



***ADVANCED SIMULATION IN BUILDINGS AND
TRANSPORTATION: WIND ENGINEERING, TUNNELS ...***

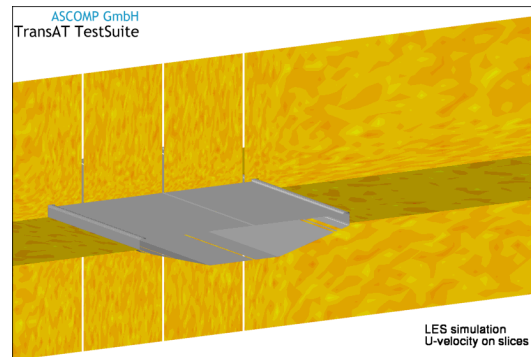
July 2018

www.poyry.com/ams; ams@poyry.com

DEPLOYMENT IN WING ENGINEERING



Wind-mill energy



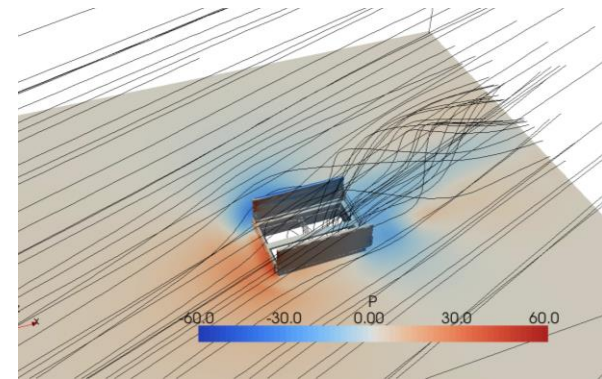
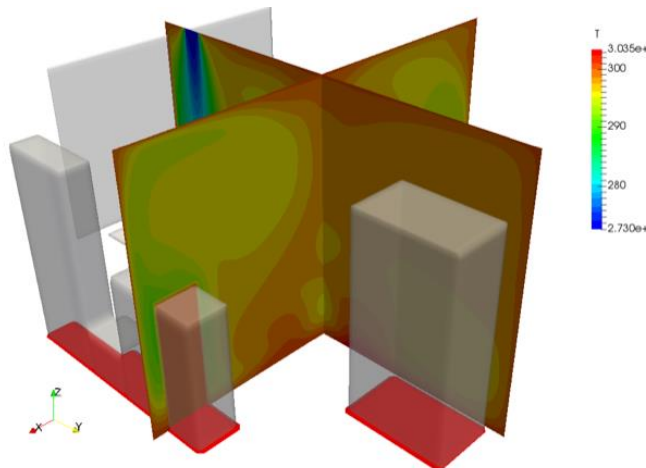
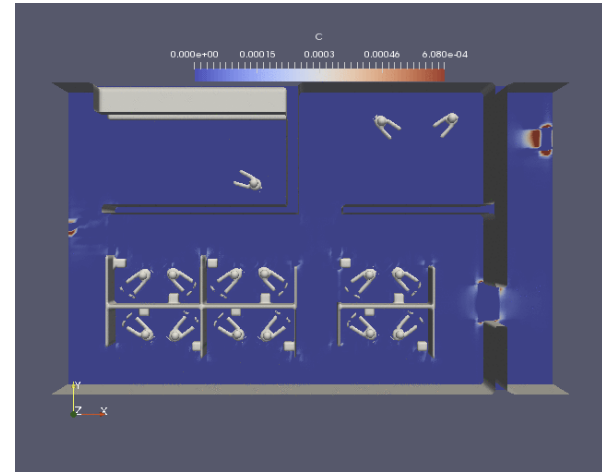
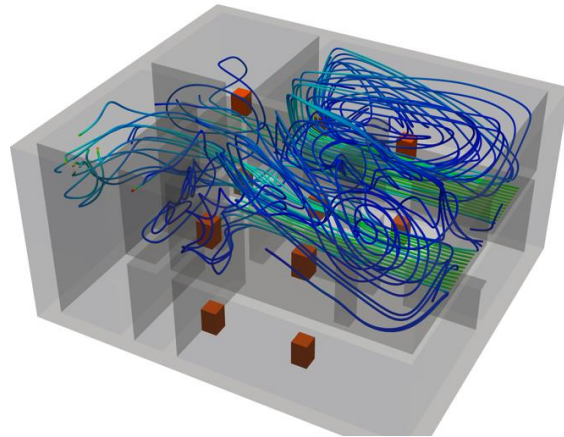
Wind forces



Pollution dispersion

DEPLOYMENT IN BUILDINGS

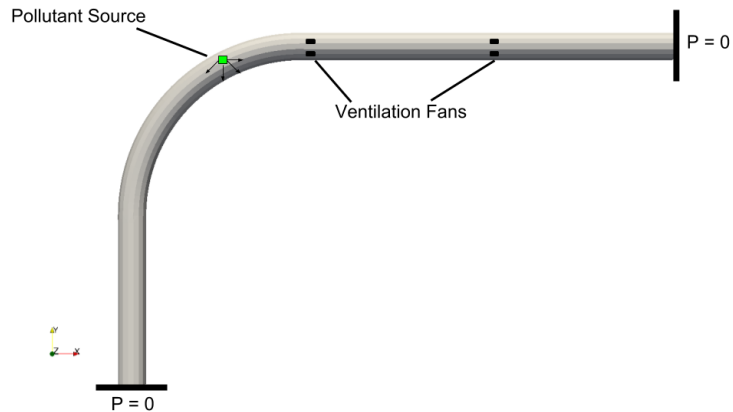
Internal Ventilation & thermal comfort



Thermal comfort

Ventilation

DEPLOYMENT IN TUNNEL ENGINEERING



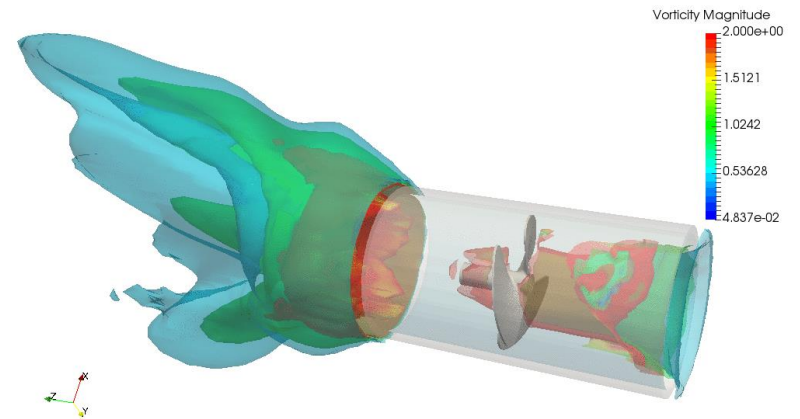
Pollutant front (5% contour)



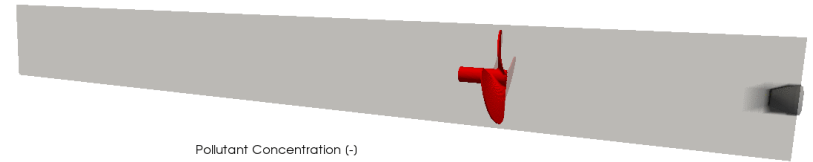
Time: 0.0 s

Start Pollutant	:	0.0 s
Start Ventilation	:	5.0 s
Reduce Pollutant	:	61.2 s
Stop Pollutant	:	108.7 s

Smoke extraction using point sources



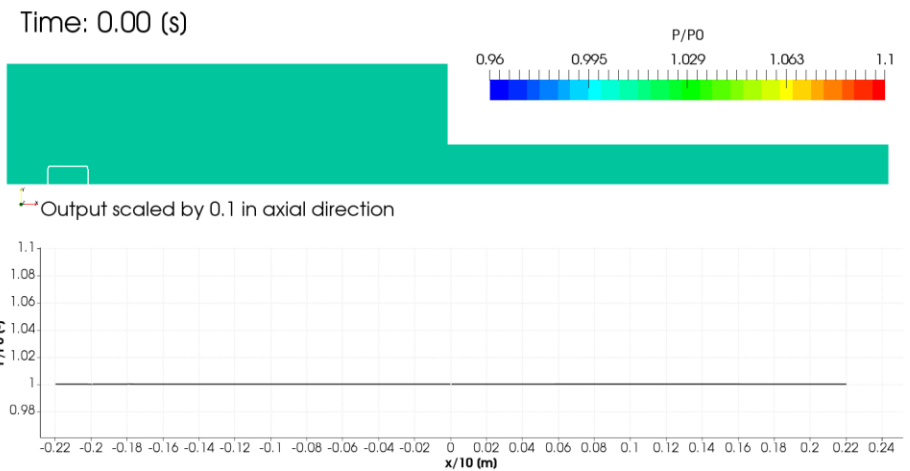
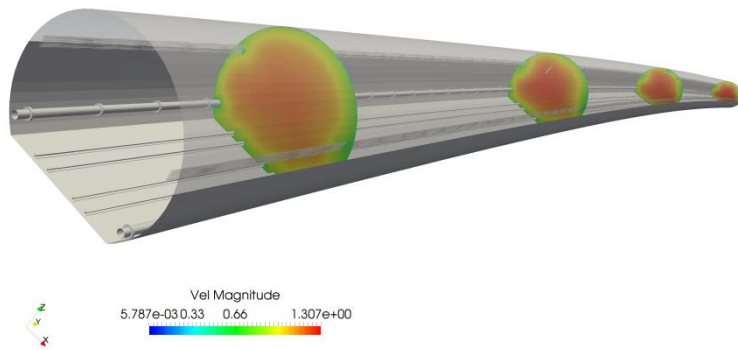
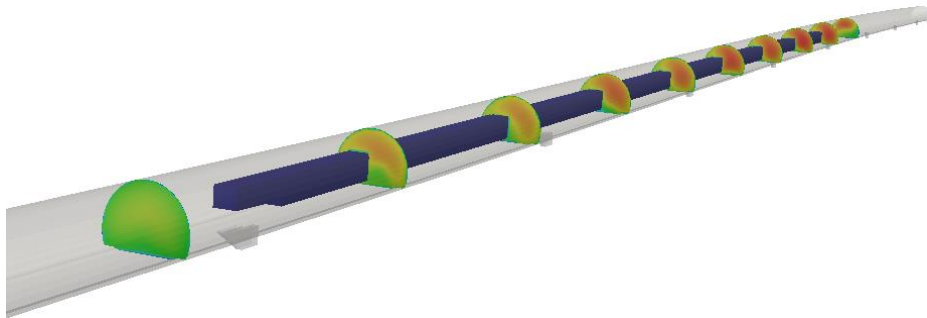
Isocontour for 25% Pollutant Concentration



Tim step: 0.0 s

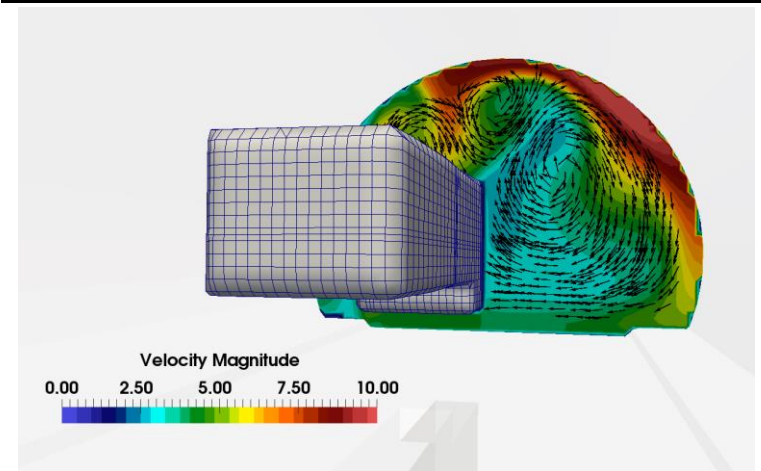
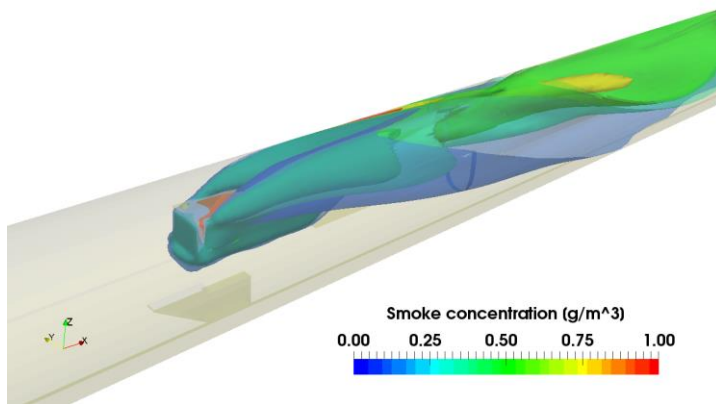
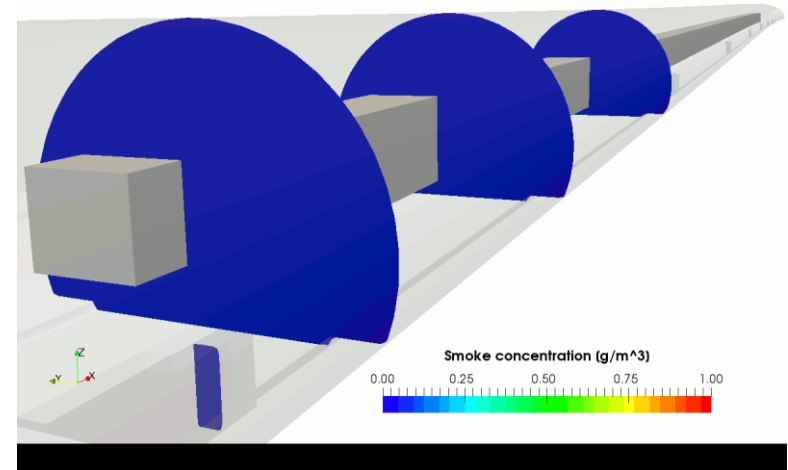
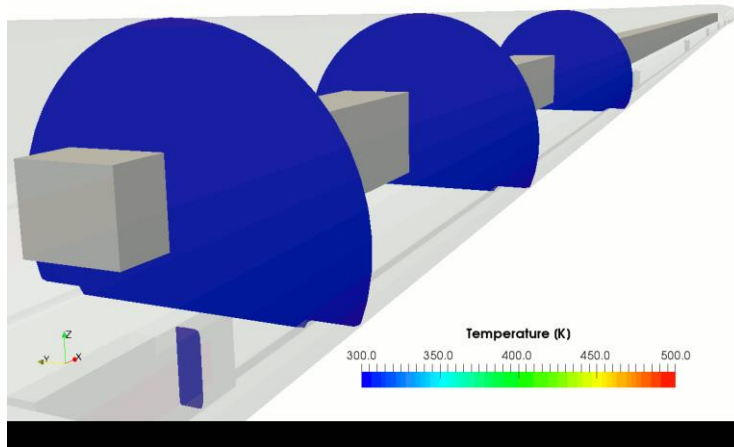
Smoke extraction using fans

DEPLOYMENT IN TUNNEL ENGINEERING



Shock propagation in a rail tunnel

DEPLOYMENT IN TUNNEL ENGINEERING



Fire & smoke propagation in a rail tunnel



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