

Presentation Overview:

Introduction

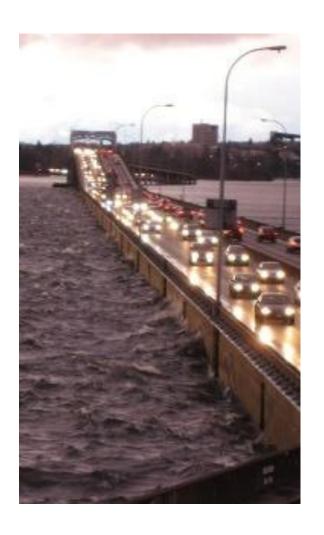
Background

Reasons for Trend Monitoring

Three Audiences:

- Interagency Stakeholders: Goals & Results
- Internal Stakeholders: Goals & Results
- Upper Management: Goals & Results

Other Uses for Trend Monitoring
Beyond Go-Live
Questions



Background-WSDOT Tolling Division

- WSDOT is the tolling agency
- Pre-existing Facilities prior to 520:
 - Tacoma Narrows Bridge (SR 16)
 - SR 167 HOT Lanes
 - Statewide Customer Service Center
- Along with revenue generation, tolling supports the "Moving Washington" program.







General Overview of SR 520

SR 520 vital east-west corridor in Seattle area

- Aging existing bridge in need of replacement
- Pre-tolling daily volume >115,000, twice the design volume

Tolling part of Lake Washington Urban Partnership

- Tolling helps manage congestion & helps pay for new bridge
- Toll collected via an all-electronic single-point variable toll
- · Several ways to pay: pass, pay by plate or pay-by-mail
- AET began on existing bridge on Dec 29, 2011





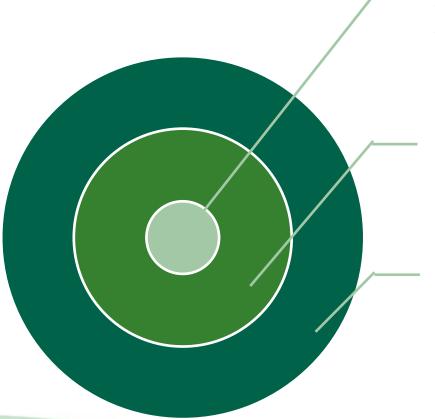


Reasons for Trend Monitoring

- Measure performance during Go-Live
- Compare forecasts to actuals
- Transparency
- Manage the message to the public
- Keep stakeholders informed



Three Audiences = Three Levels of Monitoring



WSDOT management

- * Secretary of Transportation
- * Toll Division Director
- * Director of Toll Operations

Go-Live Internal Team

- *Development Team
- * Operations Team
- * Finance Team
- * Communications Team

Interagency

- * Transit agencies
- * King County
- * Local jurisdictions

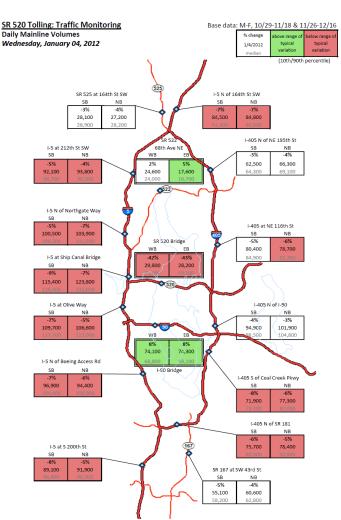
Interagency Stakeholders – Background & Goals

- Preparing for Go-Live, WSDOT carried out successfully coordinated communication plan for local agencies and public media
- Advance coordination to establish clear expectations
- · Goals:
 - Provide Transparency
 - Grow Trust & Credibility
 - Improve Relationships

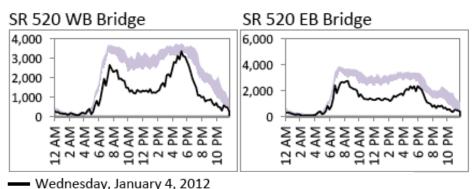


Interagency Stakeholders – Examples & Results

- Provided daily updates through shared access FTP site
- Data included SR 520 & surrounding highways
 - Traffic volumes, travel times, transit ridership
- Benefits
 - Leverage work of others
 - Provided data for agencies to use with decision makers
 - Strengthened Relationships

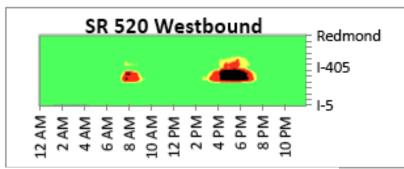


Interagency Stakeholders – Examples & Results

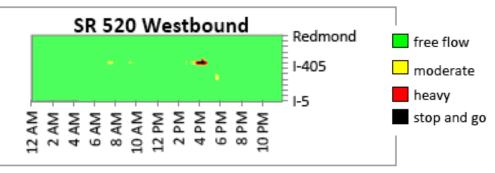


- Hourly Volume Profiles
- Congestion Contours

- wednesday, January 4, 2012
- Typical Range (10-90%ile, M-F, 10/29-11/18 & 11/26-12/16)



M-F, 10/29-11/18 & 11/26-12/16



Wednesday, January 04, 2012

Internal Go-Live Monitoring: Background & Goals

Internal effort initiated to monitor key trends "at-a-glance" daily

Supplemental to public communication plan

Goals included:

- Track measures that matter to customers, traveling public & WSDOT management
- Relay a broad swath of information quickly for quick comprehension

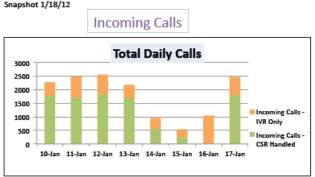


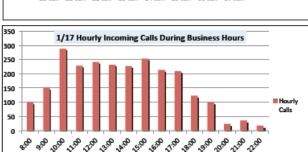
Internal Go-Live Monitoring: What We Did

- Daily array of graphical chart "snapshots"
 - Accompanied by brief narrative of trends, notes of irregularities or outages
- Key tool for intra-departmental communication
 - Also supported media inquiries
- Data monitored both pre and post
 Go-Live to establish baseline
- ·Trends monitored near real time

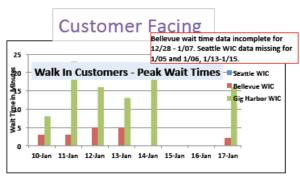


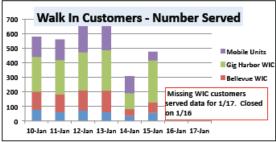
Internal Go-Live Monitoring: CSC Focused Measures

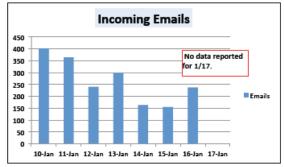


















45,000

40,000

35.000

30,000

25,000

20.000

15,000

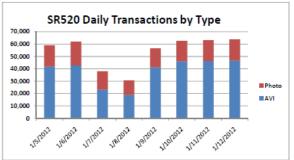
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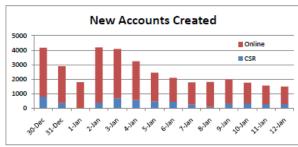
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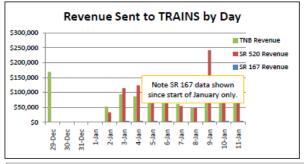
IBTTA Summit on All-Electronic Toll Collection

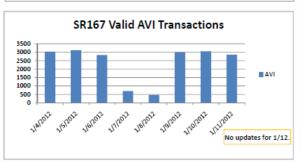
Internal Go-Live Monitoring: Roadside Focused Measures

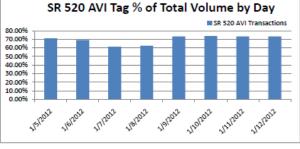


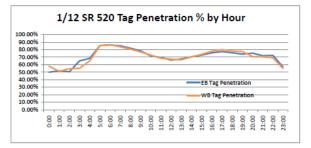
TNB Daily Transactions by Type

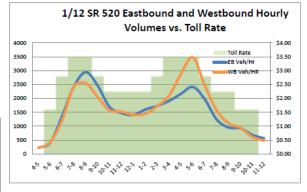












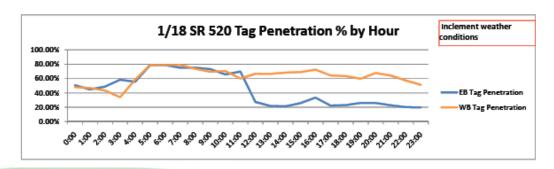
Internal Go-Live Monitoring: Benefits & Lessons Learned

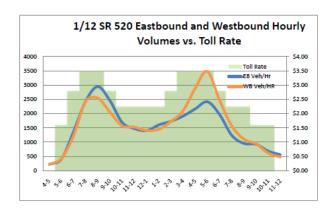
Benefits

- Connected Stakeholders across multiple departments
- Trends within trends helped identify possible system errors

Challenges/Lessons Learned

 Required flexibility of using draft or inferential data where data was not available

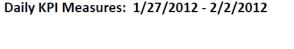


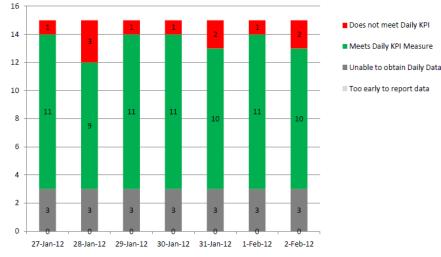




Upper Level Management Reporting: Background & Goals

- KPI regular reporting scheduled to happen monthly
- Goal of "No Surprises" necessitated daily KPI monitoring
 - Under burden of Go-Live & Past Delays, monitoring was done daily
 - Daily monitoring was for trending purposes only
- From over 53 KPI measures, 15 reported on daily during Go-Live
 - Based on degree of impact to customer experience & data availability





KPI Monitoring: Examples

	CPI I	Description	Manage	3-lan	4-am	5-dan	6-lan	7-lan	S-dan	9-Jan
Collect and Process Tolls	10	100% of account: with a valid epienichment method are attempted epienishment within 34 hours of the account billing below the epienishment threshold.	ă,	NA.	NA	NA	NA.	NA	NA	NA.
	34	100% of data errors (missing or corrupt data) researched and appropriate action taken within two (2) Calendar Days of notification of failed transmission.	8	NA	NA	NA	NA	NA	NA	NA
	17	100% of photo-enhanced toil tensactions requiring human welfaction reviewed within three (ii) business days of the date exceived at the Customer Senice Center	*	1	0	2	2	2	1	
	16	100% of toll transactions processed by the end of the following Calendar Day after accept from Toll Transportation Rollittes.	×	NA.	NA	NA	NA.	NA	NA	NA.
Operat a Cast owner Service Center	5	99.5% Customer Service Center System and communications infractucture analiability, excluding scheduled maintenance, on a 24 hour seen days a week basis	mbulandown	5	0	0	0	12	0	0
	21	100% of customer complaints and correspondence meanthed, resolved and exponded to within five (5) business days of monipt	ě	3	6	7	8	0	0	0
	9	80% of outbone inquiries exponded to within two (2) business days and 100% responded to within five (6) business days.	š	1	1	2	0	1	0	0
	30	100% of returned mail, for which a new address is identified, shall be resent within five (5) business days of societying the returned mail.	š	0	0	0	0	0	0	0
Г	25	Webdits shall be acceptable 99.5% of the time, 24/7, excluding scheduled maintenance.	Minutesdown	0	0	0	0	0	0	
g	28	Average wait time to speak with a CSR not to exceed two minutes	mbula	0.65	0.32	0.15	0.30	0.33	0.25	0.30
Setting and Maintain Accounts	29	TVR available 99.5% of the time, 24/7, excluding scheduled maintenance.	Missiesione	0	0	0	0	0	0	0
	7	100% of account: opened within two (2) business days of accept of application.	š	0	0	0	0	0	0	0
	13	100% of transponder orders are fulfilled within four (4) business days of the order request	š	1	1	2	3	2	1	1
	26	Percentage of abandoned calls not to exceed 2% of all incoming calls (business hours only)	*	2.0%	1.1%	0.4%	0.7%	1.3%	0.9%	2.0%
Finance	31	Process 100% of payments by end of the next business day after processing the payment	*	100%	100%	100%	100%	100%	100%	100%

- KPI regular reporting scheduled to happen monthly
 - Collection & Processing of Tolls
 - Operation of CSC
 - Setup & Maintenance of Accounts
 - Finance

KPI Monitoring: Benefits & Lessons Learned

Benefits

- Facilitated early discussions with CSC vendor to help correct lags in performance
- Sometimes bug was in the reporting system not actual performance

Challenges/Lessons Learned

Limited Data Available

				Thu	Fri	Sat	Sun	Mon	Tue	Wed
	KPI#	Description	Measure	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
Collect and Process Tolls	10	100% of accounts with a valid replenishment method are attempted replenishment within 24 hours of the account falling below the replensishment threshold.	day	NA						
	14	100% of data errors (missing or corrupt data) researched and appropriate action taken within two (2) Calendar Days of notification of failed transmission.	day	NA						
	17	100% of photo-enforced toll transactions requiring human verification reviewed within three (3) business days of the date received at the Customer Service Center	day	1	0	2	2	2	1	
	16	100% of toll transactions processed by the end of the following Calendar Day after receipt from Toll Transportation Facilities.	day	NA						



Trend Monitoring: Other Uses

- Shift from Go-Live to Regular Operations
 - Continued trend monitoring on a weekly then monthly basis
 - Transitioned into smaller subset of key business measures
- Data collected during process feeding other external reports
 - Budget planning
 - TIFIA updates
 - Presentations to the public
 - Presentations to the Legislature and Transportation Commission









Beyond Go-Live

- Transitioned to Monthly
 Snapshots through May
- •Evolved into Toll Business Report collaborated across departments

