



# ENGINEER**3D!** TRAINING+TECHNOLOGY CONFERENCE

OCTOBER 2-3  
MILWAUKEE, WI



# 3D Is Not All About CAD

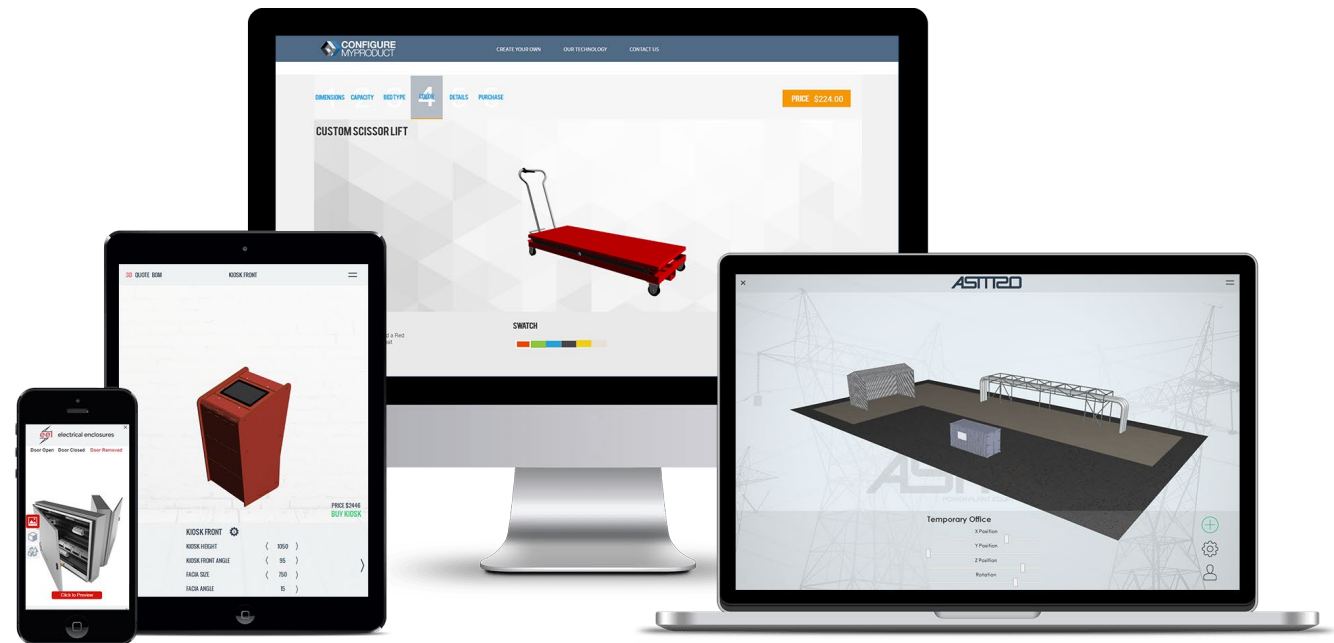
Efficient Delivery of 3D geometry for online configurators

Madhu Valikkodath

DriveWorks Applications Engineer

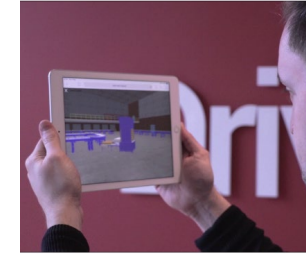
# Agenda

- What is Driveworks 3D?
- Ideal Configurator.
- Mass Generation Approach
- Mixed Mode Preview
- Visualization and Interactive 3D
- Layout Configurator Sample
- Questions

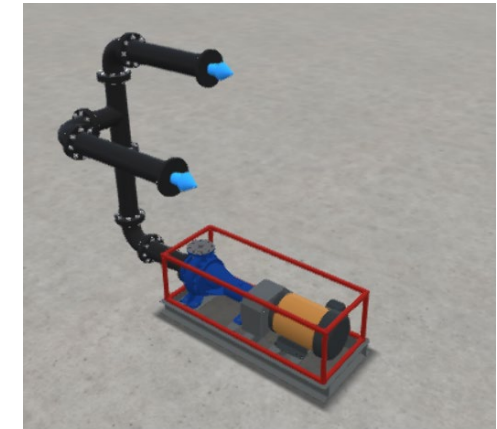


# What is DriveWorks 3D?

- DriveWorks specific 3D format
- Display CAD on a DriveWorks Form
- Efficient viewing over the web with Live
- Created from Solidworks with an add-in
- 3D viewer for non-native import
- Manipulate with out using CAD
- Swap files, change appearances, etc....



Strap Color Case Material Face Markers Second Hand Face Color



Add Swap Delete



Straight



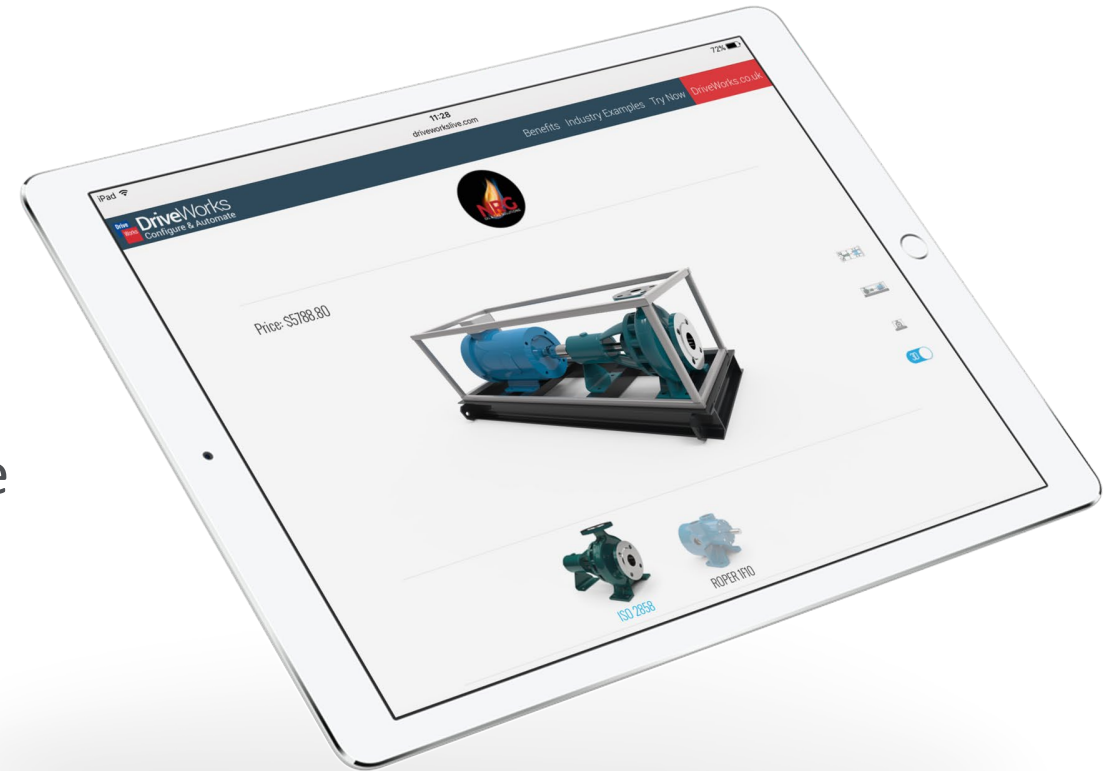
Elbow  
Straight



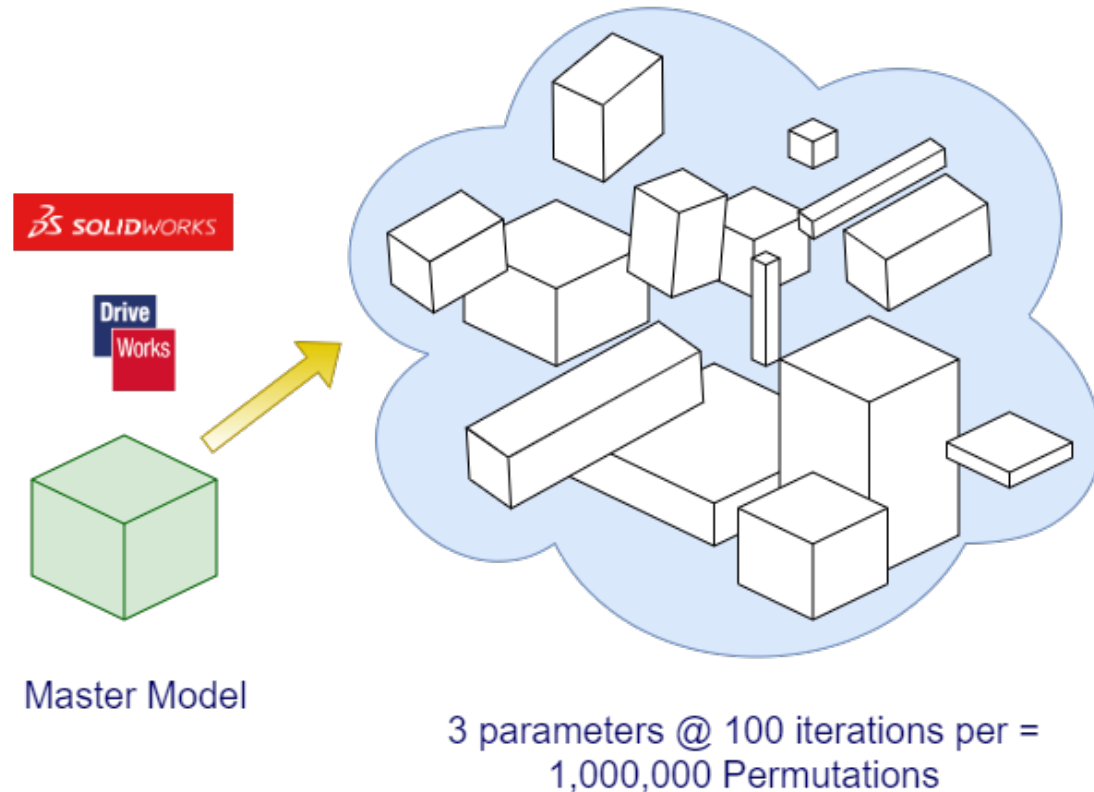
T Junction

# The Ideal 3D Configurator

- Accuracy
  - Accurate representation
  - Colors and Textures
- Performance
  - Fast load times
  - Accessible on Desktop and Mobile
- Interaction
  - This is a sales tool
  - Needs to hold customer attention
  - Increase purchase rates



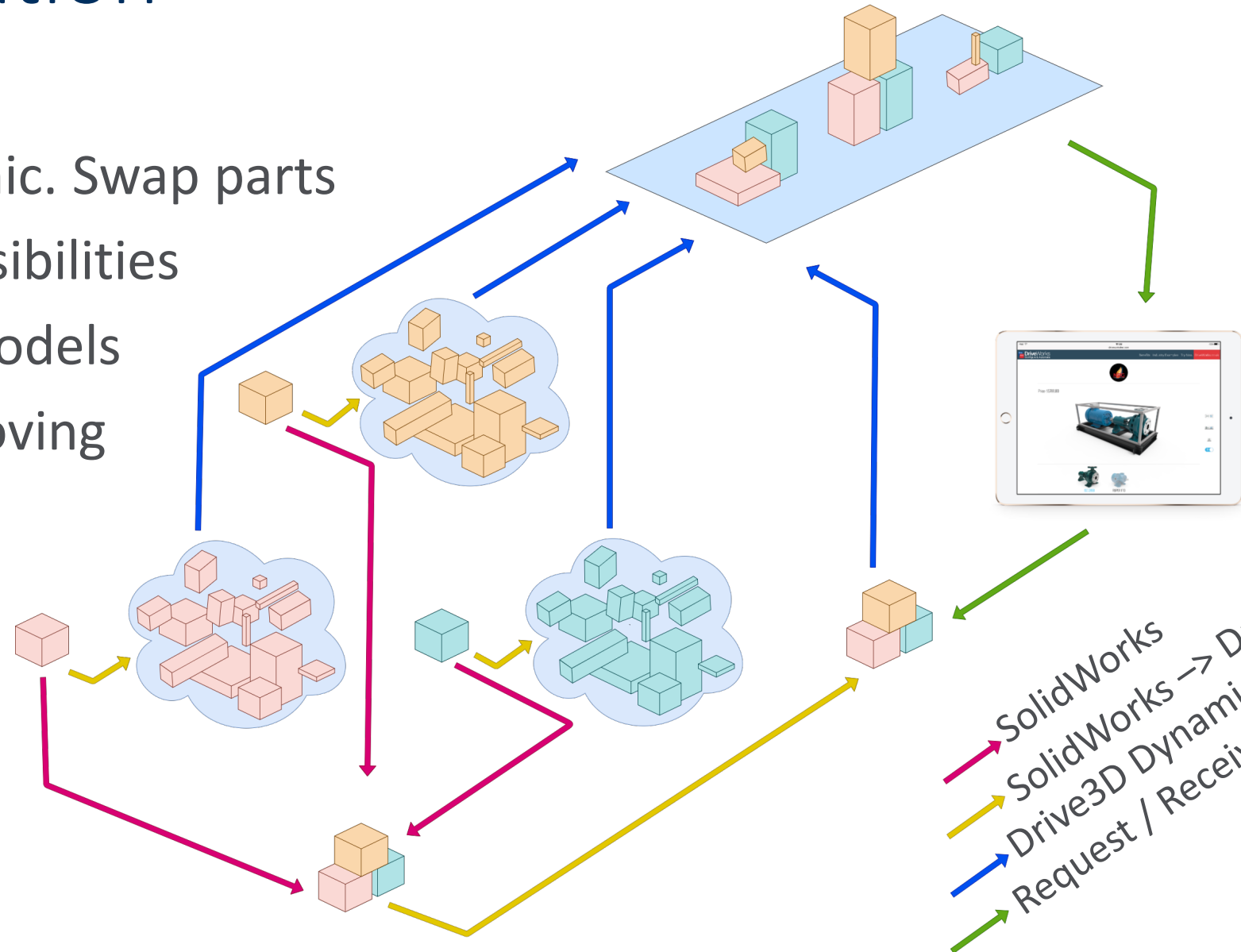
# Mass Generation Approach



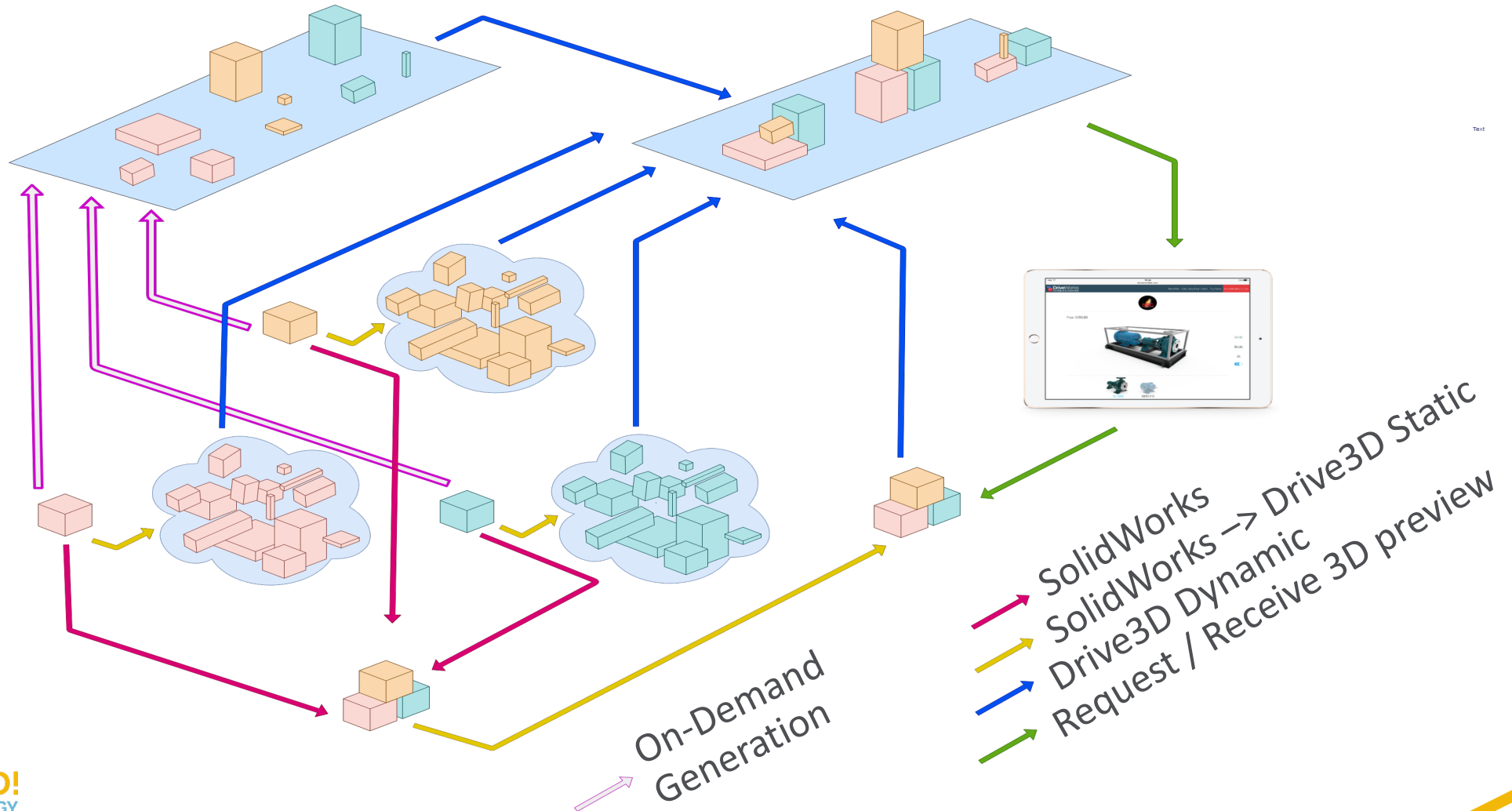
- Pre-create 3D Geometry
- Leverage Auto-pilot for generation during off-peak hours
- Pre-launch validation
- “Clever” projects for visual validation
- Reduce required On-Demand Solidworks computing capacity

# Mass Generation +

- Drive3D Static
- Drive3D Dynamic. Swap parts
- $1.00 \times 10^{18}$  possibilities
- 4 Solidworks models
- Scaling and Moving



# Mixed Mode Preview





# Visualization and Interactive 3D

- Appearances
- Scenes
- Cameras
- Click
- Move
- Layout



# Layout Configuration Sample

Epic!!!!!!

<https://factorylayout.driveworkslive.com/Apps/Demo-FactoryDashboard/>

# Questions ???

