

Traffic Data Collection

Needs & Technical Solutions

Welcome!

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Today's Agenda

1. Reviewing Miovision's Technology
2. Traffic data collection **needs & solutions**
 - Signal timing example
3. What are your traffic data collection needs?

3 Step Process



COLLECT VIDEO



UPLOAD VIDEO



DOWNLOAD REPORTS

3-Step Video Demonstration
www.miovision.com/products



COLLECT VIDEO

1 Equipment Type

10 Study Types

Portable

Compresses to 4'3"

Set-up

Less than 10 minutes

Equipment Set-Up Video Demonstration

www.miovision.com/resources/photos-videos



Scout VCU

scout
video collection unit



- **Bright 5.6” LCD screen**
- **Battery 72 Hours**
- **Capacity: 16GB = 72 Hrs**
- **10 Study Types**

<http://www.miovision.com/products/hardware/scout-vcu/>

miovision
technologies



UPLOAD VIDEO



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www.trafficdataonline.com

Signal Timing Benefits

ITE states **signal timing Benefit-to-Cost ratio** is **40:1** or more.

- | | |
|-----------------------------------|--------|
| i. Reducing travel time by | 7-13% |
| ii. Reducing delays by | 15-37% |
| iii. Reducing fuel consumption by | 6- 9% |

Sources: www.ite.org/councils/RetimingTrafficSignalsweb.pdf
www.ite.org/signal/index.asp

Signal Operation Needs

National Traffic Signal
Report Card
2012

Management	D
Traffic Signal Operations	C
Signal Timing Practices	C
Traffic Monitoring And Data Collection	F
Maintenance	C
OVERALL	D+

National Transportation Operations Coalition



Major Problem:
Lack of Resources

Signal Operations Needs & Solution:

Lack of Resources

Not enough manpower?

Budget restrictions?

Automate Data Collection

Set-up VCU < 10 minutes

Collect more data with the same budget

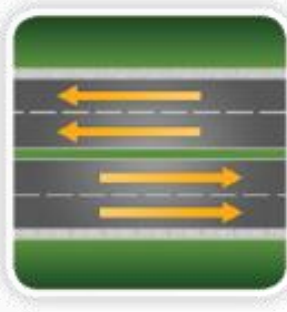
Miovision's Solution: High Quality Data

1. 95%+ data accuracy
2. Additional data collection – longer counts, weekend counts, holiday counts, special event counts, etc.
3. Corridor retiming – all counts on the same day

Miovision`s Platform: 10 Study Types



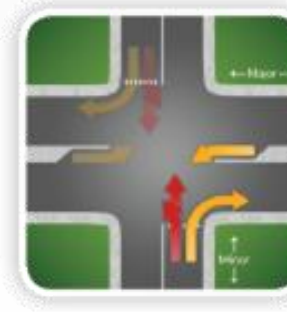
Turning
Movement Counts



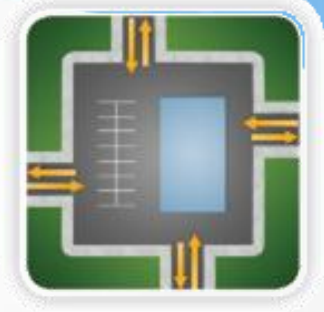
Average Daily
Traffic Counts



Roundabout
Counts



Gap
Studies



Trip Generation
Studies



ALPR/ANPR
Studies



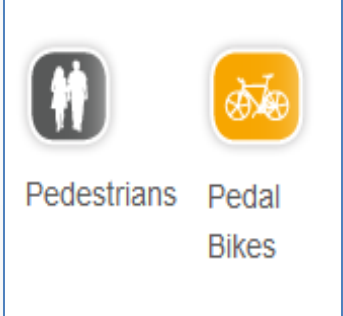
Origin-Destination
Studies



Travel Time
Studies



Parking
Studies



Pedestrians

Pedal
Bikes

What are your traffic data collection challenges?

- Operations
- Safety

Miovision`s Platform



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Versatile tool for traffic and safety engineers.