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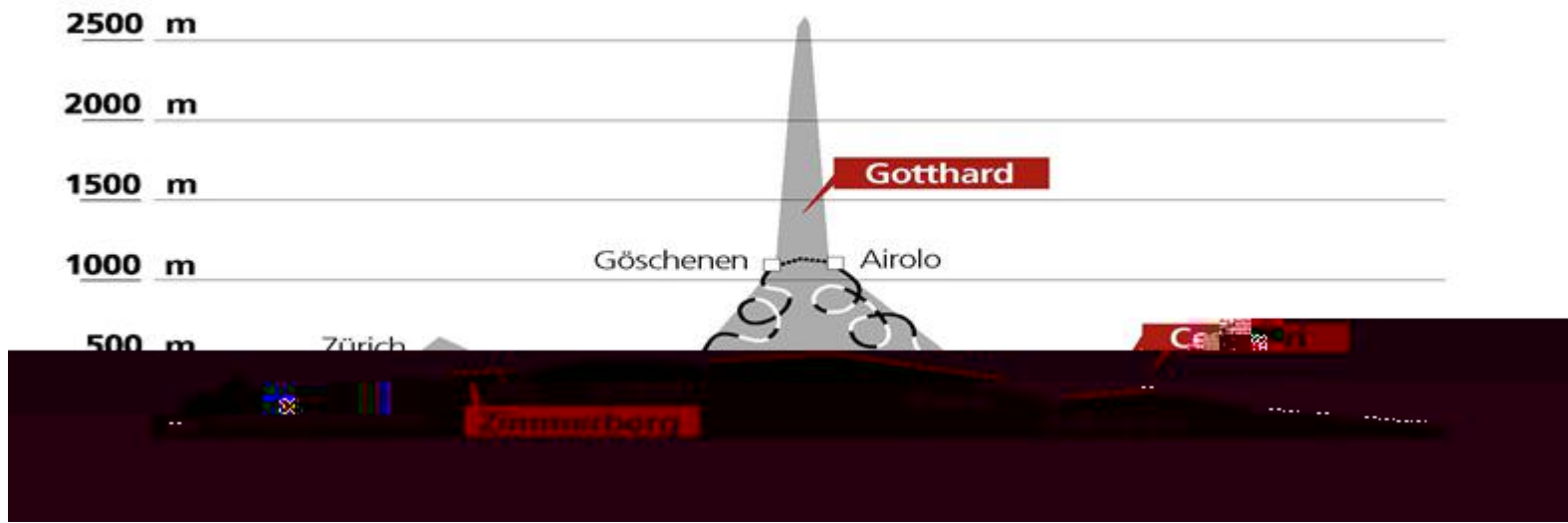


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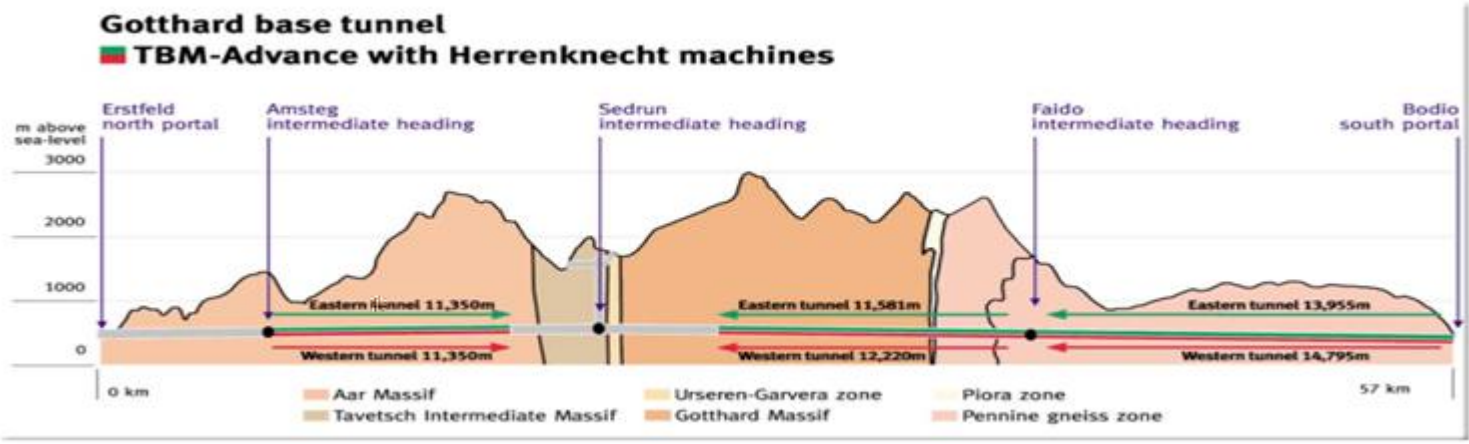


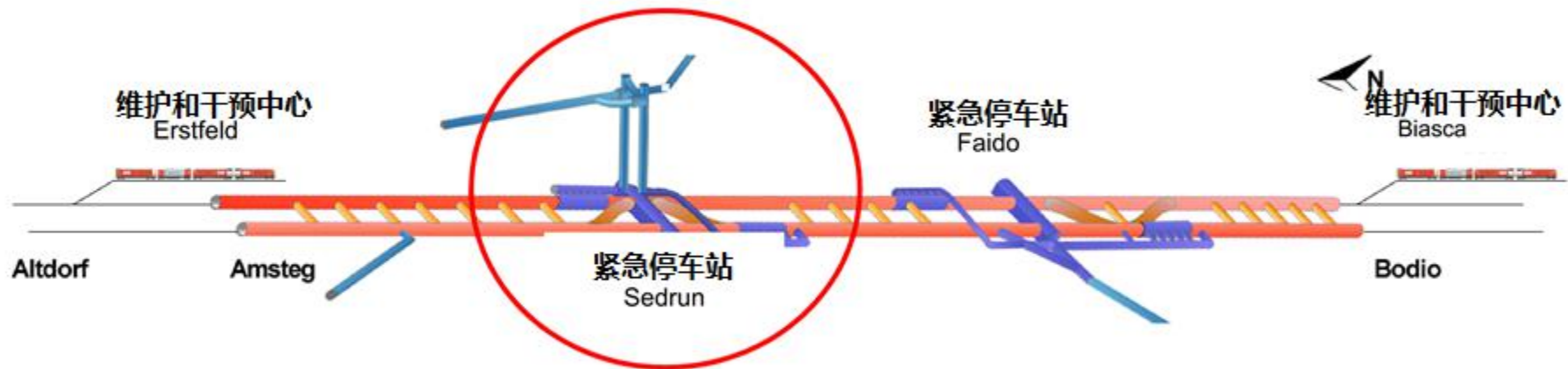
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Gotthard base tunnel

TBM-Advance with Herrenknecht machines





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NORDPORTAL INNSBRUCK
PORTALE NORD INNSBRUCK

INNSBRUCK

TUNNEL UND INFRASTRUKTUR
CURTICE DI BOZCO (IT)

UMFAHRUNG INNSBRUCK
CIRCONVALLAZIONE INNSBRUCK

长度 55.4 km

隧道

奥地利

设计时速 350 km/h

电力牵引 25 kV 60 Hz

多功能区 ($i < 20$)

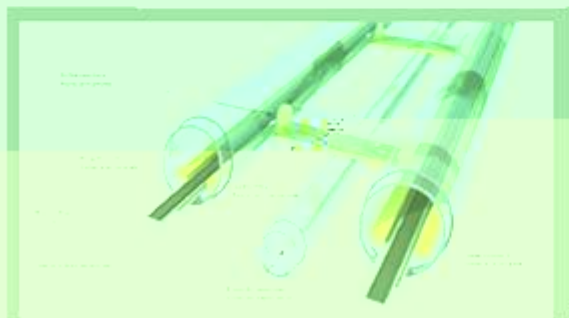
(m)

TUNNELS
PER TAVOLANERA
E TAVOLANERA

UMFAHRUNG
INNSBRUCK

UMFAHRUNG
INNSBRUCK

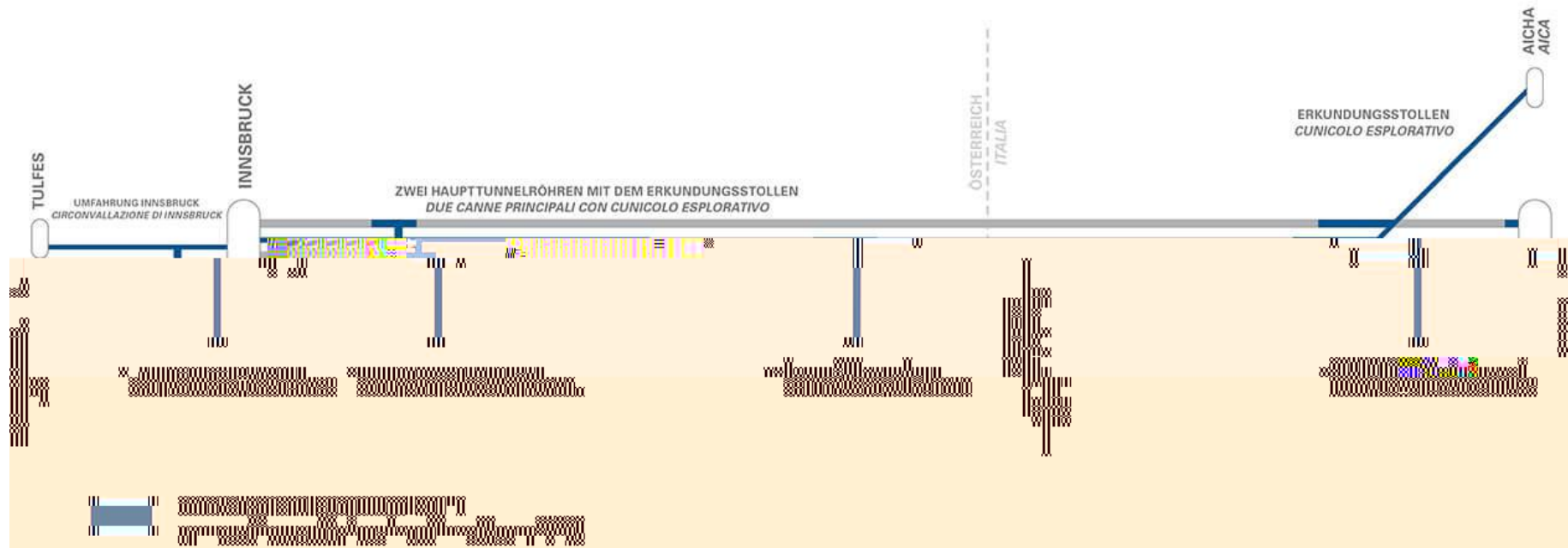
SCALE
MAX 4.5

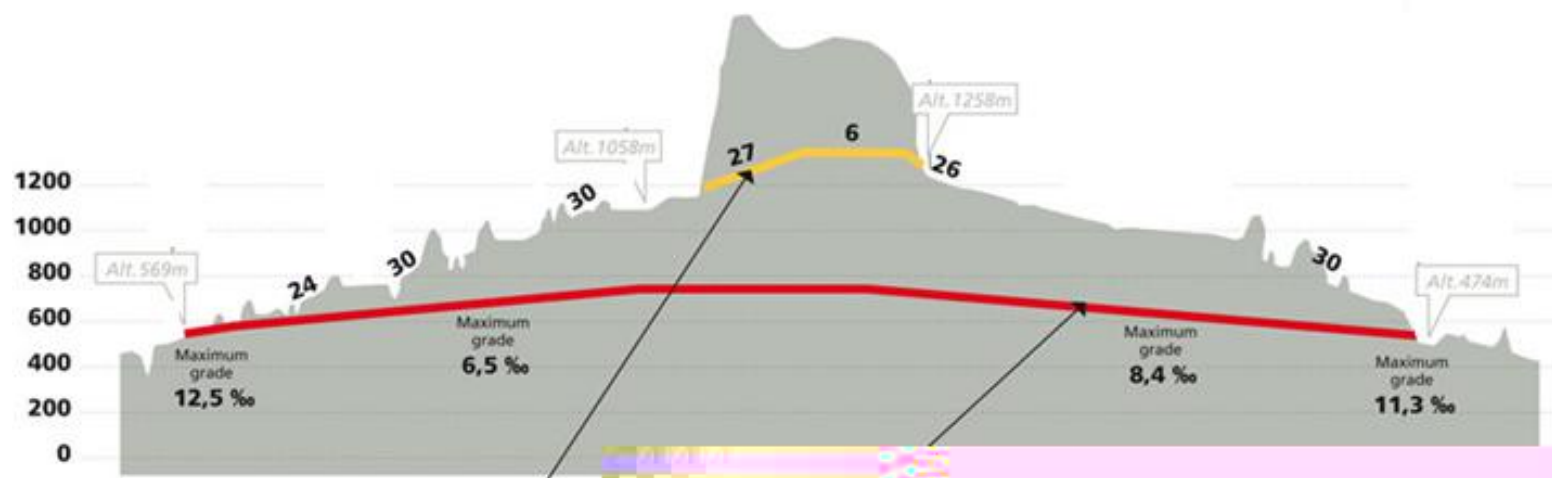


SUDPORTAL FRANZENSFESTE
PORTALE SUD FORTEZZA

意大利

(m)





既有隧道

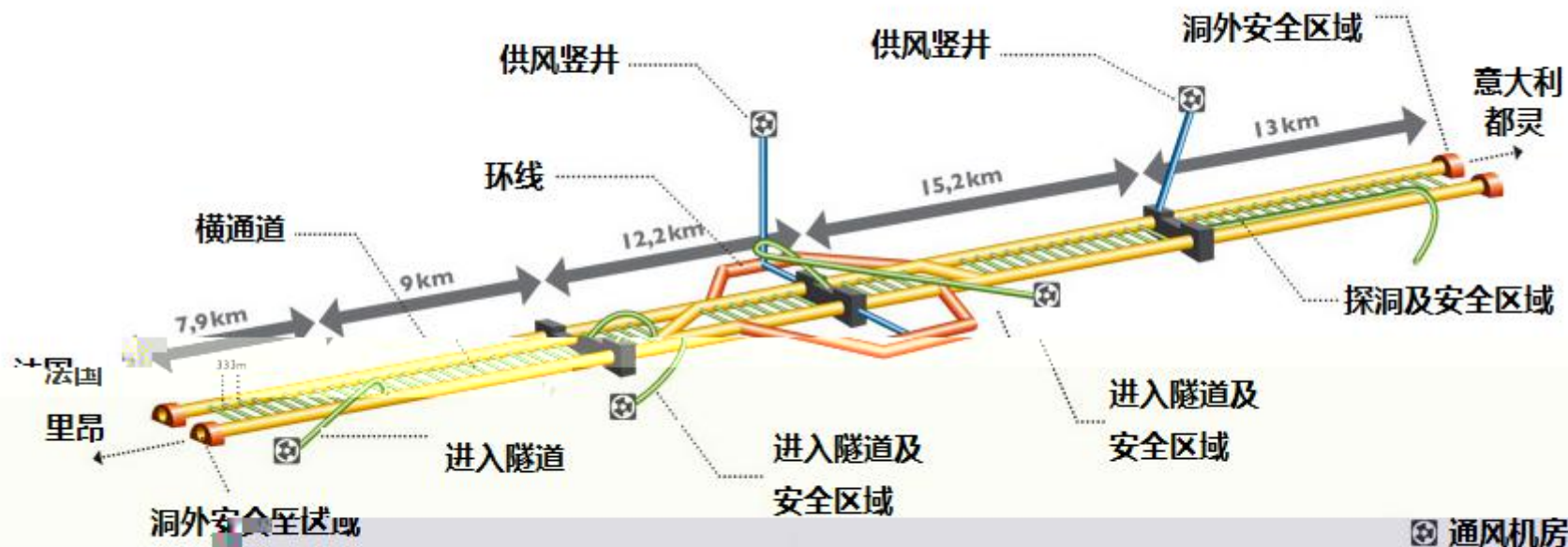
最大坡度

新建隧道

最大坡度

既有隧道 (14 km)

山底隧道 (57 km)



2.1

2.2



2.3

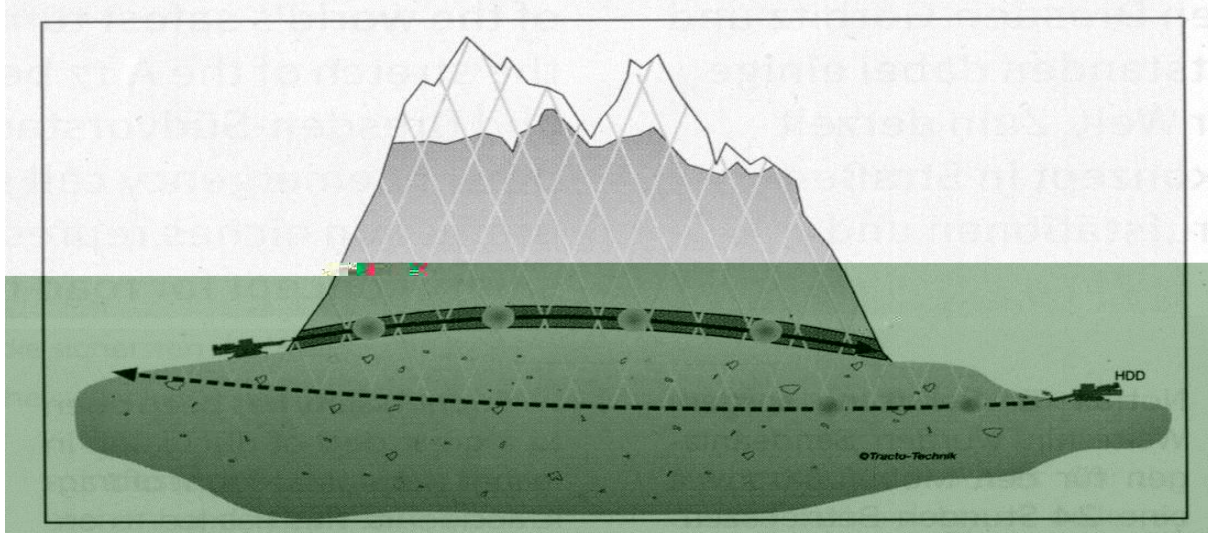
.....

2.4

(

....



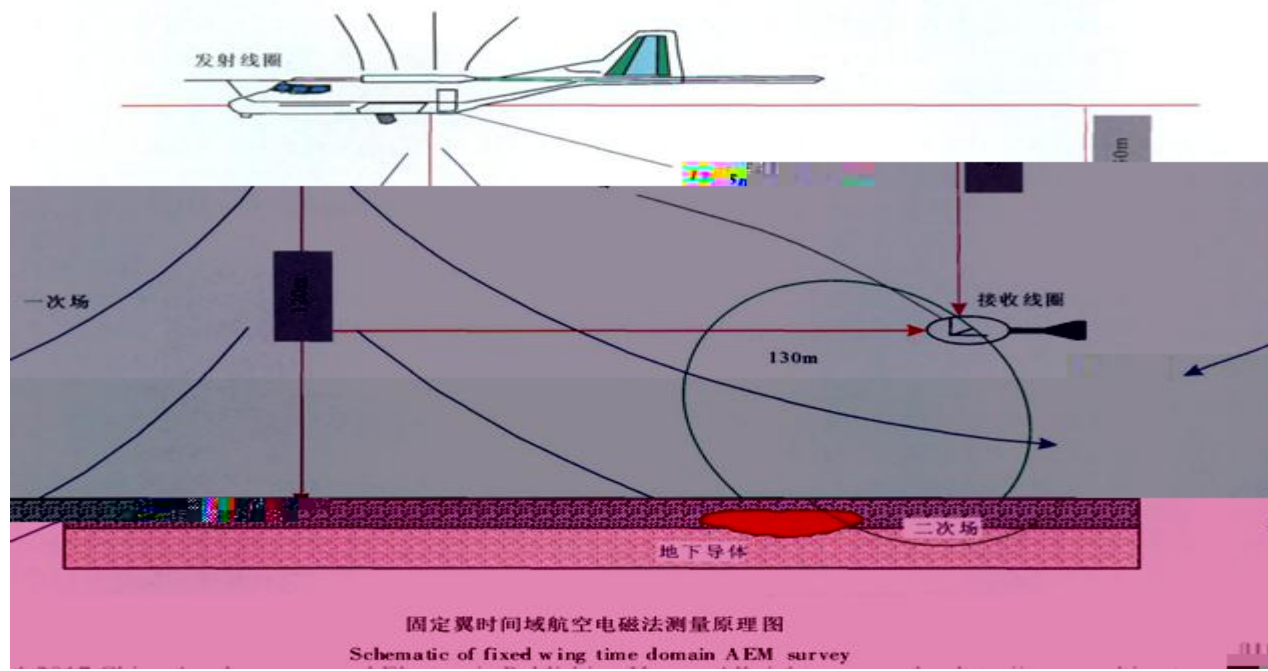






3



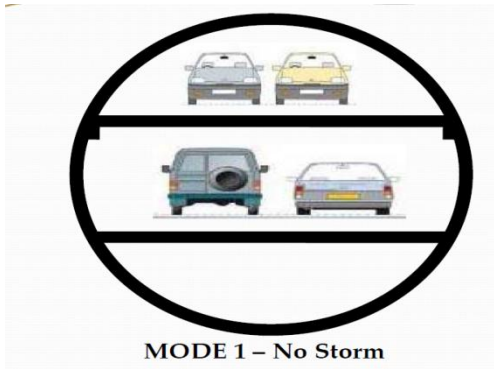




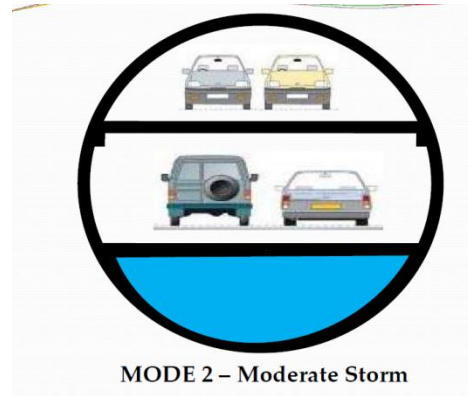




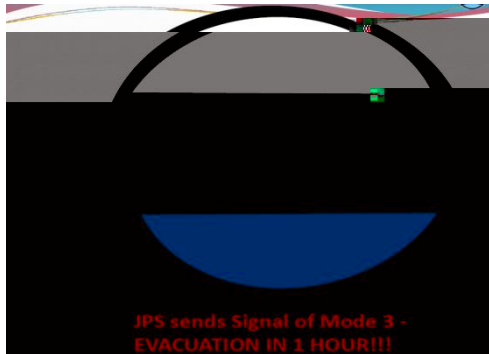




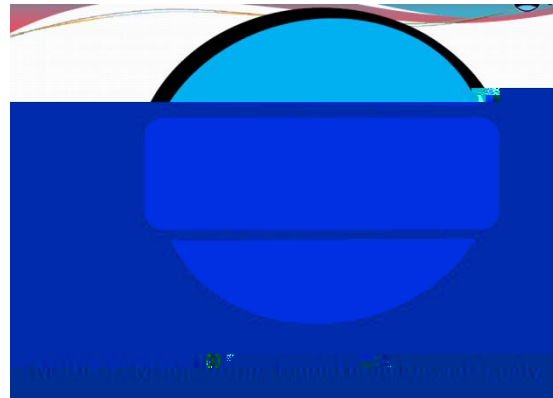
MODE 1 – No Storm

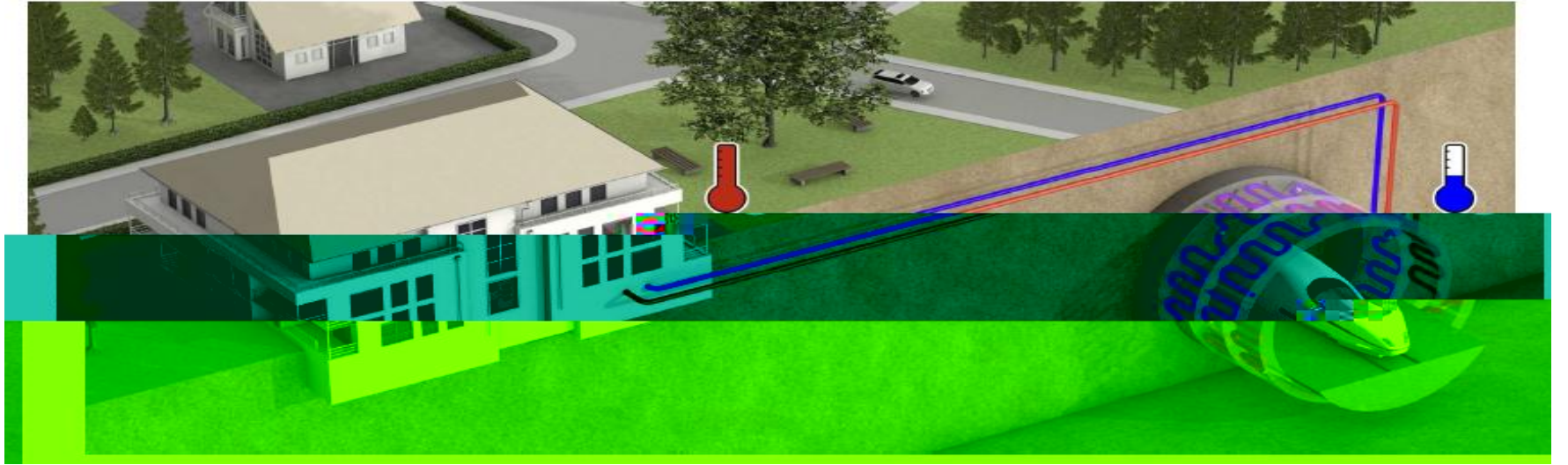


MODE 2 – Moderate Storm



JPS sends Signal of Mode 3 -
EVACUATION IN 1 HOUR!!!

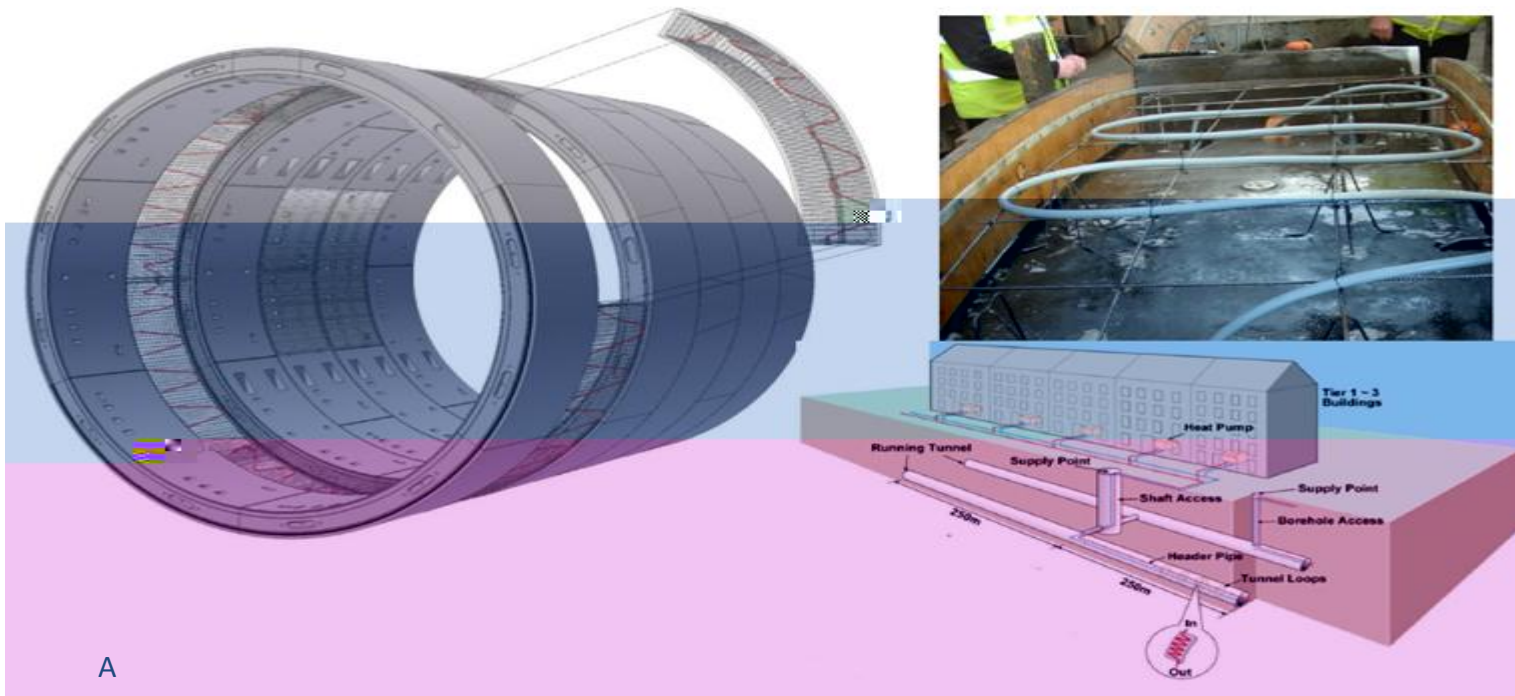




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“ 能 量 管 片 ”

衬砌中吸热管的布置



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A



	(100 %)
A	(33 %)
B	(66.3 %)
C	(0.7 %)
	70 km













