



RISE

Resilience Innovations

RISE – Resilience Innovations in Hampton Roads

VCPC 5th Annual Conference

Dr. Paul A. Robinson

October 27th, 2017

The Beginning of RISE

- **January 2016 - \$120 million NDRC award.**
- **\$5.25 million allocated for a regional resilience lab / technology accelerator – RISE (501(c)(3)).**
- **Pledge of additional \$5 million from the Commonwealth.**
- **RISE Agreement with Commonwealth signed. Final HUD approval received.**



RISE

RISE Vision -

Grow the regional economy around: community revitalization, water management, and resilience measurement .

RISE Mission -

- ✓ Accelerate **global** market activity.
- ✓ Develop a regional “living laboratory” to test **innovation**.
- ✓ Facilitate **partnerships and collaboration**.
- ✓ Foster economic growth in the **Hampton Roads region**.



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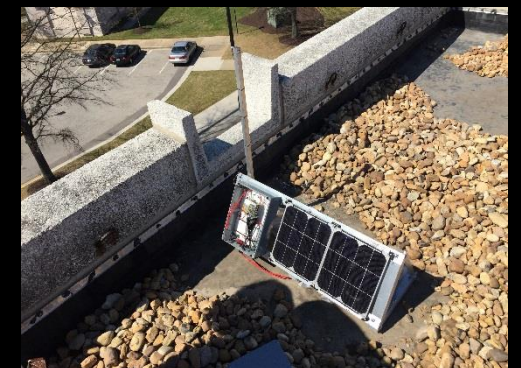
Development of a Water Sensor Testbed

- **Develop a multi-purpose environmental water sensor testbed in Hampton Roads including (but not limited to):**
 - ✓ **Water level measurement**
 - ✓ **Rainfall and stormwater management**
 - ✓ **Environmental water quality testing**
 - ✓ **Salinity measurement**
 - ✓ **Dissolved O₂ measurement**

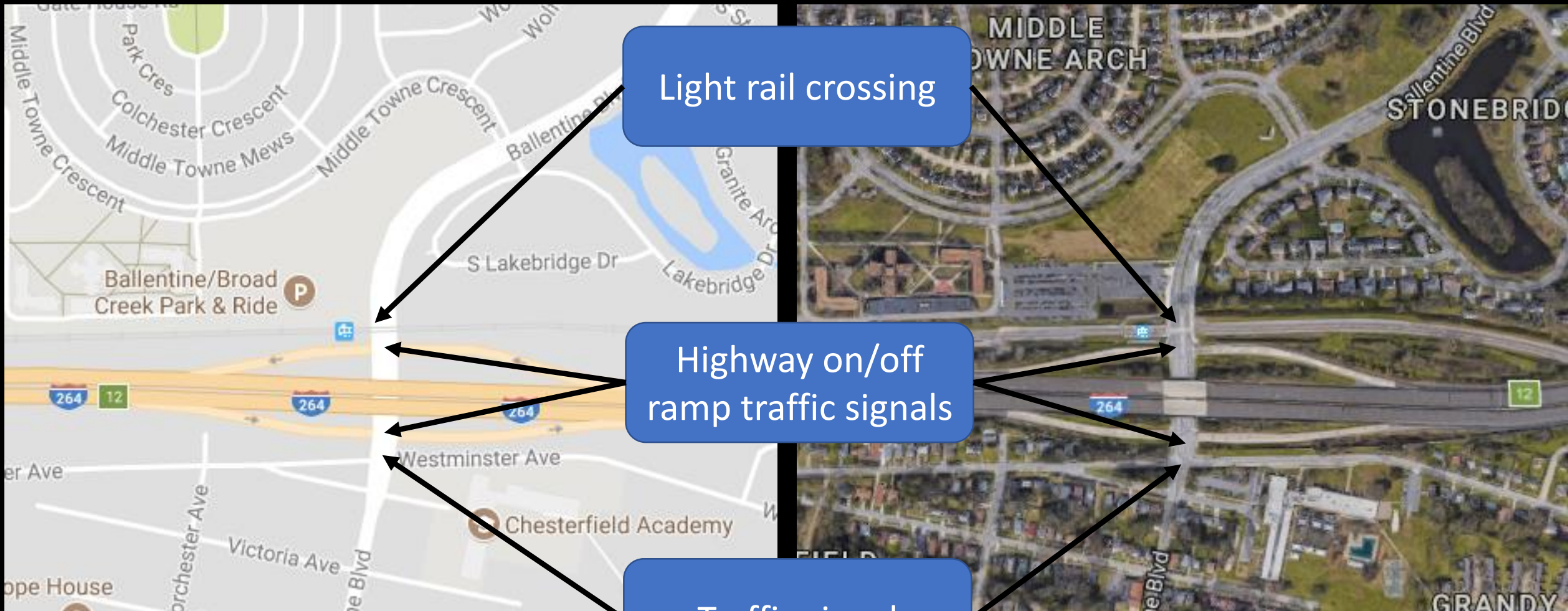


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Low-Cost Water Level Measurement in Norfolk



Ballentine Blvd. Intersection Challenge



Light rail crossing

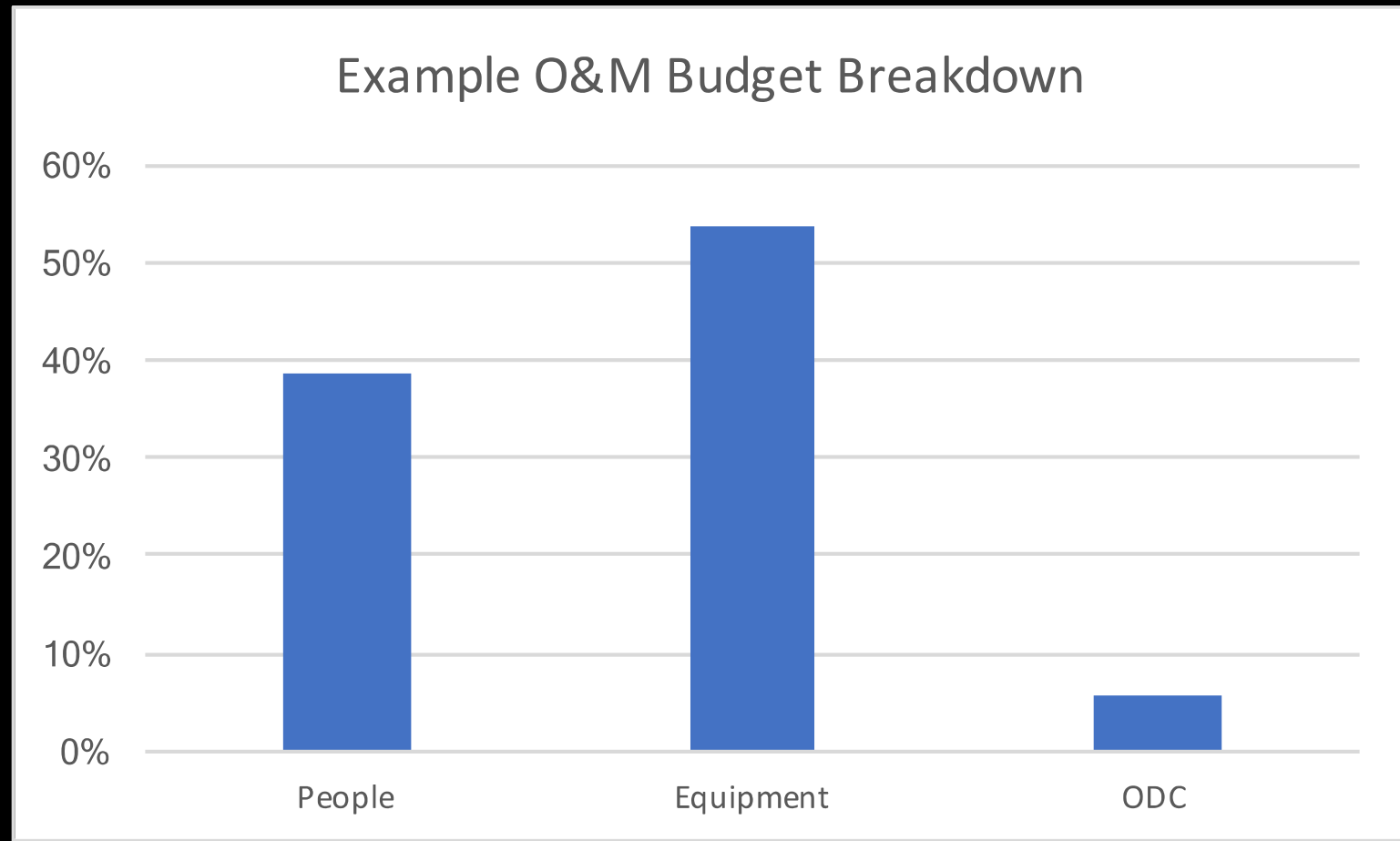
Highway on/off ramp traffic signals

Traffic signal



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Green Infrastructure O&M Cost Reduction Challenges



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