

# DON'T JUST TAKE IT FROM US: LET OUR CUSTOMERS DO THE TALKING.



Currently Synchro SITE is being used by our Field engineering team at Liverpool St. to manage and track progress within our 5 sub sites. We are conducting inspections daily and simultaneously collecting quality data by statusing progress. This helps with handovers of the physical works by easily checking for any outstanding issues before releasing areas to others. Also, through quantification of progress, we can accurately plot S curves for work achieved to flag up poor performance before it becomes a critical issue. Lastly, we have found that SITE is dramatically speeding up the time taken for the field engineers to performs their duties, as the engineers are now effectively doing 2 inspections at the same time rather than individually as they were before; they can do double the amount of inspections increasing the chance of spotting issues earlier which reduces re-work costs.”

Dominic Wind, Crossrail (on the use of Synchro SITE)



“I would not have had the motivation to succeed if it wasn't for the excellent support from everyone at Synchro.”

- Rob Leach  
Skanska UK



“The Global Enterprise Agreement reaffirms Bechtel's commitment as a leading innovator, focused on the need to transform project delivery operations and to define new practices and levels of performance that can thrive in the age of megaprojects.”

- Jason Moore, Infrastructure Project Controls  
Manager of Innovation and Virtual Project Delivery  
Bechtel

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**SUFFOLK**

“The models imported into Synchro were referenced continually in the planning phases and utilized during the project to inform, influence and guide the building strategy and schedule. By sharing the models with the owner, design team, sub-contractors and field staff, they allowed the team to detect gaps in sequence and promoted dialogue well ahead of time in order to minimize risks and maximize efficiency. If Suffolk hadn't detected these gaps with Synchro software, the team would have had to come with solutions after the project had broken ground, which would have impacted the budget and timeline significantly.”

Stephanie French, CM-BIM VDC Manager  
BC Field House Case Study, Suffolk Construction

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“Synchro is a very powerful tool - it is an integral part of the operations of our IPD Lean Construction team. Not only do we have the ability to play out various scenarios at different degrees of detail or scope, but more importantly, Synchro's capability to communicate sequencing solutions between our team members in a direct and effective way is an enormous advantage.”

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- Calayde Davey, Project Developer,  
Arnold Development Group

 ARNOLD DEVELOPMENT

Alex Teague  
Project Executive on-site  
Volvo's Project Thor Case Study  
Yates Construction

**YATES**  
CONSTRUCTION

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The project encompasses 90 federated models and 8,166 schedule activities. On a weekly basis, updates to the model and activities are synced and reviewed by a team of approximately 35 people. “The visual element of the 4D schedule has allowed for increased collaboration, understanding, and feedback from subcontractors. We have also found the tool to be crucial in communicating complex or critical construction sequences.

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Critical to the success of our project is having a tool that provides a far greater graphical representation of the sequence, extents and timing of the work being planned and communicated. Synchro has proven to be the market leader in 4-D visual planning tools that allow our project teams to be at their best.

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Matthew London, Scheduling Manager,  
Sports + Entertainment Group, Mortenson Construction

  
**Mortenson**  
construction

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The versatility and awareness that Synchro/4D provides has led to better forward planning and understanding of the challenges that may come up. SWP has allowed for great communication between scheduling/modeling and planning for our subs. Our mechanical and plumbing sub have greatly benefited from the use of SWP. They are going through the “Two-Week Look Ahead” with their teams to forecast current issues and to discuss possible safety hazards for the week.

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Raney Sledge, Field Engineer,  
CHS Northeast Modernization  
Robins & Morton

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With multidimensional modeling, we’re able to visualize the project schedule, sequencing plans, budget, and communicate everything in a completely new way. Synchro enables us to bring everything into the digital model environment including our means and methods, our designers models, and allows us to tie everything together with our project schedule. This enables us to elegantly create a model representing a “window” into the superintendent’s brain and gives us a clear, concise, unified vision. Multidimensional modeling has become an invaluable tool for collaboration, the digital whiteboard for construction brainstorming sessions, and concerning the 4/5/6D model environment Synchro is in a league of it’s own.

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Eric Liming, Manager, Virtual Design & Construction, CLARK CONSTRUCTION GROUP, LLC



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The implementation of the 4D on the Santiago Airport Project really brought closer the stakeholders of the project around an interface that was understood by all. The 4D simulation became the common approach for sharing and coordinate all the planning aspects. Thanks to that, the daily work on planning is a lot safer and more efficient as it takes in consideration consistent feedbacks coming from the different actors.”

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Hugues Desclaux,  
BIM Manager  
Santiago International Airport  
Vinci Astaldi



Synchro 4D has benefitted project delivery by:

- Reduction of rework (by up to 80%),
- Reduction of potential risk,
- Avoidance of near miss and H&S hazards (over 250 days without a lost time incident),
- Improved quality,
- Better coordination,
- Clash avoidance,
- Interface management,
- Earlier resolution of issues.



Richard Thompson,  
Project Director



**SKANSKA**

Synchro has brought 4D scheduling to an entirely new level. It brings true scheduling capability to a 4D package, as well as the ability to edit the 3D model in place, which is unavailable in the software we were using. Synchro doesn't just import the "intelligence" of the 3D model, but of the CPM schedule as well, making Synchro a true coordination environment. With its native scheduling tools, it's even possible to schedule within Synchro, creating activities around 3D elements and assigning logical relationships and activity attributes in the 4D environment. I feel we've only scratched the surface of the things we can do with Synchro, but with the help of Jacqueline and the Synchro support team, we're routinely meeting customer expectations that were simply impossible before Synchro.

Phil Simon  
VDC Manager  
Skanska USA Building Inc.



The 4D model was used to verify the changes made to the programme. By bringing in the new P6 and going to the present time, this was used to verify the state of the 4D model against the state of the site. This highlighted tasks missing changes, as well as tasks needing to be split up. The 4D model was shared with the project team on a large screen and was often used as a tool for briefing the next shift team as well as engagement for stakeholders and high profile visitors.



Waterloo Station Upgrade Case Study  
Wexex Capacity Alliance



We've been using Synchro Pro to assist our planning for 2 years now and it has been hugely valuable. Over 2 years we have scheduled over \$400M AUD worth of projects in 4D to date. It has enabled us to collaboratively develop & better communicate our plans to our team, thus ensuring we are providing more efficient & cost effective design & build project delivery solutions. The SWP real-time virtual environment Synchro has developed has enabled us to provide to-the-minute easily digestible programme updates to the project team. This reduces the time spent providing weekly client updates by about half, and means by the time we come to do our monthly report and update the bulk of the work is done.



Chris Pilcher  
Planning & Program Manager, Building Qld & NT



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We have used Synchro PRO 4D for claims in past and current matters. Clients love it. Adverse parties cringe to see it.

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Ben D Nolan III PE PSP  
Director



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We are excited about the visibility Synchro Pro provides us an iterative planning tool and look forward to how we may expand its use over our portfolio of products.

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R. Mendoza  
Director Project Integration



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Through 4D implementation and adoption on projects, it's proved that Synchro 4D can effectively improve the efficiency of project management, by providing time and space conflict checks. Synchro is also a platform that strengthens the sharing of construction information and communication between project stakeholders, so that they feel more engaged and can quickly join the discussion (if they are not quite familiar with the construction plan yet).

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Kai Chen, Project Executive, Shanghai Construction No.4 Group Co., Ltd



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If a picture is worth a thousand words, then what do 10,000 animated pictures, acting together, say? To us, they say that this is how it was built.

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S. Pressley  
Director of  
Project Management  
Systems &  
Development



Hill International

“The most expensive decision you will make in a complex project is the decision NOT to use 4D.”

Charlie Dunn  
Project Controls Consultant

Greetings Tom,

I am so excited about the change in company culture that Synchro has kick-started for us. I truly believe that blending Synchro into our projects has injected energy and confidence to launch our company into a new era of innovation.

If you recall I sent you an email a few months ago introducing myself and telling a bit of the Ryan story over the last 15 months. I was brought on board as the corporate VDC manager. As a 75 year old well established and successful company, Ryan approaches new technology and cultural change slowly and thoughtfully. During my first few months, there was a lot of concern from our project teams to do something different. Our wheelhouse product mix is commercial office buildings, light industrial, and retail. Our PM's and superintendents are very experienced and have established processes that are reliable and effective. It was understandable that there would be much debate about making changes to this established formula. At the same time, we knew that new technology had the potential to create significant value. I needed a spark, and something to address low hanging fruit type of waste that was intuitive and easy to use. Instead of starting with a heavy duty 3D coordination platform, I decided that the schedule was the best place to start. Here at Ryan companies we strive to be a 50% GC and 50% developer so time is crucially important to us. The faster we can turn over a building the less time we are incurring loan carry costs, and the faster we can generate revenue on assets we are selling or managing.

It's typical for us to have 12 month construction timelines with 20 line items in a Microsoft Project Schedule- I was confident we could make improvements. I started peppering our high profile projects with Synchro models. There was instant adoption with the field execution team. The light bulbs were coming on at a rapid pace. Superintendents would constantly tell me that finally they can get the vision that was in their head out and into a format to communicate. This led to review and refinement sessions, where we would meet and review the Synchro schedules looking for opportunities to fine tune. This led to a real hunger in our field side to add more detail both in schedule and 3D content, remove waste, add detail and remove waste. The Synchro schedules started getting used in weekly forecasting sessions, precon meetings, bid interviews, etc. Synchro integration made its way out of the field and into our pursuits and planning. Very quickly I had the spark I needed.

I've worked at Ryan off and on for about 6 years and I knew that VDC and BIM integration hadn't yet made its way into construction. However, in the last 15 months we are a completely different company. We've started leadership groups to seek out lean construction methods, our business structure is changing to better allow for innovation and change, and in general there is a new energy and excitement that is felt by all. Over the past 12 months I've tracked 2 statistics.

1. Project adoption rate – On July 13th 2013 we had 0 projects with any type of schedule/model integration. Today, October 4th we have 112 active projects with a Synchro presence. This correlates to a 68% adoption rate in 15 months or so.

2. Time Savings – For the projects that have a Synchro presence I am able to compare the schedule duration prior to the “Synchro sessions” and then after. I am showing that our Synchro process saves 4 weeks off the schedule for every 8 months of construction duration. Keeping in mind for a \$50M Ryan Development project saving 4 weeks off the schedule correlates to \$250K in loan carry alone.

Have a great weekend.

Mike Prefling

Virtual Design and Construction Manager

Ryan Companies US, Inc.

