

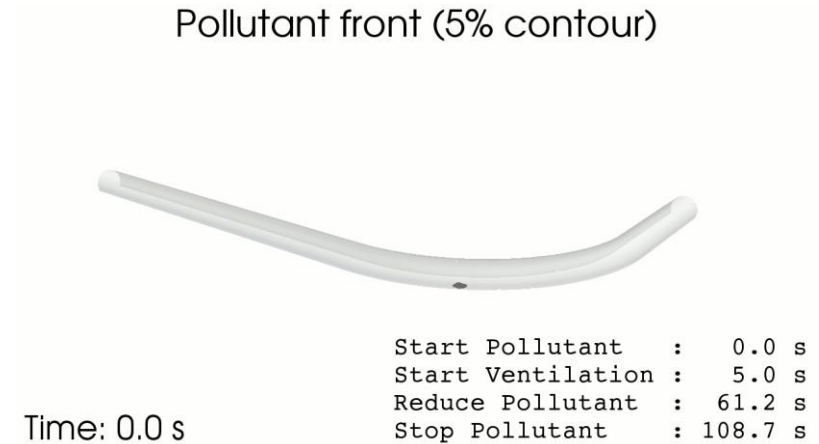
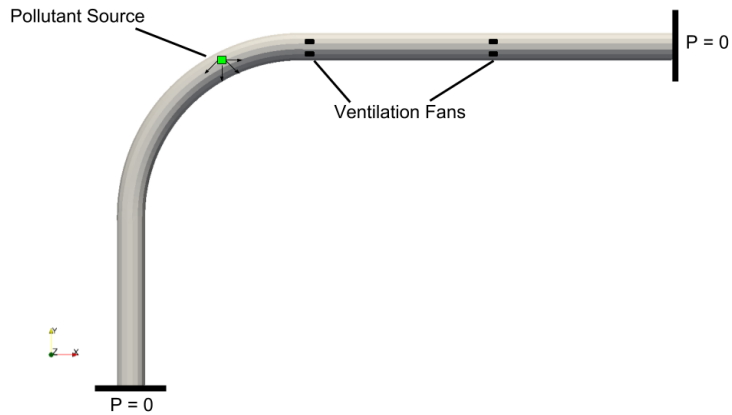


ADVANCED SIMULATION IN TRANSPORTATION:

July 2018

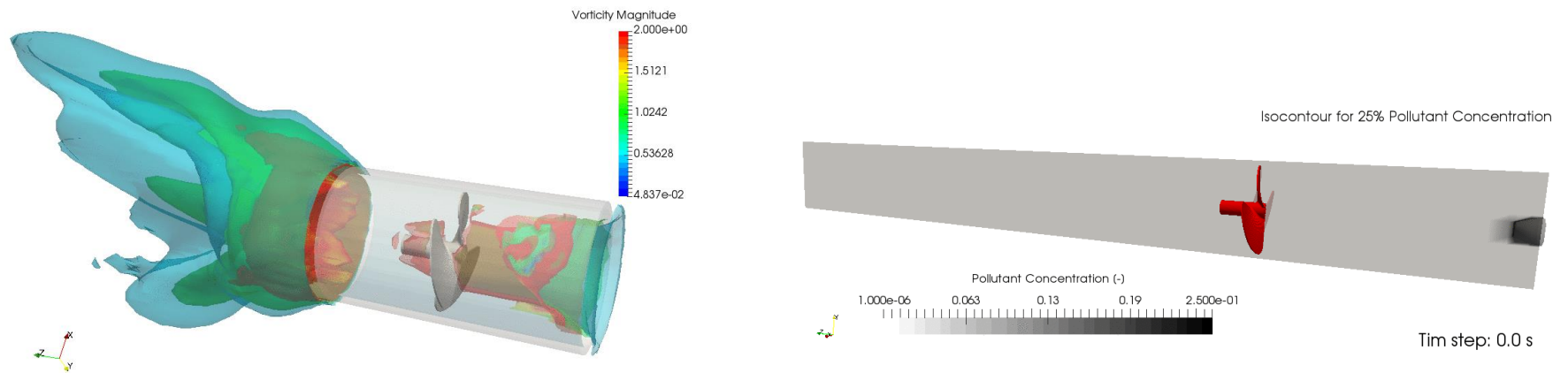
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DEPLOYMENT IN TUNNEL ENGINEERING



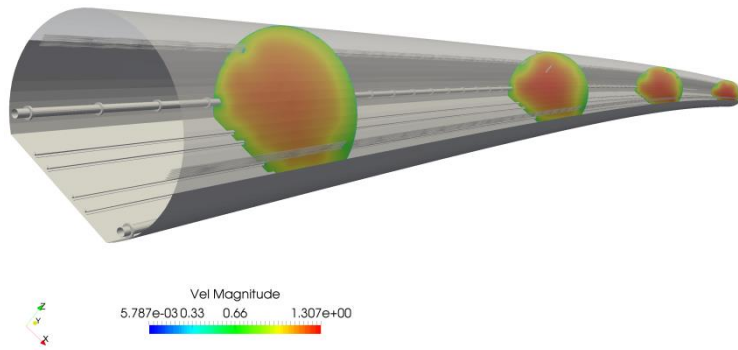
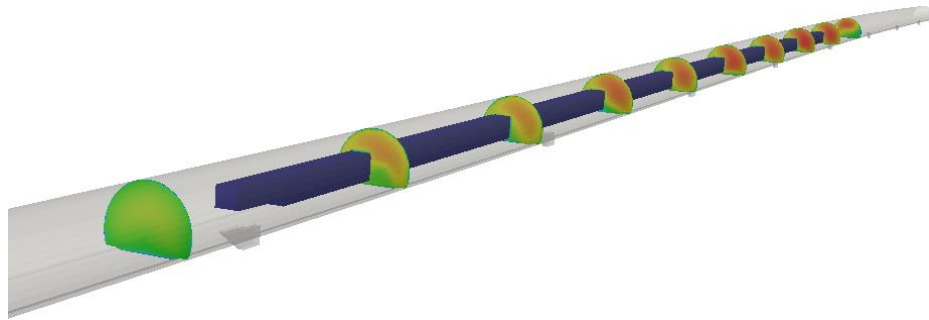
Smoke extraction using point sources

DEPLOYMENT IN TUNNEL ENGINEERING

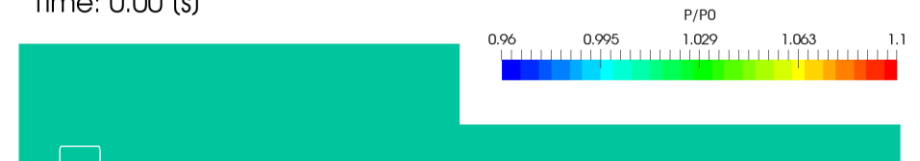


Smoke extraction using fans

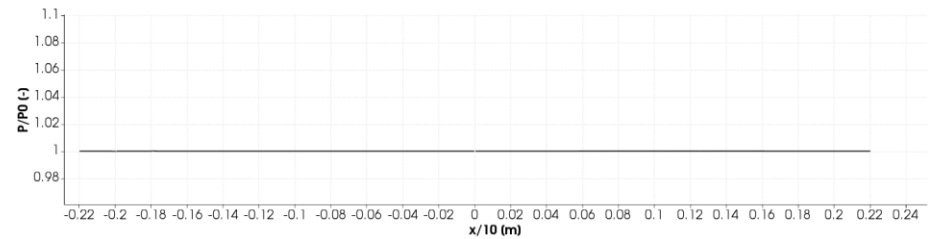
DEPLOYMENT IN TUNNEL ENGINEERING



Time: 0.00 (s)

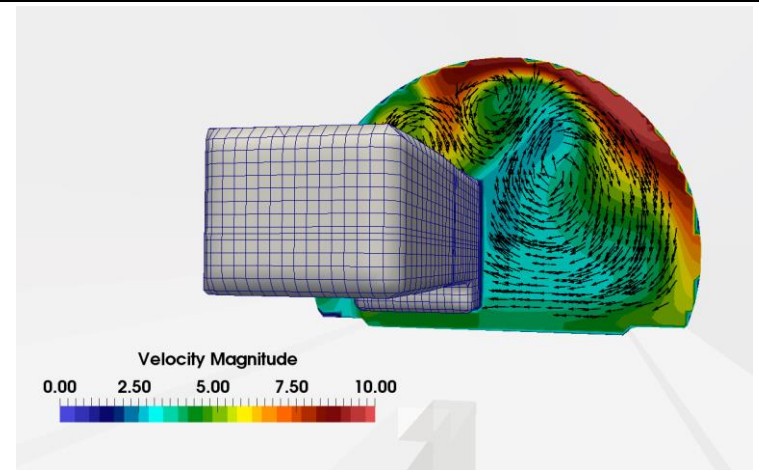
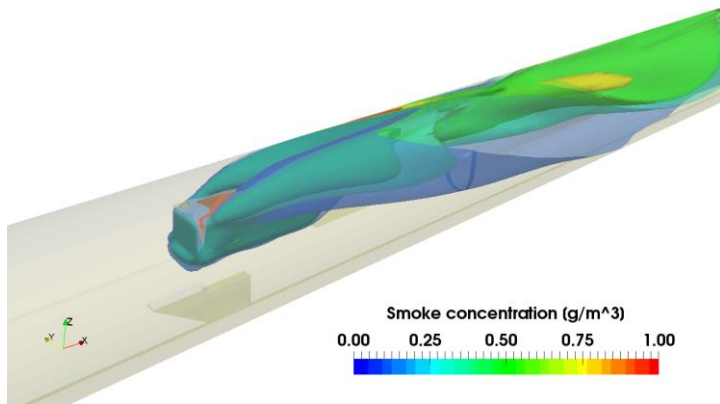
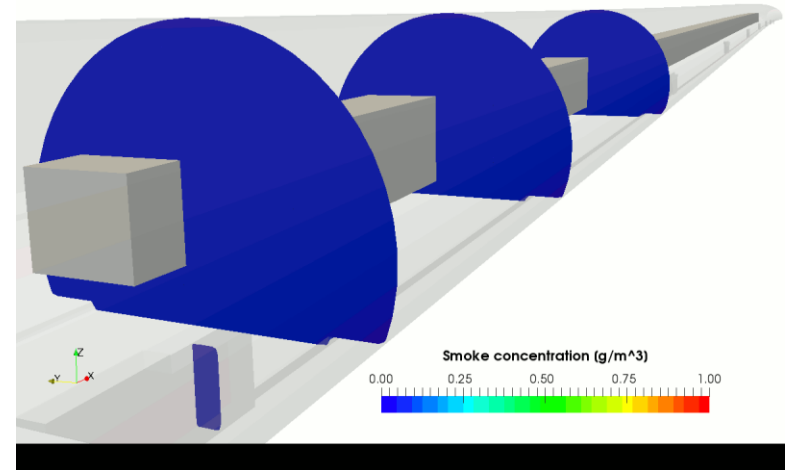
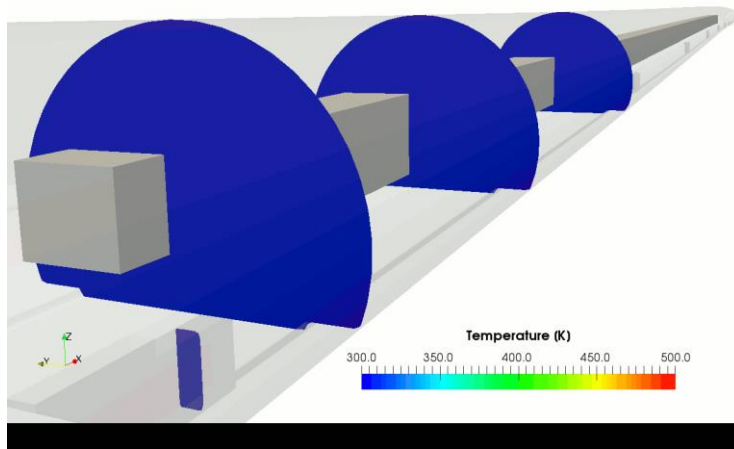


Output scaled by 0.1 in axial direction



Shock propagation in a rail tunnel




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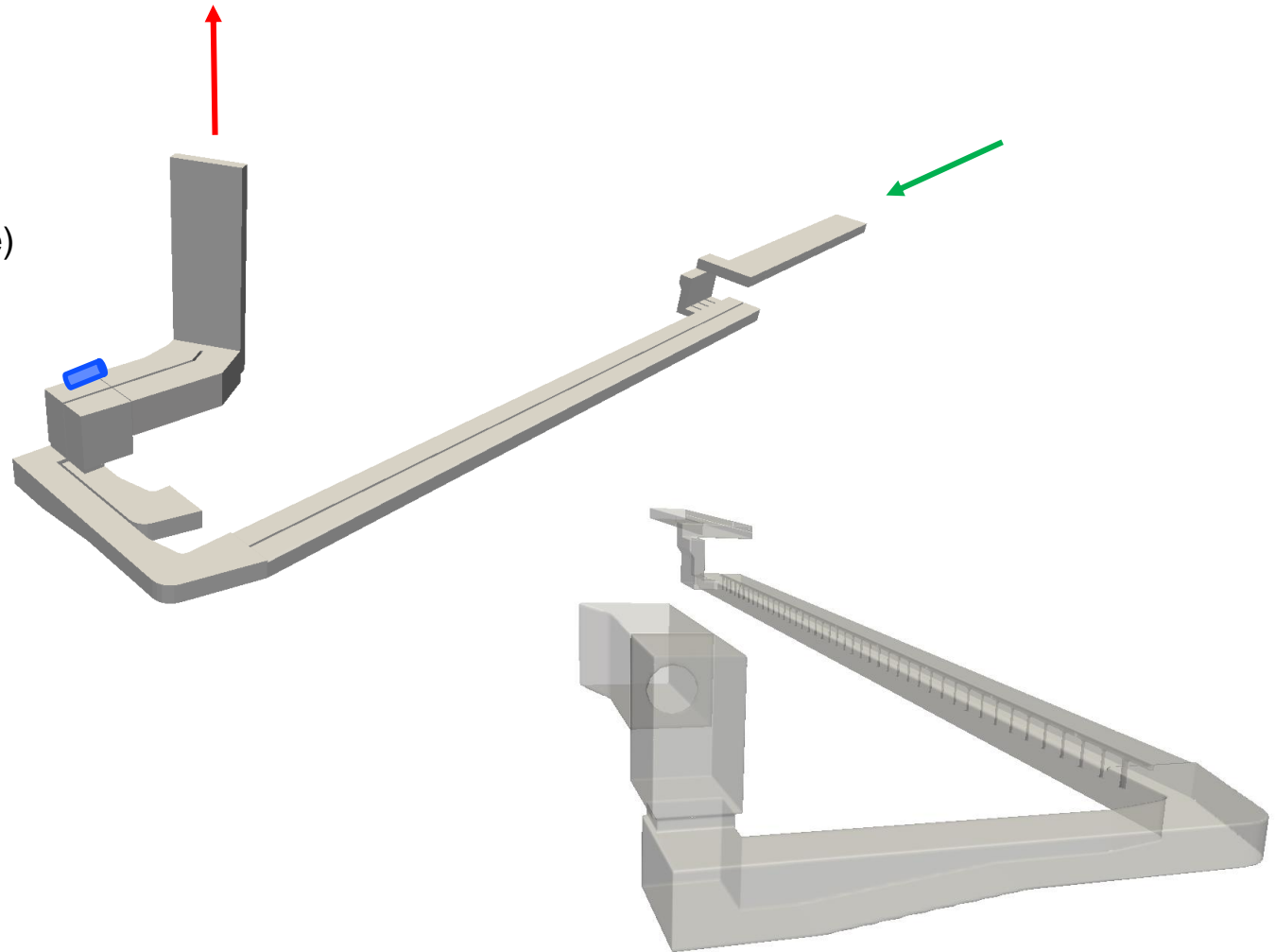


Fire & smoke propagation in a rail tunnel

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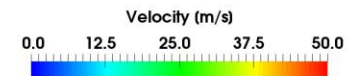
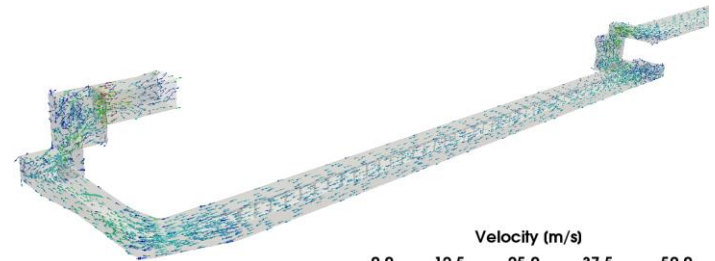
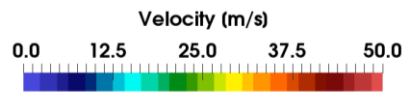
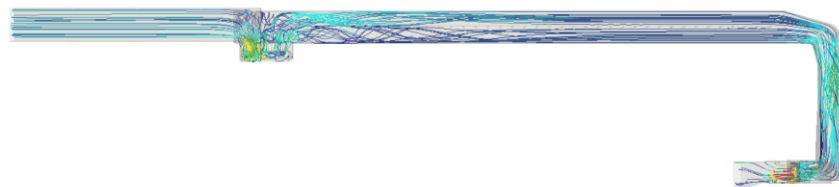
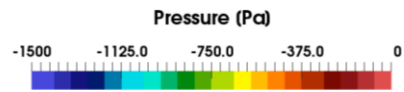
Main Figures

-  Ventilation Fan
-  Outflow (discharge)
-  Inflow from tunnel



DEPLOYMENT IN TUNNEL ENGINEERING

Simulation Output





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