

# Problem definition

## Vortex generator – Tip vortex

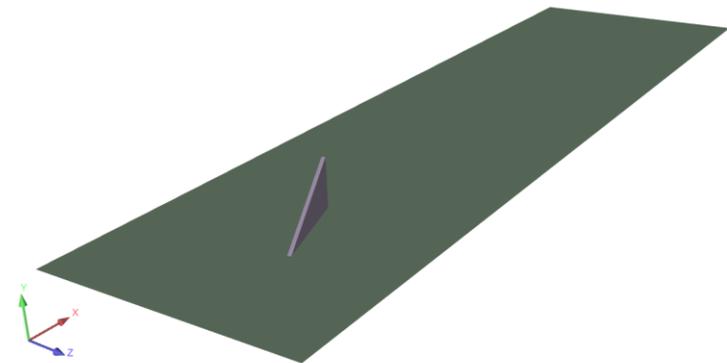
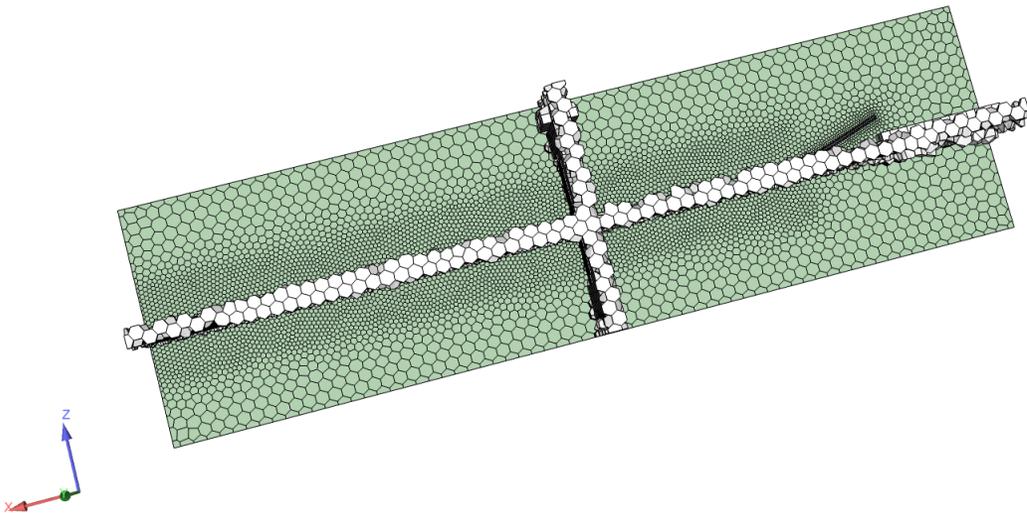
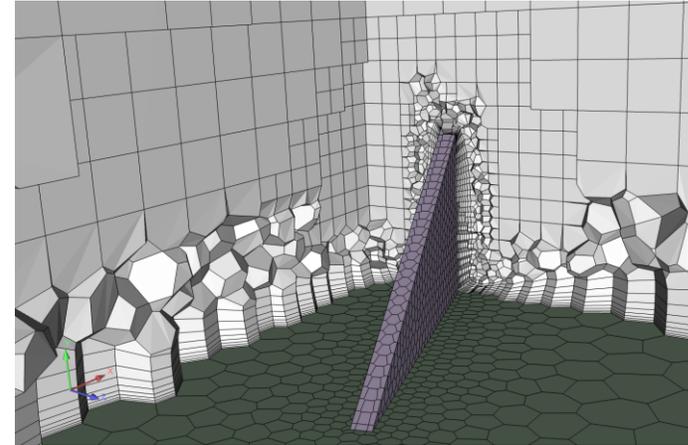
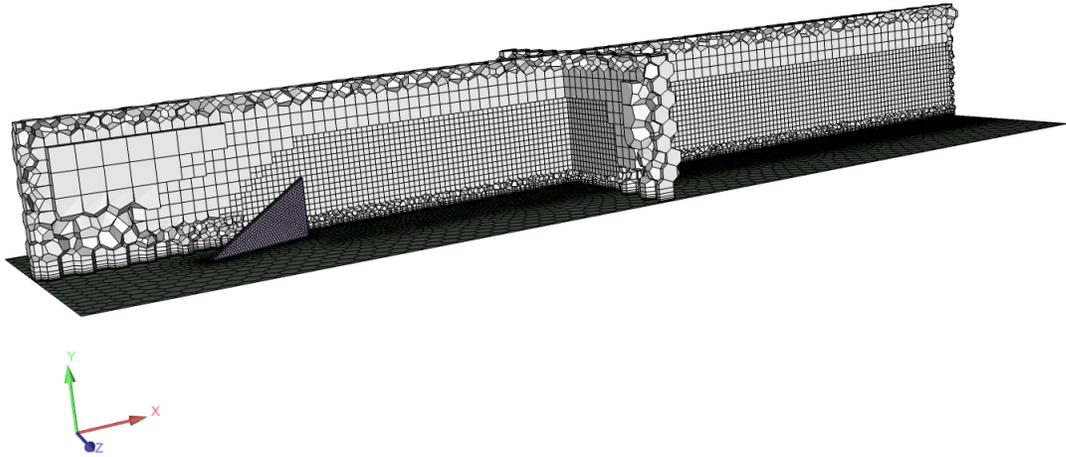


- This is a demonstration case (therefore, there is no validation data).
- We will use this case to study the effect of the curvature correction on tip vortices.
- We will simulate the vortex created by a vortex generator.



# Problem definition

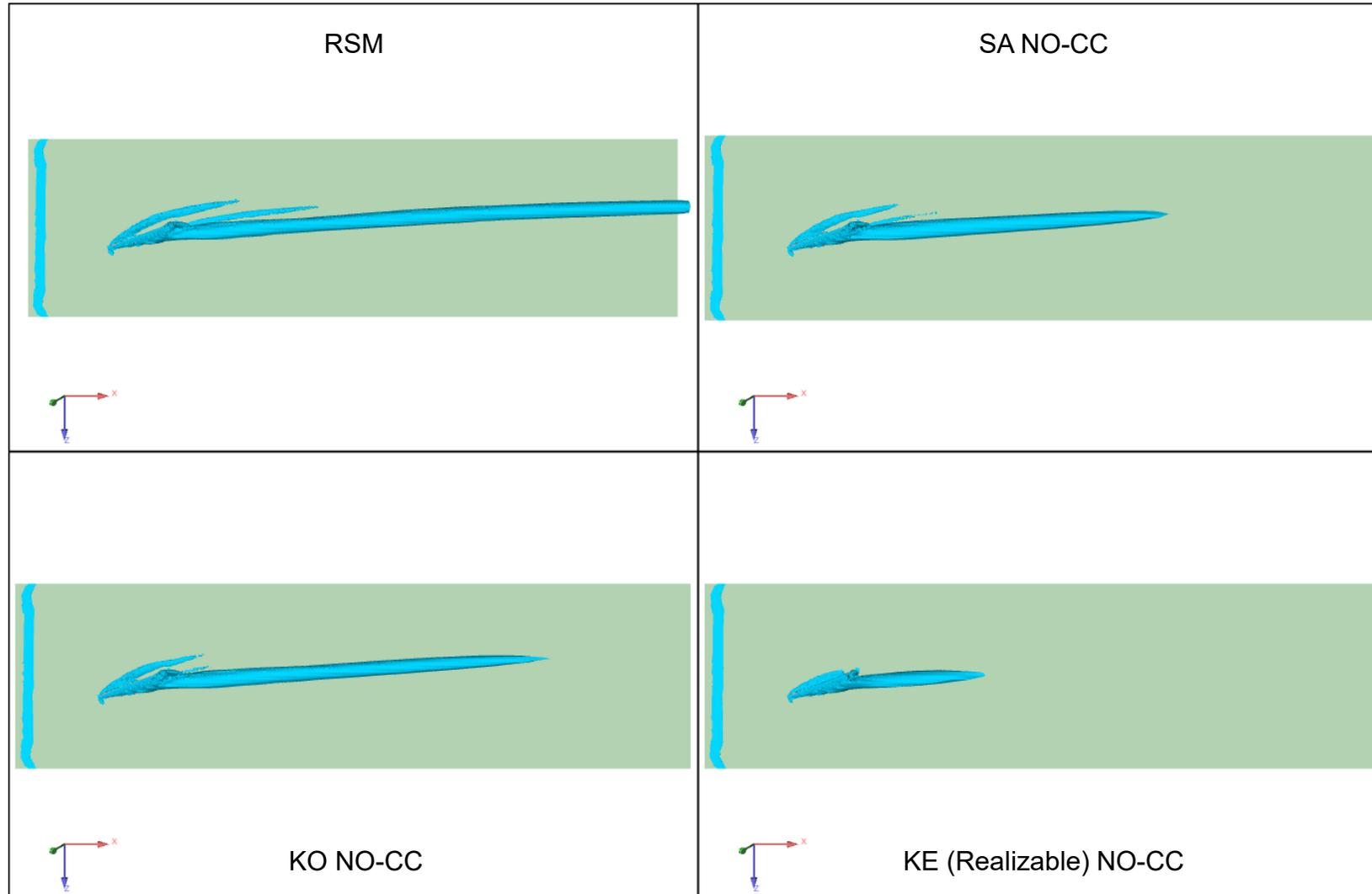
## Geometry and mesh



- This is a wall modeling mesh.

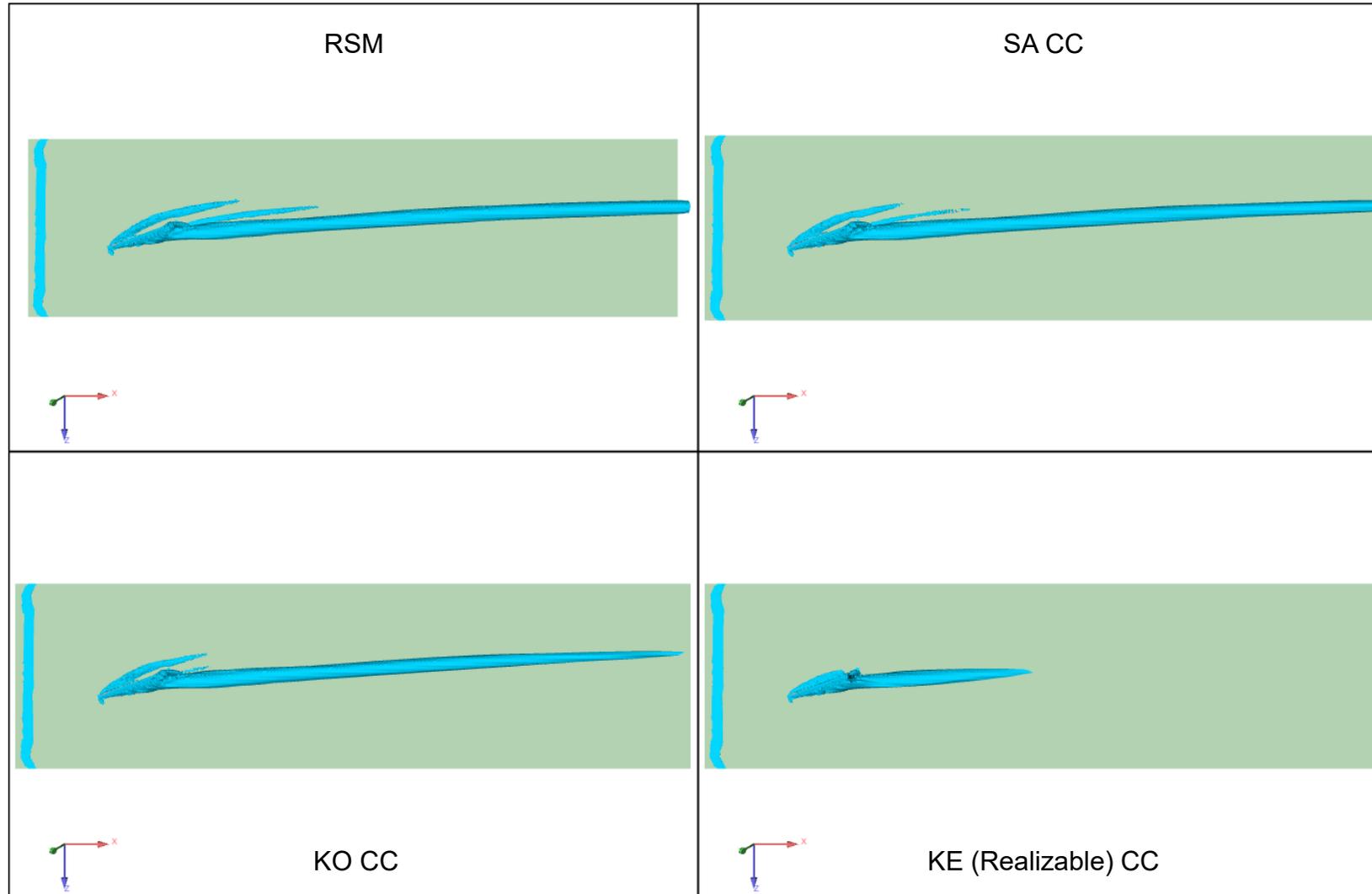
# Qualitative and quantitative results

## Vortex generator – Tip vortex



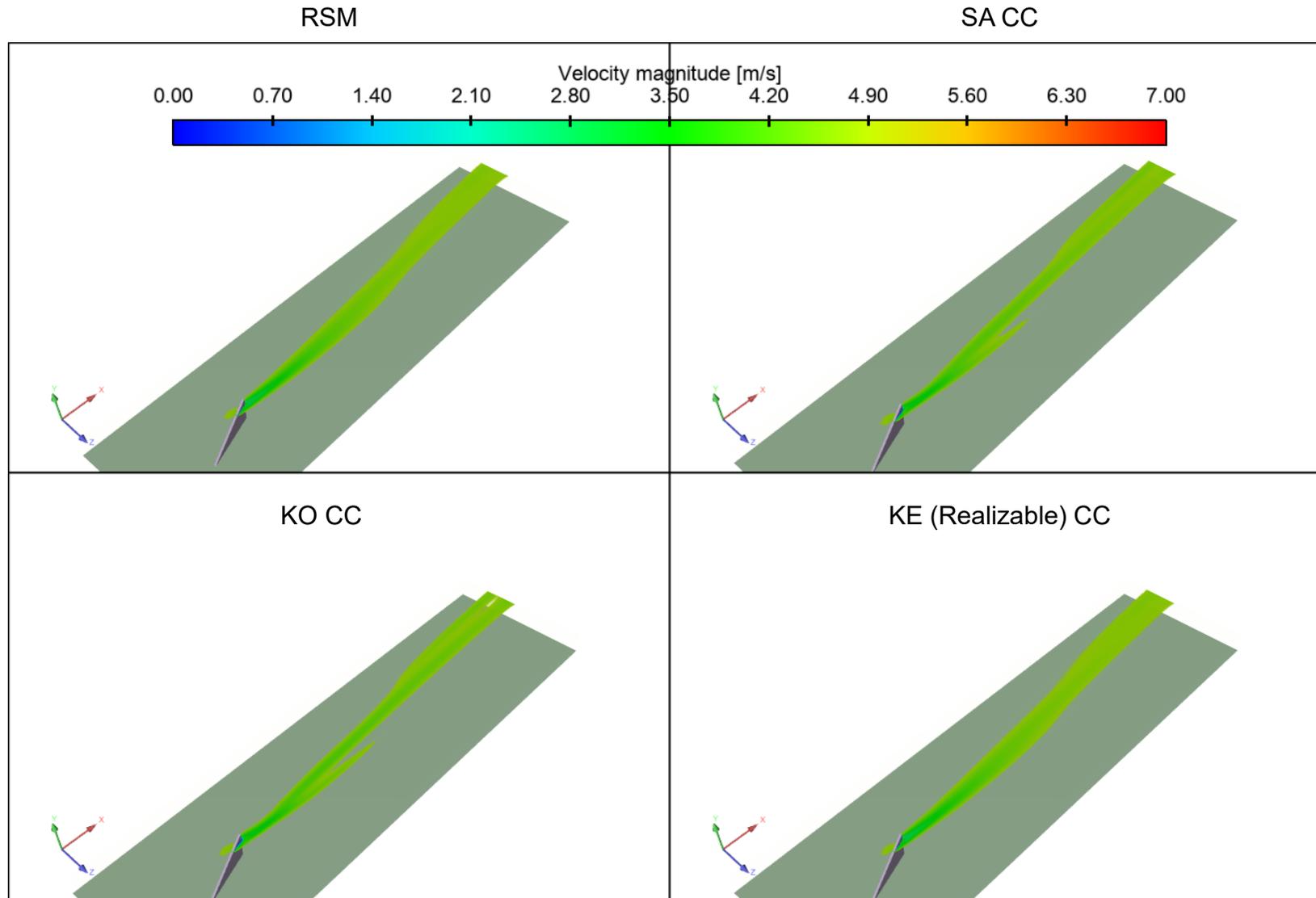
# Qualitative and quantitative results

## Vortex generator – Tip vortex



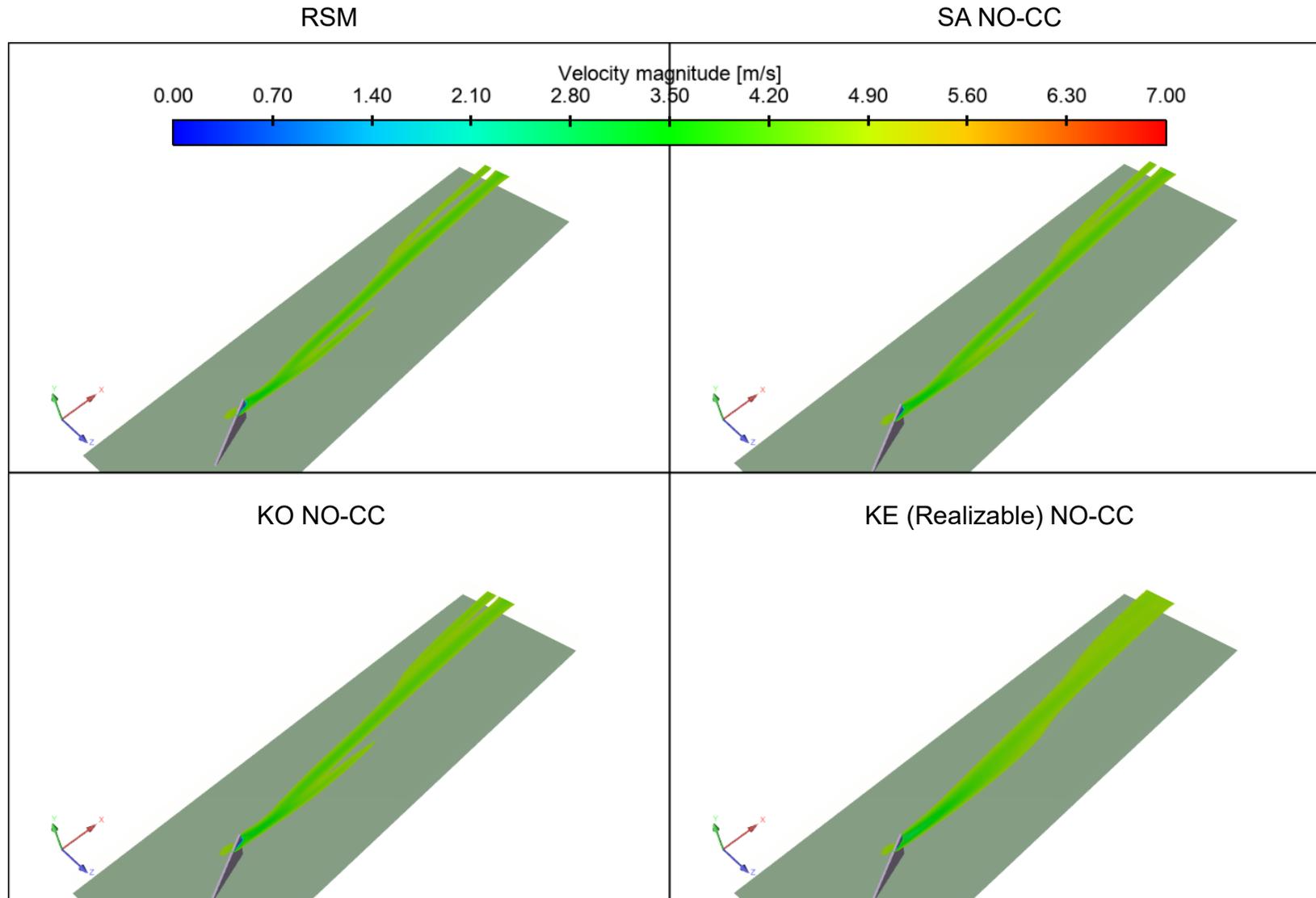
# Qualitative and quantitative results

## Vortex generator – Tip vortex



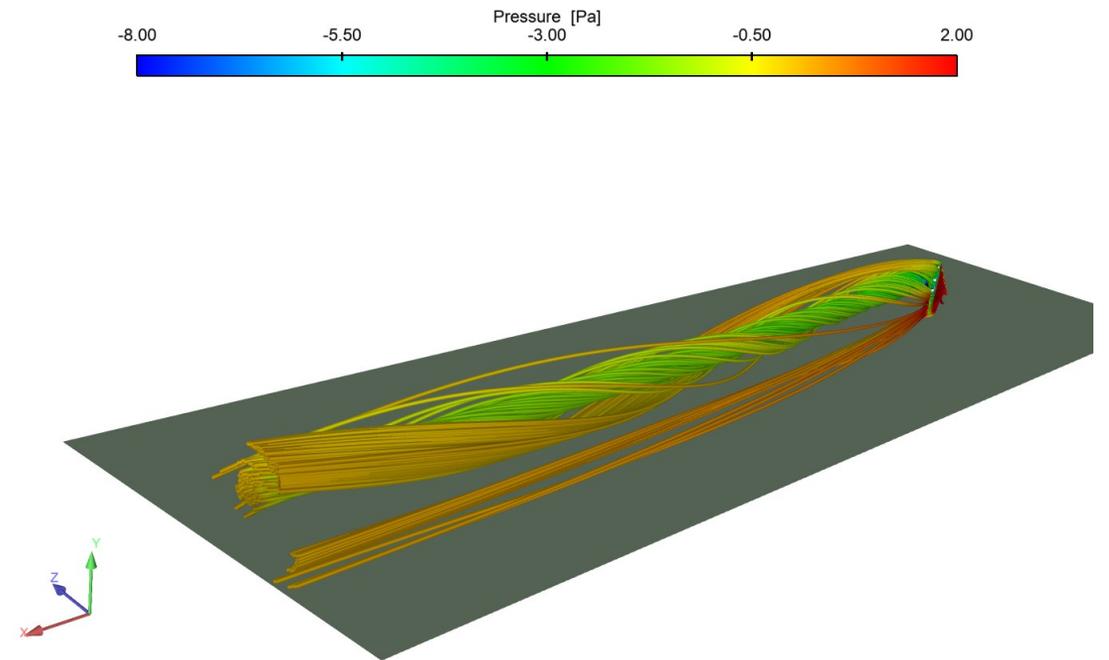
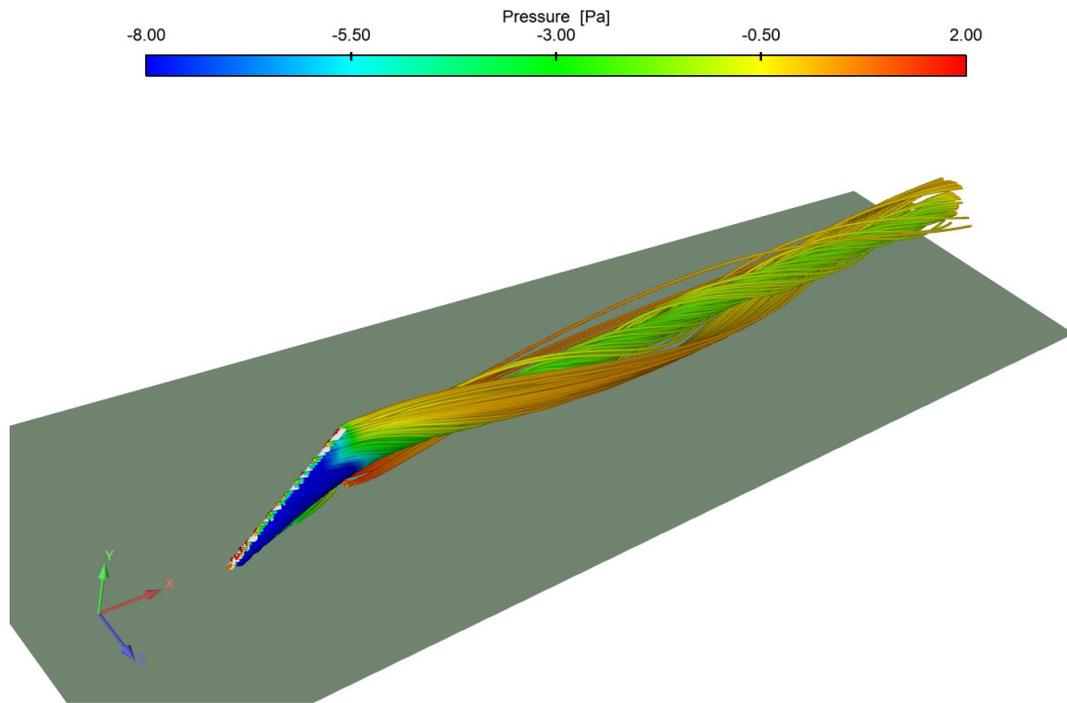
# Qualitative and quantitative results

## Vortex generator – Tip vortex



# Qualitative and quantitative results

## Vortex generator – Tip vortex



Streamlines released from the vane – Colored using pressure field