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|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|--|
|  | Case Name: Student kick-off Sint-Pietersplein | Sector | Event management | |
| | 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 | Boris Borysiewicz, Ellen Van Moere, Joalien Ghysbrecht, Lucas Baeteman, Mathias Brabants | | One of nine std. scenarios | |
| Date | 2022 | Project Control | User defined distributions | |
| File Name | C2022-02 | | Automatic tracking | |
| | | | Tracking based on user input | |

1. Project description

Project authenticity

This project revolves around the construction of the “Student Kick-Off “ festival on the Sint-Pietersplein in Ghent. The data focusses on the baseline scheduling and risk analysis of the project. The assumption is made that there are infinite volunteers available to help with the build-up.

2. Project properties

2.1. Baseline Schedule

| General | |
|----------------------------|-------|
| # Activities | 159 |
| Planned Duration (PD) | 3.78* |
| Budget At Completion (BAC) | - |
| Renewable Resources | - |
| Consumable Resources | - |

* standard eight-hour working days

| Network topology | |
|----------------------------|-----|
| Serial/Parallel (SP) | 8% |
| Activity Distribution (AD) | 68% |
| Length of Arcs (LA) | 0% |
| Topological Float (TF) | 35% |

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 | - | - | - |
| CRI-rho | - | - | - |
| CRI-tau | - | - | - |

| | Resource sensitivity | | |
|---------|----------------------|-------------|----------|
| | avg [%] | std dev [%] | skew [-] |
| CRI-r | - | - | - |
| CRI-rho | - | - | - |
| CRI-tau | - | - | - |

| | Time sensitivity | | |
|---------|------------------|-------------|----------|
| | avg [%] | std dev [%] | skew [-] |
| CI | 6.92 | 19.42 | 3.56 |
| SI | 11.78 | 22.06 | 1.99 |
| SSI | 1.97 | 7.53 | 4.79 |
| CRI-r | 2.03 | 6.87 | 4.60 |
| CRI-rho | 44.42 | 14.08 | -2.06 |
| CRI-tau | 88.52 | 25.39 | -1.88 |