

**AFFORESTATION WITH VALLERANI SYSTEM: POTENTIAL OF 3'000 Ha/YEAR FOR EACH M.T.U.®
(Mechanized Technical Unit)**

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Table 1 ESTIMATED COSTS FOR ESTABLISHING 1 M.T.U. ON A 5 YEAR PROJECT[©]

	First year	Second year	Third year	Fourth year	Fifth year
Tractor New Holland 210 CW	€ 70'000.00				
Plough "Delfino" ³	€ 40'000.00				
SUV	€ 30'000.00				
Pick up service 4x4	€ 25'000.00				
Amortisation 20% of machine's total	€ 33'000.00	€ 33'000.00	€ 33'000.00	€ 33'000.00	€ 33'000.00
Spare parts 20% of machine's total	€ 33'000.00	€ 33'000.00	€ 33'000.00	€ 33'000.00	€ 33'000.00
Fuel and oil	€ 90'000.00	€ 90'000.00	€ 90'000.00	€ 90'000.00	€ 90'000.00
Tractor driver 3 + auto driver 2 (5x360x15€) drivers are paid throughout the year to avoid abandon of the project	€ 27'000.00	€ 27'000.00	€ 27'000.00	€ 27'000.00	€ 27'000.00
Working cost x sowing x Ha €. 10.00 x 3'000 local workers are employed for a total of 3'000 days for 5 years (each worker can sow one hectare a day)	€ 30'000.00	€ 30'000.00	€ 30'000.00	€ 30'000.00	€ 30'000.00
Seed x Ha. €. 5.00 x 3'000 local workers are employed in seed collection	€ 15'000.00	€ 15'000.00	€ 15'000.00	€ 15'000.00	€ 15'000.00
Vallerani System Expert valid for up to 3 M.T.U. in the project. See table 4	€ 120'000.00	€ 80'000.00	€ 60'000.00	€ 60'000.00	€ 60'000.00
National Expert + Assistant valid for up to 3 M.T.U. in the project. See table 4	€ 40'000.00	€ 40'000.00	€ 40'000.00	€ 40'000.00	€ 40'000.00
TOTAL	€ 553'000.00	€ 348'000.00	€ 328'000.00	€ 328'000.00	€ 328'000.00
TOTAL GENERAL					€ 1'885'000.00
Cost for year/ha 1'885'000:15'000					€ 125.00
Cost km 1'885'000:30'000Km (2Km/Ha)					€ 63.00
Cost micro basin (286 x Ha) 15'000x286 = 4'290'000			€. 1'885'000:4'290'000		€ 0.44

Table 2		BASIC DATA - RAINFALL CONSIDERED 200 mm/YEAR[©]			
Tractor Driver		3			
Day working for year		150			
Hours/working for day		10			
Hours/working for year		1'500			
Working speed Km/hour		4			
Line spacing distance mt.		5			
Numbers of files per hectare		20			
Hectare working/day		20			
Hectare working/year		3'000			
Kilometer working for year		6'000			
Micro basins for ha.		286			
Micro basins for year (286x3'000)		858'000			
Mc. Excavated/day (286x20)		5'720			
Mc. Excavated/year (286x3'000)		858'000			
Rain directly in micro basins collect/Ha. Mc		286			
50% rain run-off Mc.		857			
Total rain for Ha. Mc.		1'143			
Total rain in 3'000 Ha. Mc.		3'429'000			

Table 3 BENEFITS OF WORK FOR EACH M.T.U.®			
	QUANTITY	ASSET VALUE	TOTAL VALUE
Plants for year	858'000	€ 1.00	€ 858'000.00
Pasture			
Increase in fertility, milk production and meat	Ha. 3.000	€ 100.00	€ 300'000.00
Grains and Legumes			
Increase production x Ha. 500Kg. (Ha. 3'000)	T. 1.500	€ 100.00	€ 150'000.00
Industrial Crops	Ha. 3.000	???	???
Value of the land			
Increase in the value of three times	3'000	3	???
Increase of groundwater mc. 858'000	858'000	€ 0.50	€ 429'000.00
Benefit for the environment (Kyoto)	???	???	???
Reducing hunger, poverty and emigration	???	???	???
Benefit for the Nation (garrison of territory)	???	???	???
BENEFITS FOR ONE YEAR			€ 1'737'000.00
BENEFITS FOR EACH HECTARE WORKED	1'737'000:3'000		€ 579.00
BENEFITS FOR FIVE YEARS			€ 8'685'000.00

Table 4 AFFORESTATION WITH 3 M. T. U. ON A 5 YEAR PROJECT[©]

	First year	Second year	Third year	Fourth year	Fifth year
3 Tractor New Holland 210 CW	€ 210'000.00				
3 Plough "Delfino ³ "	€ 120'000.00				
SUV	€ 30'000.00				
3 Pick up service 4x4	€ 75'000.00				
Amortisation 20% of machine's total	€ 100'000.00	€ 100'000.00	€ 100'000.00	€ 100'000.00	€ 100'000.00
Spare parts 20% for 3 M.T.U.	€ 100'000.00	€ 100'000.00	€ 100'000.00	€ 100'000.00	€ 100'000.00
Fuel and oil	€ 270'000.00	€ 270'000.00	€ 270'000.00	€ 270'000.00	€ 270'000.00
Tractor driver 9 + auto driver 6 (15x360x15€) drivers are paid throughout the year to avoid abandon of the project	€ 81'000.00	€ 81'000.00	€ 81'000.00	€ 81'000.00	€ 81'000.00
Working cost x sowing x Ha €. 10.00 x 9'000 local workers are employed for a total of 9.000 days for 5 years (each worker can sow one hectare a day)	€ 90'000.00	€ 90'000.00	€ 90'000.00	€ 90'000.00	€ 90'000.00
Seed x Ha. €. 5.00 x 9'000 local workers are employed in seed collection	€ 45'000.00	€ 45'000.00	€ 45'000.00	€ 45'000.00	€ 45'000.00
Vallerani System Expert	€ 120'000.00	€ 80'000.00	€ 60'000.00	€ 60'000.00	€ 60'000.00
National Expert + Assistant	€ 40'000.00	€ 40'000.00	€ 40'000.00	€ 40'000.00	€ 40'000.00
TOTAL	€ 1'281'000.00	€ 806'000.00	€ 786'000.00	€ 786'000.00	€ 786'000.00
TOTAL GENERAL					€ 4'445'000.00
Cost each hectare: total/ha 4'445'000:45'000					€ 99.00
Cost each km 4'445'000:90'000Km (2Km/Ha)					€ 49.50
Cost each micro basin (Ha/286) 45'000x286 = 12'870'000			€. 4'445'000:12'870'000		€ 0.34
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