

	Case Name: Railway Station Ghent	Sector	Construction (Civil)	
	OR-AS Operations Research - Applications and Solutions www.or-as.be info@or-as.be	Baseline Schedule	Schedule with resources	
		Risk Analysis	Schedule with costs	
			Random simulation	
Submitted by	Karel Verlinde		One of nine std. scenarios	
Date	December 22, 2012		User defined distributions	
File Name	C2012-12 Railway Station Ghent.p2x	Project Control	Automatic tracking	
			Tracking based on user input	

1. Project description

Project authenticity

The reconstruction of track number 12 of the Ghent Sint-Pieters railway station (Belgium), as a subproject of the much bigger overarching undertaking called Project Ghent Sint-Pieters.

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

2. Project properties

2.1. Baseline Schedule

General	
# Activities	19
Planned Duration (PD)	440 days*
Budget At Completion (BAC)	N/A
Renewable Resources	-
Consumable Resources	-

* standard eight-hour working days

Network topology	
Serial/Parallel (SP)	38%
Activity Distribution (AD)	36%
Length of Arcs (LA)	20%
Topological Float (TF)	23%

2.2. Risk Analysis

Use of many different non-standard triangular distribution profiles inputted by the user (all skewed), complemented by some predefined symmetrical distributions.

	Cost sensitivity		
	avg [%]	std dev [%]	skew [-]
CRI-r	N/A	N/A	N/A
CRI-rho	N/A	N/A	N/A
CRI-tau	N/A	N/A	N/A

	Resource sensitivity		
	avg [%]	std dev [%]	skew [-]
CRI-r	N/A	N/A	N/A
CRI-rho	N/A	N/A	N/A
CRI-tau	N/A	N/A	N/A

	Time sensitivity		
	avg [%]	std dev [%]	skew [-]
CI	34.5	31.0	0.5
SI	83.5	20.2	-2.7
SSI	12.8	14.8	1.3
CRI-r	13.3	15.5	1.6
CRI-rho	12.4	14.8	1.7
CRI-tau	7.9	10.4	1.7

Since no cost data were entered, no results for cost and resource sensitivity can be obtained. The lack of cost data also entails that project tracking cannot be performed.