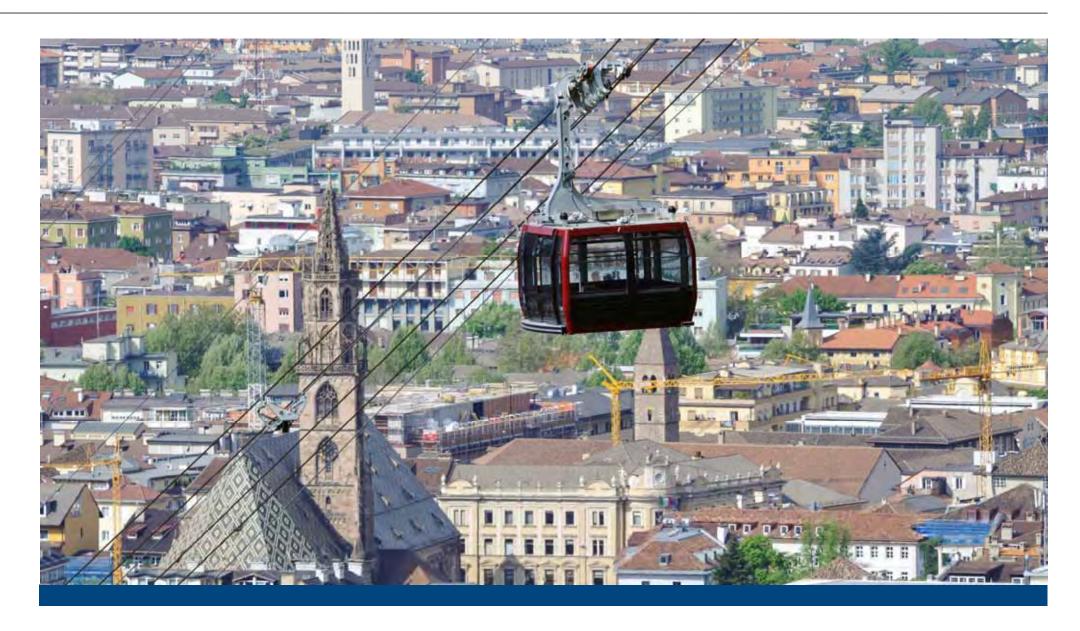
3S RENON, BOLZANO, ITALY – A SUCCESS STORY





3S RENON, BOLZANO, ITALY – A SUCCESS STORY



In the heart of the Alps

The historical context

Why 3S?

The PPP (Private – Public – Partnership)

The Construction

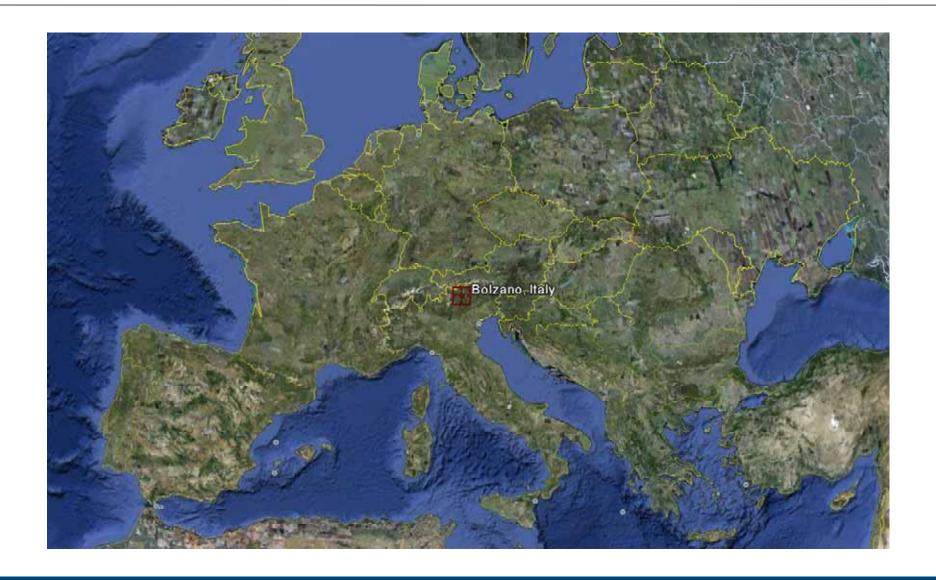
The Technology

The Architecture

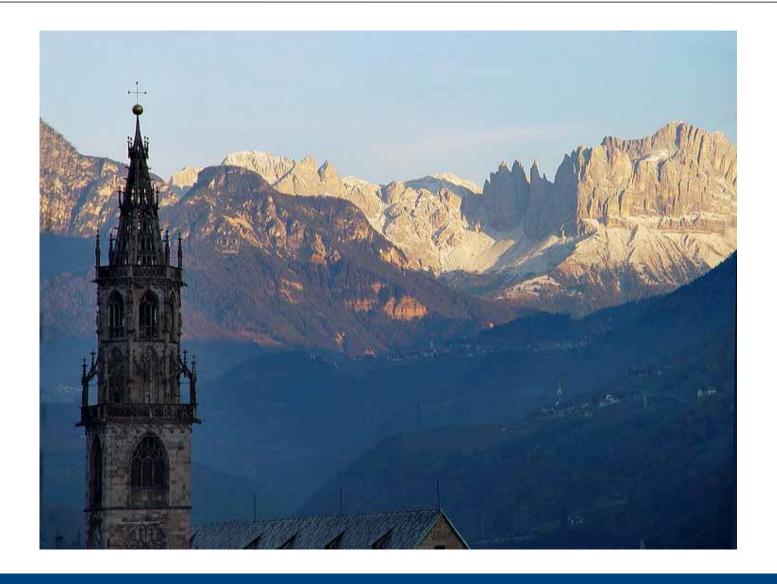
The Operation

"The" success Story





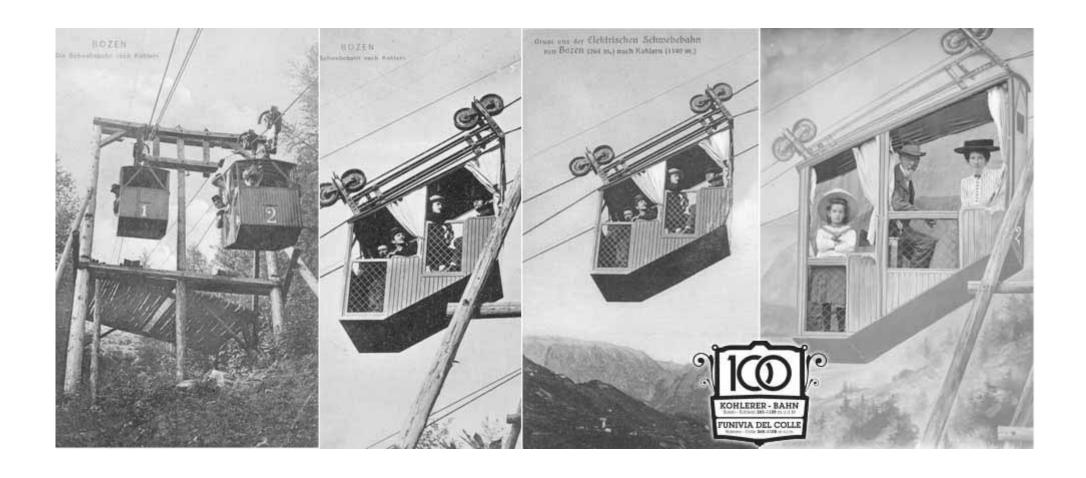




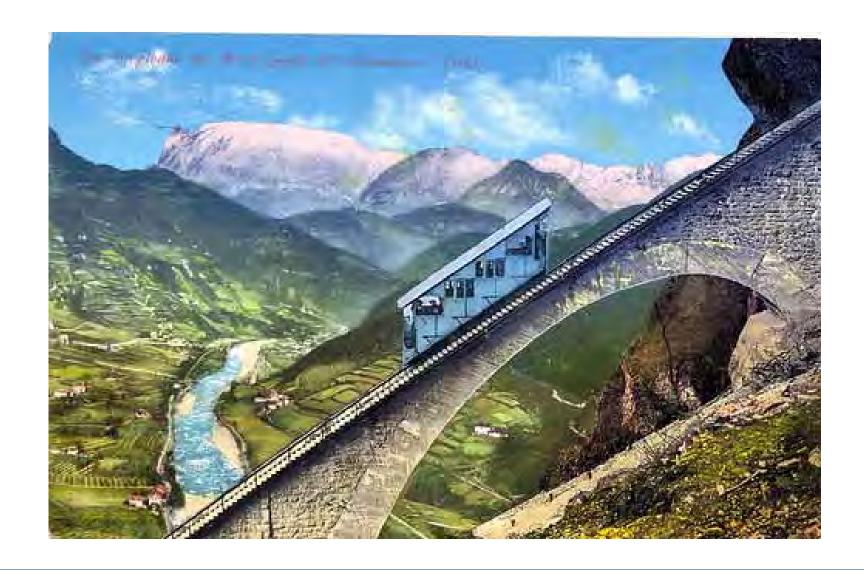




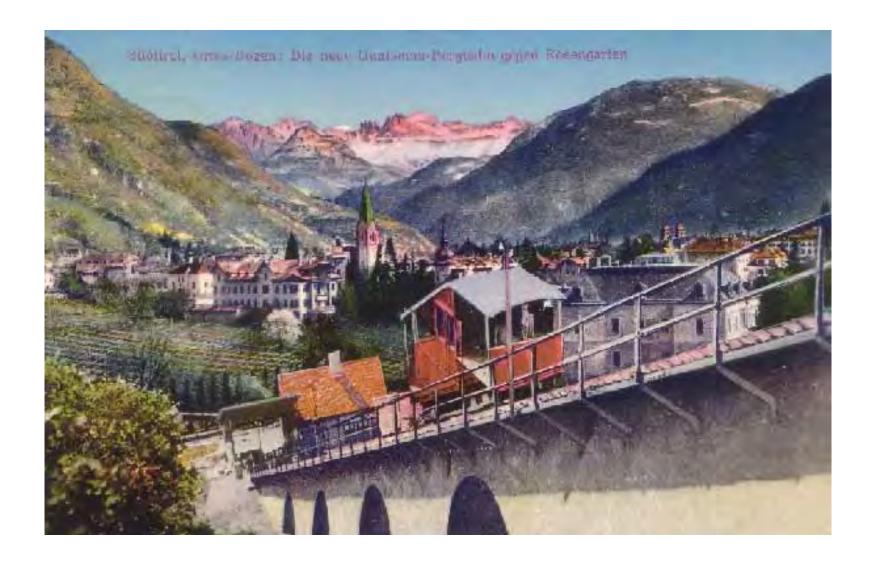




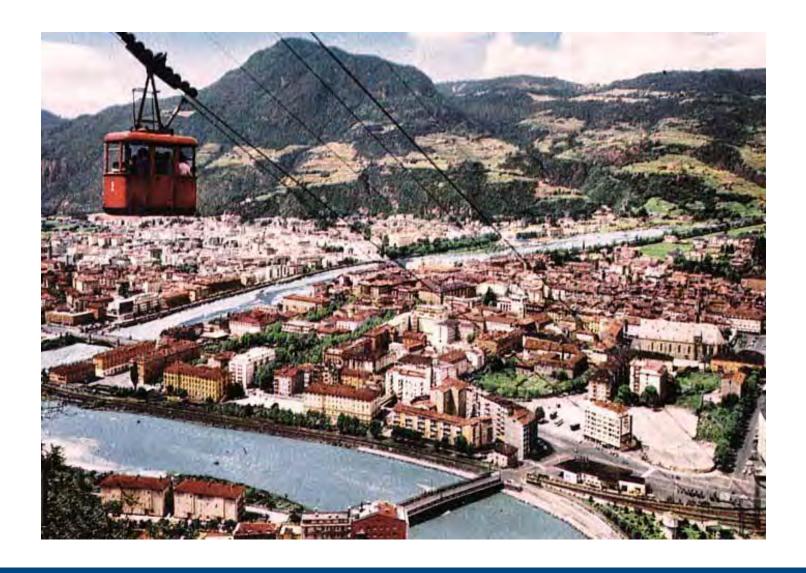








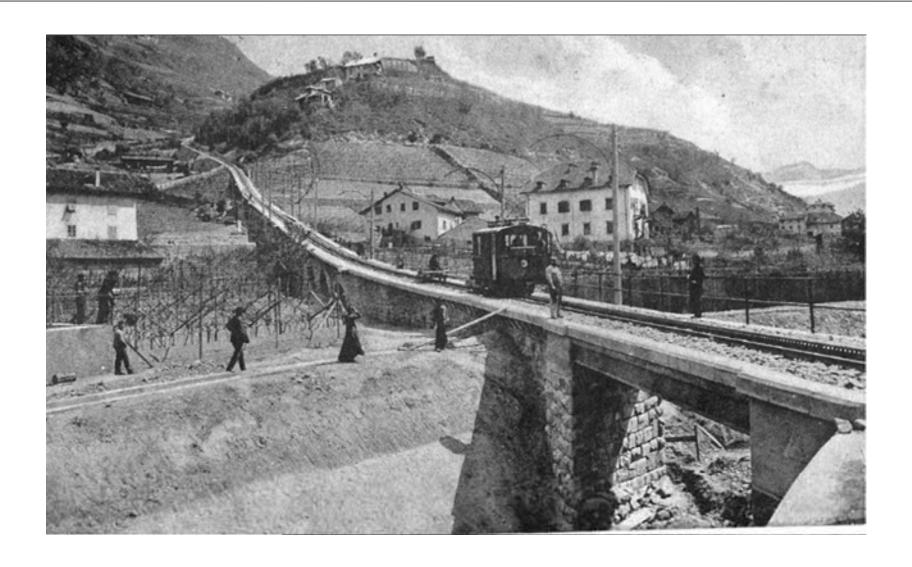














THE HISTORICAL CONTEXT





Tramway 1966 - 2007

HISTORICAL CONTEXT









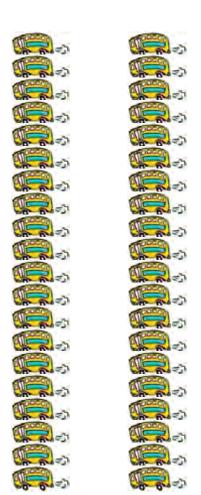


about 40 busses daily

Previous capacity 250 p/h



Required capacity 550 p/h 735 p/h



about 88 busses daily



about 120 busses daily



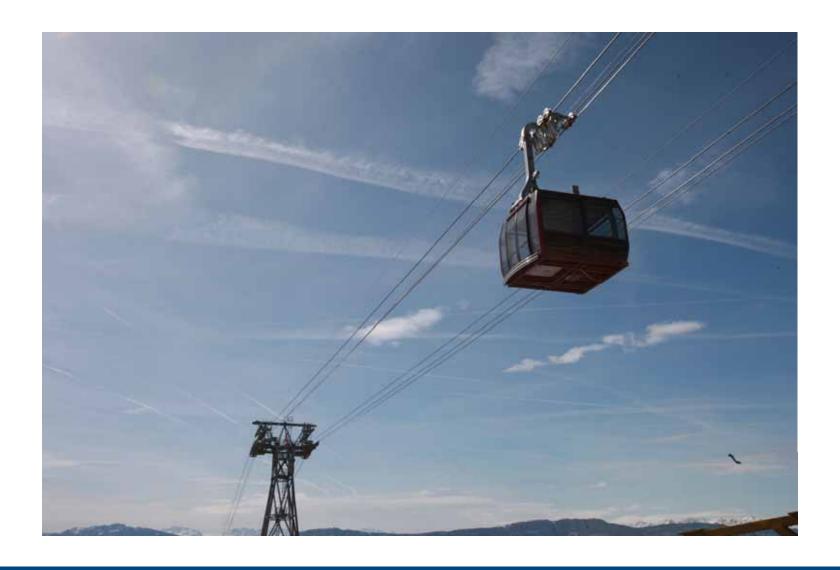
WHY 3S?



Increase of capacity

Improvement of line safety









Improvement of line safety

High frequency





Top Station

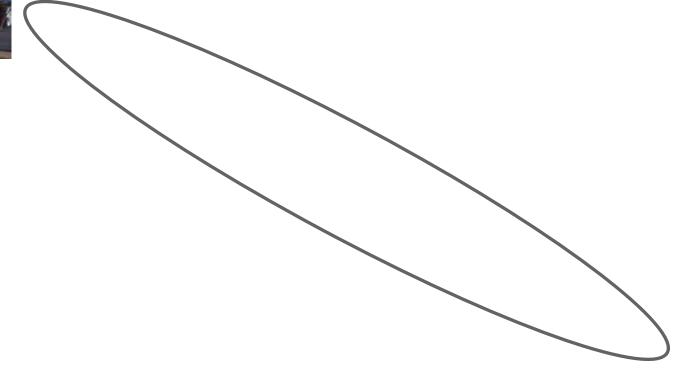








Top Station



Bottom Station







Improvement of line safety

High frequency

Possibility of line extention









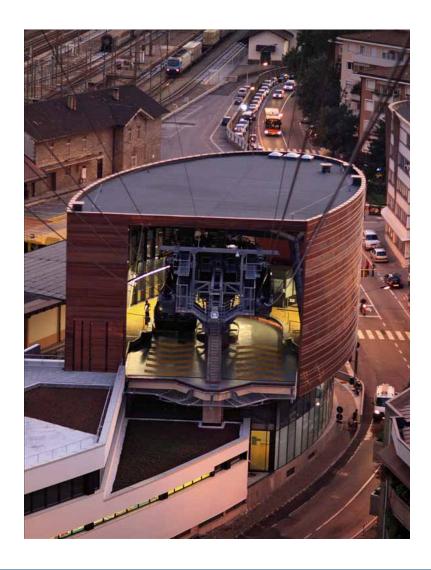
Improvement of line safety

High frequency

Possibility of line extention

Limited station dimensions







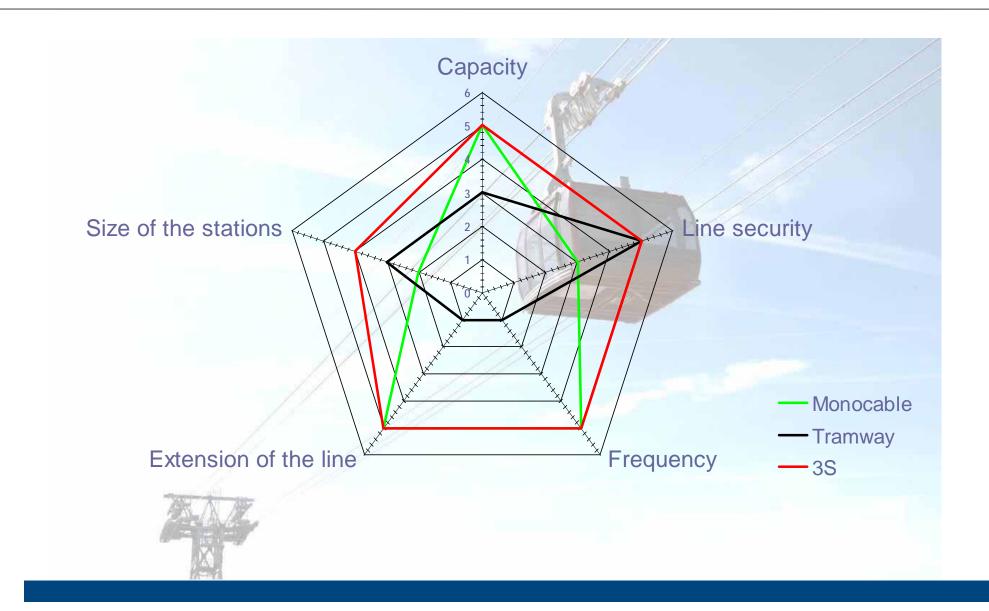


WHY 3S?











THE PPP (Private – Public – Partnership)









THE PPP (Private – Public – Partnership)





THE PPP (Private – Public – Partnership)





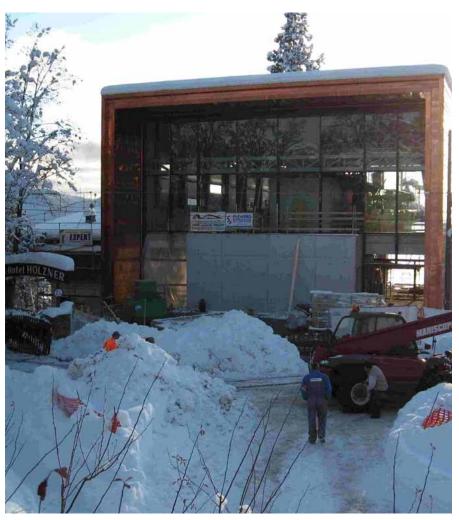


















OPENING – 23th May 2009





OPENING – 23th May 2009





THE TECHNOLOGY – TECHNICAL DATA

Drive stationon the top

Return station at the bottom

Horizontal length4.379 m

■ Vertical rise 949 m

■ Capacity 550 P/h

Number of cabins8 - 35 persons (28 seated)

Designed capacity735 P/h (with 10 cabins)

■ Travel time approx. 12 min

Departure interval approx. 4 min

■ Line speed 3 – 7 m/s

■ Installed power 2 x 350 kW

Numbers of towers7

■ Diameter of carrying rope 4 x 46 mm (anchored)

■ Diameter of hauling rope 40 mm (anchored)

Storage in the stations (4 in the top station and 4 in the bottom station)



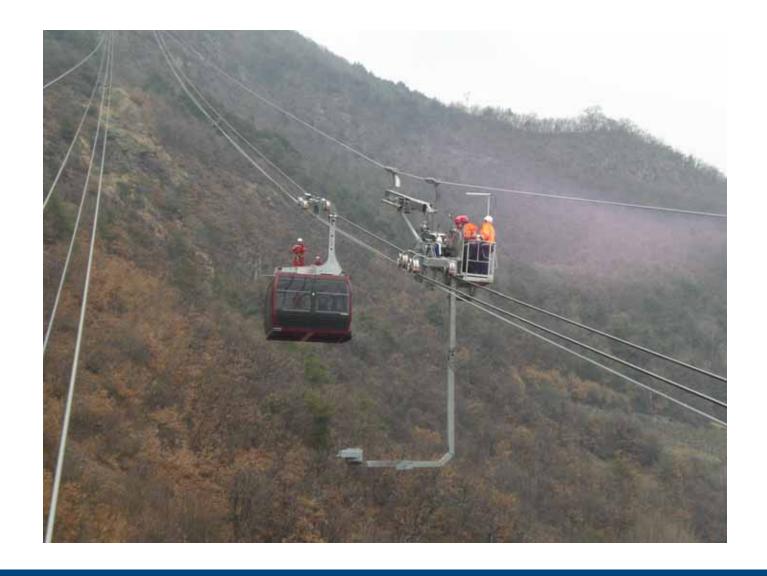
THE TECHNOLOGY – RESCUE SYSTEM





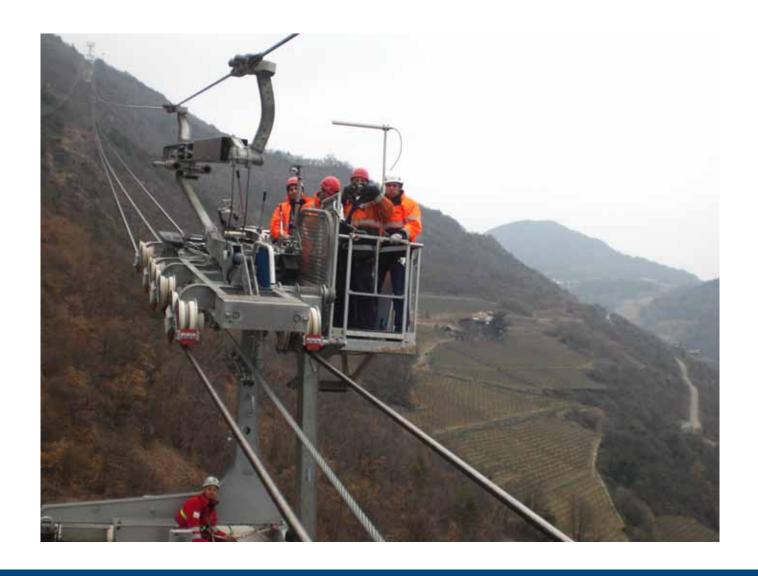


THE TECHNOLOGY – RESCUE SYSTEM



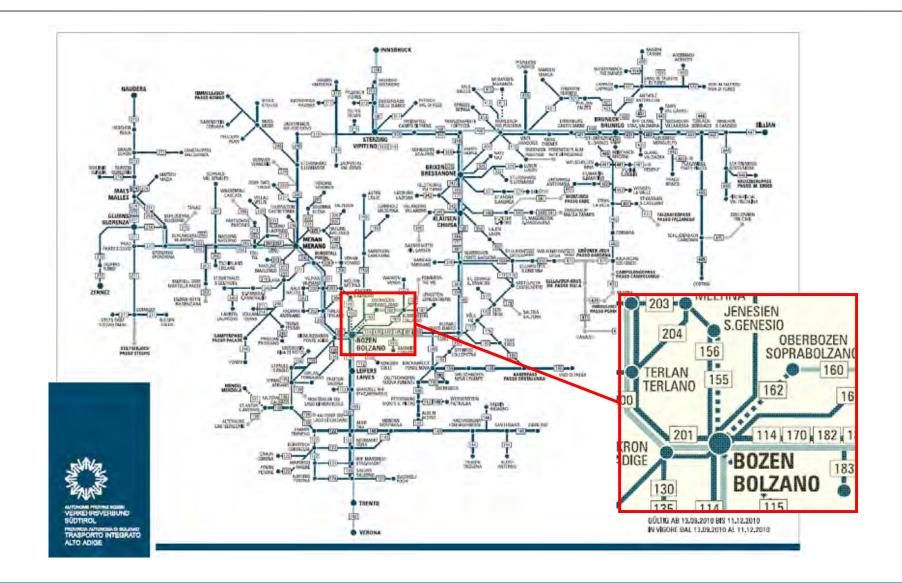


THE TECHNOLOGY – RESCUE SYSTEM





THE OPERATION





THE OPERATION

162 SEILBAHN RITTEN FUNIVIA RENON



Werktage								Giorni feriali
Durchgehender Betrieb	06.30		21.00					Orario continuato
Fahrten um	21.12		21.24	21.36	21.48			Corse alle ore
Letzte Fahrt um	22.38 (Ankunft /arrivo h. 23.00)							Ultima corsa alle ore
Sonn- und Feiertage								Giorni festivi
Durchgehender Betrieb	07.10		21.00					Orario continuato
Fahrten um	21.12		21.24	21.36	21.48			Corse alle ore
Letzte Fahrt um	22.38 (Ankunft /arrivo h. 23.00)							Ultima corsa alle ore

FAHRTDAUER / TEMPO DI PERCORRENZA 12 MIN.

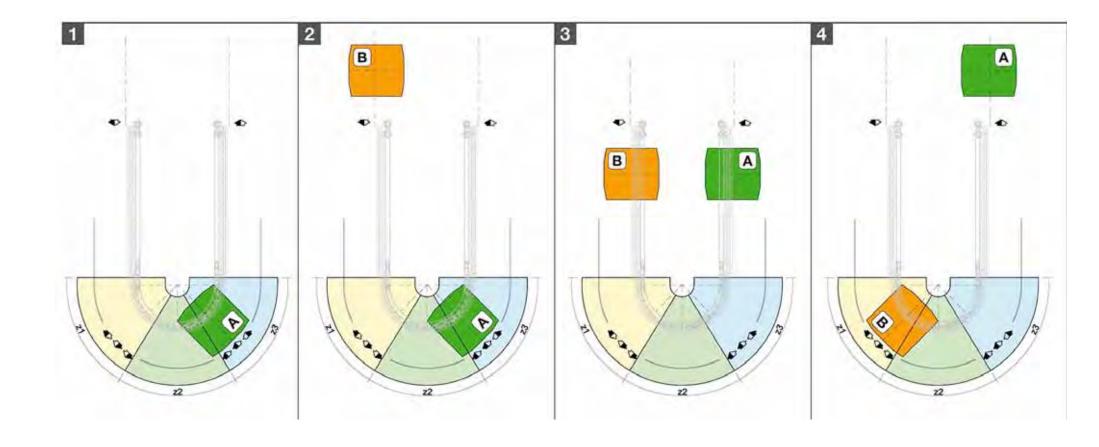


THE OPERATION



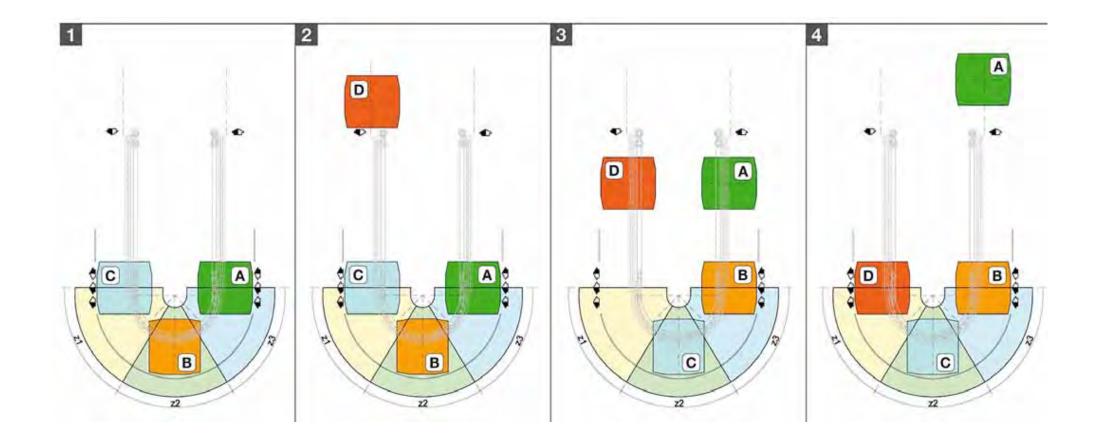


THE OPERATION – REGULAR OPERATION





THE OPERATION – REDUCED OPERATION



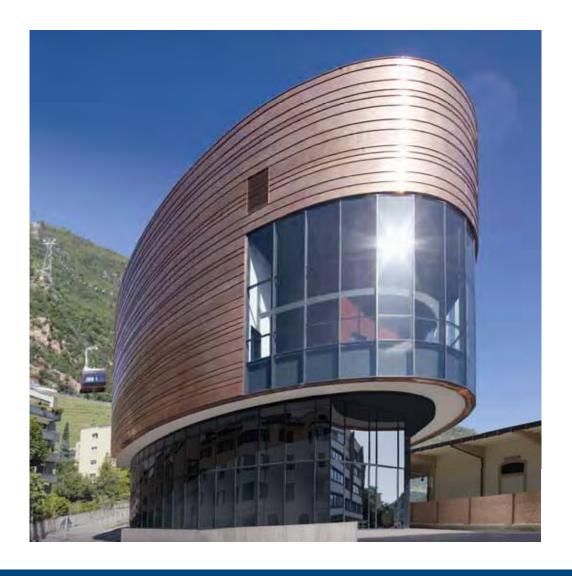


















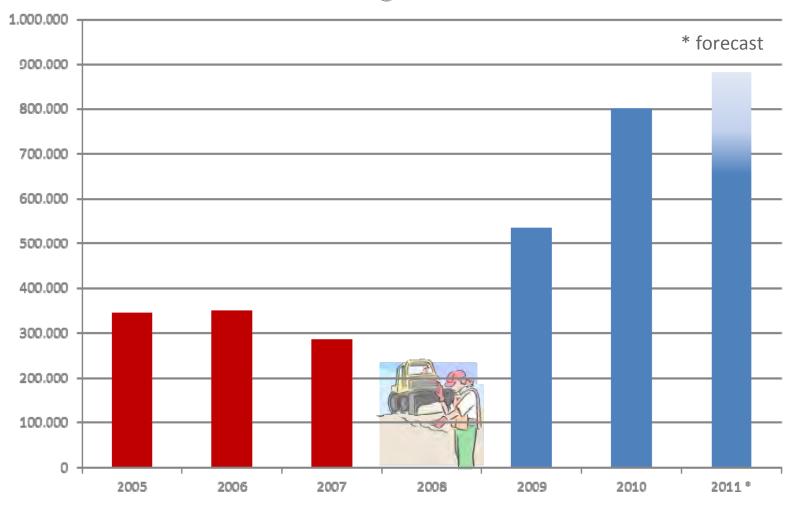






"THE" SUCCESS STORY - PASSENGERS

Passengers / Year





"THE" SUCCESS STORY - TECHNOLOGY

Innovative

Comfortable





Safe

Flexible







"THE" SUCCESS STORY - THE SOCIO-URBANISTIC IMPROVEMENT





"THE" SUCCESS STORY - THE SOCIO-URBANISTIC IMPROVEMENT







Thank you for your attention.











