

	Case Name: C2019-10	Sector	Construction	
	OR-AS Operations Research - Applications and Solutions www.or-as.be info@or-as.be	Baseline schedule	Schedule with resources	
			Schedule with costs	
		Risk analysis	Random Simulation	
			One of nine std. scenarios	
Submitted by	Mayté & Thymo	Project Control	User defined distributions	
Date	2019		Automatic tracking	
File Name	C2019-10		Tracking based on user input	

1. Project description

Project Authenticity

The project consists of *activity, resource and cost* data that were obtained directly from the actual project owner.

2. Project properties

2.1. Baseline schedule

General	
# Activities	23
Planned Duration (PD)	163 days*
Budget at Completion (BAC)	€ 2.978.315,30
Renewable Resources	6
Consumable Resources	-

Network Topology	
Serial/Parallel (SP)	45%
Activity Distribution	48%
Length of Arcs	8%
Topological Float (TF)	22%

* Standard eight-hour working days

2.2. Risk analysis

Random simulation by ProTrack was performed using the default symmetric triangular risk distribution profiles.

	Cost sensitivity		
	avg (%)	std dev (%)	skew (-)
CRI-r	16,78	16,34	1,3
CRI-rho	20,49	18,31	0,9
CRI-thau	18,83	27,09	2,4

	Time sensitivity		
	avg (%)	std dev (%)	skew (-)
CI	50,6	46,0	0,0
SI	74,2	31,1	-1,1
SSI	15,9	16,6	0,6
CRI-r	16,7	13,7	0,7
CRI-rho	19,2	14,4	0,7
CRI-thau	14,8	19,5	3,9

	Resource sensitivity		
	avg (%)	std dev (%)	skew (-)
CRI-r	55,90	13,29	-3,3
CRI-rho	55,90	13,29	-3,3
CRI-thau	55,90	13,29	-3,3