

Challenges of Implementing Performance Measures in MORPC's MTP

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Advancing Metropolitan Planning for Operations

An Objectives-Driven, Performance-Based Approach



GUIDE TO SUSTAINABLE TRANSPORTATION PERFORMANCE MEASURES



Sustainable Transportation Indicators A Recommended Research Program For Developing Sustainable Transportation Indicators and Data

10 November 2008

By the
Sustainable Transportation Indicators Subcommittee of the
Transportation Research Board (ADD40 [1])

Subcommittee Chair Todd Litman (tlitman@vtpi.org)

Summary

This paper, developed through a cooperative effort by the Transportation Research Board's Sustainable Transportation Indicators Subcommittee (ADD40 [1]), identifies indicators that can be used for sustainable transportation evaluation. The paper discusses sustainable transportation definitions and concepts, describes factors to consider when selecting indicators, exemplify specific sustainable transportation indicators, discusses issues of data quality, and provides recommendation on further research and development in the field. We hope these recommendations will be endorsed by TRB and other professional organizations, leading to the development and application of suitable sustainable transportation indicator sets in the US and worldwide.

Paper 08-3403
2008 Transportation Research Board Annual Meeting
Words: 4,500 + 3 table = 5,250



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Well Measured

Developing Indicators for Sustainable and Livable Transport Planning
18 August 2010

NCHRP REPORT 551

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

Performance Measures and Targets for Transportation Asset Management

A world view taken in

Abstract
This report provides transportation planning development and sus applied in transport e sustainable transport provides recommend particular situation.

A shorter version of Sustainable Transpo

NCHRP REPORT 664

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

Measuring Transportation Network Performance

TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Performance Measurement in Transportation Planning

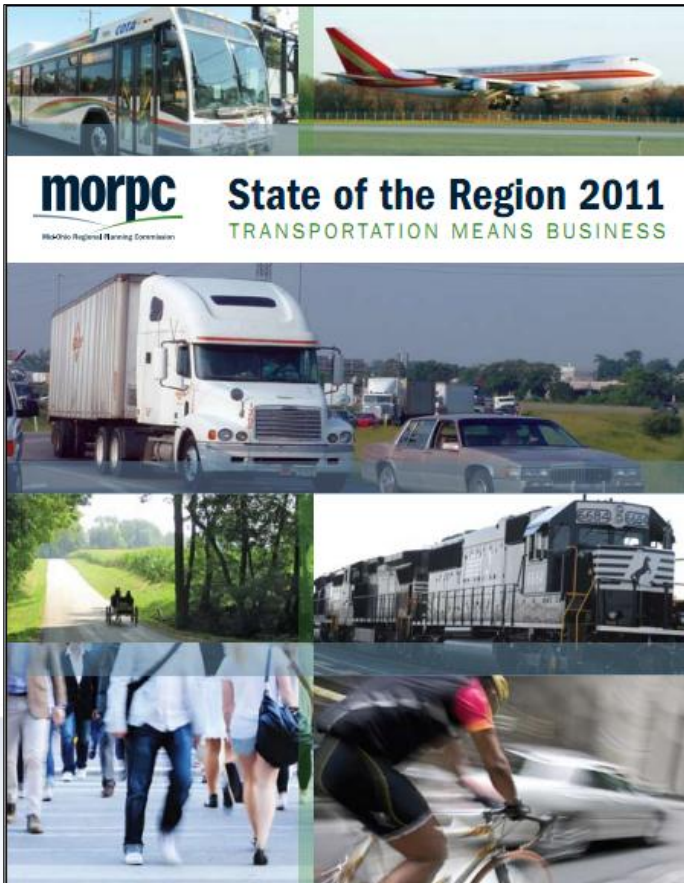
April 20, 2011

Conference resources available at:

www.planning.org/audioconference/pmtp



“Performance Measure” and “Indicator” are not interchangeable terms



TRRTRANSIT

From 2009 to 2010, COTA annual ridership increased to over **17 MILLION**.

Ridership on DATA, in Delaware County, increased **55%** between 2009 & 2010.

Licking County Transit experienced a **21%** increase between 2008 & 2009.

16

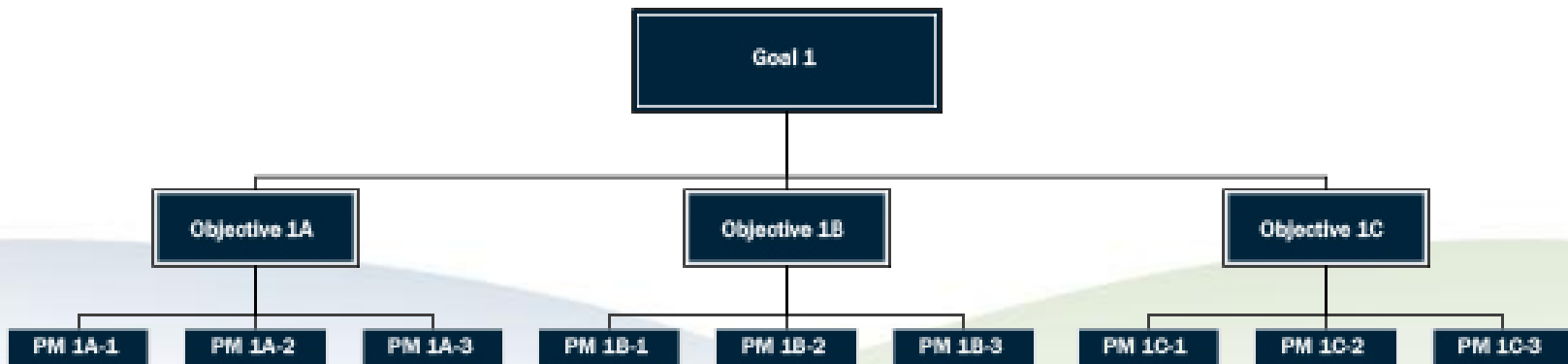
Performance Measures

- Like indicators, but with a forward focus
- Targets can help provide that forward focus



Relationship to MTP

- Connected to Goals and Objectives
- Ideally: multiple performance measures for each objective



Performance Measures can help evaluate...

- Existing Conditions (Baseline)
- Future Conditions (Scenarios, Modeling)
- Plan Implementation (Tracking & Targets)



Example

- **Goal:** Position central Ohio to attract and retain economic opportunity to prosper as a region and compete globally
- **Objective:** Increase attraction and retention of a skilled work force
- **Transportation System Measure:** Availability of transportation options
- **Target:** 300 new miles of designated bikeways by 2035 (up from 402 miles)
 - **Tracking:** bikeway construction in miles
 - Need an average of 13 miles per year to meet that target

In the Context of Transportation Planning:

Two Categories of Performance Measures

- Measures of transportation system performance
- Measures of transportation's impacts on other things people care about



FHWA Peer Exchange

- The 4 Key Performance Measures
 1. Safety
 2. Reliability
 3. Congestion
 4. Air Quality



Safety

Goal: Use public investments to benefit the health, safety and welfare of people

Objective	Measure	2012 Benchmark	2016 Target	2035 Target
Increase safety of central Ohio residents	Crashes for all travelers, per million vehicle miles traveled, on collector or above roadways	2.31 crashes per million VMT	2.25 crashes per million VMT	2.00 crashes per million VMT

- A 15 percent reduction by 2035 in crashes for all travelers per million vehicle miles traveled on collector or above roadways.



Reliability

Goal: Position central Ohio to attract and retain economic opportunity to prosper as a region and compete globally

Objective	Measure	2012 Benchmark	2016 Target	2035 Target
Attract new businesses expand and retain existing businesses	Travel time variability	New measure		

- No target in our 2012 MTP – just beginning to track.



Congestion

Goal: Position central Ohio to attract and retain economic opportunity to prosper as a region and compete globally

Objective	Measure	2012 Benchmark	2016 Target	2035 Target
Attract new businesses expand and retain existing businesses	Percentage of the transportation system under congested conditions	Daily: 3% Peak Periods: 8%	Daily: less than 5% Peak Periods: less than 10%	Daily: less than 5% Peak Periods: less than 10%

- Through 2035, less than five percent of the transportation system operating under congested conditions daily; less than ten percent during peak periods.



Air Quality

Goal: Preserve and protect natural resources to maintain a healthy ecosystem

Objective	Measure	2012 Benchmark	2016 Target	2035 Target
Reduce air pollutants and greenhouse gas emissions	Meet EPA air quality standards for each criteria pollutant	Ozone Attainment PM2.5 Attainment (by 2012) NOX Attainment	Ozone Attainment PM2.5 Attainment NOX Attainment	Ozone Attainment PM2.5 Attainment NOX Attainment

- Region meets (or exceeds) EPA air quality standards for each criteria pollutant through 2035.



Other Performance Measures with Targets in 2012 MTP

- Single Occupancy Vehicle Travel
- Transit Coverage
- Bikeway System Coverage
- Structurally Obsolete Bridges
- Pavement Condition
- Complete Streets Policy Adoption
- Disadvantaged population travel time
- Density of people and jobs along arterials

Setting Targets

- Balance aspiration with constraints – make them realistic and achievable
- Consider data availability
- Estimate staff time and resources to track



Why include Performance Measures?

- Tells the overall story
- Good practice
- Accountability
- Leverage
- “Keep your eye on the ball”



Questions?

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