

Webinar: Principles and Workflows for **PMI Using NX**



Curtis Rands, ATA Engineering 7 June 2016

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ata-engineering



@ATAEngineering

What We Do

ATA Engineering's **high-value engineering services** help solve the most challenging product design challenges



Defense

Aerospace



Robotics & Controls



Theme Park Rides



Industrial & Mining Equipment



Consumer Products



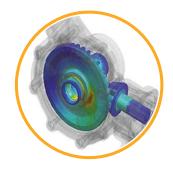
Our Services

We provide our customers with complete, integrated solutions



Design

From initial concept development to detailed structural design



Analysis

Comprehensive structural, fluid, acoustic, and thermal analysis services



Test

Industry-leading structural test services for extreme loading environments



Our Software Services

ATA is a value-added reseller for Siemens PLM Software



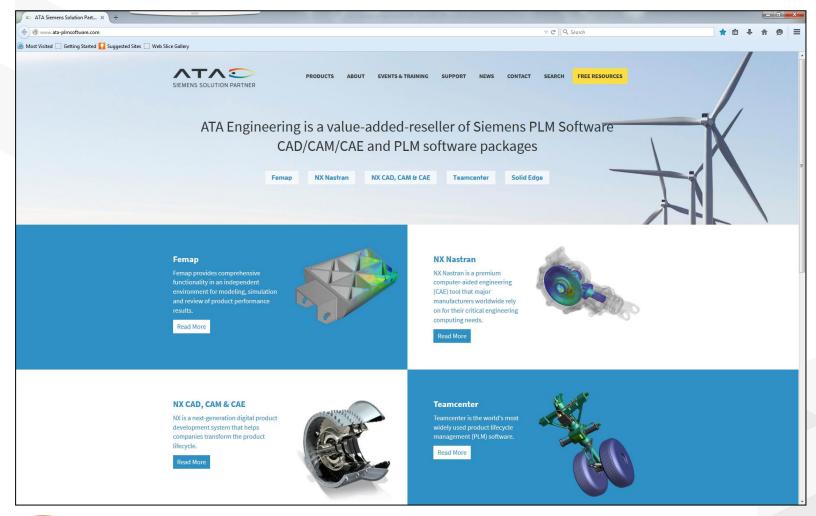
- > Femap
- > NX Nastran
- > NX CAD, CAM, & CAE
- > Teamcenter
- ➤ Solid Edge
- Developer of the official NX Nastran training materials
- Preferred North American provider of NX Nastran training





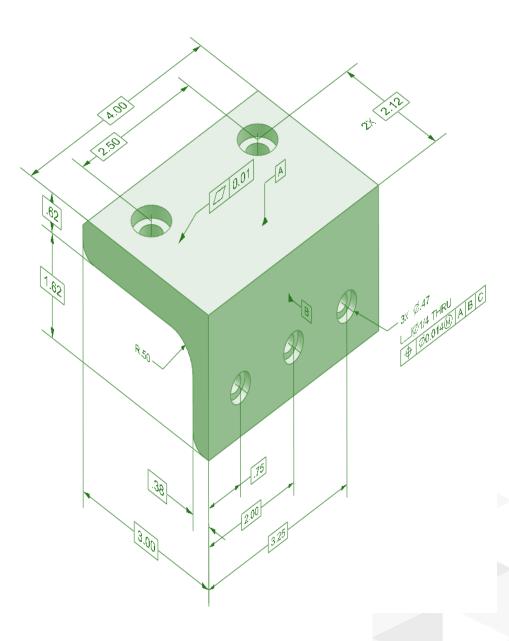
Our Online Resources

www.ata-plmsoftware.com

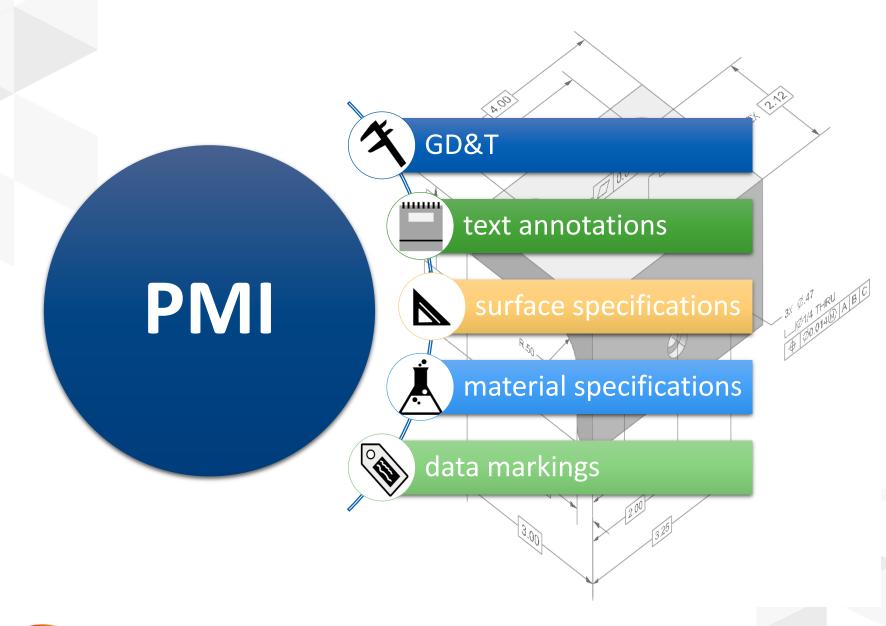




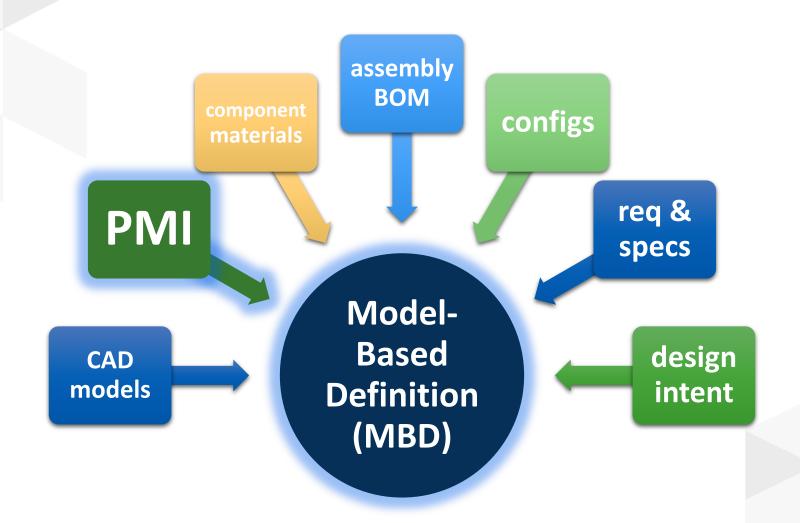
Product
and
Manufacturing
Information













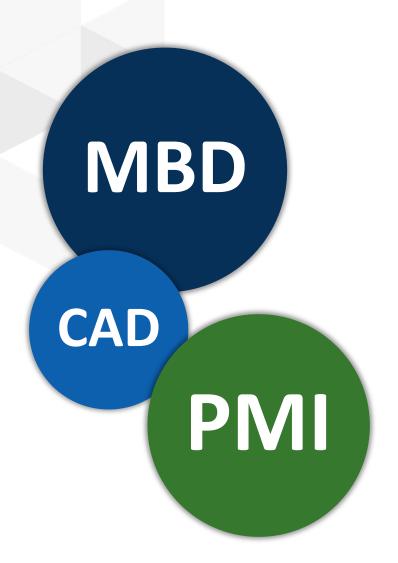


Rooted in ASME Y14.41-2003 "Digital Product Definition Data Practices"

Aims to improve productivity and reduce time to market

Expected to replace 2-D engineering drawings used for manufacturing inspection documenting/archiving design data





manufacturing

- CNC machining
- additive processes

inspection and quality control

tolerance analysis



idea development

customers markets requirements conceptual design

analysis

prototypes

testing

reviews

detailed design

analysis

prototypes

testing

reviews

manufacturing

pilot/LRIP

mass

production

quality control

engineered product development process

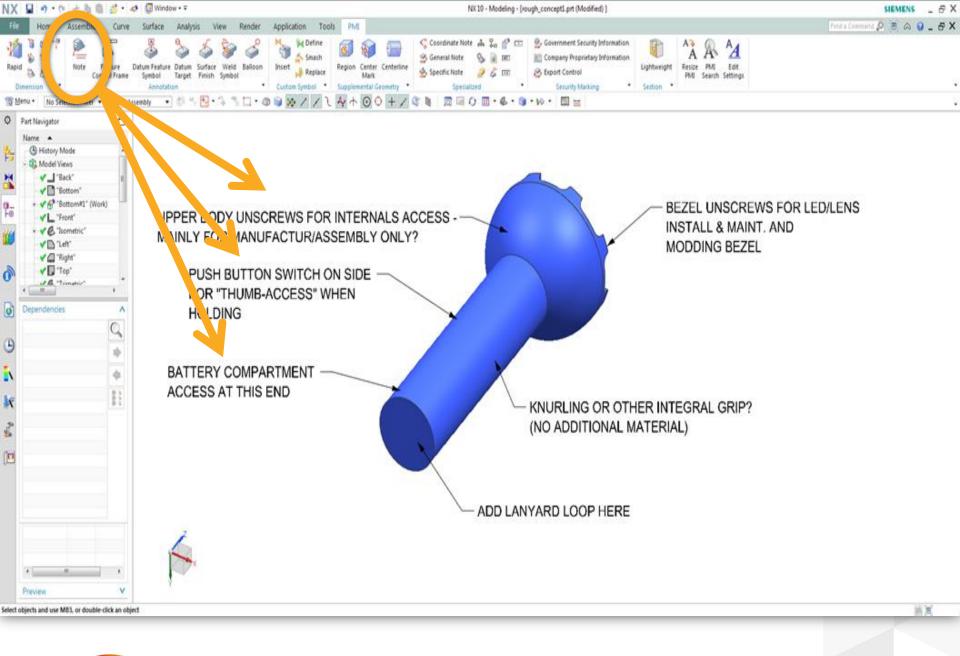






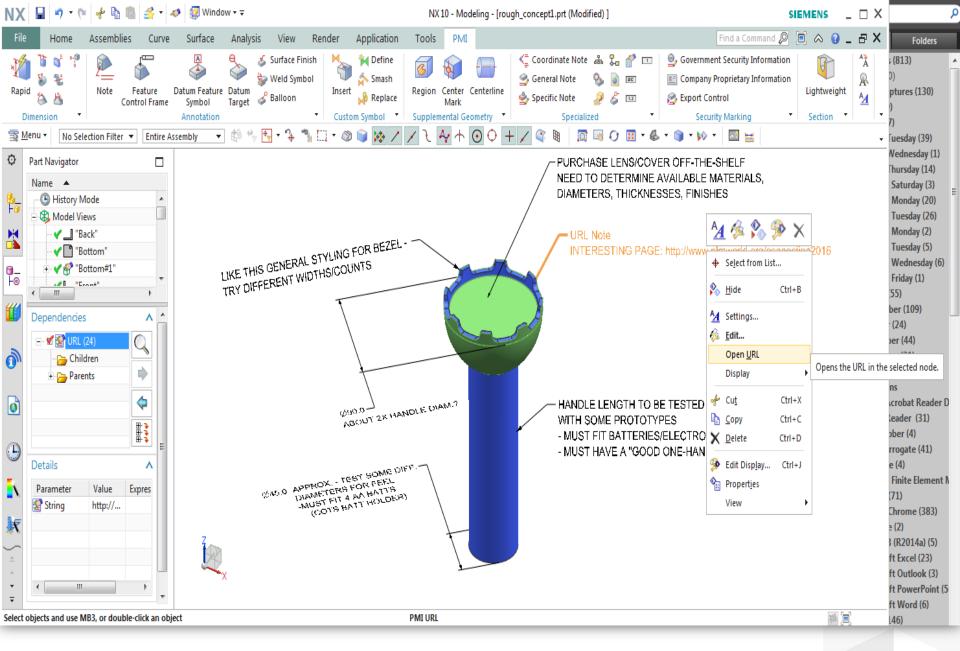
Typical Scenarios and Use Cases





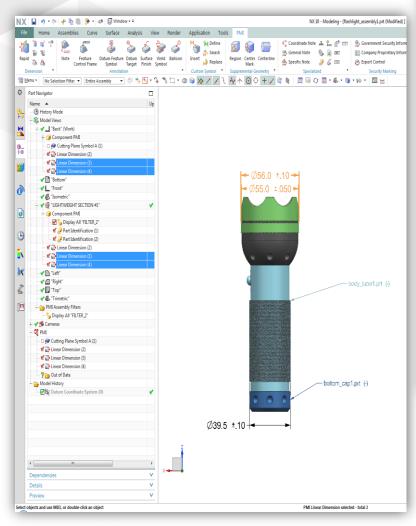


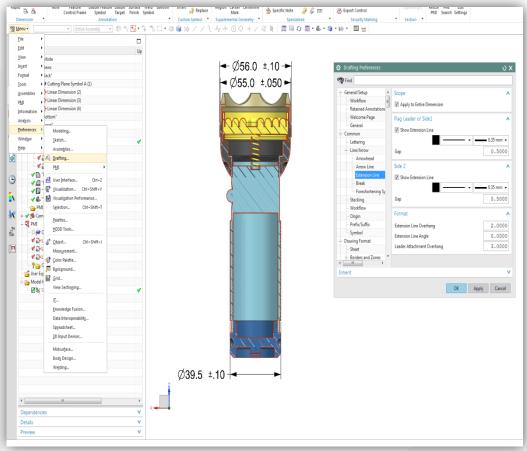
Scenario: conceptual design with notes capturing design intent and requirements





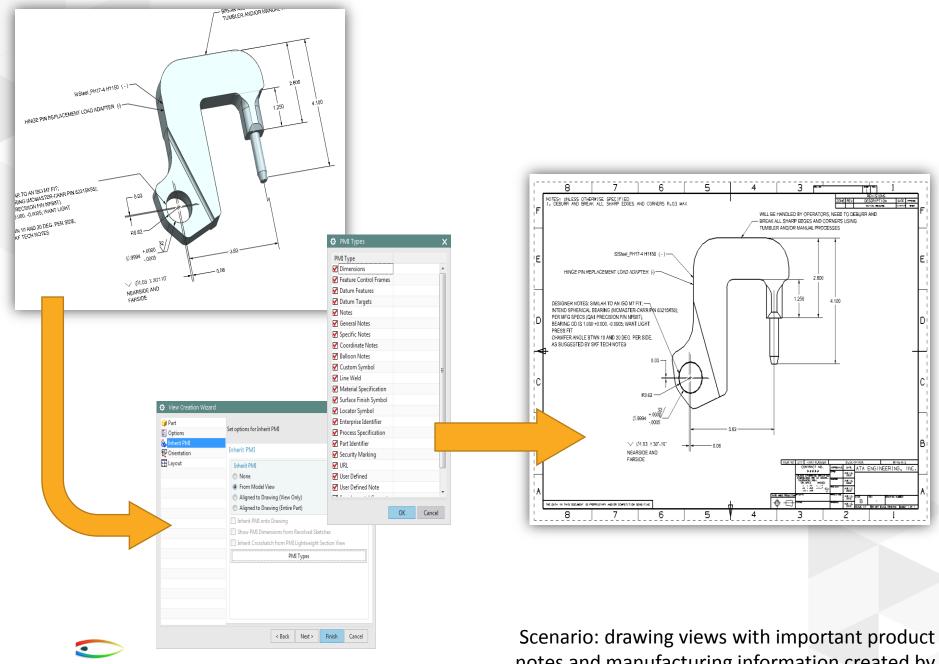
Scenario: conceptual design; live dimensions, notes, URL notes, associated objects







Scenario: detailed product design; live dims, lightweight section views, part/material labels, assembly filters, associated objects, display preferences



ENGINEERING, INC.

notes and manufacturing information created by the designer

Select Workflows in NX

Live Demonstration



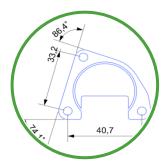
Getting Started

Model Views and PMI



Section Views

Creating and Annotating Lightweight Section Views



Sketch Dimensions

Converting sketch dimensions to PMI



Other User Tips

Dimensioning splines, working in assemblies







Thank You for Participating!



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