

	Case Name:house building project	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	
Submitted by	Mayté & Thymo		One of nine std. scenarios	
Date	2016		User defined distributions	
File Name	C2016-50	Project Control	Automatic tracking	
			Tracking based on user input	

## 1. Project description

Project Authenticity

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

## 2. Project properties

### 2.1. Baseline schedule

General	
# Activities	30
Planned Duration (PD)	115 days*
Budget at Completion (BAC)	€ 201.405,59
Renewable Resources	9
Consumable Resources	-

Network Topology	
Serial/Parallel (SP)	67%
Activity Distribution (AD)	78%
Length of Arcs (LA)	6%
Topological Float (TF)	17%

\* 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	12,39	16,97	4,0
CRI-rho	13,56	16,79	4,0
CRI-thau	19,41	16,53	1,1

	Time sensitivity		
	avg (%)	std dev (%)	skew (-)
CI	72,7	44,5	-1,1
SI	80,0	34,2	-1,4
SSI	12,3	20,4	3,0
CRI-r	13,0	15,9	3,3
CRI-rho	14,0	15,7	3,1
CRI-thau	20,6	14,5	0,8

	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