**exploCFD** is used to analyse explosions which pose serious hazards to life, property, and the environment. The software shows the user the magnitude, and a detailed distribution of the overpressure in the event of an explosion. Consequences are better managed and reduced with more accurate, and more detailed pressure distribution on site. More detailed information means better intervention through plant design, plant modification, or by implementing mitigation measures.

**exploCFD is User Friendly:**

- Extensive modelling capabilities for hazard analysis
- Compatible with popular office word processing, spreadsheet and database applications
- Consistent Windows™ look-and-feel
- Online electronic help and dedicated helpdesk

**ADVANTAGES**

- Detailed information of overpressures far superior to 1-D circle-on-plot-plan methods
- Superior assistance in compliance with safety regulations.
- Enables more effective preparation for and response to explosion incidents by providing deeper understanding
- Constant software upgrades supported by real consultancy and explosion modelling experience
- Enables for real cost reduction in terms of losses and insurance compared with
- The most cost-effective way for ensuring safe design and safety driven modifications
Which of the above overpressure distributions do you prefer base your decision on?

Operators, consultants, and regulators prefer to know which buildings need strengthening, and where which buildings should be moved. Overestimate, and you are spending too much money, underestimate and it can end in disaster.

Applications of exploCFD is revolutionising blast modelling. It is used to calculate visualise overpressures and consequences from explosions.

Applications of exploCFD include:

- Safety case preparation
- Plant layout
- Inventory planning and segmentation
- Accident investigations and safety management planning exploCFD
- Emergency response plan development
- Compliance with regulations
- Non-standard operations analysis
exploCFD is indispensable within the following industries:

- Petrochemical plants
- Chemical process plants
- Oil and Gas offshore and onshore
- Consultancy and Design Services
- Insurance Risk Assessors

Some companies that have trialled or used exploCFD in one or more of their projects include:

Lloyds Register RPS Einblick Atkins Global BuroHappold Engineering RPS Worley ADNOC Gas Processing ADNOC Onshore ARAMCO Brunei Methanol and many more

Methodology and validation Papers exploCFD and SU2