

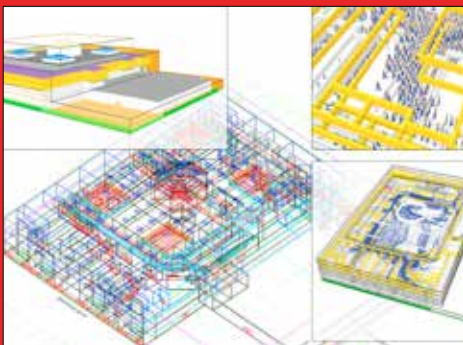


There is an easy, accurate and at the same time revolutionary way to **simulate a fire development**, its **propagation**, and the effects that may occur on **people and properties**.

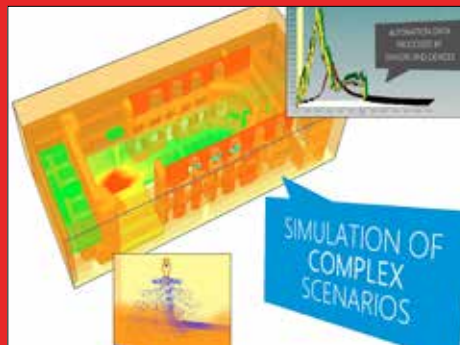
This new technology is **CPIwin®FSE**, the leader program that allows to **apply the principles of safety engineering** for **fire fighting** and for **people evacuation to safe places**.

CPIwin®FSE, namely **Fire Safety Engineering**, studies fire development and the its resulting effects (FDS), allows to design and test the escape routes and the security plan correctness, when integrated with the **FSE EVAC** module.

CPIwin®FSE allows to rely on a **intuitive and easy CAD in MEP Technology**, the same as **CPIwin®SPIDI**, in fully drawing complete fire scenarios.



Evacuation analysis in a shopping center



Simulation of complex scenarios



Fire simulation in a high piled storage

FSE MAIN FEATURES

DESIGN of walls, doors, windows, furniture and the parameters required by the models FDS 6 (Fyre Dynamics Simulator) as stratigraphy of walls, HHR curves, device temperature activation, calorific value, etc...

COMPLETE LIBRARY of predefined objects to use to simulate fire scenery

GENERATION OF TIME-TEMPERATURE curves that can be employed in CPI win REI for the verification of the fire resistance of the structures.

SMOKEVIEW generation and display of a video simulation of the event by highlighting all the characteristic parameters as for example temperatures, gases developed according to fire, etc.

CPIwin®FSE-EVAC MODULE

Allows the complete simulation of people evacuation from the site subjected to risk, both in presence of fire or not, considering the structural context, the environment and the behaviors of people involved in fires.

This powerful tool fully manages people perception of danger stage and required needs in reaching a safe place.

It is possible in starting from the scenery used for FSE simulation or creating a new full scenery where, besides the

environment, it is possible to specify and assign different kind of people movement speeds.

The EVAC Module can take into account the scenery behavioural factors that occur in influencing the evacuating decisions of people involved, as for example familiarity and/or outputs visibility, according to smoke or temperature.

In this case the post processor module provides also easy reference and interpretation data.