The Gotthard Base Tunnel
Dieter Schwank
CEO
AlpTransit Gotthard Ltd

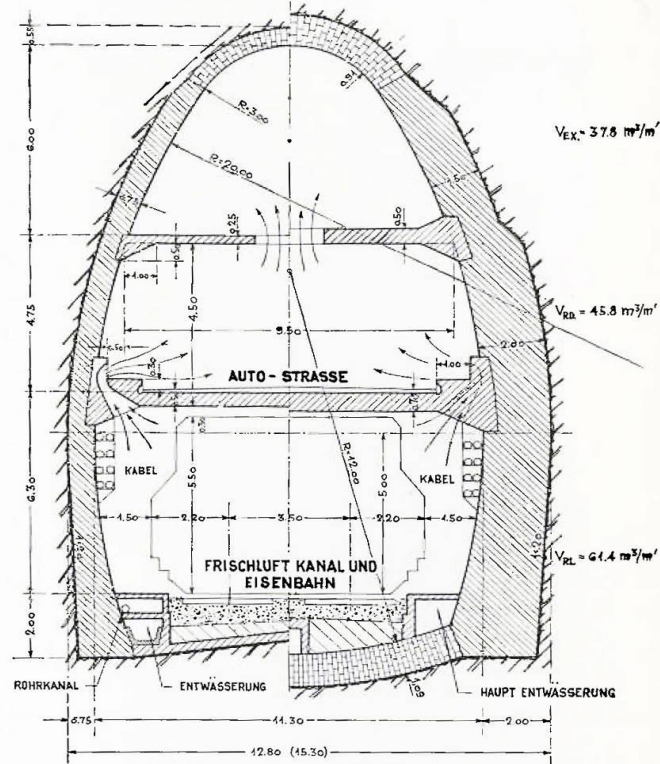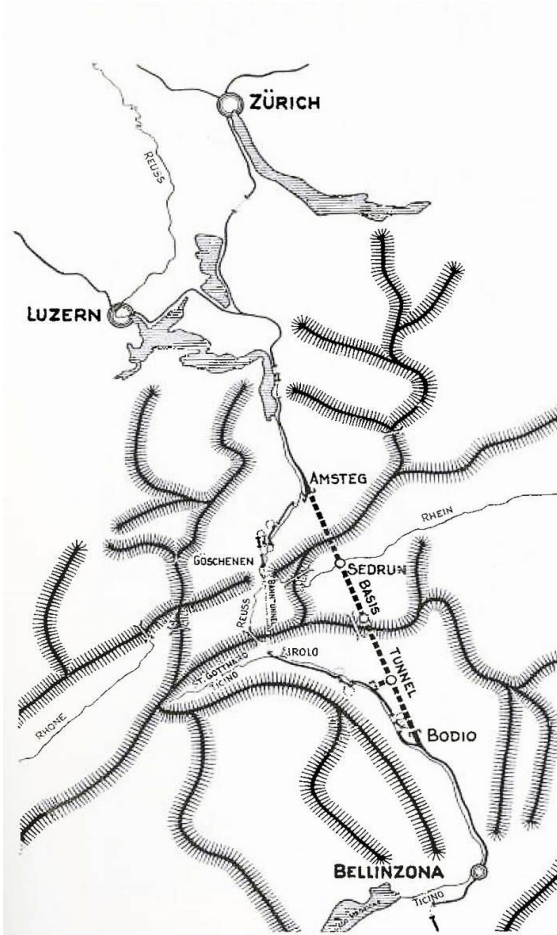# The Gotthard Base Tunnel

- concept
- challenges
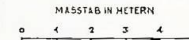- key success factors

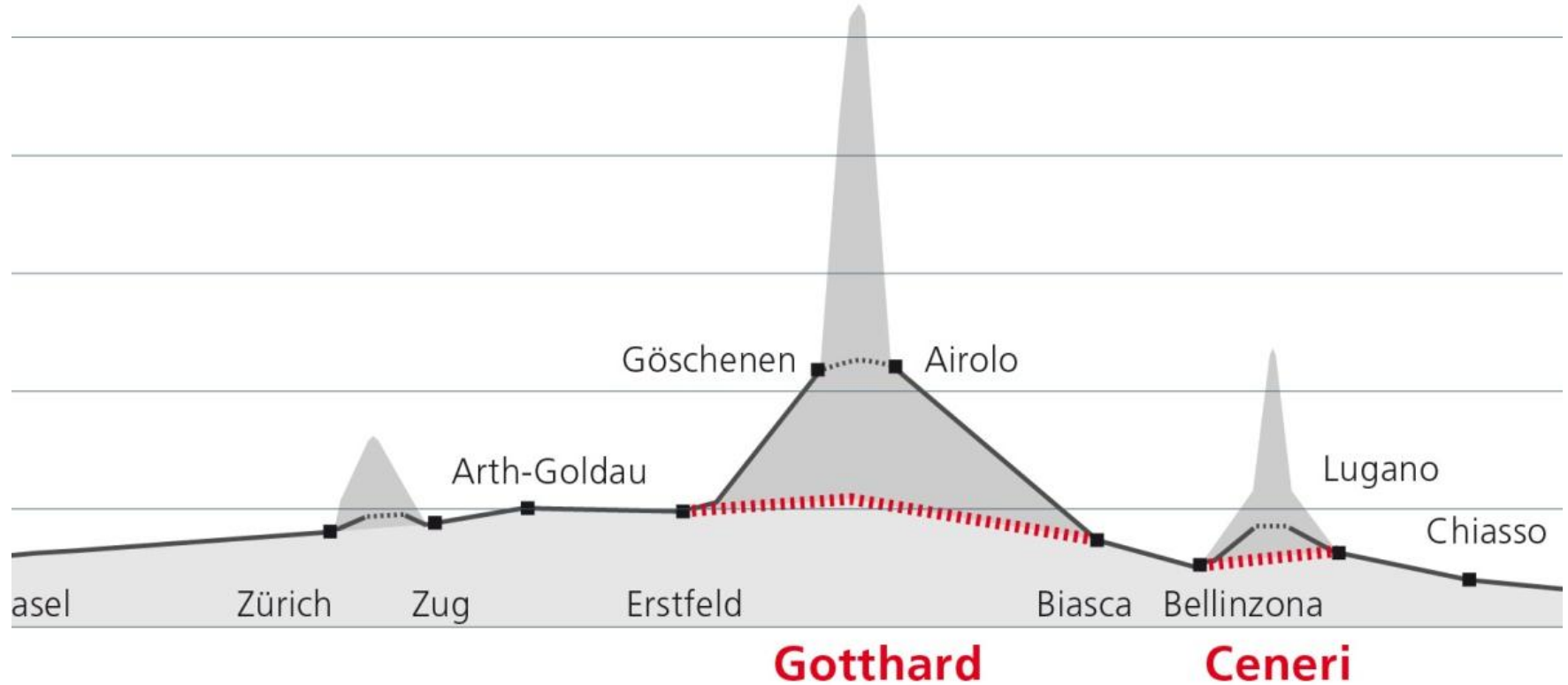LZ-591976

concept: vision of Eng. Carl Eduard Gruner (1947)

The Gotthard Base Tunnel

concept: flat route through the Alps

concept: tunnel system

Shafts Sedrun

Multifunction station

Emergency stop station

shaft II

shaft I

Access tunnel Faido

Multifunction station

Emergency stop station
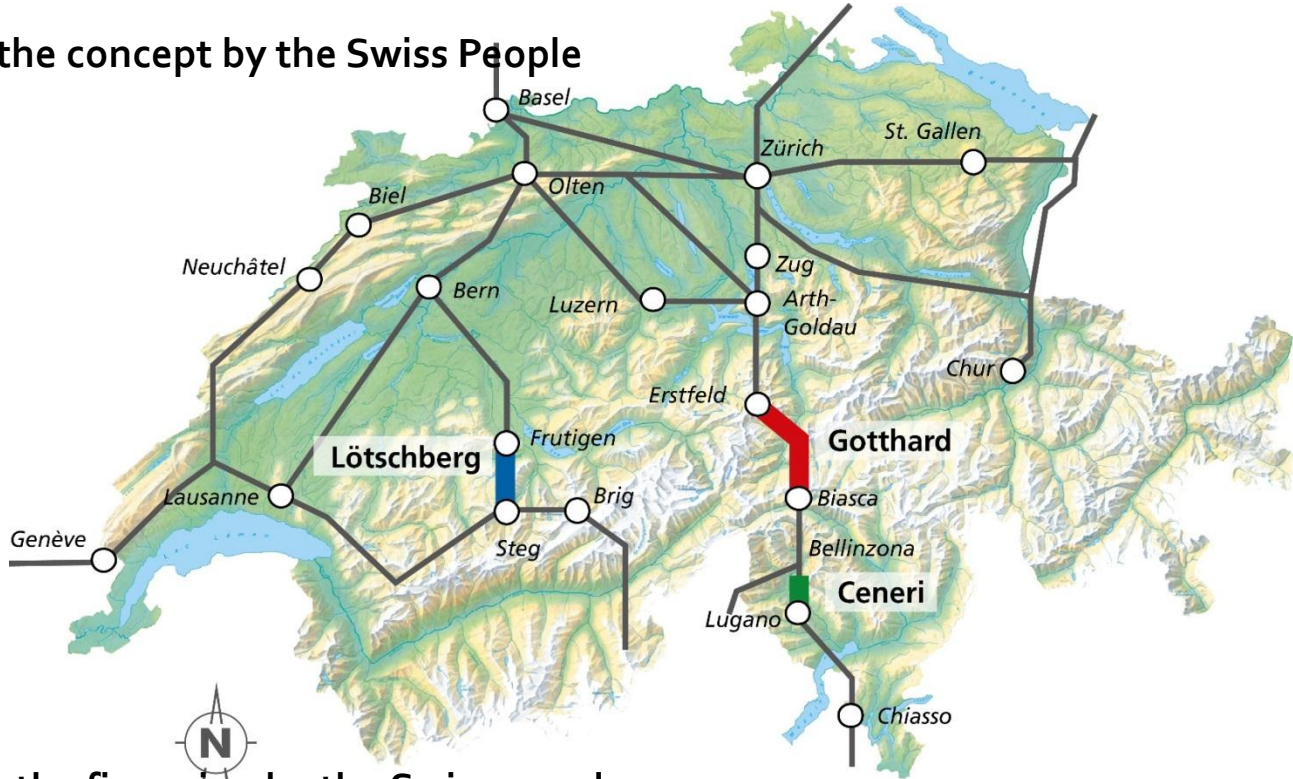
Emergency stop station

Cable tunnel

Cross passage

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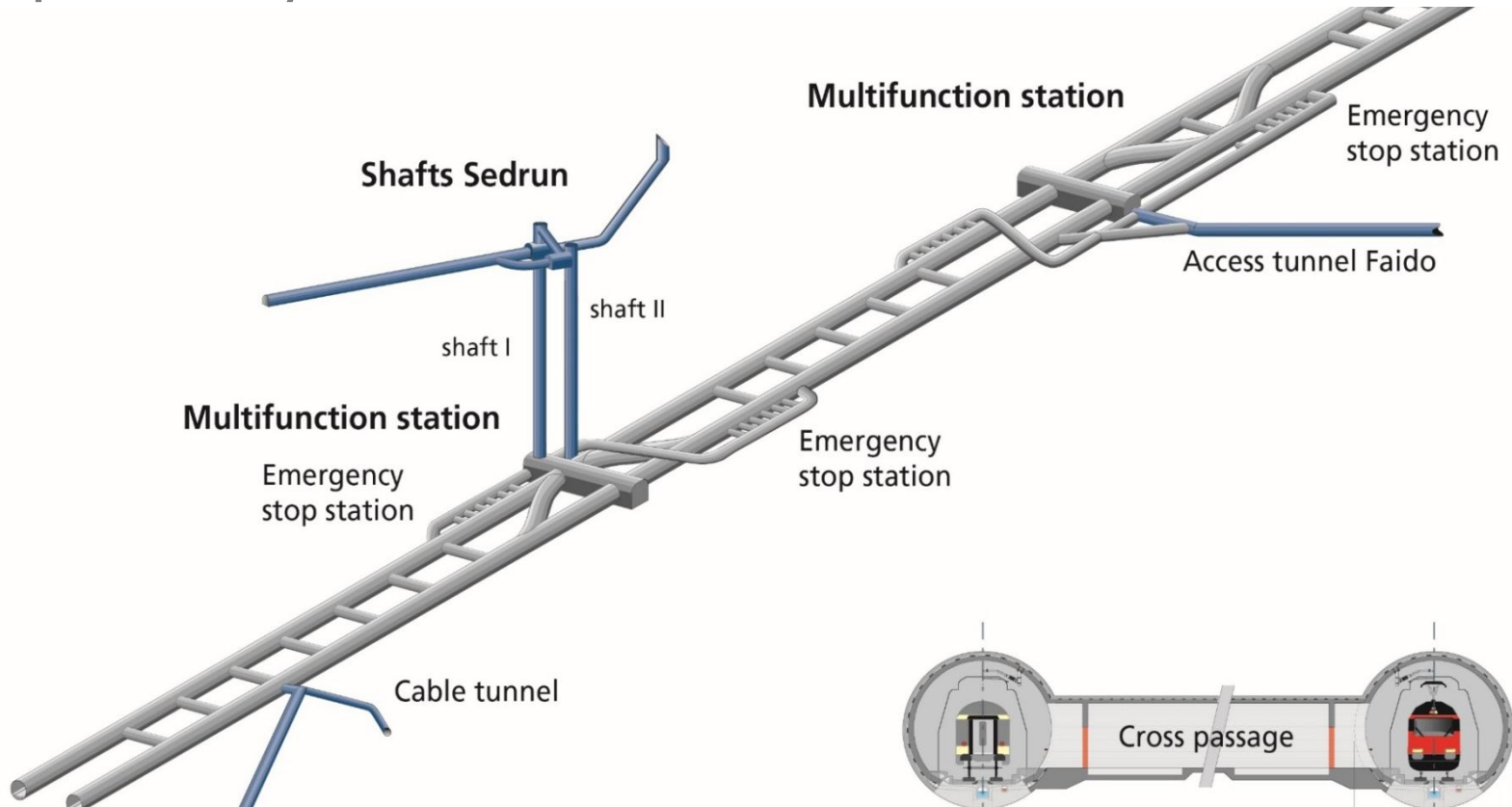
The Gotthard Base Tunnel

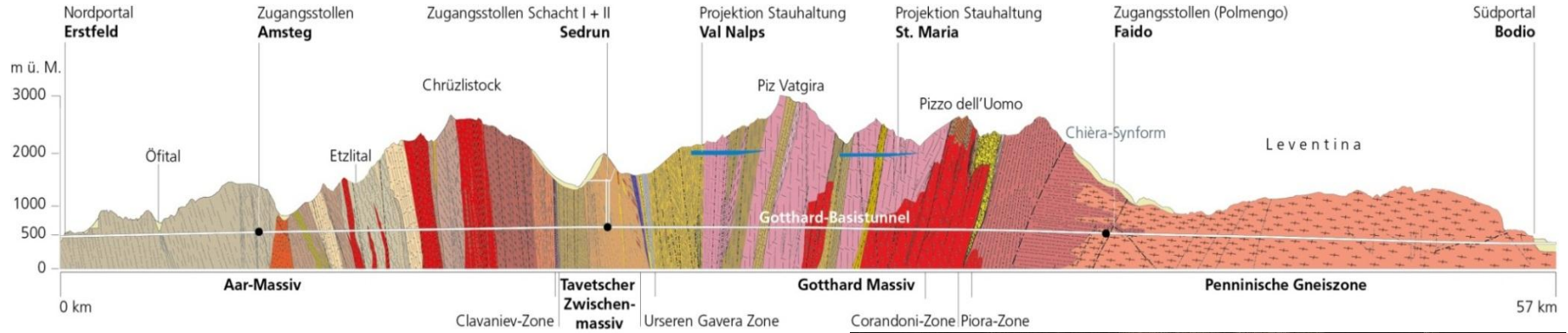## challenge: political process

- **1992 approval to the concept by the Swiss People**

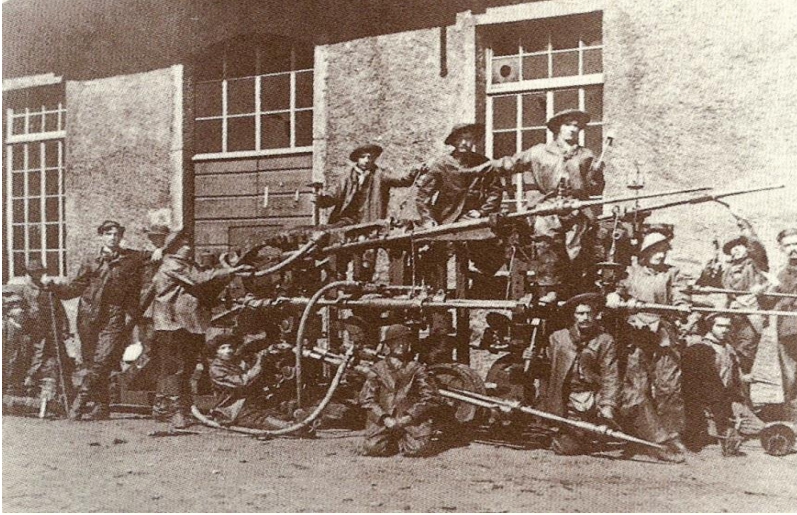- **1998 approval to the financing by the Swiss people**

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The Gotthard Base Tunnel

challenge: geology

challenge: technics

The Gotthard Base Tunnel

challenge: spoil management

28,2 million metric tons ≅ 7160 km

Chicago

North Atlantic Ocean

Zurich

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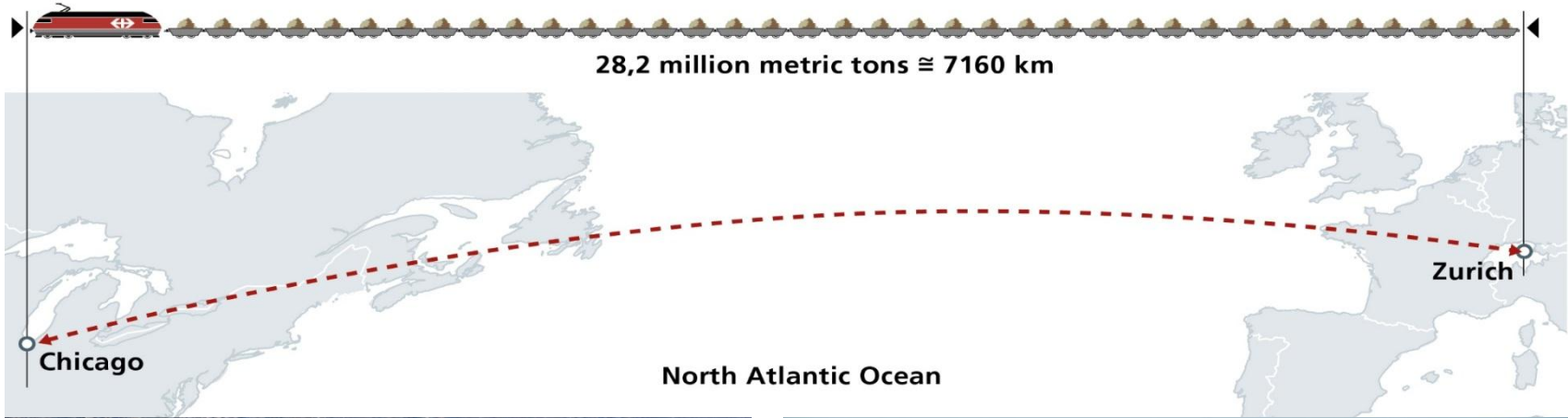
challenge: procurement and contracts

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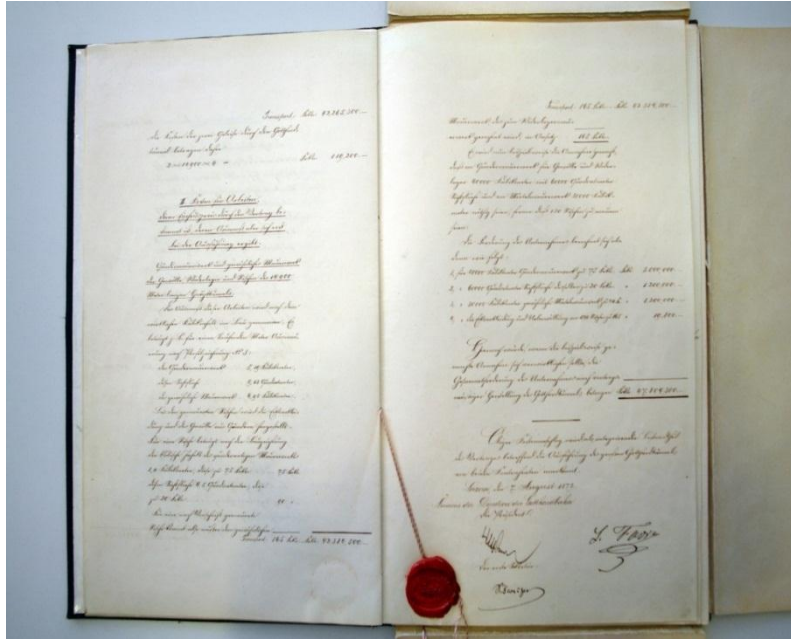
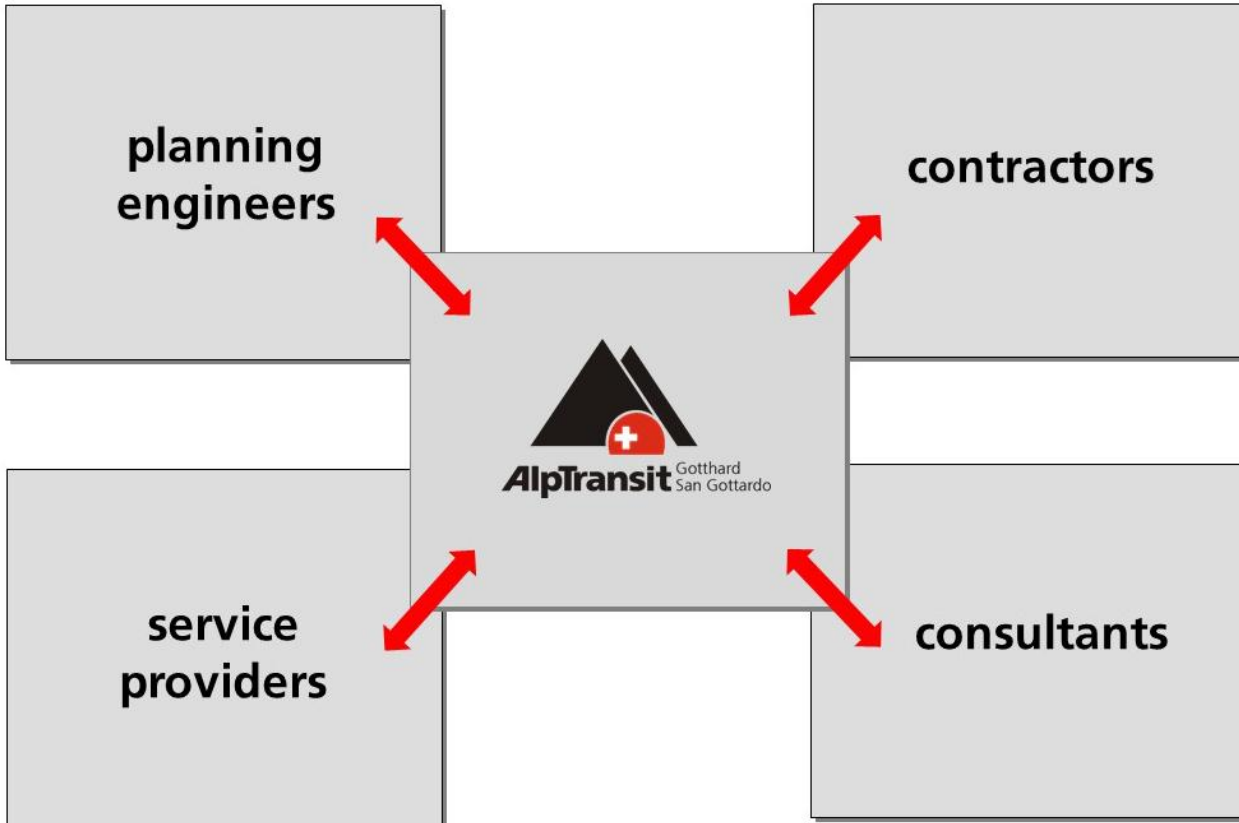## challenge: environment and ecology

The Gotthard Base Tunnel

key success factor: business model

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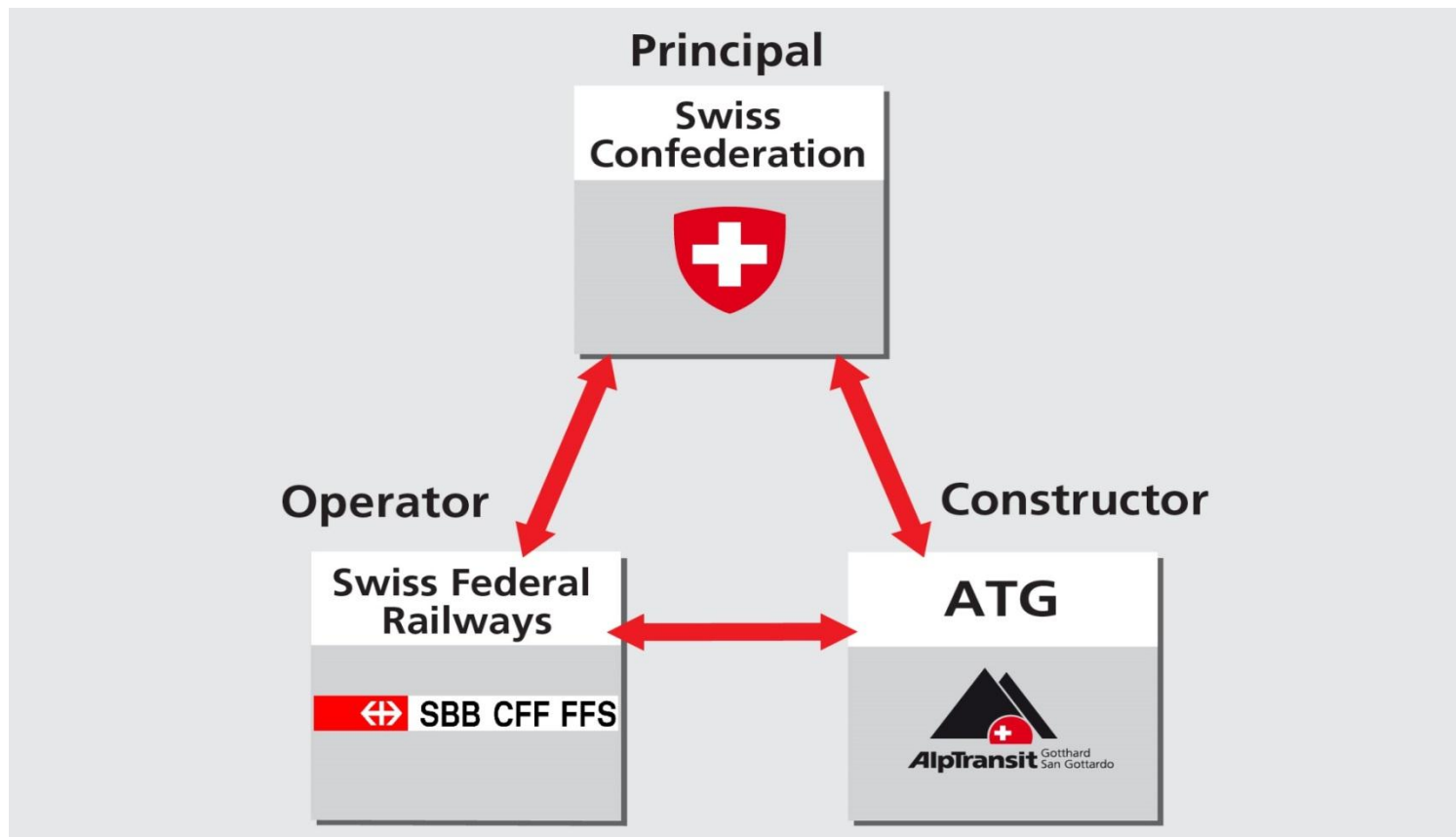
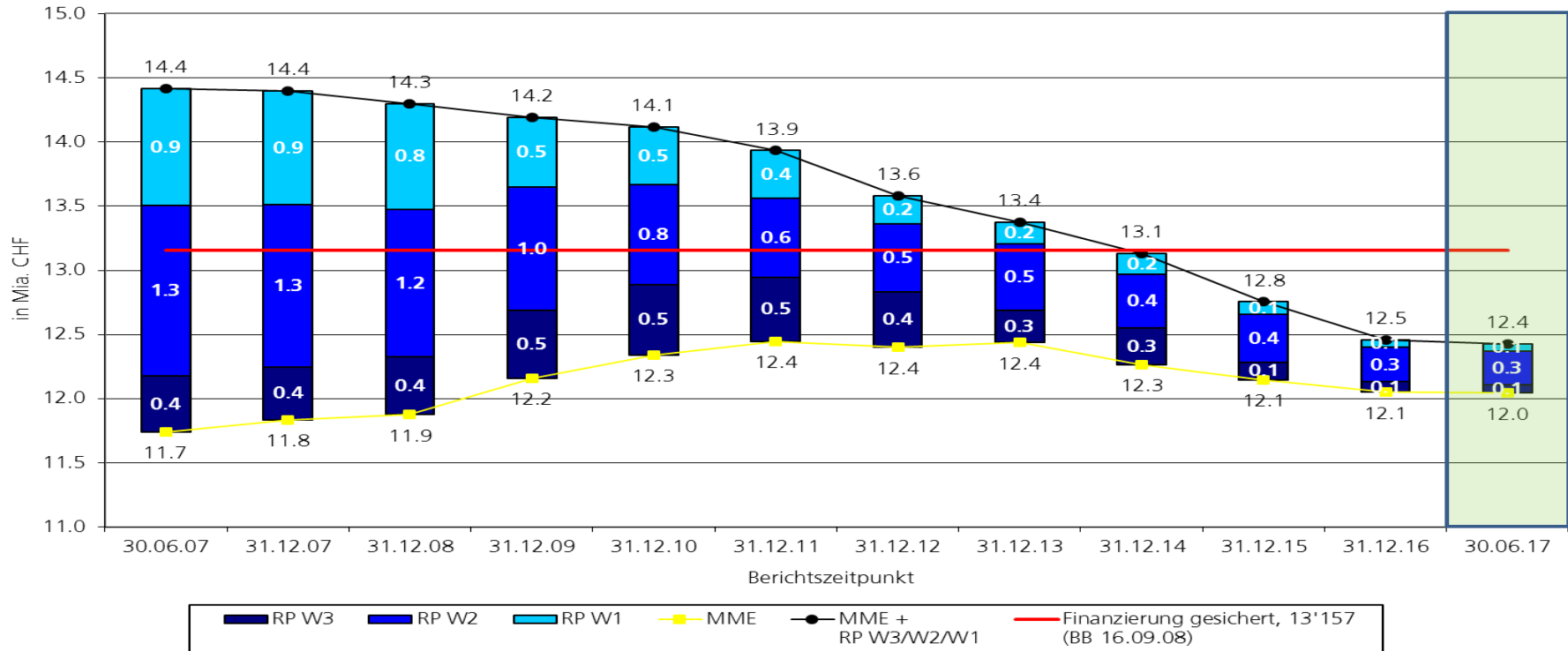## key succcess factor: focus on project management

The Gotthard Base Tunnel

key success factor: internal cost and risk control

Entwicklung mutmassliche Endkosten (MME) und Risikopotenziale (RP) (Gefahren – Chancen),
auf CHF 100 Mio. gerundet (Stand 30.06.2017)

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key success factor: external project control

- politically: by a special commission of the Swiss Parliament

- legally: by approvals of the Federal Authorities

- technically: by independent experts

- financially: by audits

- in quality: by ISO certification

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key success factor: transparency and communication

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key success factor: people

The Gotthard Base Tunnel

next step: Ceneri Base Tunnel 2020

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next step: Ceneri Base Tunnel 2020

Thank you very much for your attention !

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