



# WG 21 – Life Cycle Asset Management

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ITA-AITES  
**WTC2023**

**EXPANDING UNDERGROUND**

Knowledge & Passion to Make a Positive Impact on the World

**12 – 18 May 2023**  
Megaron Athens International  
Conference Centre  
Athens – Greece

## Actions:

- Coordination with WG22 (Information Modelling)
- Participation to ITA CET Training Course 2023
- Curation / delivery of Lunchtime lecture series #26
- 4 group meetings since last WTC

## Objectives of report:

- Fundamentals of life-cycle management of tunnels – focus on operation lifetime, various tunnel components (structural, MEP) and tunnel types
- Collection of data from various countries/owners:
  - ✓ Nominal service lives
  - ✓ Typical monitoring/inspection and maintenance/repair intervals
- Appendix: State-of-art case studies



# Request for support:

- Data from all member nations
- Several owner/operators organisations per member
- Minimal effort survey to be circulated

Country: Albania, Algeria, Argentina, Australia, Austria, Azerbaijan,....  
 Tunnel: Road/Rail/Metro/Sewage/Water/Pedestrian/Power/...  
 Entrant: Owner/Operator/Concessionaire/Central government/Municipality/....

Component	Nom. operational life	Inspection interval	Planned maintenance
<b>Structural</b>	(years)		(years)
Primary	120	10 yrs	20
Secondary	120	Permanent	40
Segmental	N/A	N/A	N/A
Suspended ceiling	50	2 yrs	15
Invert	...	2 yrs	40
Structural fixings	...	...	....
...			
<b>Technical</b>			
Sprinklers	30	Permanent	5
Water supply	50	6 month	12
Drainage	50	6 month	10
Pumps	N/A	N/A	N/A
Ventilators	...		
Lighting	...		
Signalling			
Communications			
Non-structural fixings			
....			

