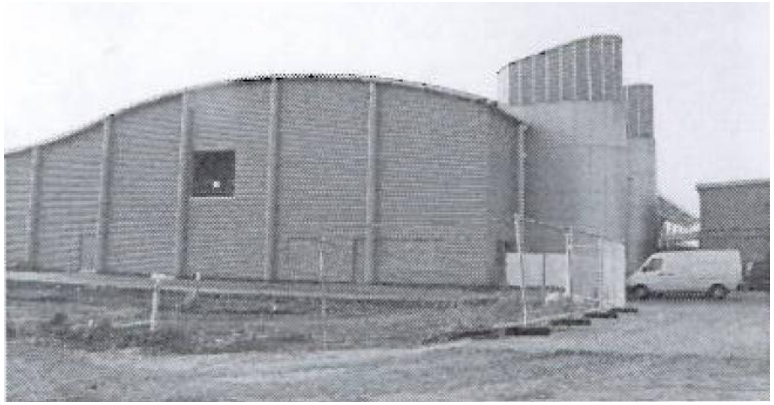
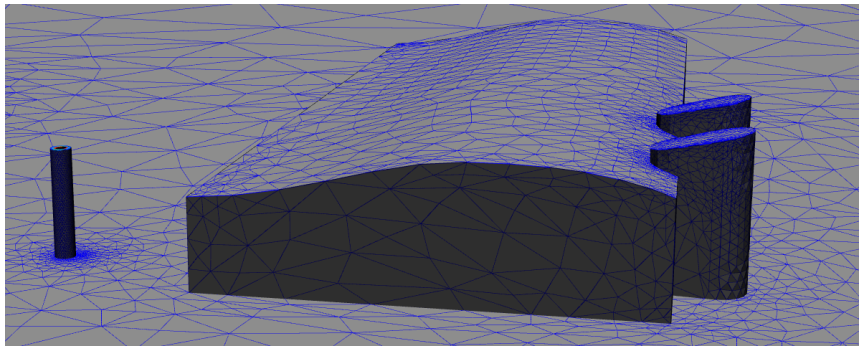




Physical problem →Mathematical Modelling

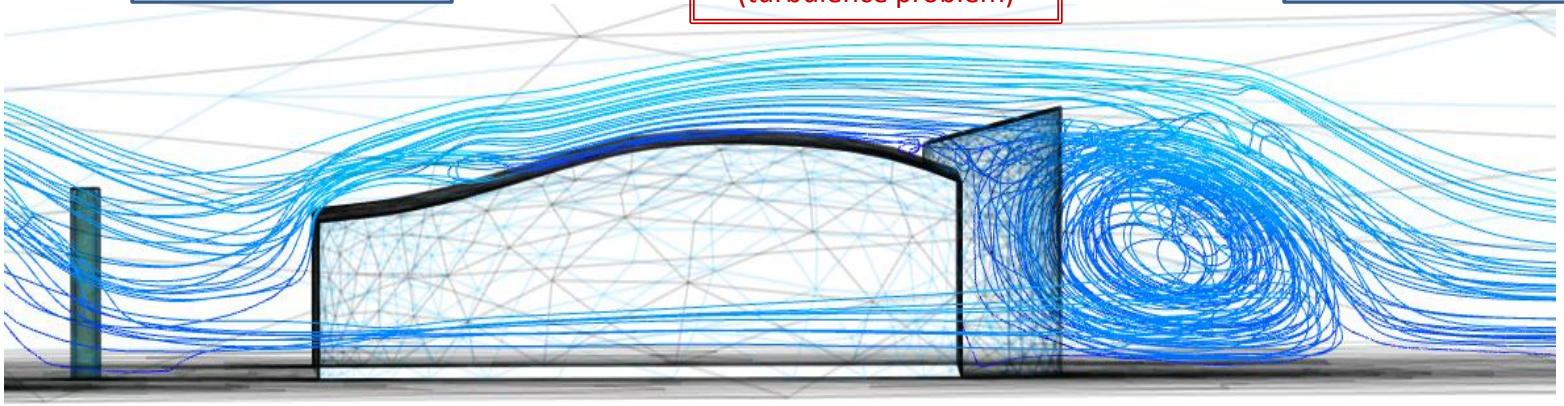
Navier-Stokes equations with boundary and initial conditions (turbulence problem)

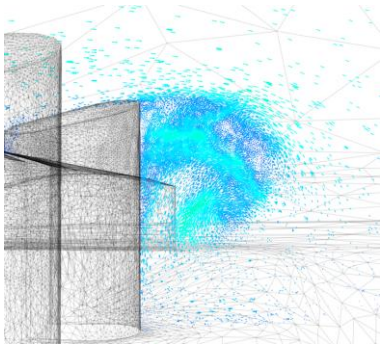
Discretised problem → Geometry and Equations

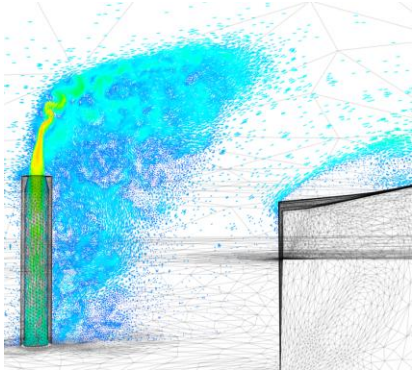
Parameterisation and/or closure models (e.g., turbulence)

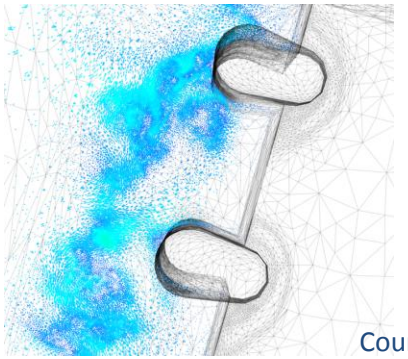
Solving equations

Analyzing the solution (critical thinking)









Courtesy: Applied Modelling and Computation Group (Imperial College London)