77.280,7

32.924,3

90.016,0

7.500,0

44.000,0

10%

750

20%

1500 10% 750

0 20% 15456 20% 15456 30% 23184 30% 23184

0 20% 6585 20% 6585 30% 9877 30% 9877

750 10% 750

10%

4501 10% 9002 20% 18003 20% 18003 20% 18003 10% 9002 5% 4501

20% 1500

15% 1125 0%

	Total System	591.740	591.740 paseline OK =Common									to=esca	vation start-t	ip (2010)				
		5250	,8	12010,8	79283,489	118577,52	103539,12	136102,39	84289,396	11691,29	4500,	8						
ID	Item Description	Comment	Option	Unitary cost (k€)	Unit	Quantity	SubTotal	201	8	2019	2020	2021	2022	2023	2024	2025	2026	5
1	Main Tunnel excavation	D=6.5 m, D_inner = 5.5 m, 30 km	Baseline	0,2589	k€/m^3	994987,5	257.602,3	ο%	0 (о% о	20% 51520	20% 51520	20% 51520	30% 77281	10% 25760	о% о	ο%	О
_	A : 1' T	D D : (01	D1:	0-	1- a / A -	(-0/		-0/	0/	0/0-	0/0-	0/0	0/0-	-0/	-0/	

1	Main Tunnel excavation	D=6.5 m, D_inner = 5.5 m, 30 km	Baseline	0,2589	k€/m^3	994987,5	257.602,3	о%	0	ο%	О	20% 5	51520	20%	51520	20%	51520	30%	77281	10%	25760	ο%	0	о%	0
2	Auxiliary Tunnel excavation	D=7.0 m, D_inner = 6 m, 1.8 km	Baseline	0,2589	k€/m^3	69237,0	17.925,5	ο%	0	ο%	0	10%	1793	20%	3585	20%	3585	30%	5378	20%	3585	ο%	0	ο%	C
		L = 10m W= 11m H= 6m																						1	
	45 pumping/bake out areas	(minus tunnel volume)	Racolino	0.3580	lee/m/a	16082 0	4 206 0	00%		00%		100%	440	2006	8-0	2006	8=0	2006	8=0	2006	8=0	100%	440	00%	

L	2	Auxiliary Tunnel excavation	D=7.0 m, D_inner = 6 m, 1.8 km	Baseline	0,2589	k€/m^3	69237,0	17.925,5	ο%	0	ο%	О	10%	1793	20%	3585	20%	3585	30%	5378	20%	3585	ο%	О	ο%	(
Г			L = 10m W= 11m H= 6m																i	,			i			
	4	45 pumping/bake-out areas	(minus tunnel volume)	Baseline	0,2589	k€/m^3	16983,0	4.396,9	о%	О	о%	0	10%	440	20%	879	20%	879	20%	879	20%	879	10%	440	о%	C

		L = 10m W= 11m H= 6m																						
4	45 pumping/bake-out areas	(minus tunnel volume)	Baseline	0,2589	k€/m^3	16983,0	4.396,9	о%	О	ο%	О	10%	440	20%	879	20%	879	20%	879	20%	879	10% 4	40 0	%ر
		# D # D J																						

4	43 pamping/bake out areas	#2: D-20m: #2: D-10m denth	Duscinic	0,2309	Ke/III 3	10903,0	4.390,9	070	Ü	070	Ü	1070	440	2070	0/9	2070	0/9	2070	0/9	2070	0/9	1070	440	070	
4	45 pumping/bake-out areas	(minus tunnel volume)	Baseline	0.2589	k€/m^3	16983.0	4.396.9	0%	0	0%	0	10%	440	20%	870	20%	870	20%	870	20%	870	10%	440	0%	

k€/m^3 298496,3

k€/m^3 232000,0

k€/m^3

#3: , D=65 m, H=30 m

#6: , D=30 m, H=30 m

#3: total volume 232000 m^3

Baseline

Baseline

Common

Common

Common

0,2589

0,2589

0,3880

Main Caverns

Satellite Caverns

Control buildings

roads

Cooling and ventilation

4	45 pumping/bake-out areas	(minus tunnel volume)	Baseline	0,2589	k€/m^3	16983,0	4.396,9	о%	0	ο%	O 1	10%	440	20%	879	20%	879	20%	879	20%	879	10%	440	о%	0
		#3: D=20m; #3: D=10m, depth																					Ţ		
5	Shafts	200m	Baseline	0,2589		3+3	60.100,0	ο%	o	10%	6010	30% 1	8030	50%	30050	10%	6010	ο%	o	ο%	o	ο%	o	ο%	C

127170,0