RimpeX 4D Simulation

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Benefits of 4D Simulation

RimpeX 4D utilizes both RimpeX Schedule and RimpeX BIM model to create a 4D BIM. Therefore RimpeX BIM has to be implemented in the project before implementing 4D Simulation. 4D BIM is an acronym for 4D Building Information Modelling and a term widely used in the CAD industry, refers to the intelligent linking of individual 3D CAD components or assemblies with time or schedule-related information

A study brought up 4D modelling as a promising tool for construction planning. There are many positive impacts of 4D modelling discovered which are not possible to achieve through traditional planning methods being used. The most significant benefits of 4D modelling are found out to be better visualization of construction work, better communication among project teams and increased planning efficiency. In addition, 4D modelling assists in achieving detailed and accurate work plans, planning of temporary structures, quantity take-offs and managing site logistics. With the help of better visualization and communication, the planners, project team and client can achieve a better and common understanding of the project scope and objectives, which can improve the construction planning and execution process significantly leading to the project success. Implementing 4D modelling allows planners to detect the problems prior to construction phase which lead to reduction in the amount of rework and clashes. Therefore, a more reliable and detailed work plan can be obtained which assists the project to complete within prescribed time and budget.

Functions of RimpeX 4D

RimpeX 4D simulation allows you to generate the actual and planned progress views automatically based on the recent schedule update.
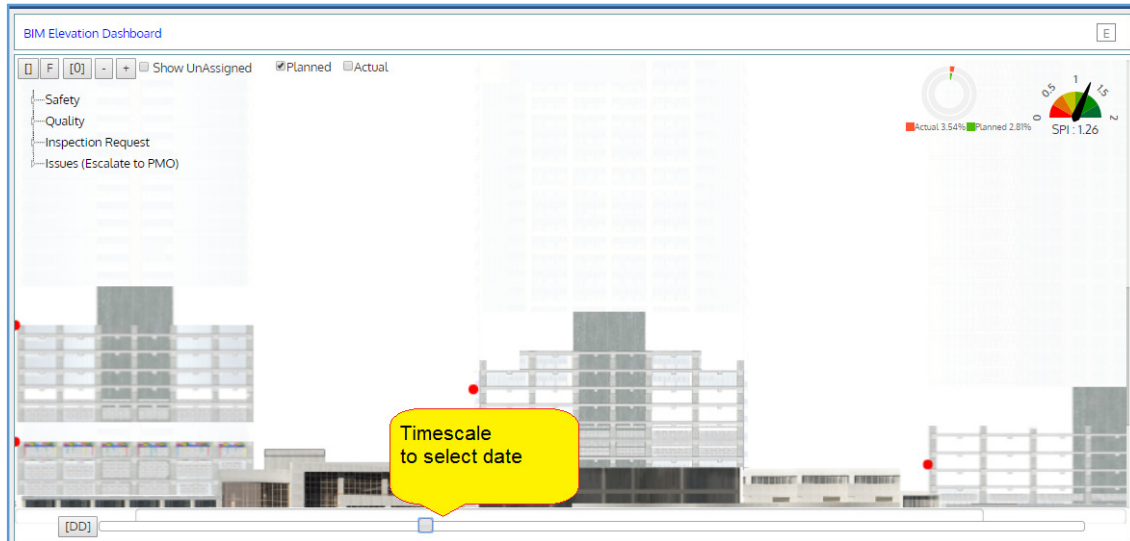
Visualize actual progress:

One of the most important benefits of visualization is that it allows us visual access to huge amounts of data in easily digestible visuals. Well-designed data graphics are usually the simplest and at the same time, the most powerful. Thus visualization provides quick understanding of project progress.
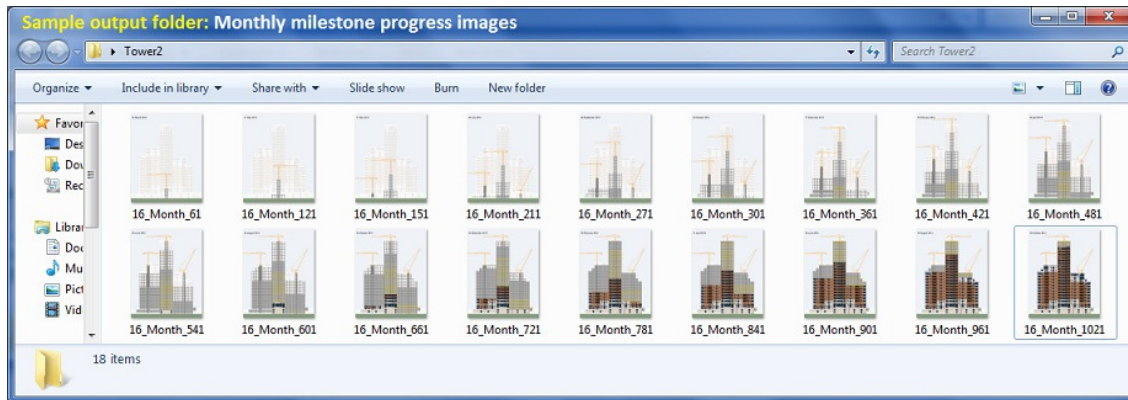
Generate planned progress:

This will help you to view the progress on any date between the start and finish dates of the project according to the baseline schedule.
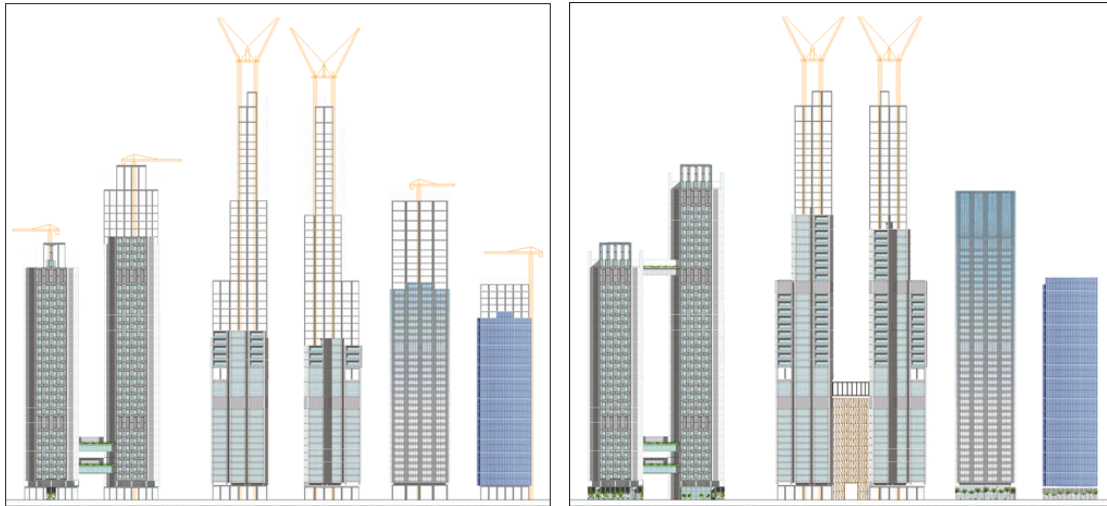
Generate actual progress:

You will be able to generate the actual progress of the project on or before the latest data date.

Compare actual progress versus planned:

You can compare the actual progress versus planned progress. This will prompt you to do better look-ahead planning and controlling. Delayed work will appear flashing on the screen.

Actual Progress   *Planned Progress*