

## Environment - Air Contamination - Tunnel

### Problem

A new urban road tunnel proposes to discharge its ventilation system near homes. Local community groups prepare to challenge the project through legal proceedings.

A delay in the project will jeopardise its viability. An earlier project was involved in the largest court case in the history of that country over tunnel air emissions. The risks are real and immediate.

Professor Dix initiates a world tunnel air technology review, while in parallel engaging a human respiratory health expert accredited with the WHO, a prominent atmospheric scientist, and advises the tunnel designers NOT to complete the ventilation design.

The Dix team develop a detailed understanding of both the relationship between human health and tunnel emissions. This data is then integrated with various design scenarios.

A revised tunnel ventilation design is formulated.

The revised design is publicized along with the substantive human health analysis. The environmental and health regulators are provided with the detailed analysis and design proposal for consideration.

### Outcome

No legal proceedings are initiated and the project proceeds on time.