Surveying the Trends in Geospatia GREAT NORTH

MUNDO MUNDO MUNDO MUNDO MUNDO

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The View From the Great White Click to edit Master subtitle style North Dale Lutz, Co-founder, Safe Software





Ronaldo

nikefootball.com





INOVAÇÃ O



GREAT WHITE NORTH

SAFE SOFTWARE

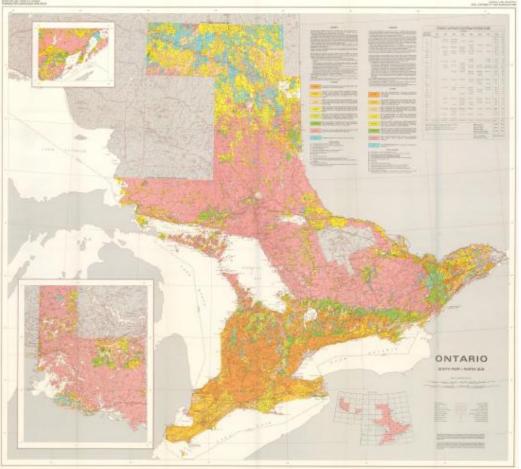


In the Beginning (60s/70s)....

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Canadian Land Inventory







Source: Geoff Zeiss

In the Beginning (80s)....

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BC TRIM

- Terrain Resource Information Management
- 7027 1:20000 Maps
- Started in 1981
- Heavy use of Microstation for Digitization (CAD)
- Best mapped largest area (at the time)

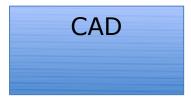


So On the First Day....















And On the Second Day...







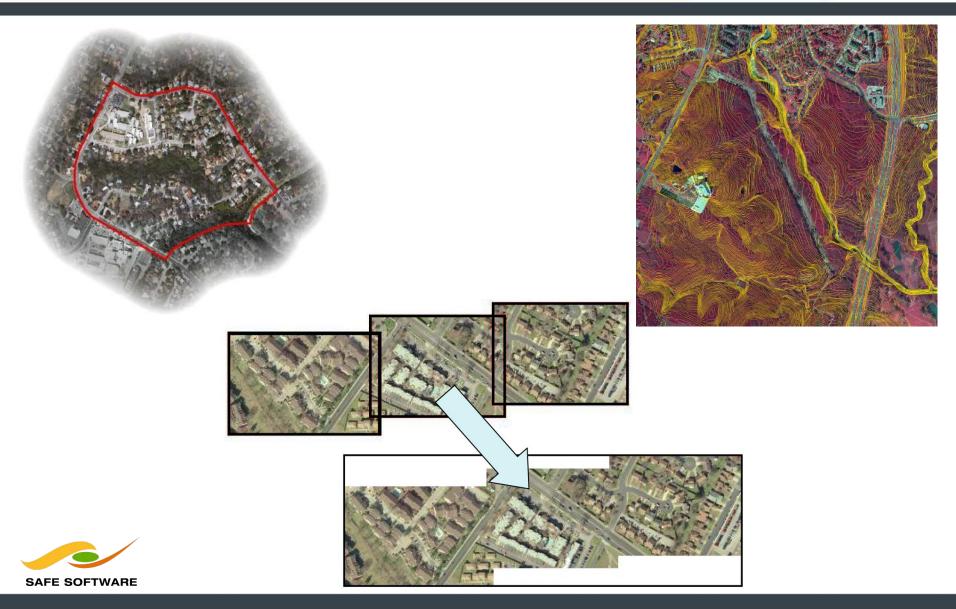






Rasters...





And On the Third Day...

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Databases















Server^{*}2008



Databases...

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DB2。

And On the Fourth Day...

















Earthquake Visualization (GeoRSS -> KML)

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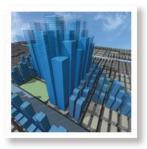


2000

And On the Fifth Day...



















Take This...









And Specifically This...





Feature: 1 of 1	<< >> Save
Feature Type: Building	×
Coord Sys: _FME_0	
Attribute Name	Attribute Value
AJOURHALLN	20070827
BYGGNADSID	00010000352850
BYGGNADSTY	1002
FANGSTMETO	2
fme_geometry	fme_polygon
fme_type	
HOJD_TAKFO	11.9
HOJD_TAKNO	14.9
OBJECTID	
Shape_area	662.8986885
SHAPE_GEOMETRY	shape_polygonz
Shape_len	109.5933535
shape_measures	NaN,NaN,NaN,NaN,NaN
Coord Dimension: 3D 🔨	
Total Number of Coords: 5	
Bounding Cube:	
Lower Left: (1572971.619,6729105.854)	
Upper Right: (1573012.389,6729139.917)	
Z Range: 0.0 to	
2 Malige: 010 00	
Coordinate Listing:	
1: (1572971.619,	6729121.557, 0.0)
2: (1573003.381,	6729139.917, 0.0)
3: (1573012.389,	6729124.308, 0.0)
·	

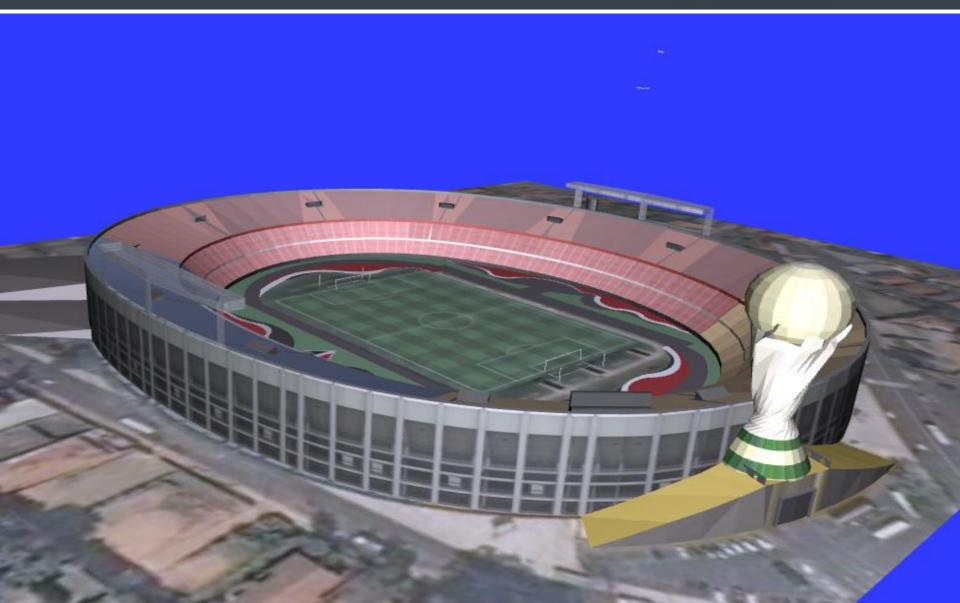
...And Make This...





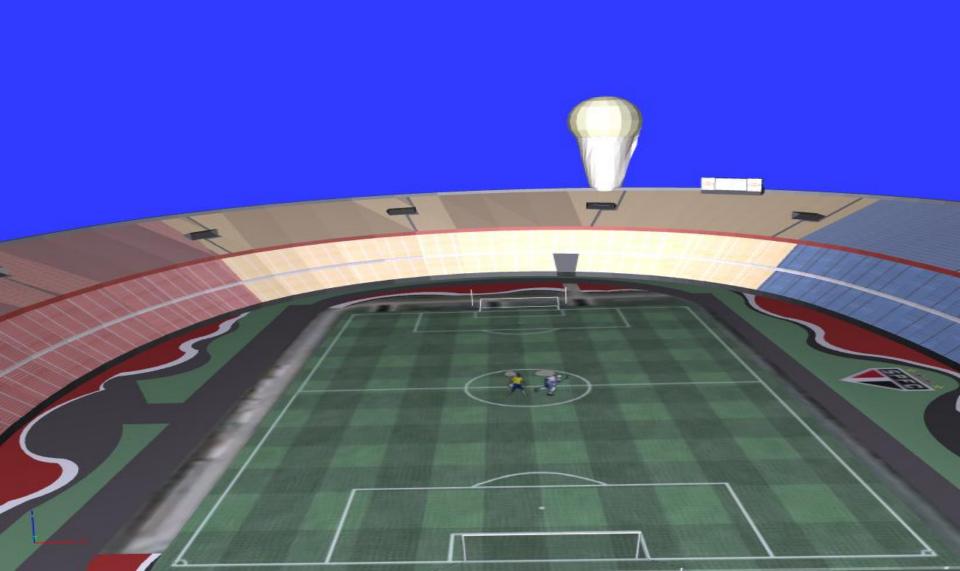
...Or This...





...And Even This...





...And Even This...





And On the Sixth Day...

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Point Clouds

















Inexpensive, Accurate, Voluminous



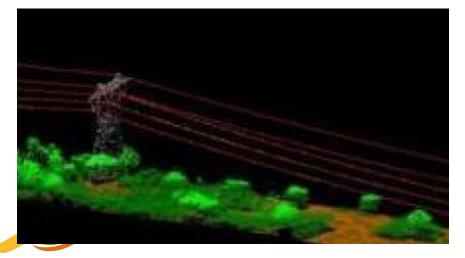




Inexpensive, Accurate, Voluminous

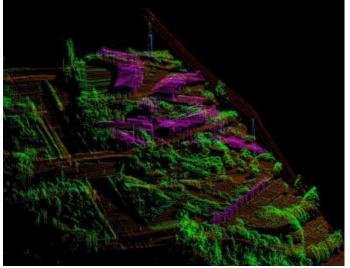












TopCon Sample File







TopCon Sample File







Huge Data Volumes

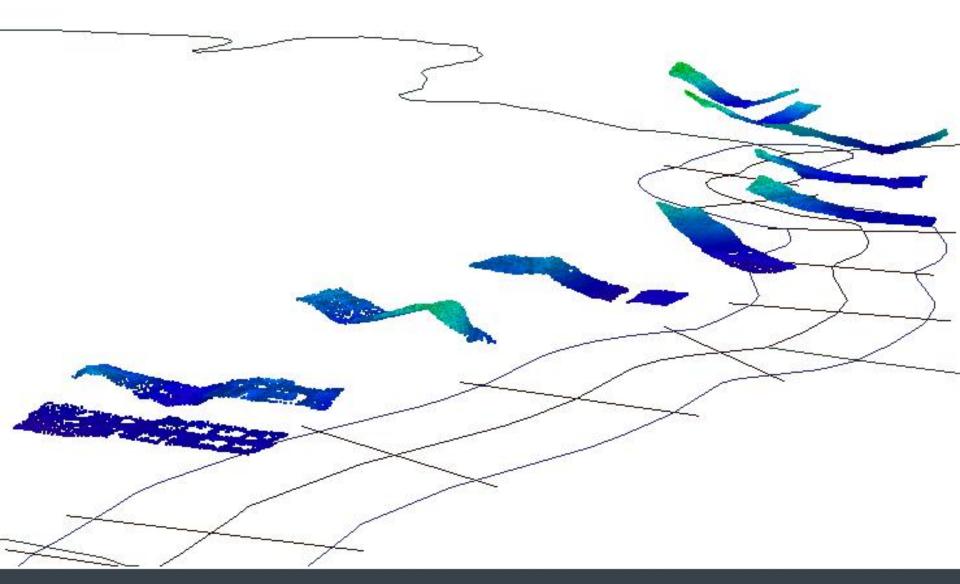




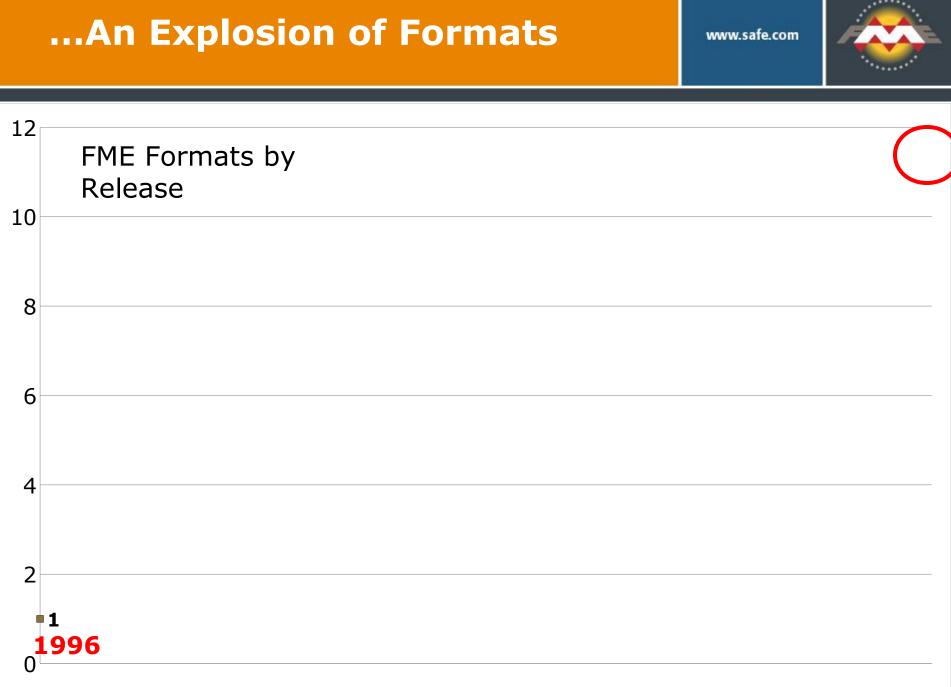
Over One Billion Points

Slice To Reduce Volumes...



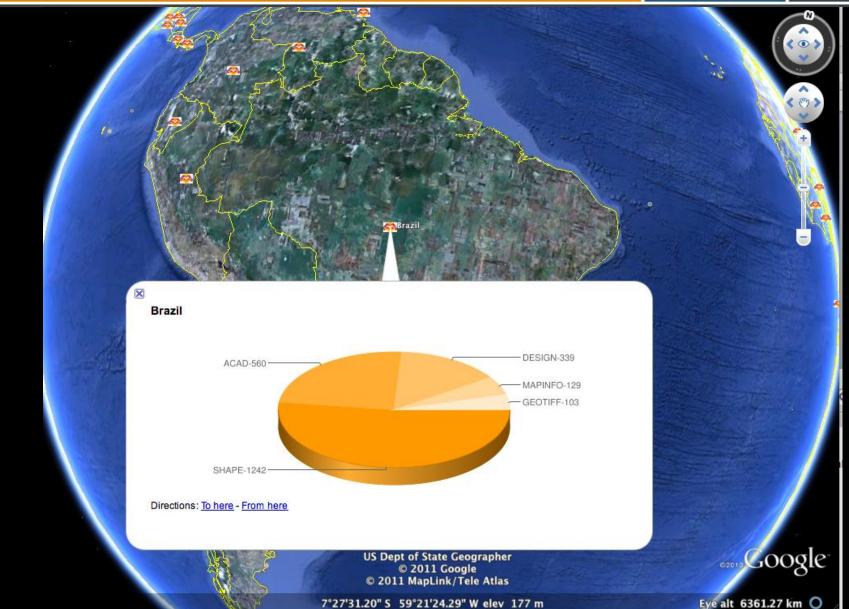






Top Formats By Country



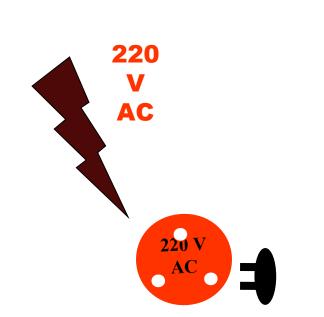


Spatial ETL: Solves the Format & Data Model Barrier

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AC



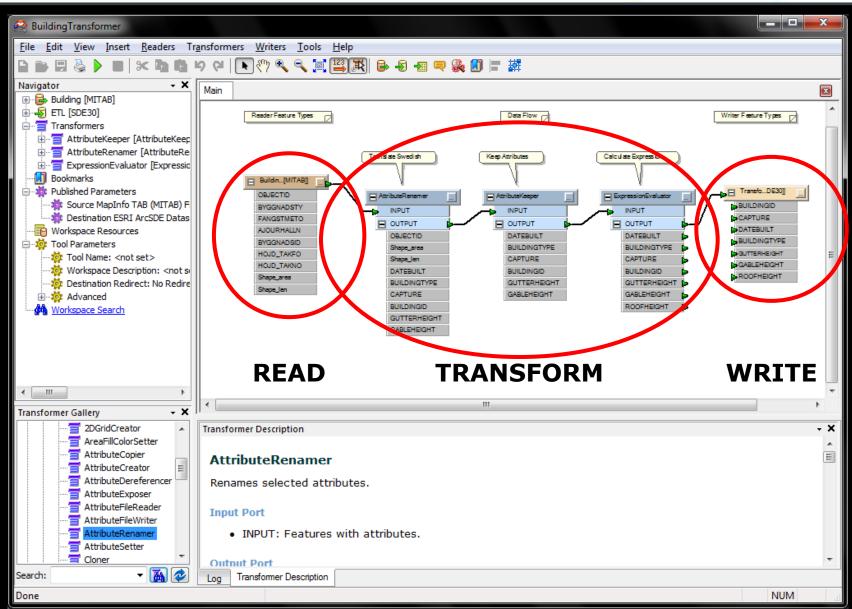
INTEROPERABILITY TOOL





Spatial ETL: Solves the Format & Data Model Barrier







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Geotagg ed





And On the Seventh Day?







And On the Seventh Day?





Online Data Translation?

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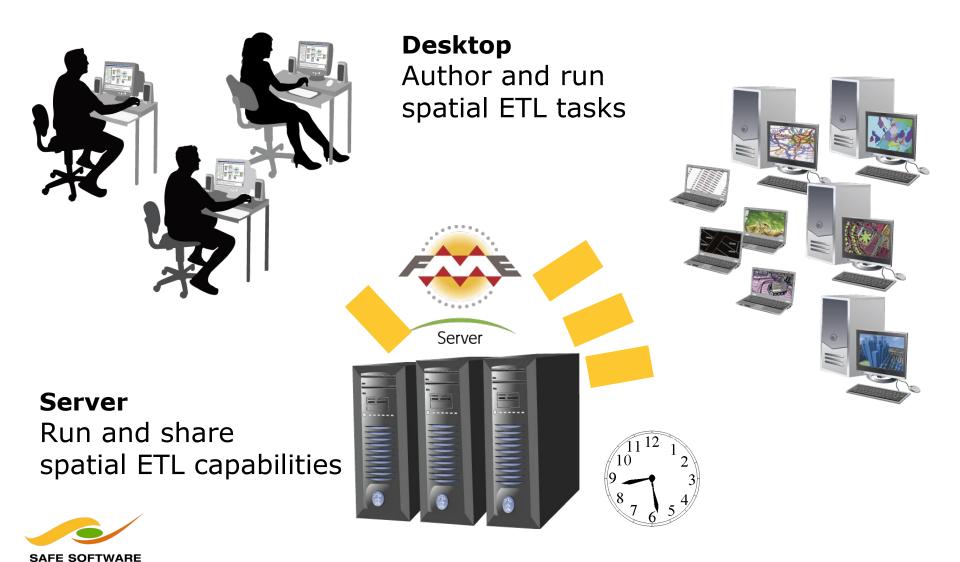


amazon webservices



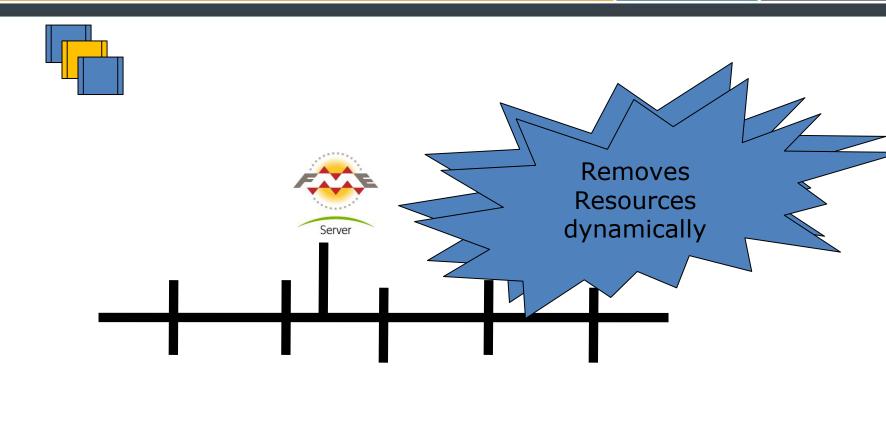
Moving From The Desktop To The Server...

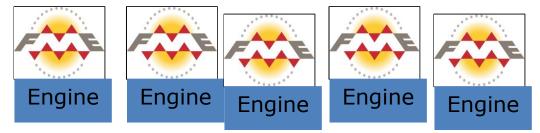




...And To The Cloud...











The More Things Change, The More Things **Stay The Same**

Format Usage Patterns



		WRITERS						
		GIS Vector	CAD	Raster	Spatial DB	Non- Spatial DB	Web	3D/BIM
READERS	GIS Vector	29.15%	7.14%	1.42%	4.29%	1.99%	2.05%	0.21%
	CAD	12.30%	8.21%	0.50%	2.12%	0.62%	0.77%	0.13%
	Raster	1.28%	0.35%	3.51%	0.23%	0.28%	0.20%	0.08%
	Spatial DB	3.81%	1.09%	0.18%	5.42%	0.88%	0.27%	0.07%
	Non-Spatial DB	2.63%	0.56%	0.28%	1.28%	3.96%	0.32%	0.05%
	Web	1.17%	0.25%	0.09%	0.10%	0.07%	0.27%	0.02%
	3D/BIM	0.10%	0.03%	0.03%	0.06%	0.02%	0.03%	0.09%

Why S Using All Ins Data mportant?

I MADE 120 DECISIONS TODAY... ALL OF THEM WRONG.

Better Spatial

Better Decisions

"The world is getting tougher and we NEED TO SMARTEN UP."

> - Ola Rollen President and CEO Hexagon



Contact

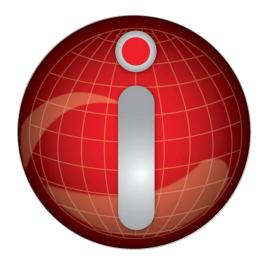


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Achieve Total Spatial Data Mastery



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