Transportation and Health

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Data Integration

Traffic Data Sensors
Crowd sourcing Mapping/GIS Analytical Models

Physical

+ Digital/Virtual

- Radar
- Bluetooth
- Signal loops
Smartphones and crowdsourcing

Working for ODOT on Apps to collect activity data (e.g. bicycle route data, socioeconomic data, safety)

Applications
- Transportation and activity models
- Physical activity levels
- Integration with other sensor data

Source: Waze Inc 2013
Mobile Sensor Data

Platform:
- GPS/route
- AQ sensors
- Air/Breath samples
  - VOC analysis (with J. Pankow)
- Heart, Breathing rate data
- Weather/Env. data
Mobility and Safety

Safety Data & (Active) Transportation Applications
e.g. Hotspots and Safe Routes to School
Thank you for your time

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