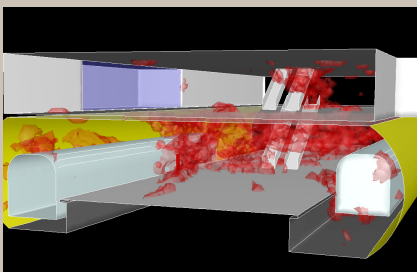
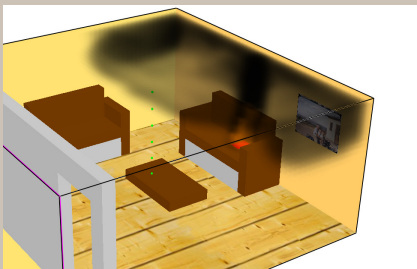
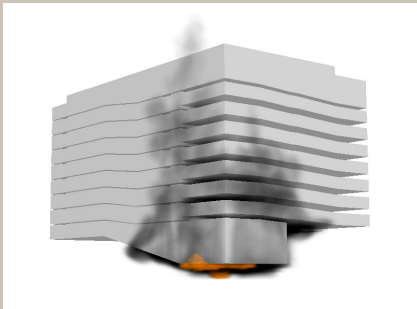




“Where will our knowledge take you?”

Computational Fluid Dynamics (CFD) In Built Environment



Fire and smoke propagation from an underground car park (Top) Fire and smoke in the living room (Second from Top) Large hydrocarbon fire from risers of offshore facility (Third from Top) Smoke propagation in the underground subway station (Bottom)

Fire and Smoke propagation

BMT WBM has specialist CFD capabilities for assisting fire protection engineers to predict the movement of smoke in complex enclosed spaces such as atria, public transportations, concert halls, shopping malls underground building structures, and warehouses. In Principle, CFD modelling provides a means to predict smoke movement without the constraints imposed by simpler modelling techniques.

BMT WBM professionals are experienced to support fire and occupational health and safety engineers from variety of diverse industry. Our expertise includes the design and assessment of fire wall, ventilation fan design and suppression system design optimization and to reduce the fire related risks and fatal consequences.

BMT provides informative and detailed picture of smoke conditions such as smoke temperature, visibility and toxicity.

Our fire modelling software capability includes ANSYS-CFX, Fluent, FDS, and KFX.

BMT's fire and smoke analysis expertise in built environment, civil infrastructure, transport and oil & gas process industry include:

- Fire and smoke modeling for large underground developments(i.e., tunnels, underground multilevel car parks and subway stations)
- Fire and smoke propagation from public buildings, movie theatres, office buildings and hospitals
- Radiation, Solar load, and temperature impact on the buildings
- Smoke dispersion and gas detection studies for off-shore and on-shore oil and gas facilities

To communicate with a CFD specialist at BMT WBM please contact:

EnvironmentalCFD@bmtwbm.com.au