



Title: Visualising performance data for programs and projects

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Summary: In the modern technological era, program and project leaders not only require accurate project performance data in 'real time' but they also need this data to be quickly and easily disseminated. This is easier said than done...

Through case studies of several programs and projects, we will demonstrate the advancements being made across various industries such as infrastructure, building, mining, health, telecommunications in both recording and collating accurate and 'real time' performance data but then presenting this data in a form that is quickly understood and leads to the right decisions being made by the program or project leaders.

For performance data to be accurate it also needs to be integrated so that it aligns and captures the key and changing scope, quality, cost, time and risk parameters.

The way in which the data is being maintained and collected is key to its accuracy and currency. The data needs to be collected without being perceived to be an added burden on the frontline project resources otherwise the risk of this data not being collected and not being accurate increases significantly.

The data then needs to be easy to collect and access and the data management system also needs to be flexible to reflect a changing project. To facilitate this, the data may be contained in various forms on multiple systems. As a result, the 'integrated performance data' needs to be collected from multiple sources and via multiple platforms and systems. On major projects where millions of data fields and relationships are being recorded, the collection of the data also needs to be managed otherwise it can overwhelm the data management systems.

Having collected accurate and up to date data, the data management system then needs to efficiently and effectively analyse and disseminate the data and then provide this data so that the information can be understood. This is being achieved through graphical real time updated data reporting tools that can be used to interrogate the project data management systems and then present the data via interactive graphical tools or shown visually on animated project diagrams through '4D' Simulations.

Keywords: 4D simulation, BIM, data analysis, data migration, visualisation,