

	Case Name: C2017-01	Sector	Construction (Civil)	
	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	
Submitted by	Mayté & Thymo		One of nine std. scenarios	
Date	2017		User defined distributions	
File Name	C2017-01	Project Control	Automatic tracking	
			Tracking based on user input	

## 1. Project description

Project Authenticity

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

## 2. Project properties

### 2.1. Baseline schedule

General	
# Activities	52
Planned Duration (PD)	383 days*
Budget at Completion (BAC)	€ 758.881.192,00
Renewable Resources	-
Consumable Resources	-

Network Topology	
Serial/Parallel (SP)	45%
Activity Distribution (AD)	52%
Length of Arcs (LA)	7%
Topological Float (TF)	56%

\* 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	42,31	49,40	0,3
CRI-rho	100,00	0,00	N/A
CRI-thau	100,00	0,00	N/A

	Time sensitivity		
	avg (%)	std dev (%)	skew (-)
CI	46,2	48,7	0,2
SI	56,9	44,4	-0,2
SSI	8,2	11,2	1,4
CRI-r	11,5	10,7	1,2
CRI-rho	14,5	13,5	1,3
CRI-thau	13,8	22,2	3,4

	Resource sensitivity		
	avg (%)	std dev (%)	skew (-)
CRI-r	N/A	N/A	N/A
CRI-rho	N/A	N/A	N/A
CRI-thau	N/A	N/A	N/A