

INPUTS

1 How many ATCOs require training in total?	250
2 Select a reduction in procurement costs due to collaboration	0%
3 Select a reduction in maintenance costs due to collaboration	0%

	Independent	Knowledge sharing		% Benefit through knowledge sharing and guidance material
		Base	Base	
Requirements definition	Project management	51	42	~10% Due to reduction in overall effort
	Definition of roles and responsibilities	5	5	No change
	Operational requirements definition	15	7	Benefit from using the reference MSAW system and guidance material
	Development of policy, procedures and safety case	55	22	60% Due to 30 days reduction in safety case, due to guidance material and 50% policy and procedures reduction
Implementation or change	System verification	20	10	50% Sharing of best practice and guidelines should reduce the effort
	Purchase of system	€ 250.000	€ 250.000	0% Up to 40% is thought to be possible through joint procurement
Tuning and validation	Tuning, validation and optimisation, including site adaptation and parameter setting	60	30	50% Benefit through best practice, guidelines and lessons learnt through case studies
Operation and monitoring	ATCO and engineer training	250	250	No change
	Maintenance (per year, over ten years)	€ 40.000	€ 40.000	Possible reduction through joint procurement
	Performance monitoring	100	100	No change
	Cost per man day	600	600	
	Number of Man Days	556	466	
Total costs	Manpower	€ 330.000	€ 280.000	
	External costs	€ 290.000	€ 290.000	
	Total	€ 620.000	€ 570.000	
SAVINGS				8,1%