Julian/Ian

Import Intelligent P&IDs into simulation

Europe, Tue., July 21, 2020

Presented by Simulate & Learn Portfolio & Product Management team

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Which needs we are addressing?



I want to **rapidly build** a simulation model for validating my plant design and my control strategy.



I want to **reduce the project cost** and ensure smooth update of the engineering data during project execution.



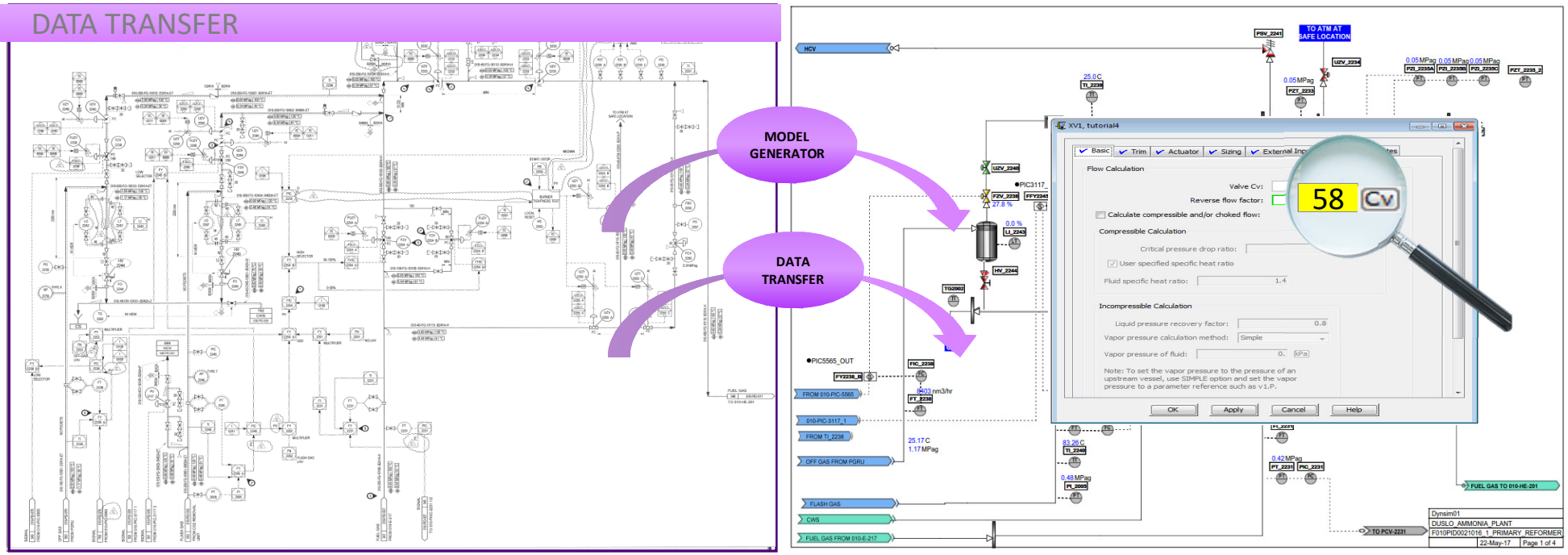
I want to **train my operators** as soon as possible.



I want to **automate all tedious activities** associated to data management, modelling and integration.

Import Intelligent P&IDs into simulation

DATA TRANSFER



1. **Scope** Selection. AVEVA Next Gen P&IDs comes with pre-selection of OTS scope.
2. Export the intelligent P&IDs as XLM using **DEXPI** standard
3. Model generator automatically build the corresponding **AVEVA™ Dynamic Simulation model**
4. With AVEVA Next Gen P&ID we can also transfer engineering data (e.g. valve CV)

DEXPI initiative

Data Exchange in Process Industry

https://dexpi.org/

Owner / Operators
- BASF
- Bayer
- Covestro
- Equinor
- Evonik
- Merck

EPC
- Air Liquide

Software Vendors
- Aucotec
- Autodesk
- Aveva
- Bilfinger
- Hexagon
- Semantum
- Siemens
- X-Visual
- eVision
- PTC



Research Organizations
- AixCAPE e.V.
- VTT of Finland
- TU Berlin
- RWTH Aachen University
- Tecgraf/ PUC-Rio
- Kyungpook National University

International Community
- ISO TC 184 SC4
- FIATECH / CII / POSC Caesar
- OPC Foundation
- CFIHOS
- DECHEMA / NAMUR / DKE / VDMA
- SSG

The objective of the DEXPI initiative is to develop and promote a general data exchange standard for the process industry, covering all phases of the lifecycle of a plant, ranging from specification of functional requirements to assets in operation.

"AVEVA believes that a data-centric approach is of greater value than document-centric solutions. Collaboration on data and information can only be successful if all parties agree on standards and if tools, applications and solutions guarantee those standards can be used and enforced..." (Maged Selim, AVEVA)

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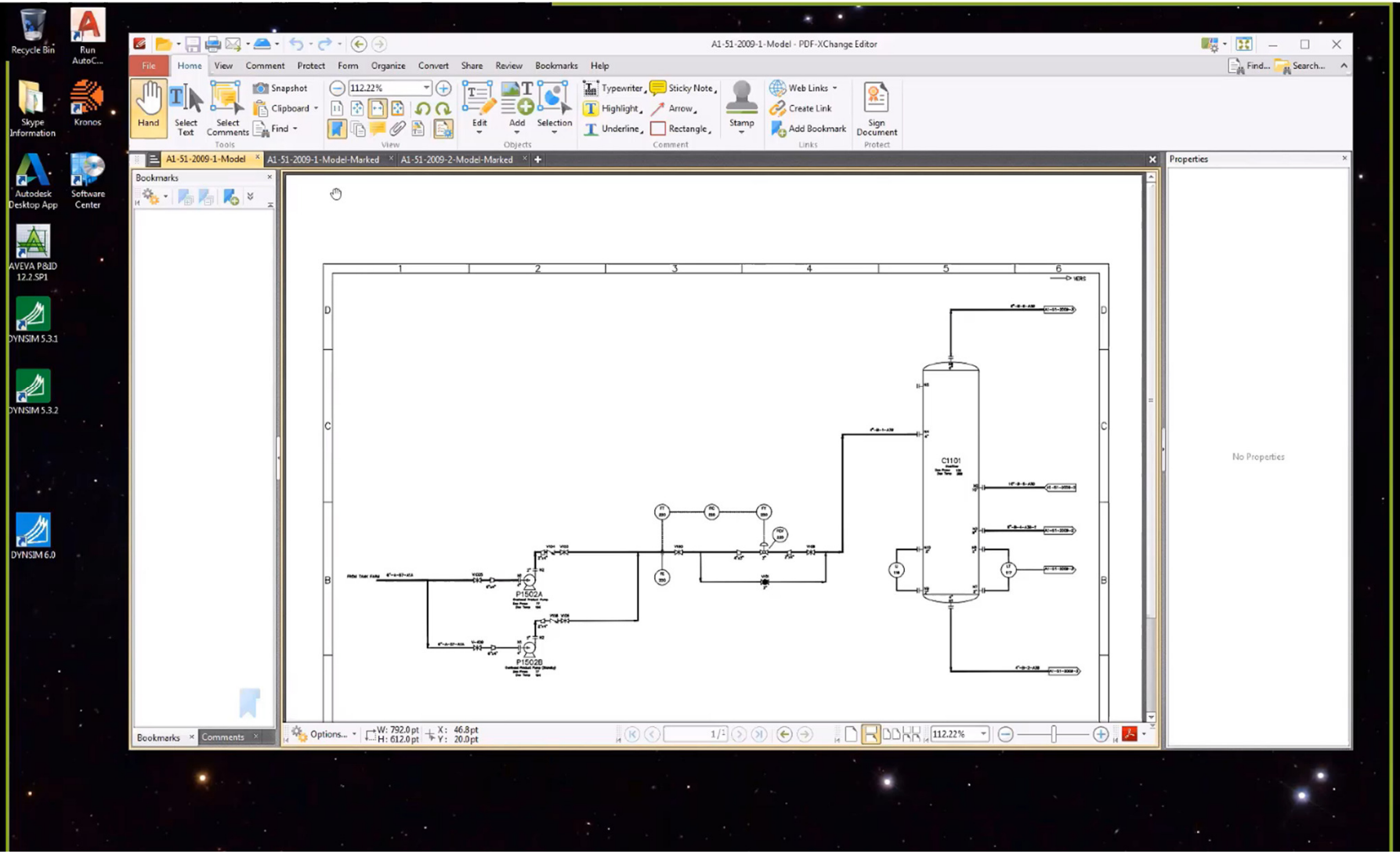
Which needs we are addressing?

Consultant	I want to **rapidly build** a simulation model for validating my plant design and my control strategy.		Dynamic models can be built rapidly (in **50%** of the time) and initialized to cold condition.
EPC	I want to **reduce the project cost** and ensure smooth update of the engineering data during project execution.		**Cost is reduced** and data is automatically extracted, tracked and used in the model.
Operation	I want to **train my operators** as soon as possible.		OTS schedule can be reduced by up to **27%** delivering the OTS 3 months earlier than usual.
Modeler	I want to **automate all tedious activities** associated to data management, modelling and integration.		Majority of the tedious activities are **automated**.

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DEMO
DYNSIM Auto Model Builder prototype

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A1-51-2009-1-Model - PDF-XChange Editor
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Typewriter
Highlight
Underline
Sticky Note
Arrow
Rectangle
Stamp
Web Links
Create Link
Add Bookmark
Sign Document
A1-51-2009-1-Model
A1-51-2009-1-Model-Marked
A1-51-2009-2-Model-Marked
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P1502A
P1502B
Recycle Bin
Skype Information
Kronos
Autodesk Desktop App
Software Center
AVEVA P&ID 12.2.SP1
DYNSIM 5.3.1
DYNSIM 5.3.2
DYNSIM 6.0

QA and Discussions

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Questions

Which software are you using for Intelligent P&ID in your organization?

Please answer using the chat