



Eric Cesmat, Fire Safety Development Manager, CSTB

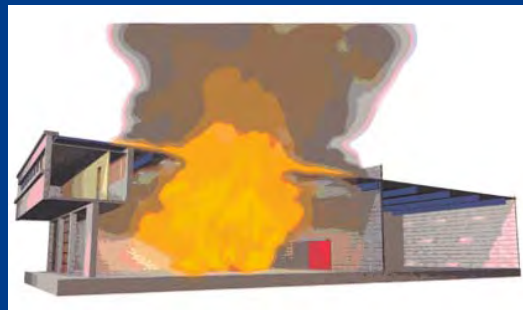
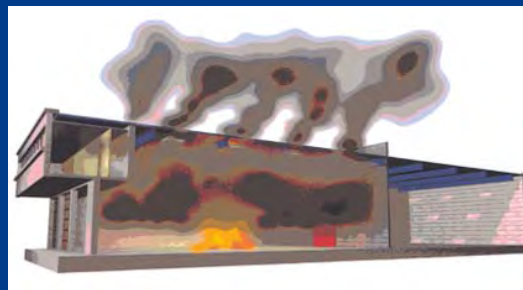
Sprinklers in large warehouses



EUROPEAN FIRE
SPRINKLER NETWORK



A typical warehouse fire

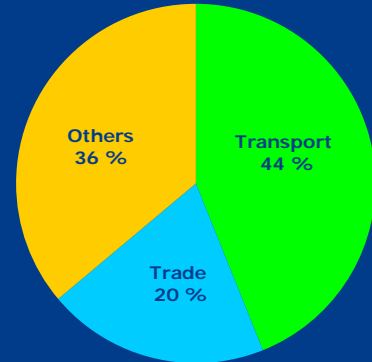




Lessons from technological accidents

www.aria.developpement-durable.gouv.fr/barpi_stats.gnc

❖ Warehouses accidents



❖ Poor fire stability



❖ Large compartments



❖ Poor reaction to fire performance of walls insulation



❖ Reinforcement of fire resistance requirements

REGULATION 1987

REGULATION 2002

2 levels or more

½ hour

1 hour

Useful Height > 10 m

½ hour

1 hour

Or Height > 12,50 m

**possible exemption,
with automatic extinction**

+ non combustible materials for the external walls,
exemption if automatic extinction

❖ Limitation of the size of storage compartments

REGULATION 1987

4000 m²

and more with compensatory measures

REGULATION 2002

3000 m²

6000 m² if automatic extinction

CONCLUSIONS