

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

Synchro is the best tool to show project stakeholders where we are and where we are going in the quickest / simplest format. It allows us to drill down a 75 page CPM schedule into a 2 minute clip or a defined time sequence in order to explain the construction logic.

At the HARBORcenter project, the 4D model has been extremely successful during discussion and presentation to city officials during the project planning phase, in order to explain when and why roads will be closed around the project to support the construction activities.



The 4D model's implementation into project scheduling meetings and subcontractors meeting has also been valuable in order to ensure all trade partners understand the workflow on site and site constraints present as a specific moment. It has allowed the foremen to review, openly communicate and plan for the ever-changing site constraints during the mass excavation, pile driving, and concrete aspects of the project. I would like to see future efforts of 4D modeling begin to focus on a micro level.

-Dave Mansell, Superintendent



"Synchro provides the graphic simulation needed to deliver and improve construction solutions for our clients, along with a real time based 4D model for idea generation and problem solving within the project team."

- R. Owen  
Director



"There's a lot of Hollywood BIM out there but Synchro is different, Synchro offers real time project optimization with integrity. We can make a change to our schedule and instantly understand the implications."

- C. Pechacek  
VDC Director



"Synchro's 4D simulation helped us win one of the largest public works projects in the history of Sacramento County. It provided us with a new way to communicate our knowledge of the project and allowed us to identify and solve key issues in advance."

- J. Barrett  
National Director  
Integrated Business Solutions

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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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Synchro allows us to maintain control of an ever changing worksite. It is the finest management system ever built for the construction industry.

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A. Greenhalgh  
Commercial Director



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I still don't know how you managed it all. The only trouble is that nobody will believe that this was done in two days!

”

P. Goodman-Simpson  
Managing Director



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Using Synchro, we were able to identify interferences, resource requirements and new possibilities for assembly in advance of construction, previously we could only do this on a site visit.

With the identification of status through the colors, we can identify and drive the Pipe Shop and quickly disseminate lists of priorities for manufacturing, streamlining the workflow and all costs involved. 4D allowed us to:

- Perform programming, identifying the best opportunities for manufacturing and assembly
- Show company executives the project sequence and the needs of manufacturing and prioritize the needs of the production.

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- Gabriel Henrique Ferreira Goncalves



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I am a fan of Synchro because it allows me to see into the future. I can get the project plan out of the Superintendent's head and into a movie that people can understand. I feel like we are truly communicating and scheduling to a higher level than could have ever been achieved prior to Synchro.

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Benjamin Crosby  
Director of BIM-VDC



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As independent 4D consultants, it is critical for the success of our business that we use the best software available. The clear choice for our modelling is Synchro PRO as it is powerful, flexible and well ahead of the market. It allows for depth of modelling and option engineering that cannot be achieved with other solutions. Being an open platform, it allows for constant innovation and real-time programme development. Synchro also provides First Class support.

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James Bowles  
Founder

freeform 3d

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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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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



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

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It's not that we do not ask good questions, but having access to a 3D model while building our schedule helps all of us see things that we would normally never see in a set of 2D documents. So, if you do have access to your designer's 3D model, open it up and put it into Synchro. Then, dive into building your schedule with the 3D model right in front of you. I guarantee you will have a ton of logistics questions.

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Charlie Dunn  
Project Controls



James Norris  
Virtual Building Group Manager

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Throughout my years at Bechtel, I have seen huge value in applying great data visualization tools for expediting communication of complex processes. For construction, we've got a real interest in bringing "real time" planning tools to our job sites, starting in the trailers. We see Synchro as a great tool for quickly aligning everyone during that short period when they are together before they disperse, which we believe will ensure a leaner work process in the field.

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4D modeling takes scheduling to the next level of planning and communication, 4D scheduling will change the way projects are won, planned, and monitored and will become the industry standard.

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Jon Berkoe, P.E., BDES  
Senior Principal Engineer



Tamer Elgohari  
Senior BIM Engineer



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.

