





Training session 'Sustainability and eco-friendly tunnelling" 6th of September 2017

Palacio de Aguas Corrientes, Buenos Aires, Argentina

Objective: To provide an introduction to the environmental impacts of tunnel construction and operation and the way to adopt a more eco-friendly and sustainable approach to resource consumption. It will also outline the specific issues of the management of excavated material and give more details about methodologies and tools that can be used to assess environmental impacts.

September the 6th

Session 1: General overview of sustainable tunnelling and environmental impacts

09:00-09:15 Welcome and opening 09:15-10:00 Introduction to sustainability concepts – Levers for action (M. Deffayet) 10:00-10:45 Main environmental impacts of tunnel construction (R. Galler)

10:45-11:15 Coffee Break

11:15-12:00 Qualitative and quantitative methods of impact assessment (M. Deffayet) 12:00-13:00 Long term behaviour of support elements in tunnels (R. Galler)

13:00-14:00 Lunch

Session 2: The environmental issues of excavated material

14:00-14:30 European and national policies regarding extracted material from tunnelling (R. Galler) 14:30-15:15 Industrial classification of minerals – End users requirements (R. Galler) 15:15-16:00 Chemical and physical characterization of excavated material (R. Galler)

16:00-16:30 Coffee Break

Session 3 : Life cycle management of tunnel structure and equipment

16:30-17:30 Maintenance plans for tunnels including structure and equipment (M. Deffayet) 17:30-18:00 Open discussion and closure (M. Deffayet)