AUTODESK UNIVERSITY

CS501221

How to build data-sharing habits to Accelerate Digital Business: Saipem case

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Learning Objectives

- Enable efficient cross-team collaboration strengthening teamwork
- Facilitate knowledge and information sharing
- Increase business execution and reduce rework
- Enhance workflows to make every day's tasks easier

Description

For decades, business leaders have shied away from sharing data, not just in regards to competitors, but even with internal stakeholders in other business units.
This mindset is starting to shift, however, as studies back up the benefits of sharing data. Data sharing is a business-facing key performance indicator of achieving effective stakeholder engagement and providing enterprise value. Chief Data Officers who have successfully executed data-sharing initiatives in their organizations are proven to be more effective at showing business value and return on investment from their data analytics strategy.
This class will highlight how the Saipem data sharing solution, based on Autodesk Forge and BIM360, brings more value to stakeholders from analytics initiatives, facilitates new way of thinking and points out how CDOs that embraces the new mindset around data-sharing will play a more strategic business role.

Speaker(s)

Alex is the fabrication systems representative of the Construction Technical Office & staffing dept. Since 2010, he has been working worldwide to spread the implementation on the projects of the Management/Construction and Mechanical Information Systems and contributing to the growth of the in house platform. During the last few years, Alex added value and aids introducing a BIM approach to the Saipem Construction and changing the management mindset.

Luca is a Senior Manager with the EMEA consulting group in Autodesk's Customer Success Organization. He received his Computer Science bachelor's degree from University of Genova, Italy. He has worked in IT as a consultant for the past 20 years, in EMEA and in North America countries, covering different roles and moving from pure software development to solution design and implementation, from gathering requirements to final delivery. Luca joined Autodesk

in 2008 based in Italy, he is now working in Europe, where he has been designing and implementing solutions for several Autodesk customers in the AEC and MFG industries. Luca is now leading a team of Solution Architects and Business Consultants, sharing his knowledge and supporting them while delivering services to our Customers.

Session Details

This session is delivered in the form of Case Study of about 30 minutes, where the speakers describe their experience in defining a solution that improve the data sharing and the colleboration between different stakeholders to easily review and understand the current status of projects relying on a data-centric dashboard accessible to everyone from any device.
The session aims to describe the reasons which led Saipem to take the specific decision as well as the role played by Autodesk Customer Success Organization Team.
During the session, the evolution of the solution will be presented together with the goals achieved so far, as well as plans on further developing the solution.
The following is a deeper overview of the Learning Objectives of this class.

Introduction
In the last years we learnt a new way of work: the smart work. The pandemic forced us to stay at home, forced us to developed new habits, forced us to find a new way of business. Probably we already started this changing before, but for sure the Covid-19 speeds up this process, this evolution.
Our main goal was to improve the collaboration: create more sustainable processes and results and increase operation efficiency.

Enable efficient cross-team collaboration strengthening teamwork
Cross-team collaboration refers to a collection of different groups, whether it's designers, developers, content marketers, or sales, who all efficiently work together toward a common goal.
The key to achieve success is to bring skills and talents of each department together to build a better end result (and a better team overall).

Facilitate knowledge and information sharing
Constant knowledge sharing brings seemingly endless benefits to organizations. Knowledge sharing increases social interaction in the workplace, leads to a rise in creative problem solving, preserves pre-existing knowledge so it is not lost as employees retire or move on, and enables every department to access the information they need, when they need it, therefore speeding up response times.

Increase business execution and reduce rework
Rework is one of the situations that most causes dissatisfaction in an organization's employees, and this type of situation can be stressful, frustrating, and detrimental to business profits. Saipem realizes that an efficient team management and organization system can eliminate most of it.
By properly planning a project, gathering all of the needed information, and keeping communication channels open, the chances of needing to rework the process are much less likely

Enhance workflows to make every day's tasks easier
Workflows are an important asset to any organization looking to get more done with less. They systemize the work that's done from day-to-day in order to spend less time manually managing how work progresses while focusing more on giving your best to individual tasks.
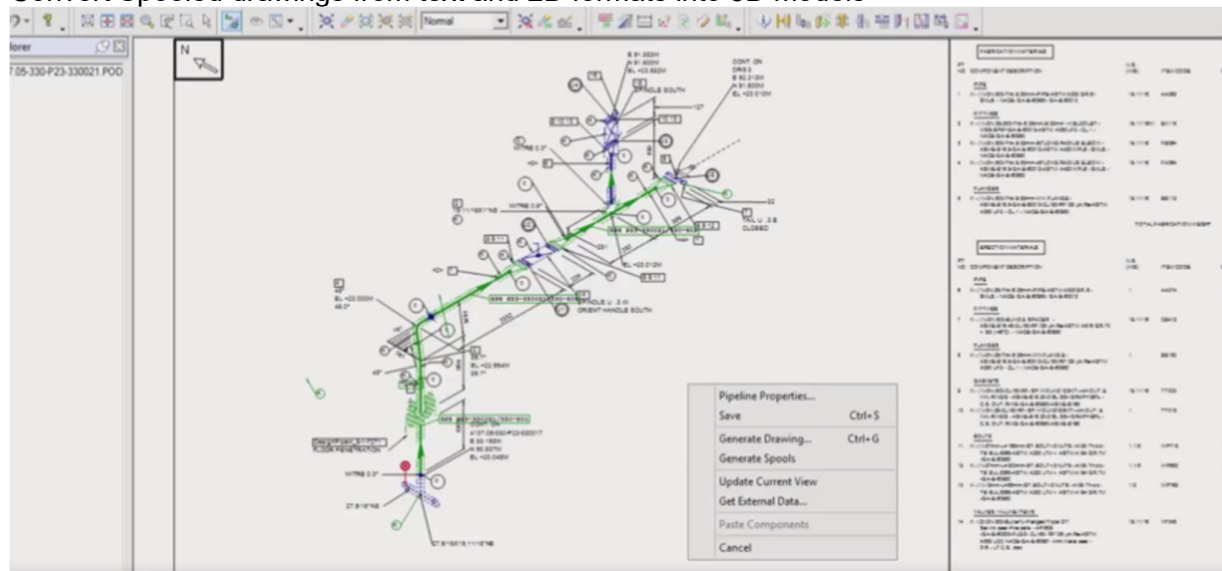
The solution

The solution includes all Learning objectives listed. The enhancement gained will be presented during the class. In detail we will see:

- Data analysis customization: complexity project managed in just a click!
WFA, Progress, Quality Certifications, Welding management, Spools status, Pressure Tests management, Punch Items management, Accounting
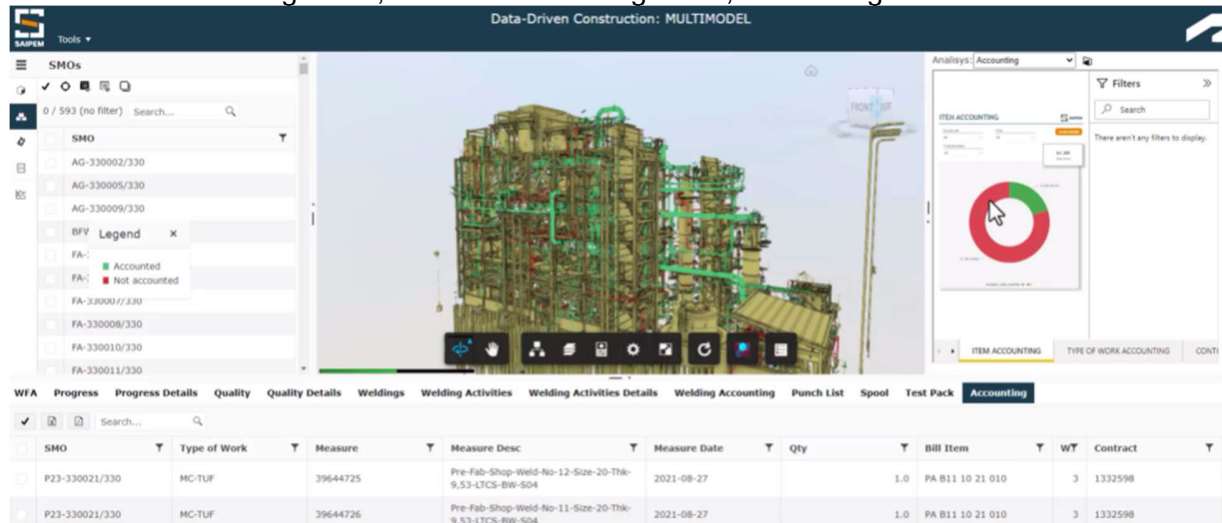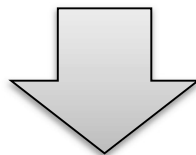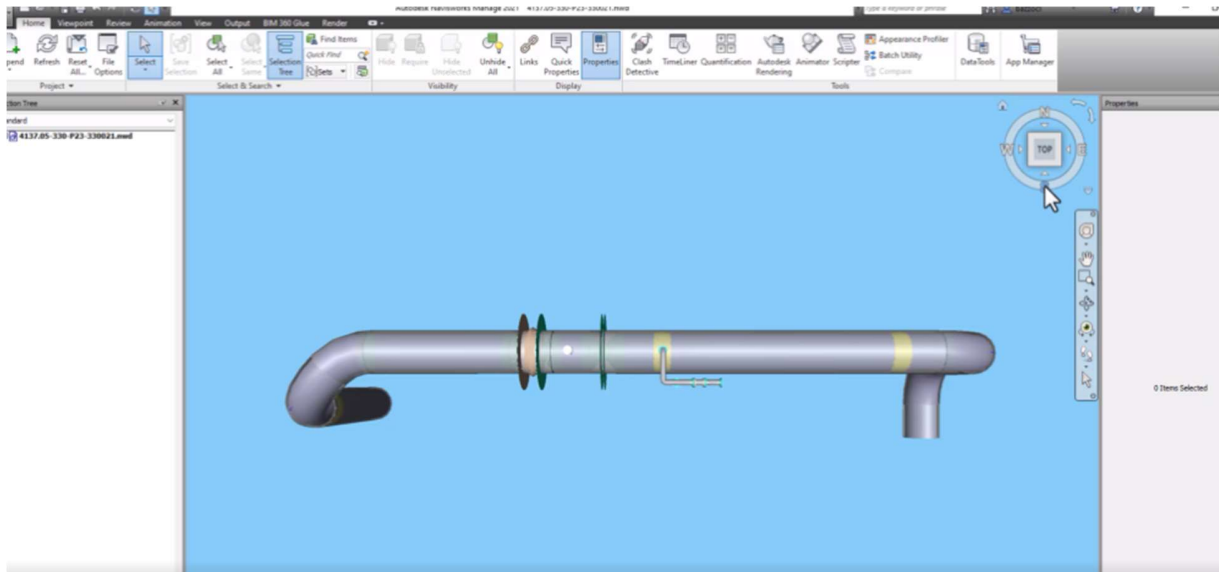

Example of accounting analysis

- Spooling: the Pandora's Box of all Fabrication managers
Convert Spooled drawings from text and 2D formats into 3D models

From Spooled Drawing in HXG Spoolgen
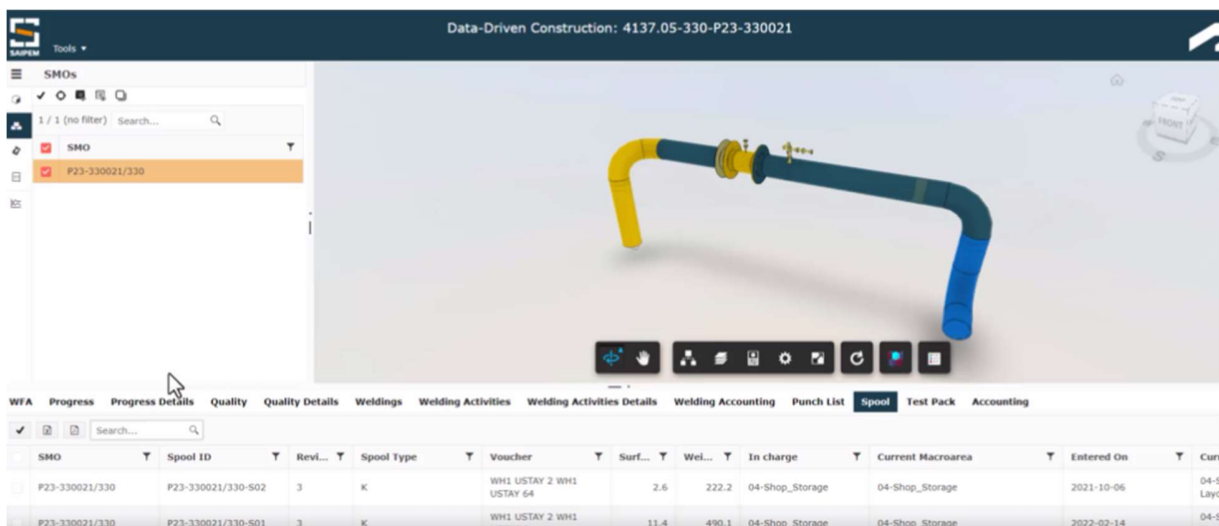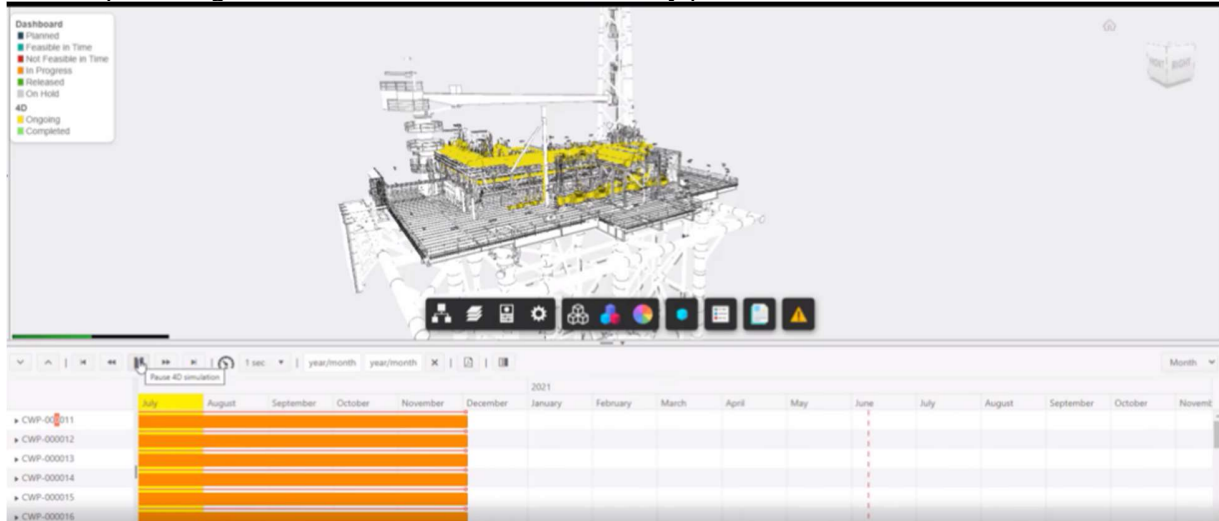
Into 3D Models (Navisworks view)

Our Forge Solution analysis (Spools status)

- 4D Sequencing: the easiest way to intercept potential issues in your schedule!
Catch up missing docs and materials that could delay planned activities

Example of 4D sequencing

- What-If Analysis: the forefather of the AI!
Simulate several scenarios starting from the lesson learning of previous projects

Example of What-If feasibility simulation