Transformation Overview for Executive Committee on Highway Safety



Presented by Victor Barbour, PE

"Connecting People & Places in North Carolina"

- Transformation Initiatives
- Mission, Goals, and Values
- Value Trees
- Leading and Lagging Indicators
- Executive Dashboard Safety Gauge
- Safety Metrics on PDA's

Why Transformation

STRAIN OF EXTERNAL TRENDS

Growing Demand on System

- Doubling of "Vehicle Miles Traveled" by 2030
- NC population projected to grow by 50% between 2000 and 2030, "7th most populous state by 2030"

Increasing Cost of Supplies

- 80% construction supplies inflation since 2002
- Spike in global asphalt, cement, and steel prices expected to continue

Declining Funding

- State gas tax purchasing power has declined (inflation and mpg)
- Federal Highway Trust Fund program projected to run out of funding by 2009
- Transportation funding flat/declining for FY2008/09*

McKinsey Survey Findings

<u>Strengths</u>

- Change Commitment
- Financial Stability
- Technical Skills
- "Can Do Attitude"

Shortcomings

- Organizational Structure...
 - Silo'ed and non-collaborative
- Failing "Talent System" Recruit/Motivate/Develop
- Communication...
 Not pro-active

Development Areas

- One Common Focused Direction
- Strategic-ness of Project and Services
- Improve Prioritization, Accountability, and Coordination of Core Processes
- Telling our Story...the good that we do

Five Key Transformation Initiatives

Strategic Direction

Program and Project Delivery

Planning and Prioritization

Performance and Accountability

Improved Human Resource Mgt

Strategic Direction



Working together for a common purpose ...



Mission, Goals and Values

NCDOT

OUR MISSION

Connecting people and places in North Carolina – safely and efficiently, with accountability and environmental sensitivity

OUR GOALS

- Make our transportation network safer
- Make our transportation network move people and goods more efficiently
- Make our infrastructure last longer
- Make our organization a place that works well
- Make our organization a great place to work



OUR VALUES

- SAFETY We strive for safety throughout our transportation networks as well as in our work and our daily lives.
- **CUSTOMER SERVICE** We respond to our customers, both internal and external, in an open, professional and timely manner.
- INTEGRITY We earn and maintain trust by responsibly managing the states assets, acting ethically, and holding ourselves accountable for our actions.
- **DIVERSITY** We draw strength from our differences and work together in a spirit of teamwork and mutual respect.
- QUALITY We pursue excellence in delivering our projects, programs, services and initiatives.

Values are

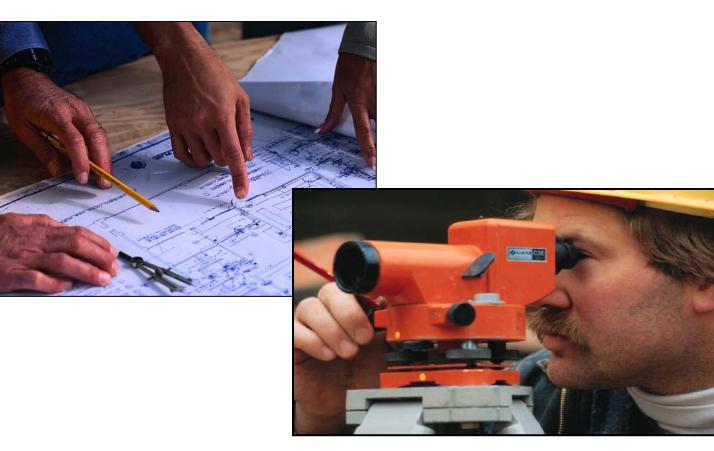
- What an organization stands for and believes in
- Behavioral expectations
- Manner in which we conduct our business

Program and Project Delivery



Delivering our projects, programs and services effectively on time and on budget...

Planning and Prioritization



Planning and prioritizing our work.....

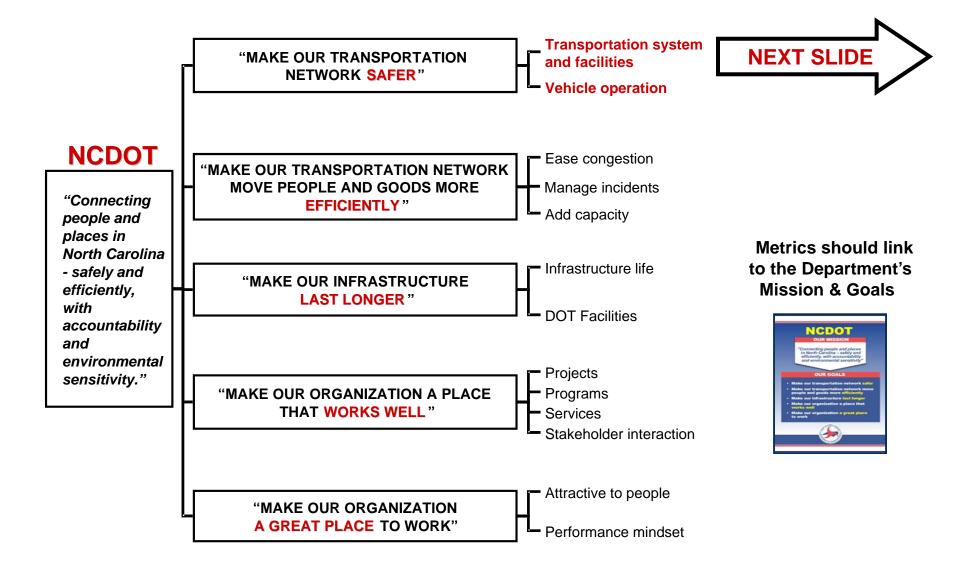
Performance and Accountability



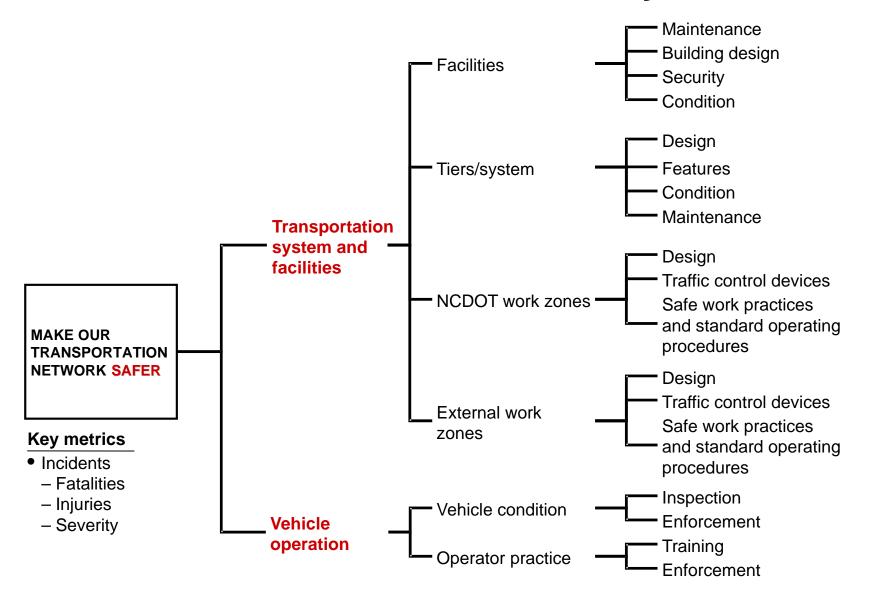
Measuring our performance and reporting our successes...



NCDOT High Level Value Tree



Make Our Transportation Network SAFER Safety Value Tree



SECRETARY OF TRANSPORTATION

	Metrics	Definition of Measure/Comments
"Make our transportation network safer"	Fatalities	 % improvement in fatalities compared to national goal of 1.0 fatality per 100 million vehicle miles traveled
"Make our transportation network move people and goods more efficiently"	 Reliability on the System Strategic Highway Corridors and Regional Tier Routes Transit Service 	 Average operating speeds on Strategic Highway Corridors (SHC) Travel time reliability - standard deviation of average commuter time in selected urban areas % Decrease in congestion % Increase in Frequency of Service
"Make our infrastructure last longer"	Department Infrastructure Health	 Statewide Level of Service Scores for Facilities (assets) % Increase in value of Department infrastructure
	Project/Program Delivery on Schedule and Budget	 % of projects and programs administered, managed and constructed on schedule and on budget (Planned vs. Actual)
"Make our organization a place that works well"	Business Development & Outreach	 % of solicitations sent to, % of bids received from, & % of contract dollars awarded to DBEs, MBEs, WBEs, SBEs, and HUBs
place that works well	Customer Service	Customer survey scores (public, partners, etc.)
	• Fiscal Management	% improvement of existing overhead and program budget
" **	Employee Safety	 Number of incidents, lost work days, worker's comp claims
"Make our organization a great place to work"	 Employee Satisfaction Recruiting, developing and retaining employees 	Employee satisfaction survey composite score
	- Recruiting, developing and retaining employees	Retention rate of "Top Performers" and/or stabilization rate

"DRAFT" Metrics – Secretary of Transportation

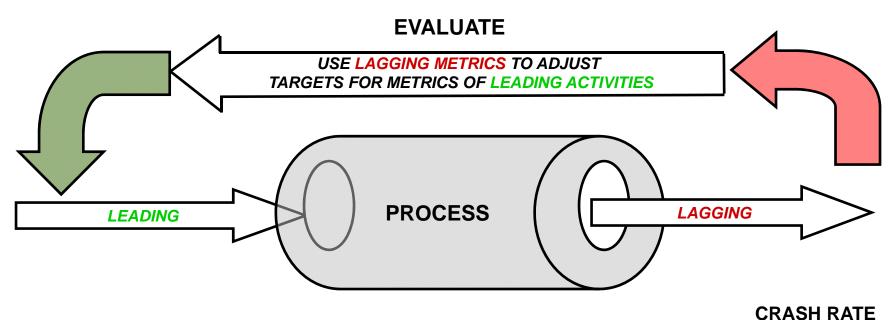
GUIDE FOR DASHBOARD SCORECARD

FOR USE IN PERFORMANCE REVIEW MEETINGS

	Metric	Metric Data	Target	Data Source	Wt (%)
Safer	Fatalities	Fatalities per 100 million vehicle miles; i.e. 1.58this will be compared against a baseline TBD (% improvement)	1.50-1.63	Traffic Engineering Branch	10
Efficiently	Reliability of Strategic Highway Corridor System	-Average operating speeds on Strategic Highway Corridors (SHC) -Travel time reliability -Congestion (Level of Service)		Transportation Planning Branch	
L	 Transit Service 	% Increase in Frequency of Service compared to previous year for Rail, Feny, Public Transit, etc.	70-89%	Transt	5
Last Longer	Department Infrastructure Health	- Composite Statewide Rating (Level of Service Rating) - % annual increase in value of Department infrastructure	C-toC	- Asset Management-Maintenance Condition Reports - Financial Management Division	25
ſ	 Projects/Programs/Services on Schedule and on Budget 	# of projects/programs/services planned for year divided by # actual completed = % success rate	70-89%	Program Development report from STaRS and/or BW, HiCAMS	25
Works Well	Business Development and Outreach	% Contract dollars awarded to DBEs, MBEs, WBEs, SBEs, & HUBs	70-89%	SAP	10
	Customer Service	Customer survey scores (public, partners, etc.)	70-89%	TBD	5
L L	 Fiscal Management 	% improvement of administrative budget(s)	90-95%	TBD	10
Great	Employee Safety	# of reported incidents that cause lost work days and/or worker's comp claims compared to baseline, i.e previous year(s) reported incidents	6.1-7	Safety and Loss Control	10
Place to Work	Employee Satisfaction	TBD		Employee Survey	1 1 1 1 1 1
L	 Recruiting, developing and retaining employees 	Retention rate of "Top Performers" and/or stabilization rate		<i>TBD</i> WORKING DRAFT 10/25.0	7; 12/7/07

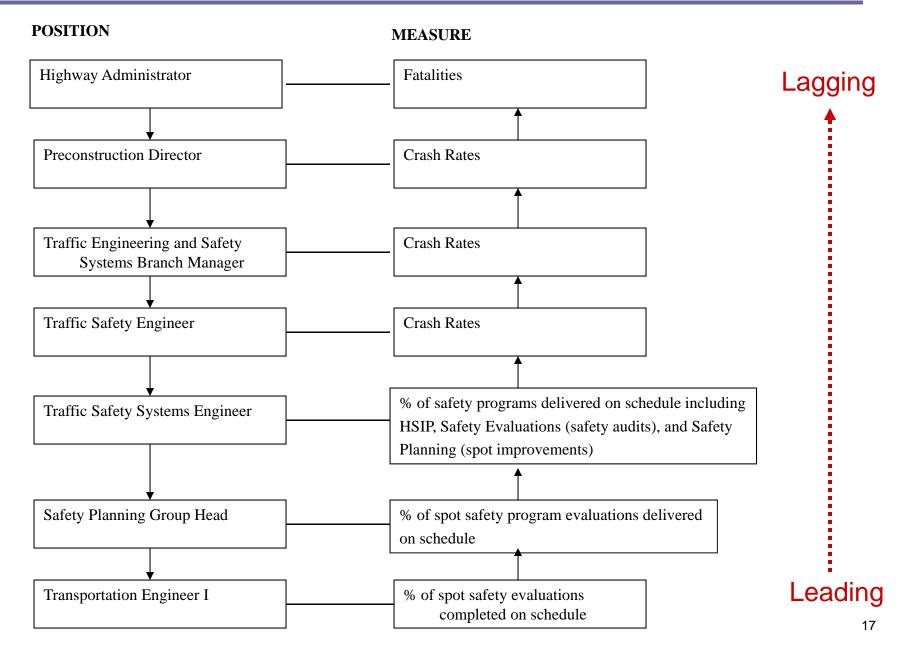
LEADING INDICATORS (Input)	LAGGING INDICATORS (Outcomes)
Leading Indicators are metrics that are task specific	Lagging Indicators are reactive
Leading Indicators measure and track performance before a problem arises	Lagging Indicators are reflective and measure performance against prior goals
Leading Indicators are proactive	Lagging Indicators indicate what has already happened (past)
Leading Indicators indicate what may happen (future)	, , , , , , , , , , , , , , , , , , ,
Leading Indicators are a predictor to the ability to meet future goals	

Metrics: LEADING vs. LAGGING Process



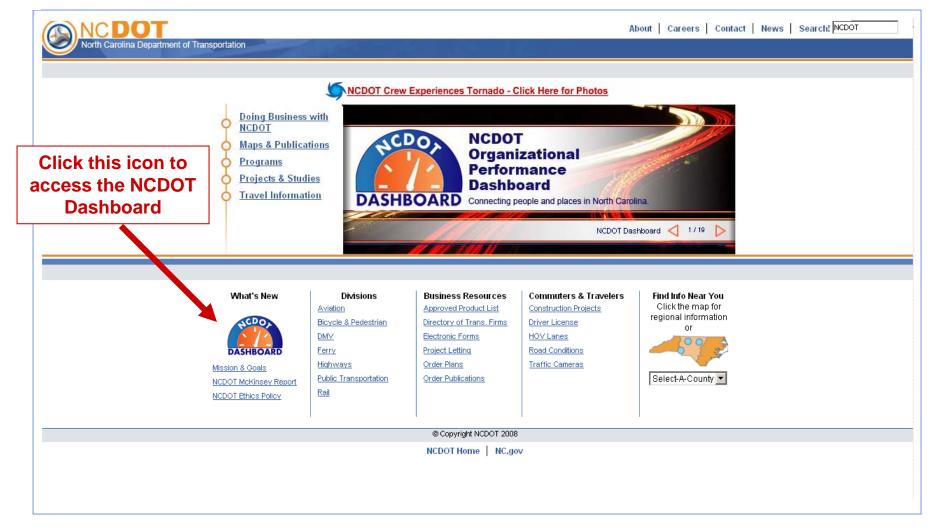
- IMPROVING SHOULDER DROP-OFFS
- ADDING REFLECTIVE MARKERS
- TURN LANE ADDITIONS
- LEGALLY LICENSED DRIVERS
- REDUCTION OF VMT BY USE OF ALTERNATIVE MODES
- TIMELY PROJECT DELIVERY

Example Cascading Metrics for SAFER



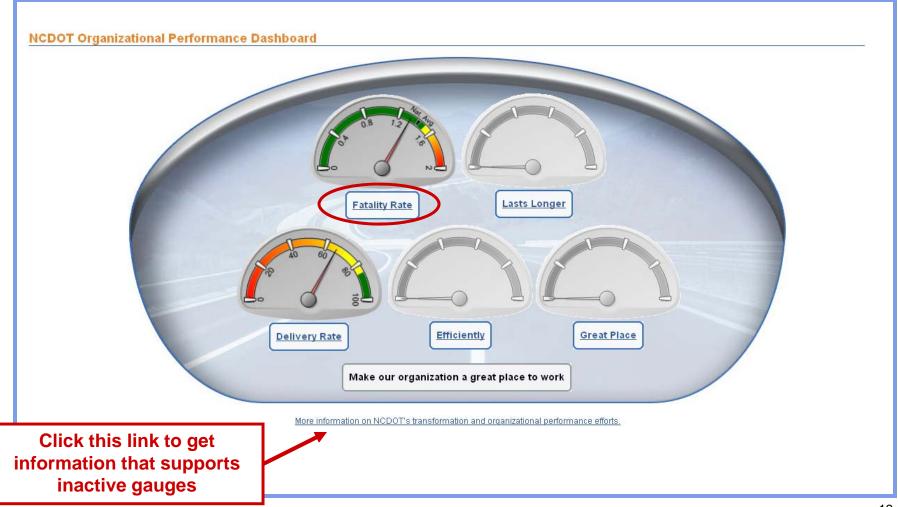
Access NCDOT Performance Dashboard

http://www.ncdot.org/



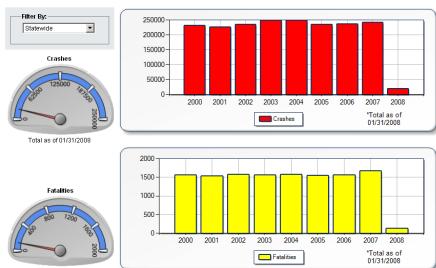
NCDOT Performance Dashboard - Ultimate

Visual Representation of Overall Health of an Organization

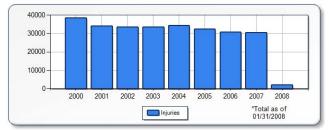


"Make Our Transportation Network Safer"

Programs » NCDOT Dashboard » Crash Details Statewide



Total as of 01/31/2008



Yearly Statistics

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Crashes	231647	225607	234478	248564	249155	234816	236326	241414	18790
Fatalities	1561	1533	1577	1561	1578	1550	1555	1668	120
Injuries	38464	34070	33424	33337	34213	32192	30766	30297	2022
VMT (100MVM) ₁	892.46	915.71	936.86	937.63	956.27	1008.61	1016.48	1047.99	90.04
Crash Rate	259.56	246.37	250.28	265.1	260.55	232.81	232.49	230.36	208.69
Fatality Rate	1.75	1.67	1.68	1.66	1.65	1.54	1.53	1.59	1.33
Injury Rate	43.1	37.21	35.68	35.55	35.78	31.92	30.27	28.91	22.46

* Total Year to Date

Data current as of: 01/31/2008

More information on how we get these numbers.

Click this link to learn how we got these numbers

NCDOT Performance Dashboard - Interim

NCDOT Organizational Perfo	rmance Dashboard
PRODUCT OF	 Highlights: Check back for updates to this website. The next phase includes a series of Dashboards that report the DOT's performance in meeting our goals. For questions / comments regarding the NCDOT Dashboard please <u>Contact Us</u>.
<u>News & Updates</u> <u>McKinsey & Company Report</u> <u>Mission & Goals</u> <u>Values</u>	
■ News & Updates: ■ McKinsey & Company Report:	
· Moninsey a company Report.	
Mission & Goals:	
Goals: • Make our transportation network the set of th	
E Fatality Information (Crash Rep	
Make our transportation netw Congestion Areas O Strategic Highway Corridors O Travel Information (TIMS)	vork move people and goods more <mark>efficiently</mark>
 Make our infrastructure last 	longer
Executive Summary Report, 201 Full Maintenance Condition Re	
 Make our organization a place 	e that works well
 Continuous Process Improverr Construction Progress Report Money Spent on Construction F 	
 Make our organization a greation 	t place to work
Current Job Postings Employee Newsletter, In the Lo Office of State Personnel Employee	NORS DI LO DE DECES

Improved Human Management



Developing our employees by having the <u>right</u> <u>people</u> with the <u>right set of skills</u> in the <u>right jobs</u> at the <u>right time</u> to accomplish our mission...

Performance Dashboard Appraisal - Section A

Section A. Performance Metrics

Performance Cycle Date:		
Name:	Unit/Sec	ection:
Classification/Title:	Supervi	risor's Name:

NCDOT Goals: (1) Make our transportation network safer. (2) Make our transportation network move people and goods more efficiently. (3) Make our infrastructure last longer. (4) Make our organization a place that works well. (5) Make our organization a great place to work.

Enter	Enter Performance Metrics (Results Expectations)			Pr	Progress Reviews			Year End		
NCDOT Goal (1-5 above)	Measure	Target	% Weight	Review Date:	Review Date:	Review Date:	Actual Results	Number Rating *1, 2, 3	Weighted Rating % Weight x No. Rating	
1	Crash Rates	238-230	5							
2	Reliability of Strategic Highway Corridor and Regional Tier Routes	TBD	0							
3	Division Infrastructure Health	C- to C	40							
4	Projects/Programs/Services on Schedule and on Budget	70-89%	40							
4	Customer Service	70-89%	5							
4	Fiscal Management	90-95%	5							
5	Employee Safety	6.1-7	5							
5	Employee Satisfaction	TBD	0							
5	Retaining, Developing, and Retaining Employees	TBD	0							
	Total % must = 100						Combined Weig	ghted Rating =		
*Number F	*Number Rating Key:			Sum of % wei	ghts that receiv	ed a number rat	ting of "1" at ye	arend		

 1 = Does not meet expectations

 2 = Meets expectations

 3 = Exceeds expectations

Beginning or performance cycle: Signatures indicate supervisor and employee have discussed performance metrics, NCDOT values and leadership competencies.

Supervisor's signature:	Title:	Date:	
Employee's signature:	Date:		

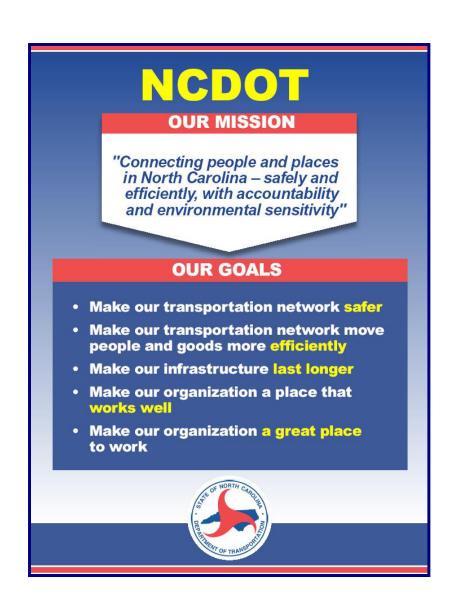
Performance Dashboard Appraisal - Section B

Section B. NCDOT Values

Supervisor's Instructions:

At the end of the performance cycle, check "YES" or "NO" as to whether the employee adhered to each value during the performance cycle. If "NO" is checked, a description of the non-adherence must be provided in the "Comments" column.

Values		red to ue?	Supervisor's Comments
(Behavioral Expectations)	YES	NO	
Safety: We strive for safety throughout our transportation networks as well as in our work and our daily lives.			
<u>Customer Service</u>: We respond to our customers, both internal and external, in an open, professional and timely manner.			
Integrity: We earn and maintain trust by responsibly managing the state's assets, acting ethically, and holding ourselves accountable for our actions.			
Diversity: We draw strength from our differences and work together in a spirit of teamwork and mutual respect.			
Quality: We pursue excellence in delivering our projects, programs, services and initiatives.			



It all comes back to....

- Working together for a common purpose
- Planning and prioritizing our work
- Delivering our projects & programs effectively
- Measuring our performance
- Developing our employees

Fulfilling our role of "Connecting People and Places in North Carolina"