

















European Commission









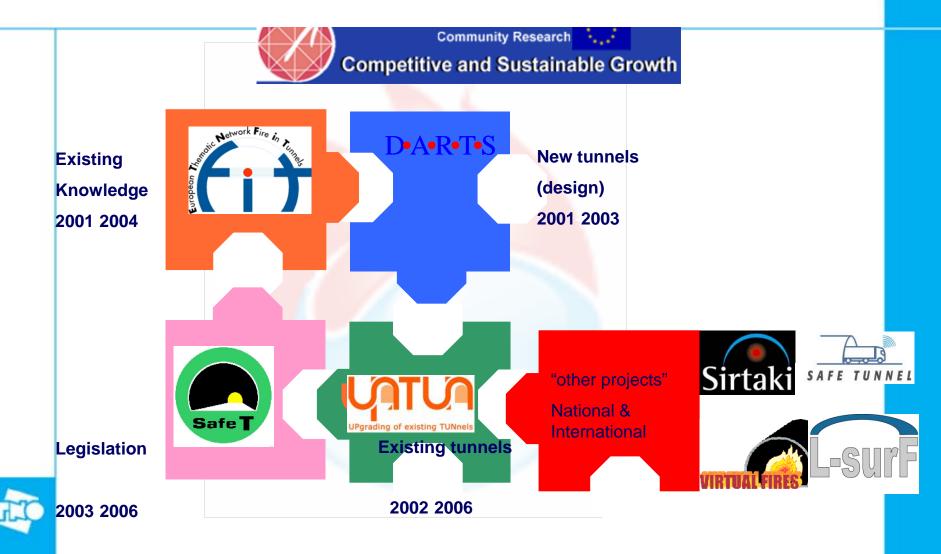


December 2002





Puzzle ...

















Kick-off, September 2002, Delft



Main objectives



New methodologies and technologies to assess and improve fire safety

Develop, demonstrate and promote procedures for rational safety level evaluation and knowledge transfer





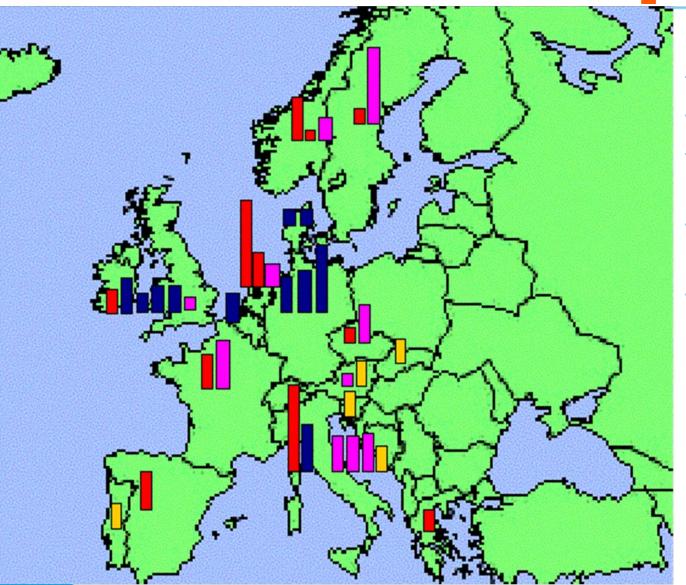








Consortium



- 41 partners:
- 12 consultants
- 3 owners

MATUA

- 7 suppliers / manufacturers
- 14 research institutes
- universities

19 countries







































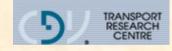
































Autostrada del Brennero s.p.A. Brennerautobahn A.G.

























UPTUN - Cost-effective, sustainable and innovative upgrading methods for fire safety in existing tunnels Project funded by the European Community under the 'Competitive and Sustainable Growth' Programme (1998-2002), Contract G1RD-CT-2002-0766, Project GRD1-2001-40739.

Key figures

- Start: September 2002
- Duration: 48 months
- Budget: 12 M Eur
- More than 50 final reports
- External review: very good project













Some results

























Runehamar fire tests











Runehamar fire tests









Test	Fire load	Dangerous goods?
1	10,9 ton wood and pla	Dangerous goods?
2	6,8 ton wood and (PU	R EXPLOSIVE PLANMABLE PLANMABLE OXIDIZING
3	8,5 ton furniture	SGEID LIBERT S.1
4	3,1 ton carton and pla	ST CORROSIVE RADIOACTIVE GOODS











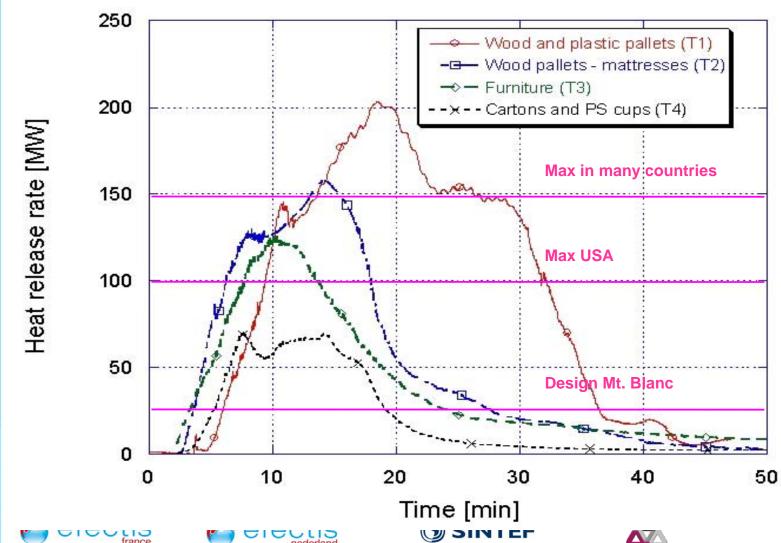






Heat release rate













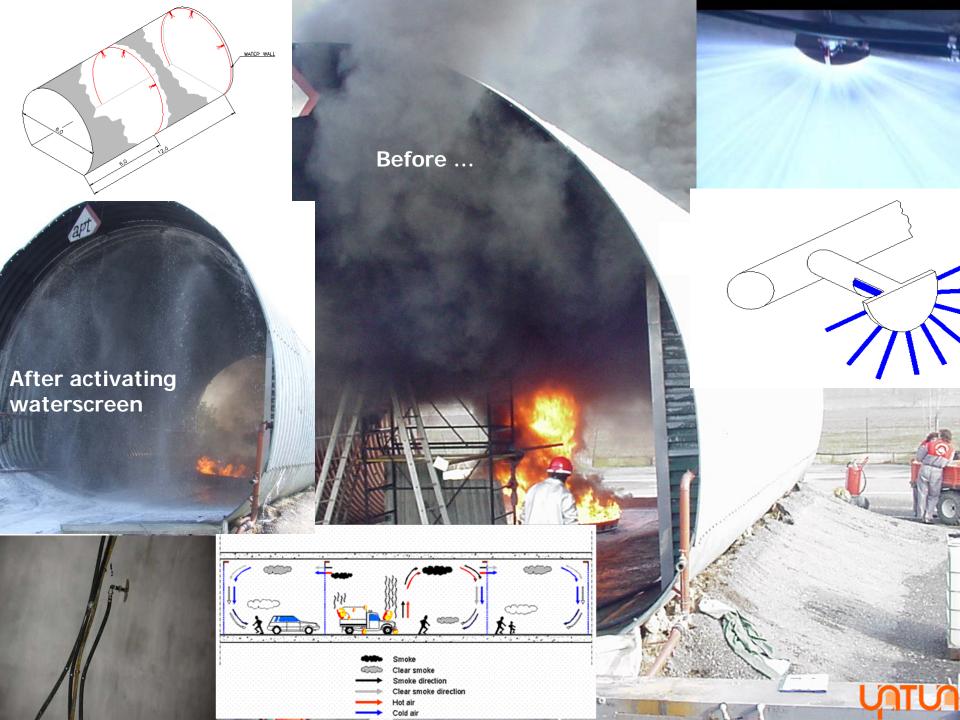




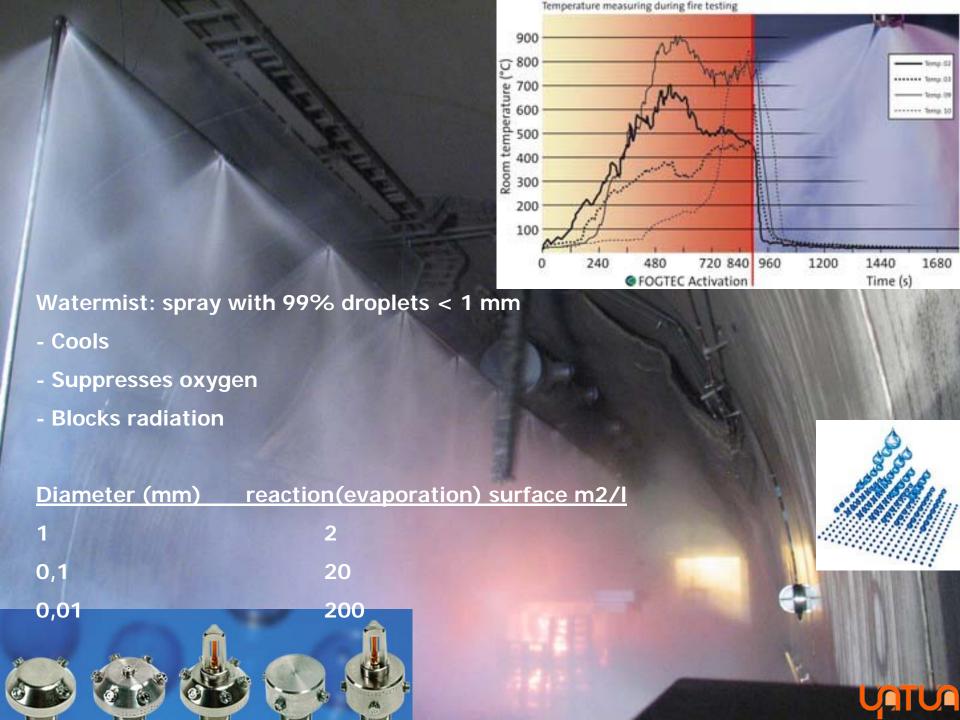












Watermist



Without With

















Training

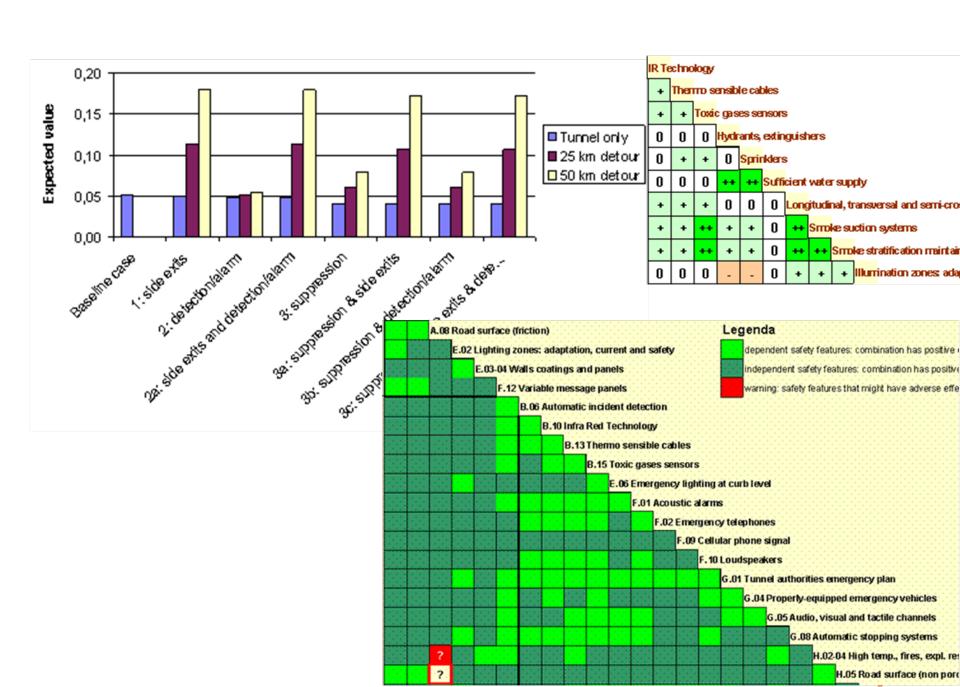


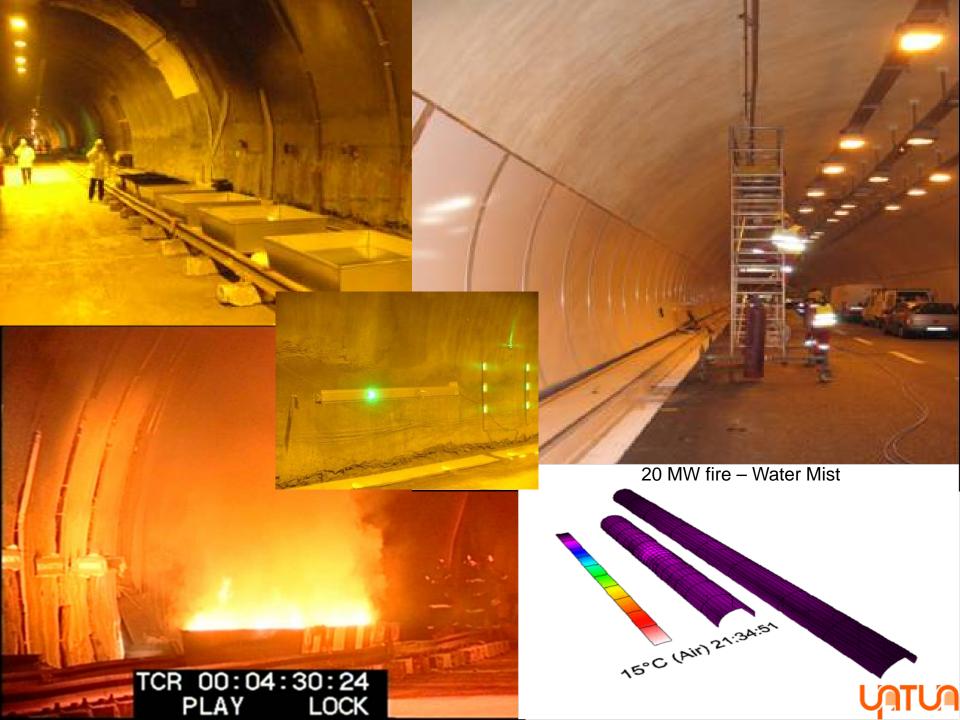
What to do when you are entering a tunnel What to do in the event of breakdown or accident Listen to the radio station indicated by the sign Switch on your warning lights Try to move your vehicle to an emergency lane or lay-by or Switch on your headlights. Take off your sunglasses Obey traffic lights and signs Keep a safe distance from the vehicle in front Do not overtake if there is only one lane in each direction If necessary and possible, give first aid to injured people Do not turn or reverse. Do not stop, except in an emergency (Call for help from an emergency station What to do if your or another vehicle is on fire What to do in traffic congestion Switch on your warning lights If your vehicle is on fire, if possible drive out of the tunnel If that is not possible, pull over to the side, switch off the engine and Keep your distance, even if you are moving slowly or have stopped Switch off your engine, if the traffic has come to a halt 1 Call for help from an emergency station Listen to messages on the radio If you can, put out the fire using an extinguisher available in the tunnel Follow the instructions given by tunnel officials or obey variable If you can, give first aid to injured people Go, as soon as possible, to an emergency exit

Remember: Fire and smoke can kill - save your life, not your car!



■ No info■ EU Leaflet







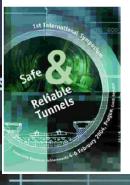
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for improved safety & reliability of tunnels

1st International Symposium 'Safe & Reliable Tunnels - Innovative European Achievements' 4-6 February 2004, Prague, Czech Republic

Reliable

Innovative European Achievements & ITA 2006, Lausanne 30-31 May 2006, Lausanne.

UPTUN ontology

"Meeting word"	Meaning	Anecdote
Motpakke (N)	Sandwich package	Specially made suit
Mist	Small droplets	Dung, manure
Loop	Circle,	Magnifying glass (NL)
Schlummertrunk	Night cap	After the meeting

Under construction









More information?

WWW.UPTUN.NET



support models; and knowledge transfer.

Click here to download a brief description of the UPTUN-project,

To develop, demonstrate and promote procedures for rational safety level evaluation, including decision







