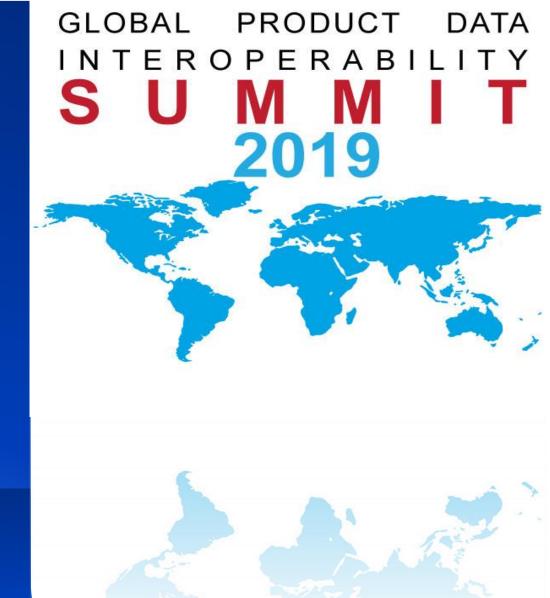
Lessons Learned: Ten Years of Applying CAD Model Comparison

Andy Beaupre Kubotek3D



GPDIS\_2019.ppt | 1

#### **Andy Beaupre**

General Manager – Sales and Support – Kubotek3D

 Andy has more than two decades of experience working with manufacturers and helping them with engineering software solutions. He was a member of the team that developed and brought the Kubotek Validation Tool to market and has worked with countless aerospace suppliers.

#### **Presentation Roadmap**

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- Introduction
- Comparison Technology
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- On the Horizon
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# KUBOTEK 3D

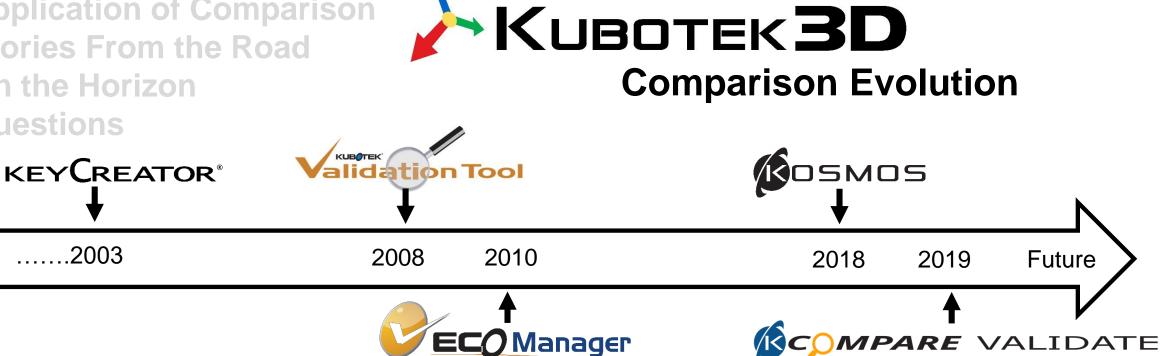


#### Introduction

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#### Introduction

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# **Translation Validation**

**Certified Quality Document** 

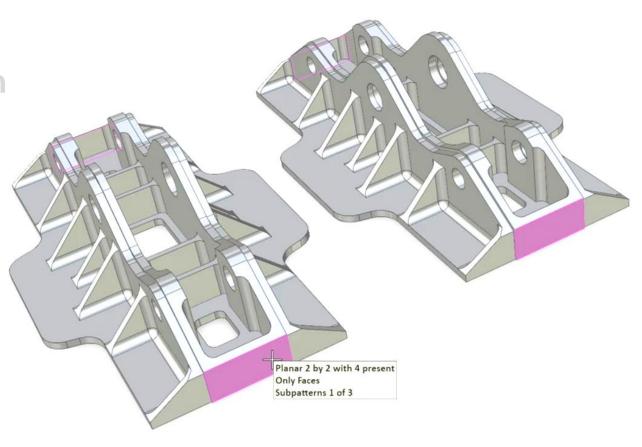
COMPARE

✓ Validated



#### **Comparison Technology**

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- Geometric Comparison
- Validation of Translated Data for Quality Assurance
- Aerospace Supplier Survey (April 2018)

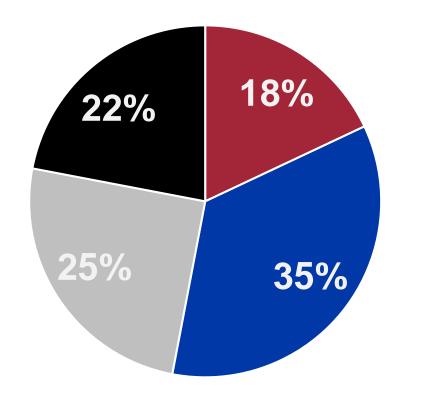


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#### How often do you validate translations?

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# **Translation Validation**



Daily Weekly Monthly Quarterly

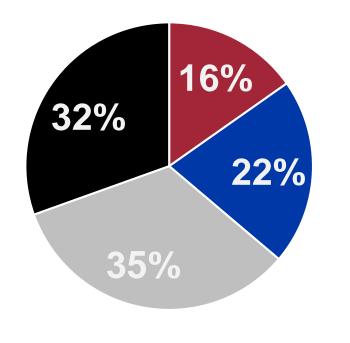


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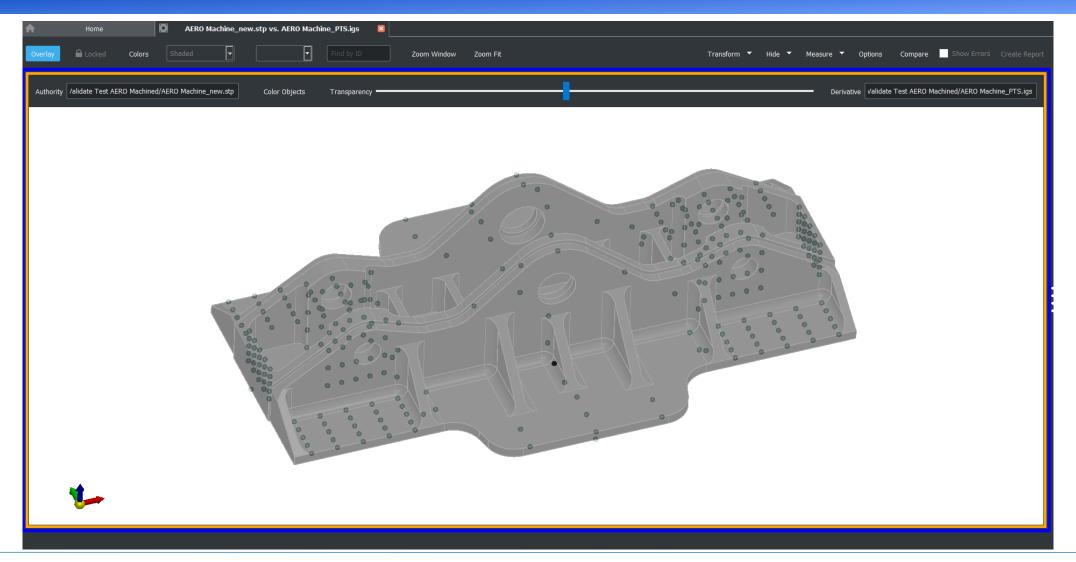
# **Translation Validation**

How often do you need to compare a point cloud derivative to the authority data set?



Always Usually Sometimes Never



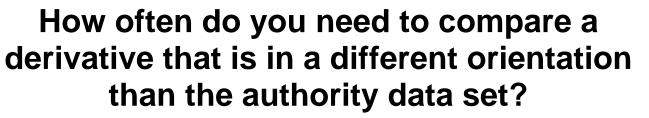


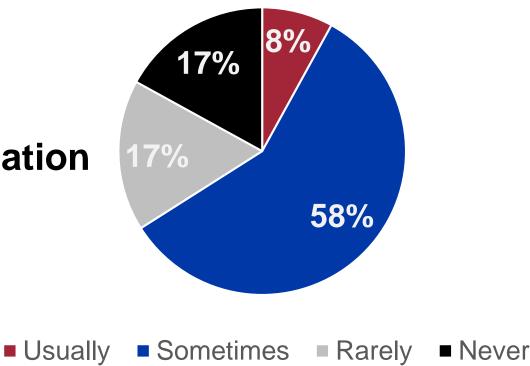


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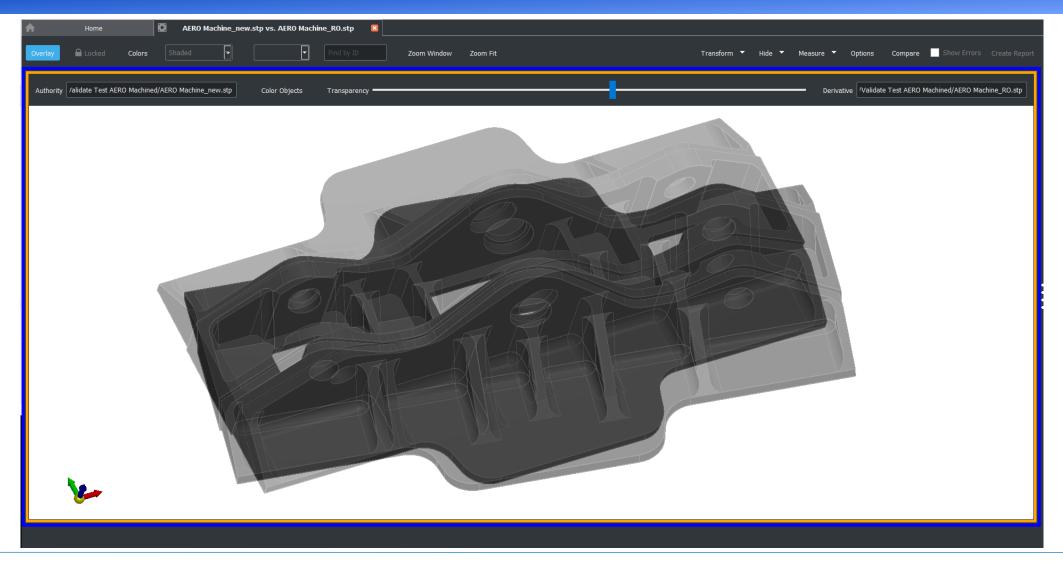
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## **Translation Validation**









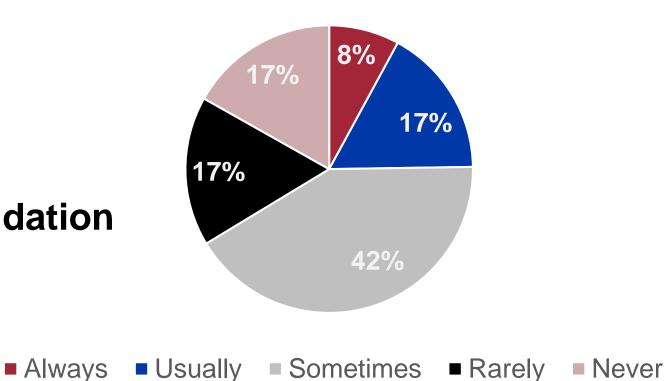


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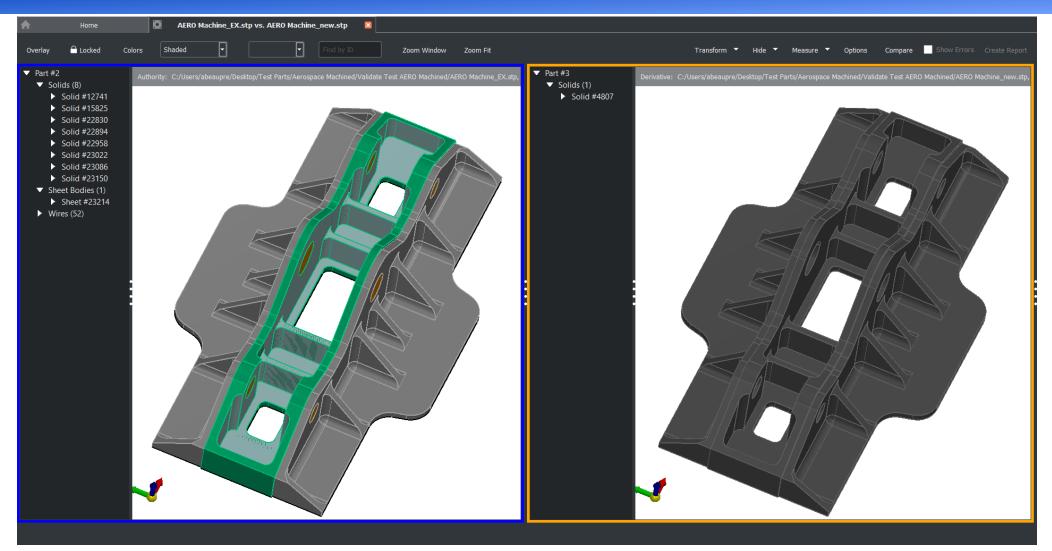
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## **Translation Validation**

#### How often do you compare an authority file that has more data in it than the derivative file?







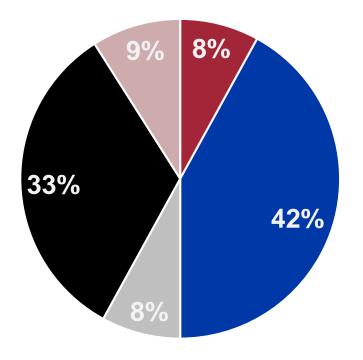


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# **Translation Validation**

#### Approximately how many files do you Validate each year?



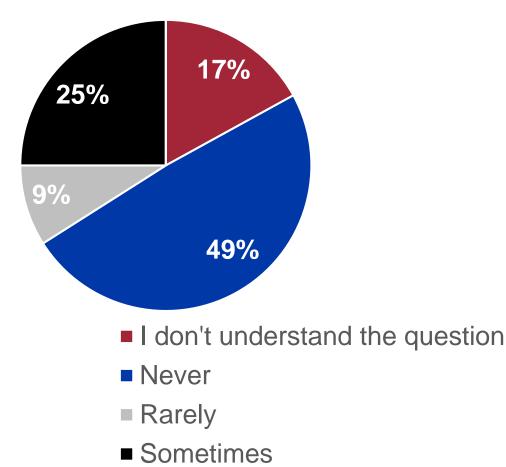
■ 0-10 ■ 11-50 ■ 51-200 **■** 200-1000 **■** 1000+



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# **Translation Validation**







	Auth vs. Der 🛛 🗌							
C:/Users/abeaupre/Desktop/Webinar/Compare Batch Testing/Auth				C:/Users/abeaupre/Desktop/Webinar/Compare Batch Testing/Der			*.*	
Authority Name	Date Modified	Туре	Size	Derivative Name	Date Modified	Туре	Size	Status
				1UL05FA600901RAV - C.stp				No Match
				1UL05FA600901RAV - CC.stp				No Match
S 1UL05FA600901RAV1 - C.CATPart				1UL05FA600901RAV.stp				No Match
TULUSFA60090TRAVT - C.CATPart IUL05FA600901RAV1 - CC.CATPart								No Match
S 10L05FA600901RAV1 - CC.CATPart								No Match
S BRACKET - A.CATPart	4/20/2012 8:07 AM 4/11/2012 11:27 AM	CATIA V5 Part	659 KB	BRACKET - A.stp	4/11/2012 11:27 AM	STEP	96 KB	No Match
S BRACKET - A.CATPart		CATIA V5 Part CATIA V5 Part	659 KB	BRACKET - A.Stp	4/11/2012 11:27 AM	STEP	96 KB	
	4/11/2012 11:27 AM		659 KB	BRACKET.stp	4/11/2012 11:27 AM	STEP	96 KB	
BRACKET.CATPart MS3-57-0157-1_ISSUEN2 - A.CATPart	4/11/2012 11:27 AM	CATIA V5 Part CATIA V5 Part	2 MB	MS3-57-0157-1 ISSUEN2 - A.stp	10/6/2011 2:49 PM	STEP	641 KB	
	8/10/2009 1:20 PM		2 MB 2 MB	MS3-57-0157-1_ISSUEN2 - B.stp	10/6/2011 2:49 PM	STEP	641 KB	
SMS3-57-0157-1_ISSUEN2 - B.CATPart	8/10/2009 1:20 PM	CATIA V5 Part	2 MB 2 MB	MS3-57-0157-1_ISSUEN2.stp	10/6/2011 2:49 PM	STEP	641 KB	
STATES MS3-57-0157-1_ISSUEN2.CATPart	8/10/2009 1:20 PM	CATIA V5 Part		SZ437FA511001RBVER2 - C.stp	4/20/2012 7:46 AM	STEP	1 MB	
SZ437FA511001RBVER2 - C.CATPart	4/20/2012 8:45 AM	CATIA V5 Part	1 MB	SZ437FA511001RBVER2 - D.stp	4/20/2012 7:46 AM	STEP	1 MB	
SZ437FA511001RBVER2 - D.CATPart	4/20/2012 8:45 AM	CATIA V5 Part	1 MB	SZ437FA511001RBVER2.stp	4/20/2012 7:46 AM	STEP	1 MB	
SZ437FA511001RBVER2.CATPart	4/20/2012 8:45 AM	CATIA V5 Part	1 MB	triple_clamp - C2.stp	×			No Match
				triple_clamp3 - C.stp	~	STEP	4 MB	
Striple_clamp3 - C.CATPart	3/1/2012 6:59 PM	CATIA V5 Part	4 MB	triple_clamp3.stp Distance Tolerance	0.001 OK			No Match
_ <u></u>			F/////////////////////////////////////	Entity Types ———				No Match
🔄 triple_clamp3 - C2.CATPart					Cancel			No Match
😅 triple_clamp3.CATPart				✓ Faces / Surfaces				
				Wires	Load			
					Save			
				Annotations				
				Points				
				To Faces/Surface				
				🔘 To Points				
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				Authority to Derivativ	0			
					/e			
				<ul> <li>Derivative to Authorit</li> </ul>	ty			
Total	15 No Ma	tch 5		Total 15 No Match	5 Exact		Same	Different



#### **On the Horizon**

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 Introduction Comparison Technology Application of Comparison COMPARE On the Horizon Questions **Engineering Change ECR Detection and Reporting** 



#### **On the Horizon**

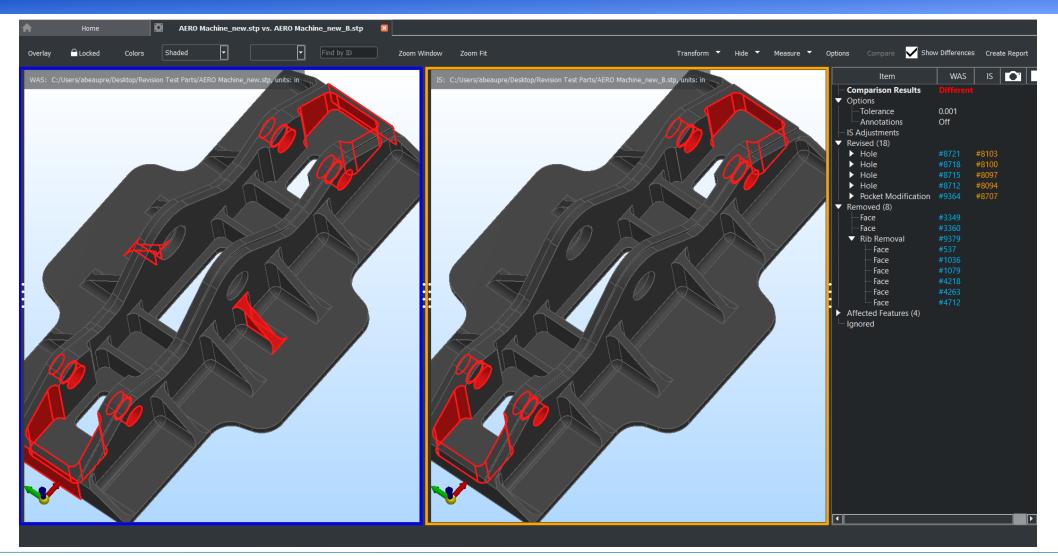
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- Engineering Change Detection and Reporting
- KOSMOS
- October 2019 Release



#### **On the Horizon**





#### Questions

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# **KUBOTEK3D**

