OR-AS Operations Research Applications and Solutions	Case Name: **Metal Extraction**	Sector	Construction (Industrial)
	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 User defined distributions
Submitted by	N/A		
Date	December 18, 2012	Project Control	Automatic tracking Tracking based on user input
File Name	C2012-16 Metal Extraction.p2x		

1. Project description

Project authenticity

The construction of an installation for extracting metals from waste materials passing by on conveyors, using an electromagnet for the ferrous materials and an eddy current separator for the non-ferrous metals.

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

2. Project properties

2.1. Baseline Schedule

General	
# Activities	86
Planned Duration (PD)	88 days*
Budget At Completion (BAC)	N/A
Renewable Resources	10
Consumable Resources	-

Network topology	
Serial/Parallel (SP)	16%
Activity Distribution (AD)	51%
Length of Arcs (LA)	0%
Topological Float (TF)	32%

* 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	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	18.4	36.5	1.7
SI	16.5	22.2	2.8
SSI	4.0	9.0	2.4
CRI-r	11.5	9.9	1.3
CRI-rho	11.6	9.5	1.2
CRI-tau	22.7	11.7	0.4

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.