

## **TERMS OF REFERENCE OF WP3**

Working package 3 aims at delivering a compilation of guidelines for fire safe design of road, rail and metro tunnels.

It includes 5 tasks:

- WP3.1: Listing of the relevant guidelines, regulations, standards or current best practices from European countries and other important tunnel countries like e.g. USA and Japan. Relevant documents from European or international organisations are also included (e.g. PIARC and UN/ECE).
- WP3.2: Definition of the essential parts of these documents, followed by a detailed comparison and discussion in a synthetic form.
- WP3.3: Information exchange with workpackages 2 and 4 by sending a copy of all intermediate documents delivered and lists of literature references.
- WP3.4: Redaction of a draft report of the compiled recommendations with a common part with WP2 and WP3 (safety approach, objectives, fire scenarios, etc.)
- WP3.5: Discussion, presentation at the FIT workshop, amendment, and final report

The workpackage mainly deals with mitigation measures and includes:

- Structural safety facilities (emergency exits, rescue teams access, safety niches, etc.)
- Safety equipment (power supply, ventilation / smoke control, signs, sensors, communication, monitoring, fire suppression, etc.)
- Reaction and resistance to fire of structures and equipment

The following topics should be dealt with in the common report with WP2 and WP4:

- Objectives for design and operation
- Integrated approach to safety in tunnels
- Cost versus safety
- Prevention, including geometrical design