

## EarthCam 4D to Enhance Construction Operations

By CIOReview, February 24, 2022



EarthCam 4D will enable builders and designers to compare their projects to their 4D models in real-time using live photos, saving time and improving building operations

Fremont, CA: Design in virtual reality allows architects to plan and manage a construction project. They will be able to repair any potential flaws and improve the structural integrity of their building once the construction phase begins since they create a 4D model of the project upfront. EarthCam, the world's leading provider of camera technology and services, has released EarthCam 4D, which allows virtual design and construction (VDC) teams to overlay and sync live imagery with their digital counterparts. Users can look at the live images in relation to their 4D models using an easy timeline that allows them to go backward and forward in time.

“EarthCam 4D is a great and quick tool to help communicate project schedule with our customer, trade partners and public,” states Michal D Wojtak, Mortenson’s Integrated Construction Director for sports and entertainment. “The ability to easily compare current and future states of work is valuable to project leadership teams.”

EarthCam 4D, based on the Bentley iTwin platform, adds high-resolution images from many cameras across the Jobsite to Bentley Systems SYNCHRO 4D models, which are then superimposed in correct alignment. The related live images remain synched when viewers zoom in and out. New and effective techniques to compare and contrast models with reality over time are enabled by unique transparency/opacity and model color modifications.

“Digital twins are radically increasing productivity in construction,” comments Brian Cury, CEO, and Founder of EarthCam. “Thanks to Bentley iTwin, we’re able to merge the highest resolution imagery from our cameras to SYNCHRO 4D models, and build valuable applications to increase our clients ROI.”

EarthCam 4D is the first solution to fully synchronize time-sequenced pictures with 4D planning models, removing the requirement for several software interfaces and image sources to access this critical data. With real-time photos synced with a SYNCHRO 4D model in a single interface, SYNCHRO users all around the world may get immediate, real-time evidence of every steel beam placement and every window installation vs. 4D model, making project management easier.