Inventor to Simulation Flex

Marius Jablonskis
Senior Consultant BIM
Norconsult

Øyvind Engelstad
Hydropower Vice President
Norconsult

Kristoffer Bugge
Hydropower Engineer
Norconsult

Class summary

In this session you will learn about the interaction between Inventor Professional and Simulation Flex software. We will focus on using Inventor models via direct integration for stress analysis, code checking, mechanical simulation and computational fluid dynamics (CFD). You will get overview of the Simulation Flex products and functionality.

Key learning objectives

At the end of this class, you will be able to:

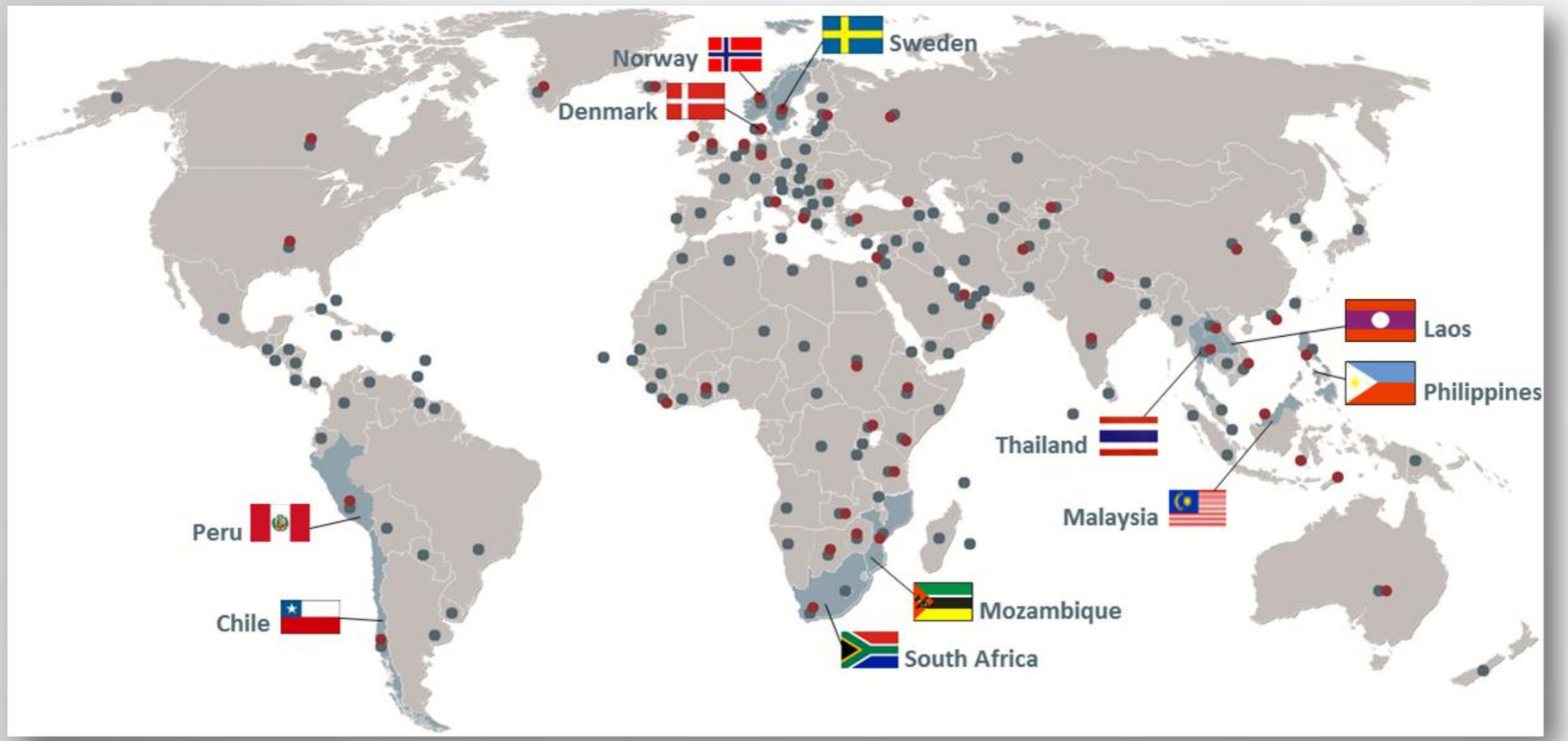
- Differ functionality and types of analysis available in Inventor Professional and other Simulation products
- Transfer Inventor models to Robot Structural Analysis and conduct code check
- Transfer Inventor models to Simulation Mechanical and conduct static stress and buckling analysis
- Transfer Inventor models to Simulation CFD and conduct flow analysis

About the Company

Norconsult

Norconsult is Norway's largest and one of the leading multidisciplinary consultancy firms in the Nordic region. Our services are geared towards community planning and design, and we have become a leading player both nationally and internationally.

More than 50 Years of International Experience



10 000 Projects

2 900 Employees
82 Offices
11 Countries

Countries where we have permanent offices

Countries where we have had projects in 2012

Countries where we have had projects since 1956

Business areas

Architecture

Buildings

Environment

Energy

Industry

Oil and Gas

Planning

Transport

Risk Management

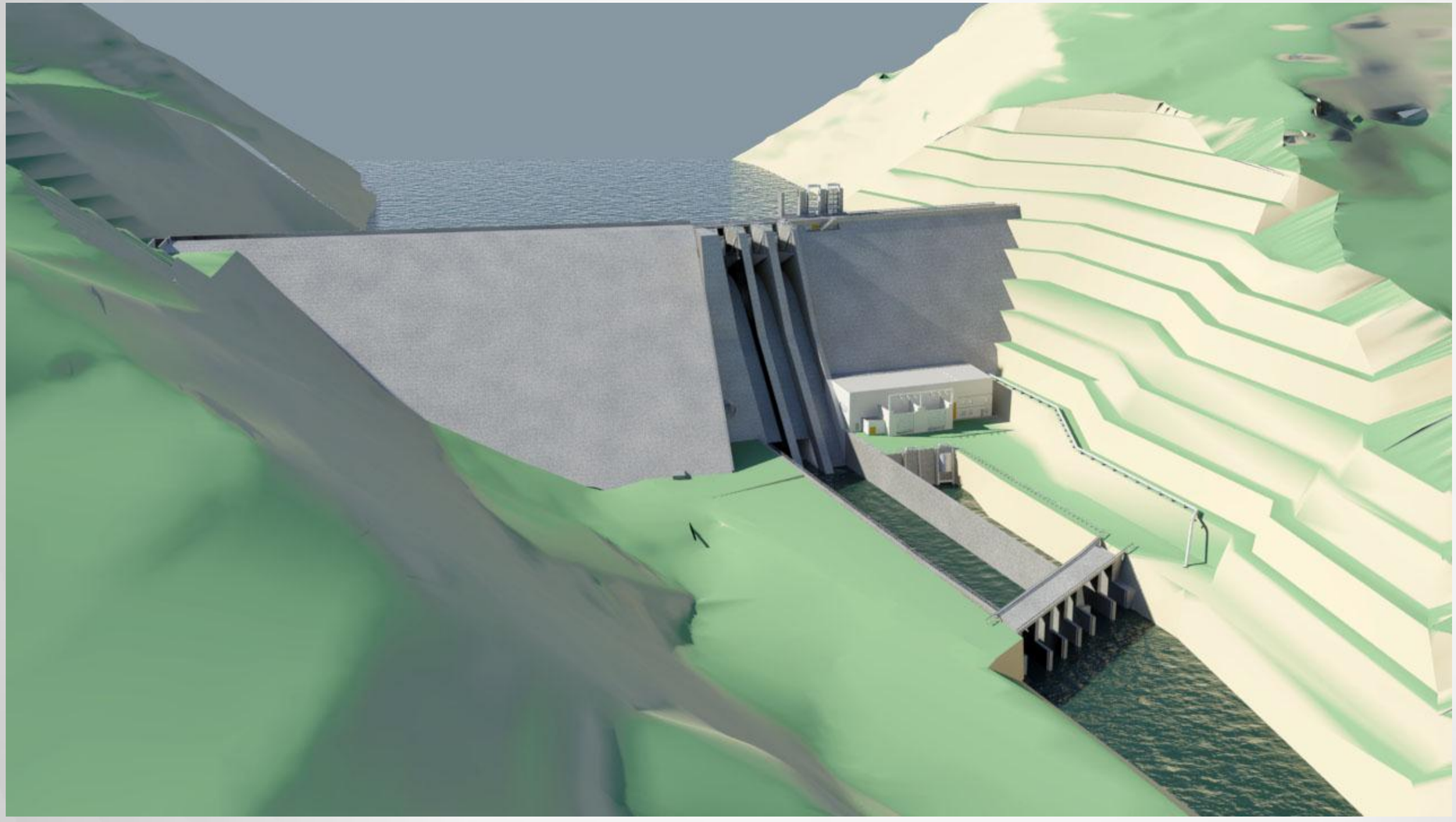
Water

Hydropower Energy

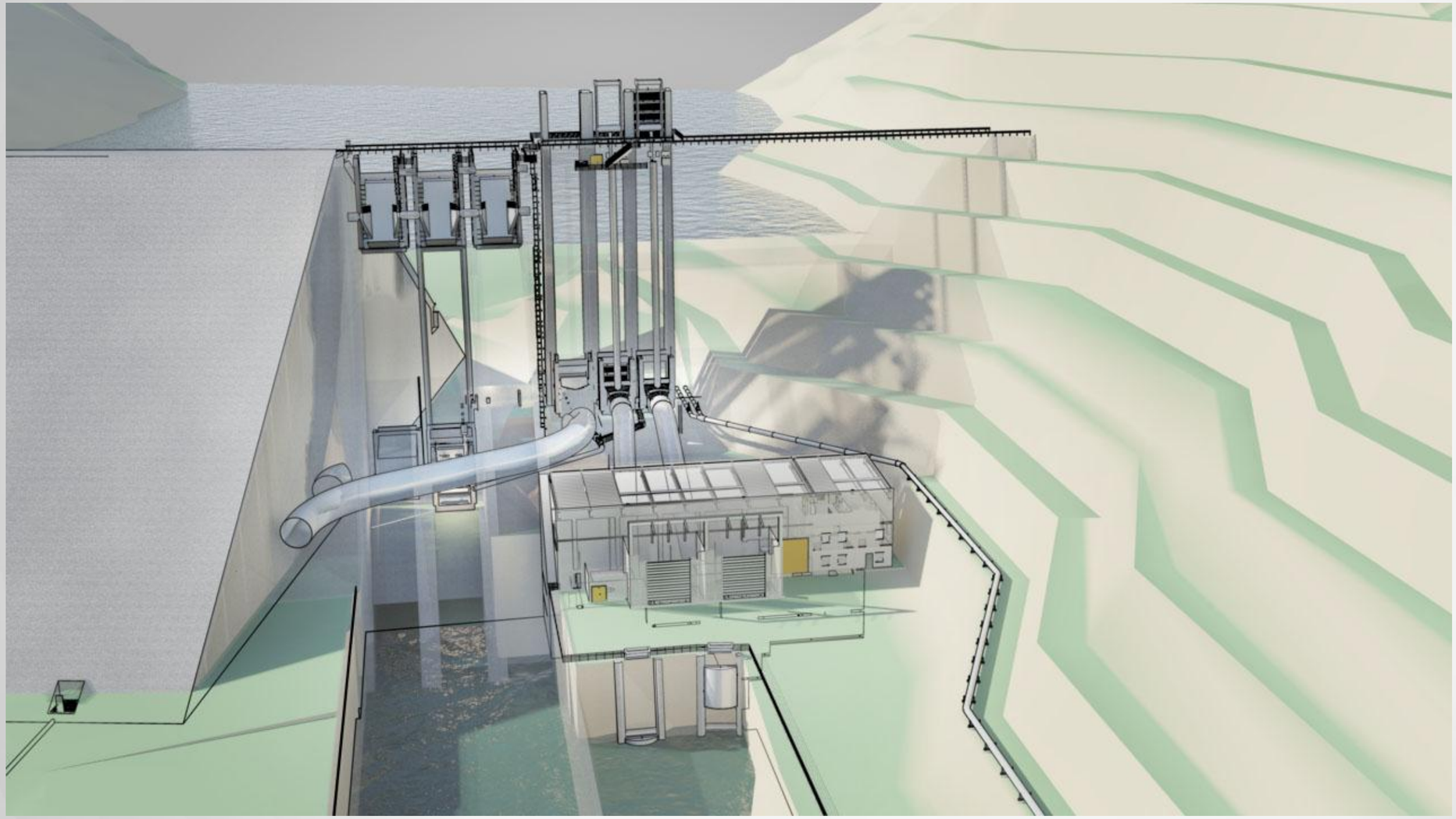
Typical Projects

Typical Projects

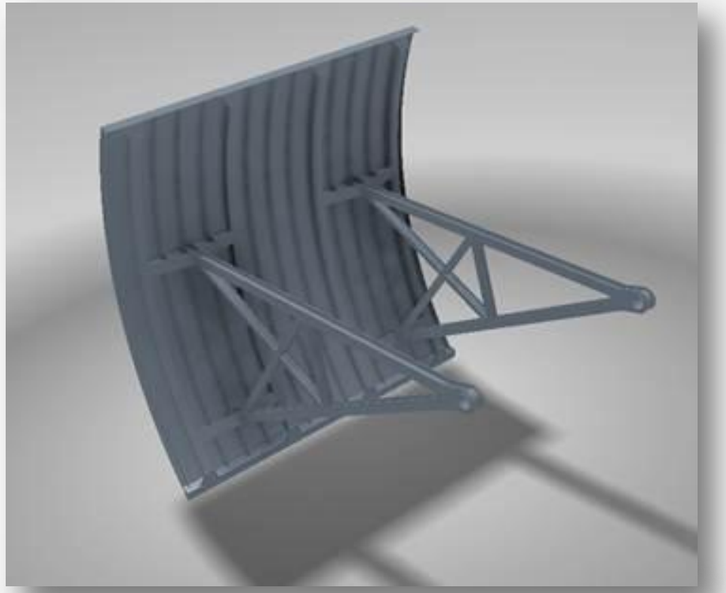
Typical Projects



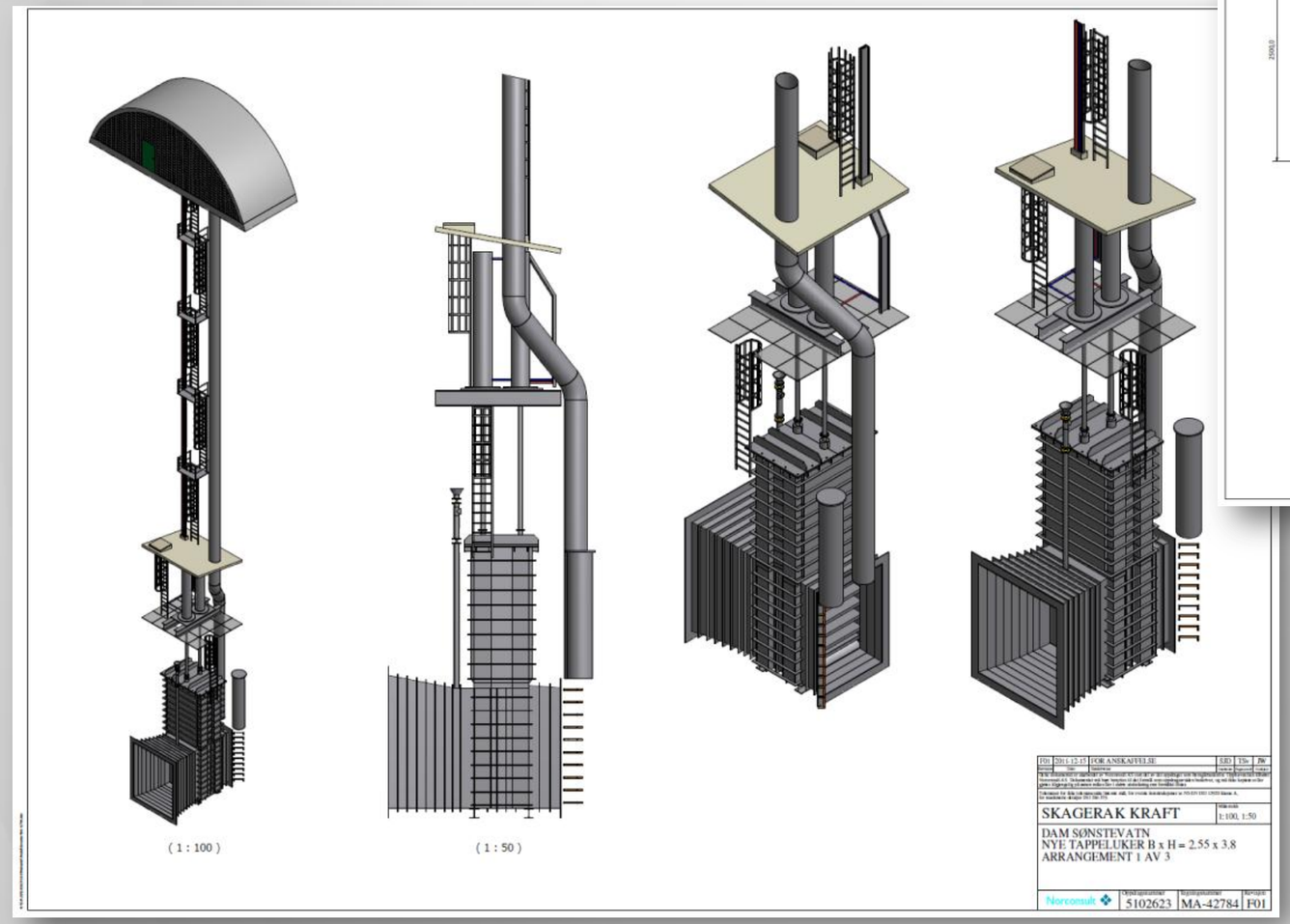
Typical Projects

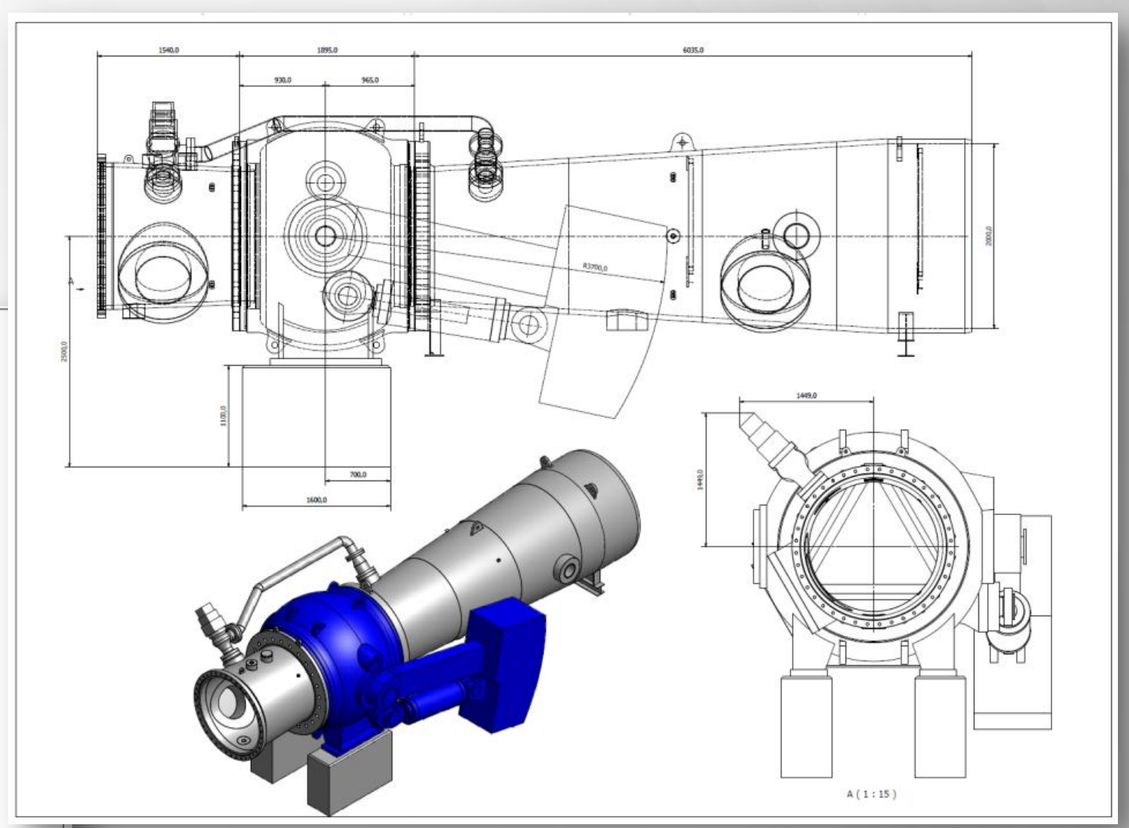


Hydropower Gates

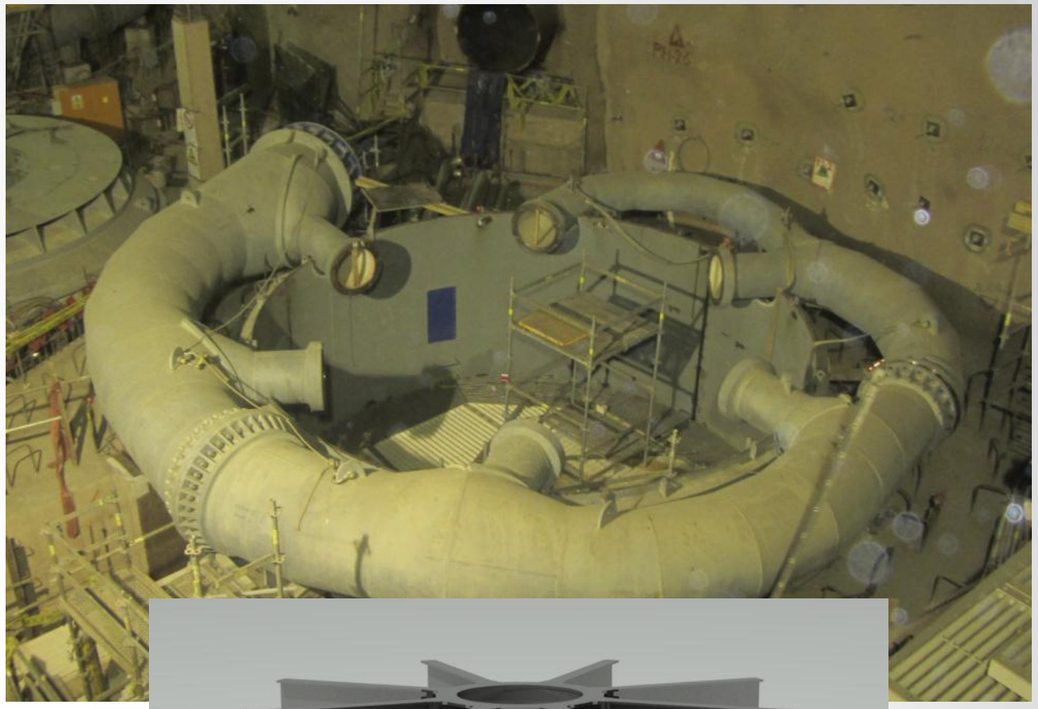


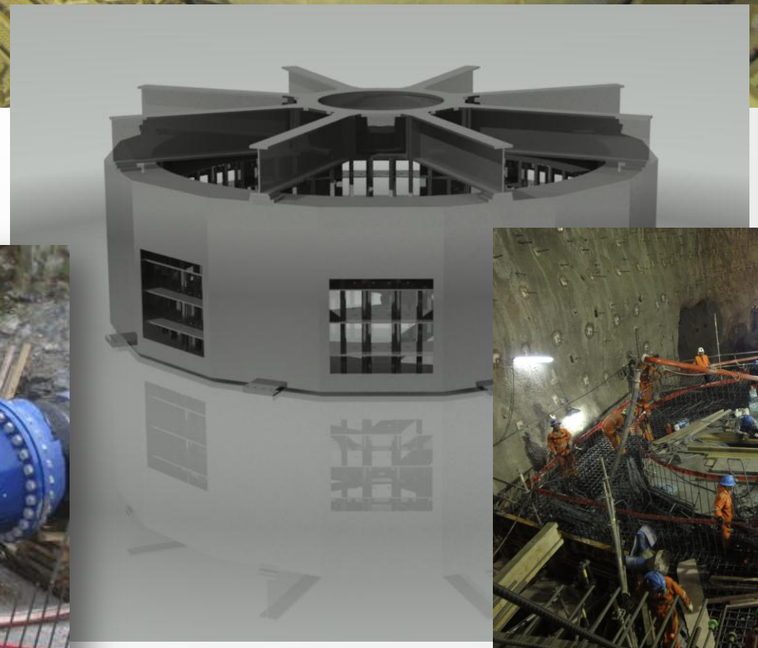
Mechanical Equipment





Mechanical Equipment

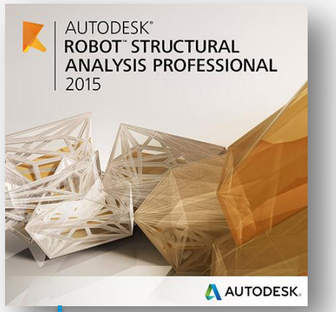


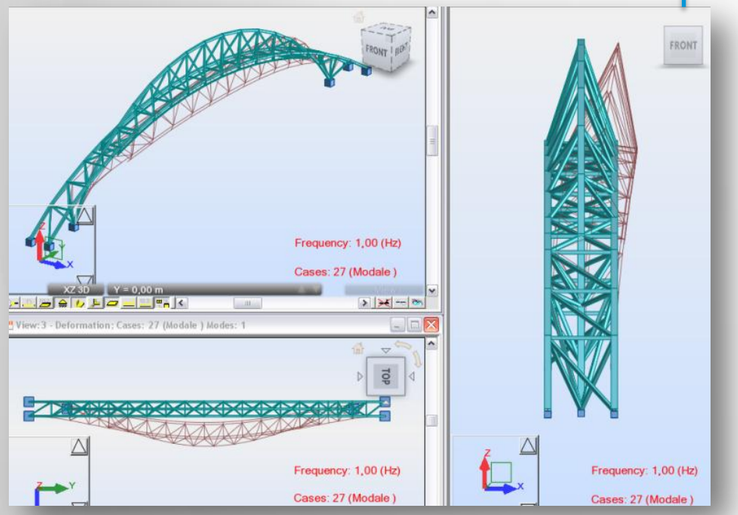


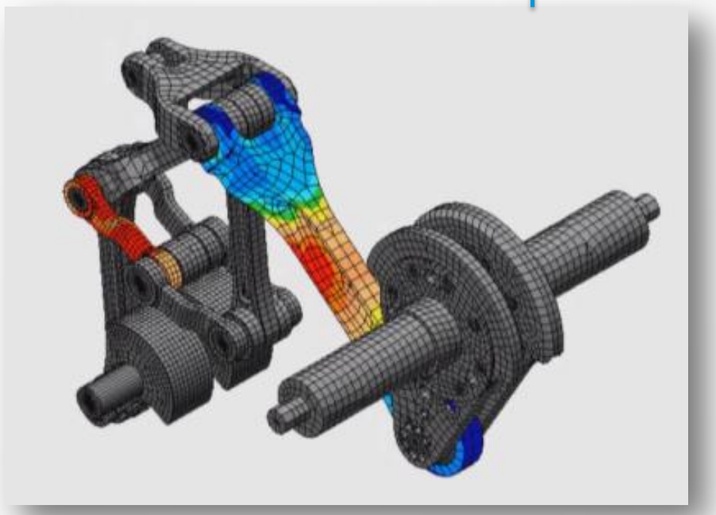
Autodesk Simulation Flex

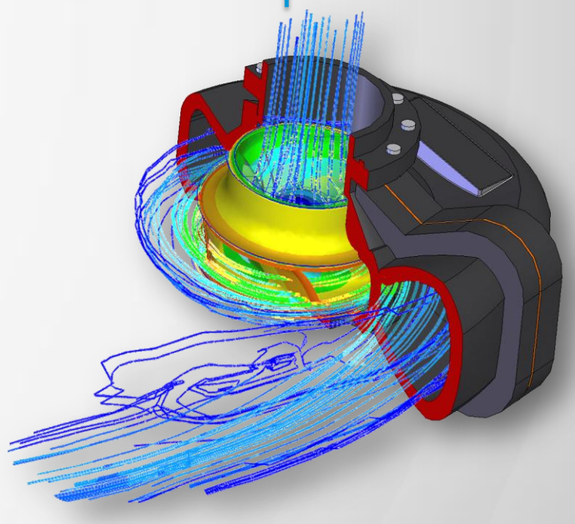
Simulation Flex

=

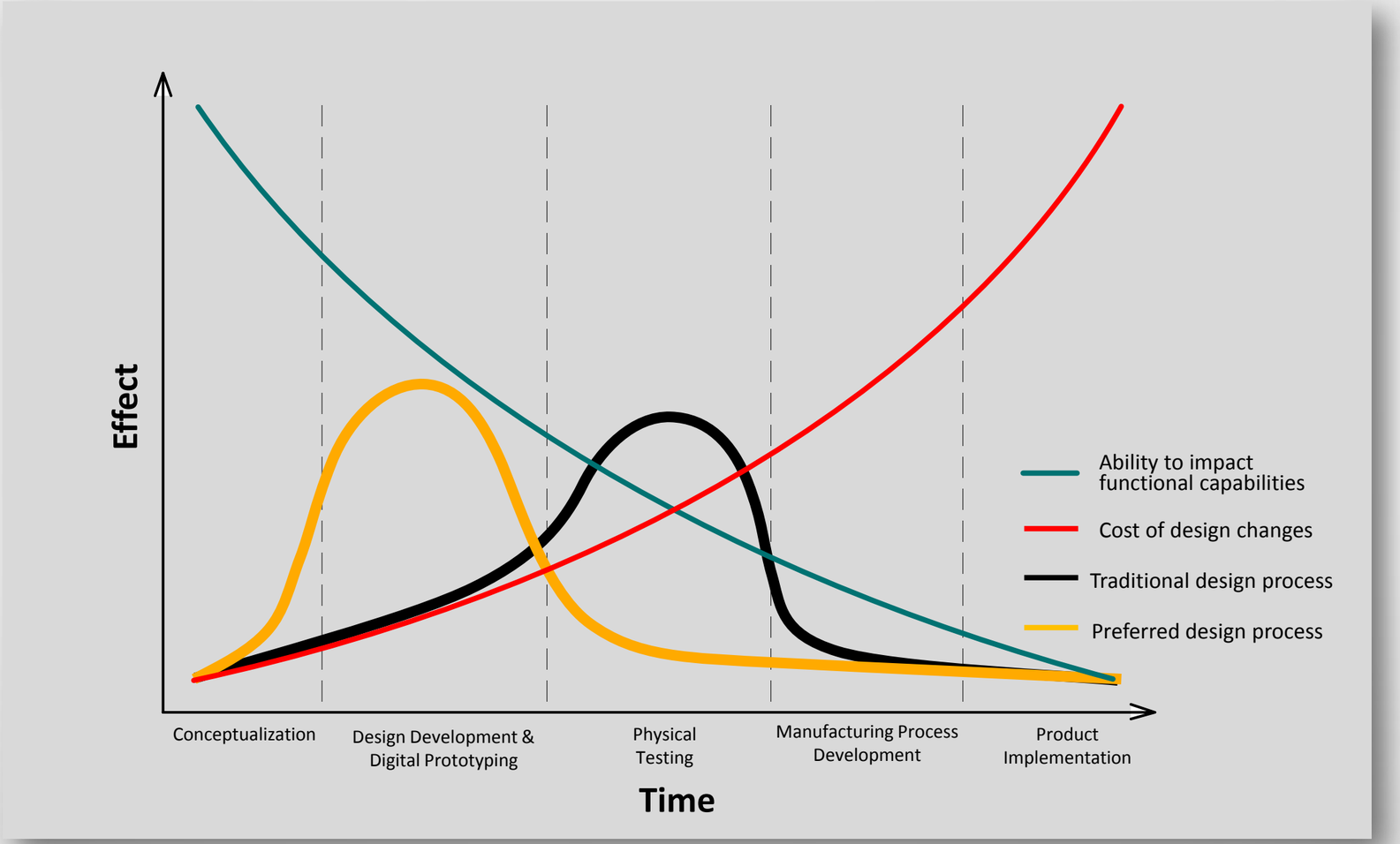








Why Simulation Flex?



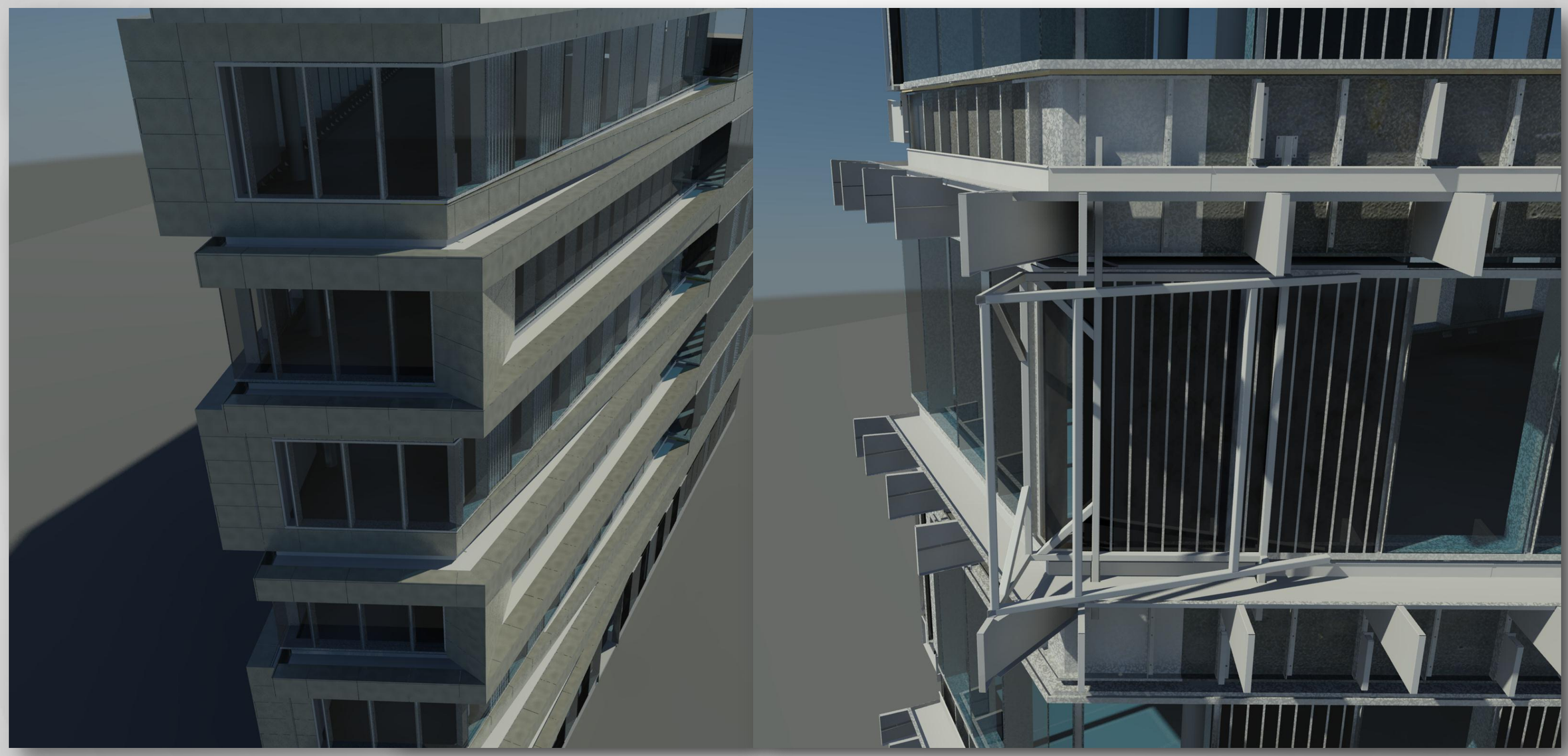
Simulation Interoperability

Simulation Interoperability

Design Cycle Optimization

Inventor and Structural Analysis

Inventor and Structural Analysis

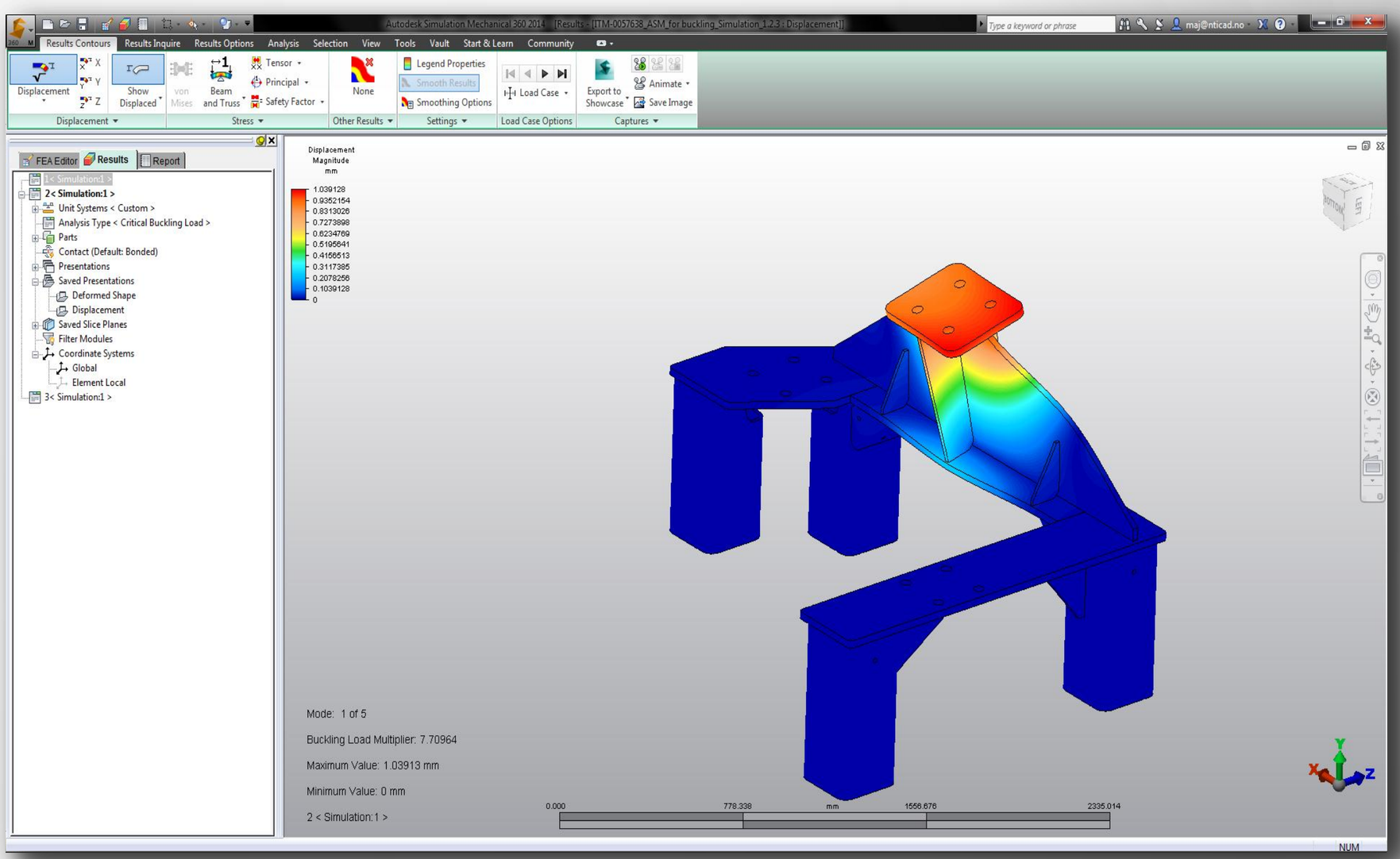


Live Presentation

Inventor and Mechanical Simulation

Inventor and Mechanical Simulation

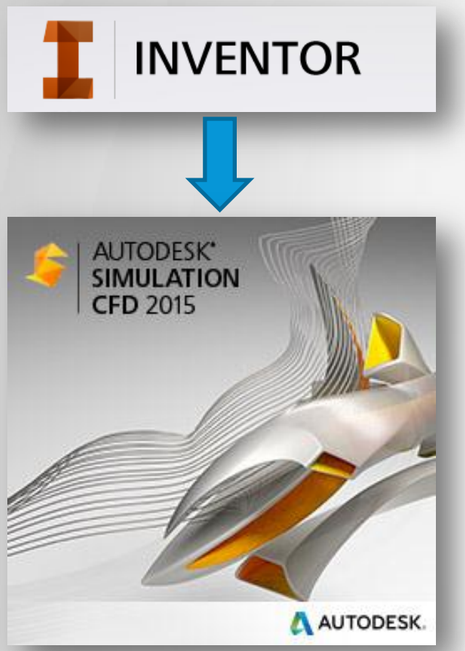
INVENTOR

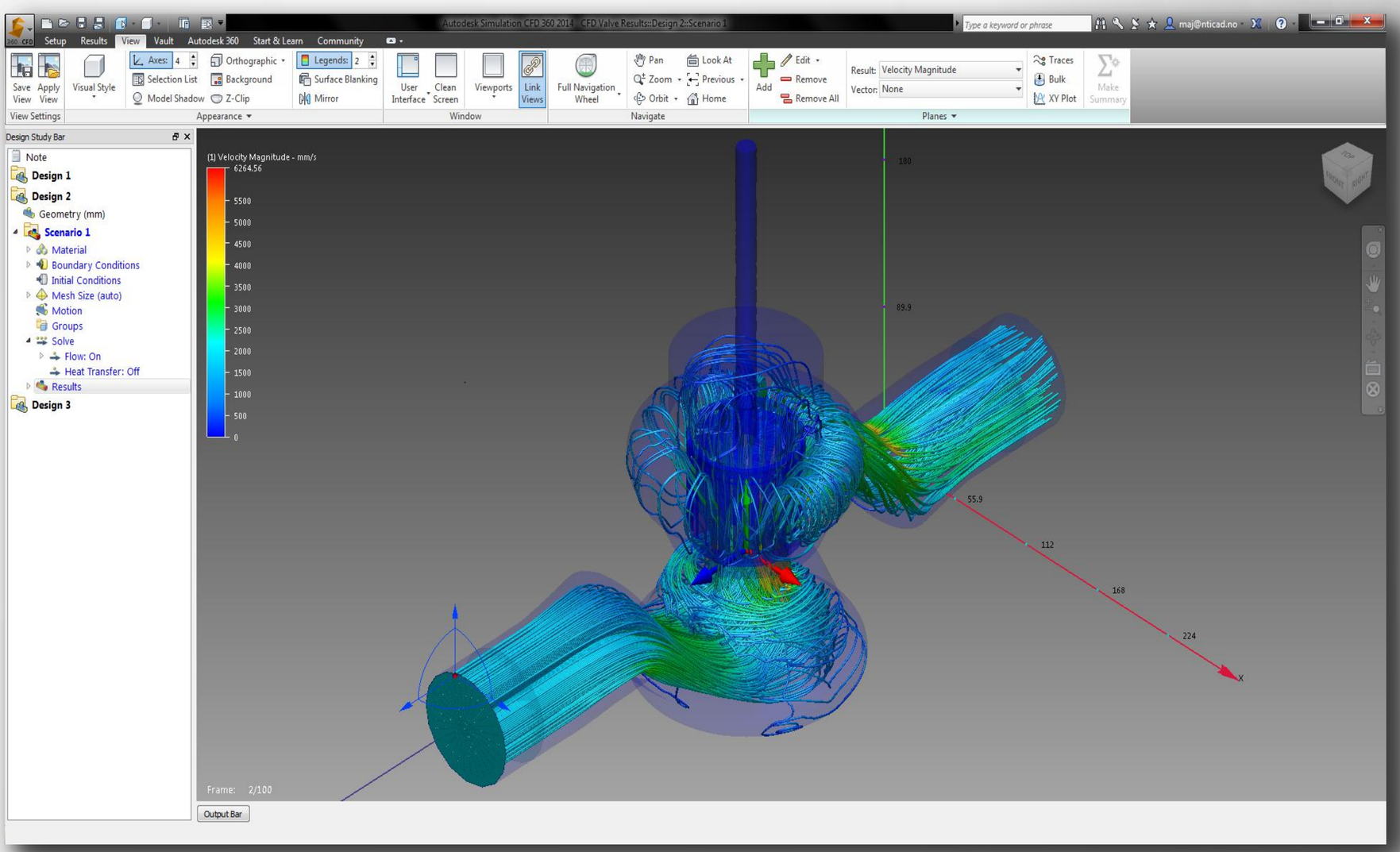


Live Presentation

Inventor and Fluid Dynamics

Inventor and Fluid Dynamics





Live Presentation

Recap Questions

- Which of Simulation Flex products has direct integration with modeling software?
- Which integrated Autodesk Simulation products can be used to conduct code checking?
- What type of analysis can be performed using Simulation Mechanical?
- What unique functionality has Simulation CFD?

Thank You for Joining

Marius Jablonskis
marius.jablonskis@norconsult.com

Øyvind Engelstad
oyvind.engelstad@norconsult.com

Kristoffer Bugge
kristoffer.bugge@norconsult.com

The End*

*Actually, there are few more slides

Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2014 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time

Students, educators, and schools now have

FREE access to Autodesk design software & apps.

Download at www.autodesk.com/education

Earn your professional Autodesk Certification at AU

Visit the AU Certification Lab

Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document. © 2013 Autodesk, Inc. All rights reserved.