

Tennessee DOT's Image Viewer

RCI & Video Log Data Management Session

Bruce Aquila, Intergraph Corporation

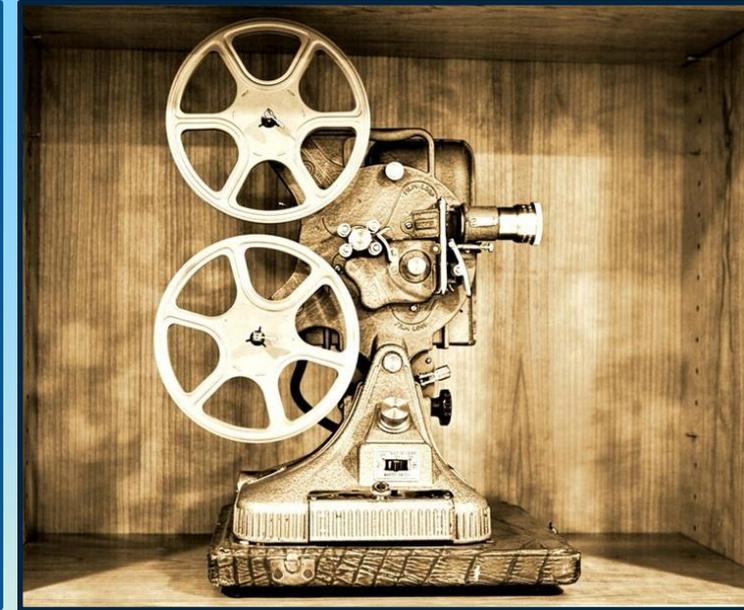
August 19th, 2015



- **Background**
- **Business Drivers**
- **Architecture/Design**
- **Interface**
- **Benefits**
- **Demo**



- TDOT used reel to reel movies initially
- 1996 Designed first Photolog Application
- 18 Years - Photolog has run it's course



TRIMS

E-TRIMS



- **Thick Desktop Client**
- **Difficult to Deploy**
- **High Maintenance Cost**
- **Limited Integration Capability**
- **Costly Customization**
- **Extensive Training Required**
- **Minimal Mapping Ability**
- **Browser Limitations**



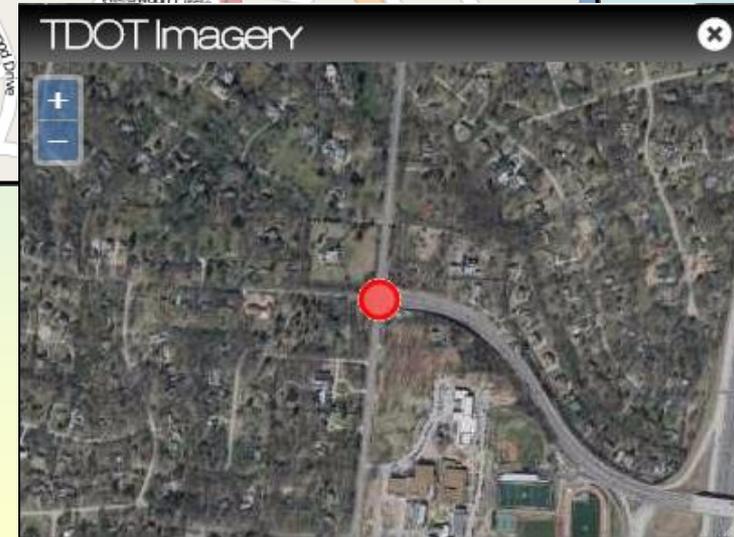
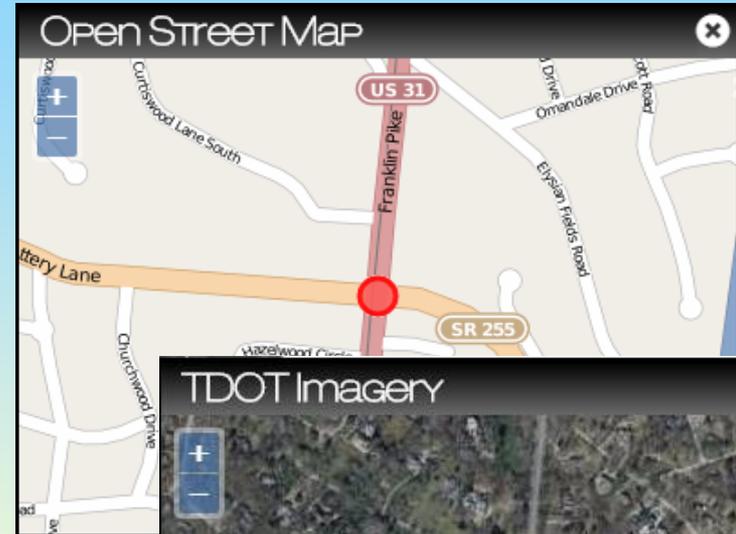
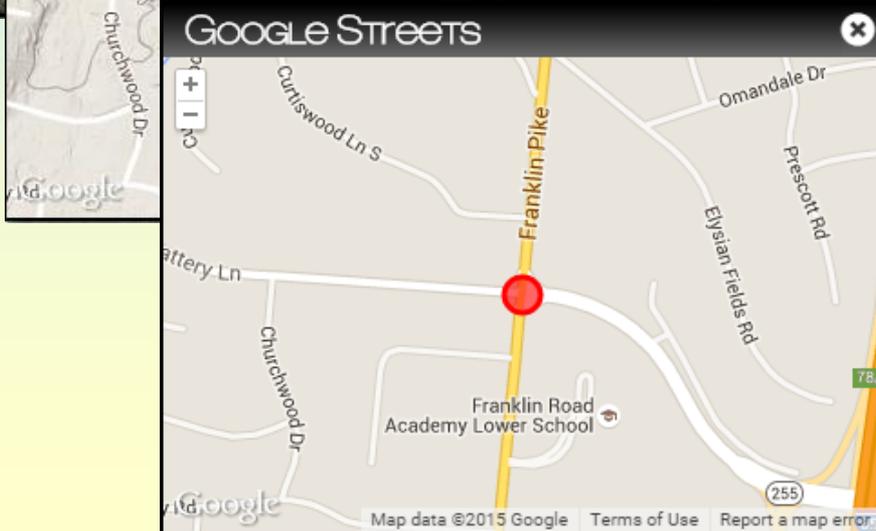
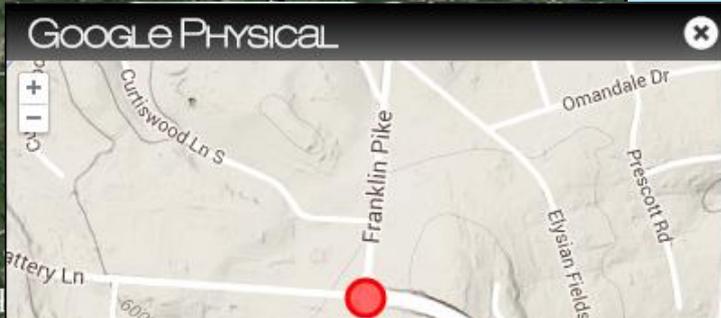
- **Initial Conception - 2013 Intergraph Transportation Summit**
 - Evening Social, Napkin Design
- **Must Interface E-TRIMS/Other Applications**
- **Components**
 - Data Grids
 - Maps
 - Searches (Projects, Roads, Structures)
- **Browser Based (Internet)**

Capabilities

■ Front and Side View

The screenshot displays the Tennessee Image Viewer interface. At the top left is the TDOT logo. The main title is "Tennessee Image Viewer". On the top right, it says "Welcome: BRUCE AQUILA" with a settings icon and a lock icon. Below the title is a navigation bar with several dropdown menus: "DAVIDSON", "SR255", "0-NONE", "1", and "0.000". To the right of these is a right-pointing arrow icon. Further right, it shows "Direction: N" and "Signing: +" with a dropdown arrow. The main image shows a road with a utility truck in the foreground and a house in the background. A purple tooltip box is overlaid on the image with the text: "Intersection at Log Mile 0.000" and "Click here for intersection routes or press Play to continue".

Commercial and TDOT



- Route Features
- Geometrics
- Maintenance
- Traffic
- Crashes
- Road Segment
- Composition

Log Mile	Route Feature Description	Item Code	Desc Code
.000	BEGIN ILLUMINATION	9-OTHER-MINOR	930
.000	SR-6 FRANKLIN PK. RT. & LT.	3-STATE HWY	310
.000	BEGIN HARDING PL.	0-OTHER-MAJOR	920
.000	TRAFFIC SIGNAL	9-OTHER-MINOR	905

Log Mile	Mile Marker	Feature Type	Feature Character
.013		SIGN, FLAT	R10-12 - LEFT TURN YIELD OI
.014		SIGN, FLAT	TN-17A - LOG MILE REFEREN
.015		SPECIALTY MARKINGS	LEFT TURN ARROW

Log Mile	Date	Time	TDOT Location	Type of Crash	Total Vehicles	Fir
.020	02/18/2013	1735	Along Road	Along Roadway		
.020	06/17/2013	834	Ramp			
.020	10/25/2013	1510	Along Road			
.038	07/02/2010	1140	Along Road			
.038	08/13/2010	810	Along Road			
.047	10/12/2010	715	Along Road			
.060	03/27/2012	818	Along Road			
.076	10/29/2010	830	Along Road			
.090	11/03/2012	1400	At an Inter			
.100	04/30/2009	1553	Along Road			

Begin Log Mile	End Log Mile	Road Name	Func Class	Gov Control	Adm Syste
.000	.260	I-65	11	STATE HWAY	02-IN
.260	1.440	I-65	11	STATE HWAY	02-IN
1.440	2.520	I-65	11	STATE HWAY	02-IN
2.520	5.148	I-65	11	STATE HWAY	02-IN
5.148	5.590	I-65	11	STATE HWAY	02-IN
5.590	5.620	I-65	11	STATE HWAY	02-IN
5.620	5.774	I-65	11	STATE HWAY	02-IN

Begin Log Mile	End Log Mile	No. Lns	Speed Limit	Truck Spd Limit	Illum	Access Control
.000	.080	3	40		YES	0-NONE
.080	.190	5	40		YES	0-NONE
.190	.260	4	40		YES	0-NONE
.260	.310	5	40		YES	0-NONE

Begin Log Mile	End Log Mile	Year of Traffic	AADT	Peak Hr %	DHV %	Direct. Dist.	% SU Trucks
.000	.570	2014	26380	10	12	61	5
.570	2.770	2014	28470	8	10	61	4
2.770	4.300	2014	36470	8	10	57	4

Begin Log Mile	End Log Mile	Begin Mile	End Mile Marker	Feature Type
.000	.010			MOWABLE ACRES
				PAVEMENT MARKINGS
				PAVEMENT MARKINGS
				GUARDRAIL
				PAVEMENT MARKINGS
				DITCH



- **Miminal Deployment Cost**
- **Blends with Other Applications**
- **Ease of Use**
- **Browser Independent**
- **Robust Interface**
- **Eliminates Training Costs**
- **More Effective Analysis**

Demonstration

SMARTERDECISIONS

Questions?

Thank You

Bruce Aquila

Intergraph Corporation

Bruce.Aquila@Intergraph.com