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#### Evaluation of a Shared Space Alternative in Morgantown, WV

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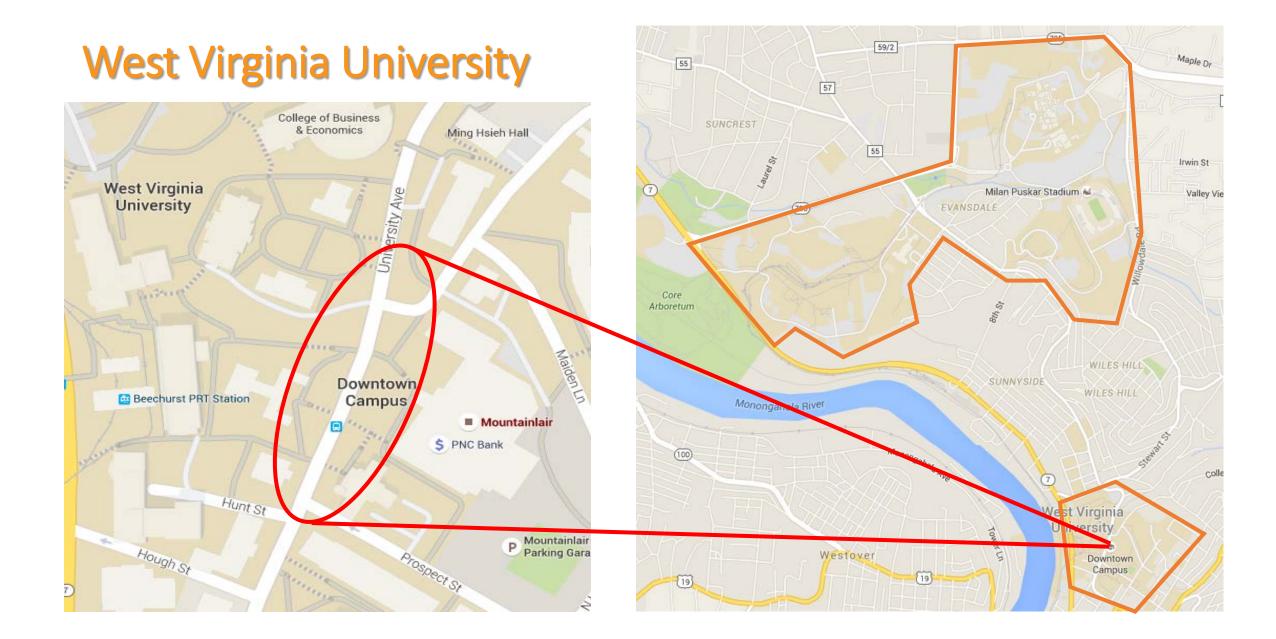
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# Evaluation of Shared Space in Campus Environment

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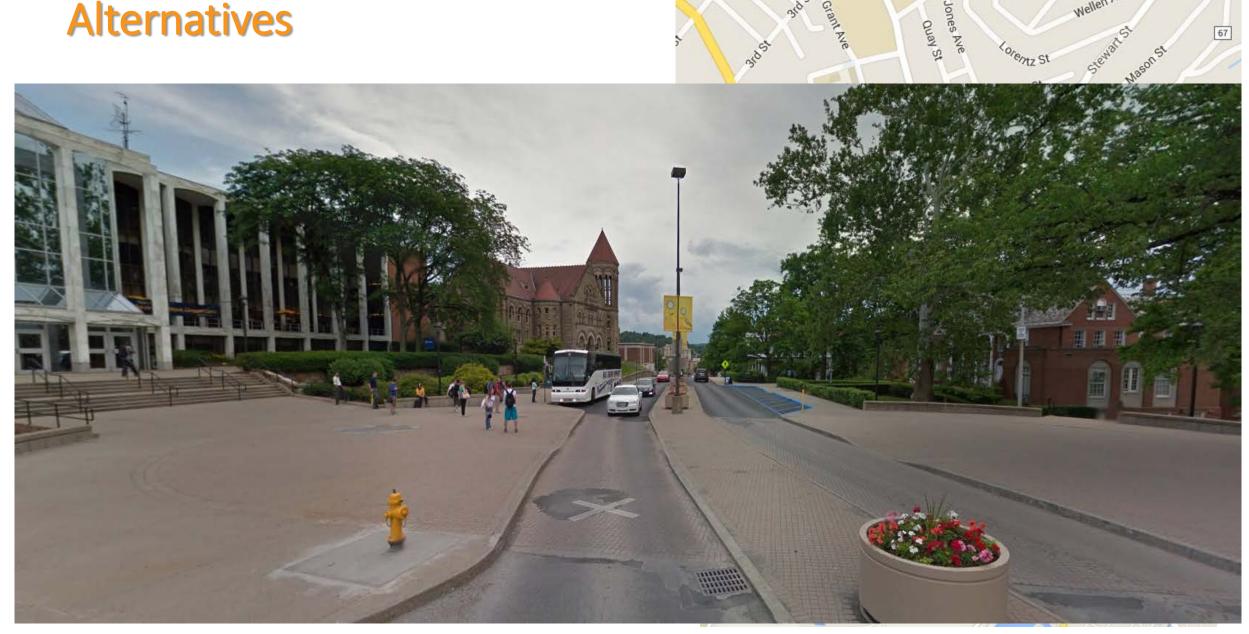
#### **Problem Area: Grumbein's Island**





Implemented in 1934 by Professor Grumbein to provide pedestrians with a refuge while crossing University Ave.

# **Alternatives**



31051

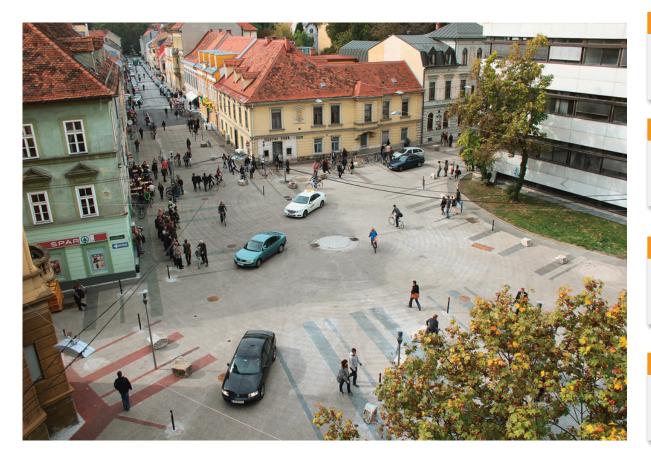
Grant

Flip

67

Wellen Ave

# **Shared Space**



Hans Monderman in Netherlands

Pedestrians and vehicles have equal access

**Reduced Speed Areas** 

Drivers more cautious

Eliminates lanes, sidewalks, crosswalks, and signals and any separation devices

# **Shared Space**









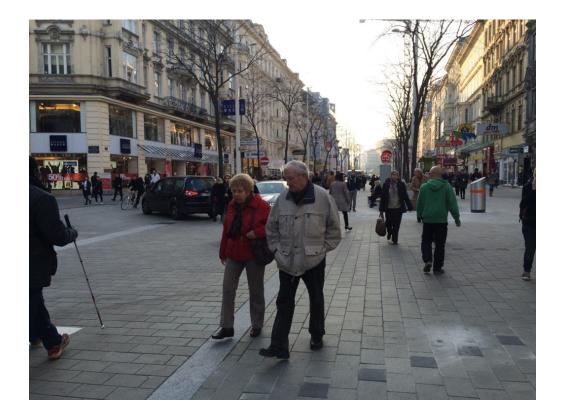
#### **Shared Space: Improved Pedestrian Safety**

#### Increased pedestrian visibility

More alert drivers

More attentive pedestrians

No defined crossing space



Mariahilferstrasse: Vienna, Austria http://andreaslindinger.at/

### **Shared Space: Community Revitalization**



Fountains Place: Poynton, England ericvery.wordpress.com

# **Shared Space: Efficiency and Economy**

- Continuous traffic flow
- Fewer shock waves
- Pedestrians spread out, yielding to oncoming traffic

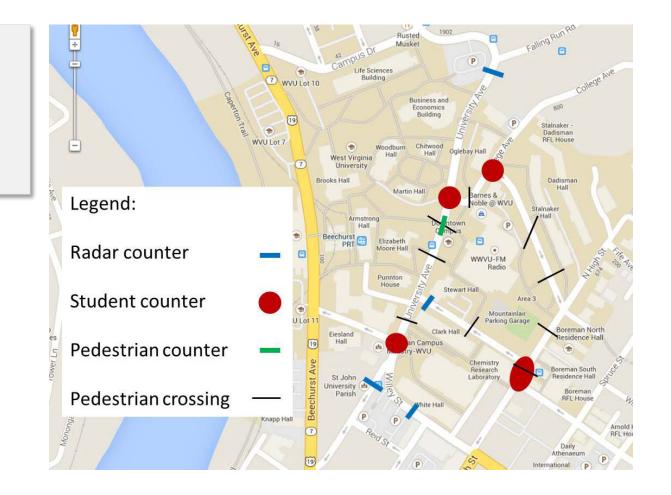
- Low impact to existing infrastructure
- Fraction of cost to build bridge and tunnel
- Reduced construction time



# **Traffic Study**

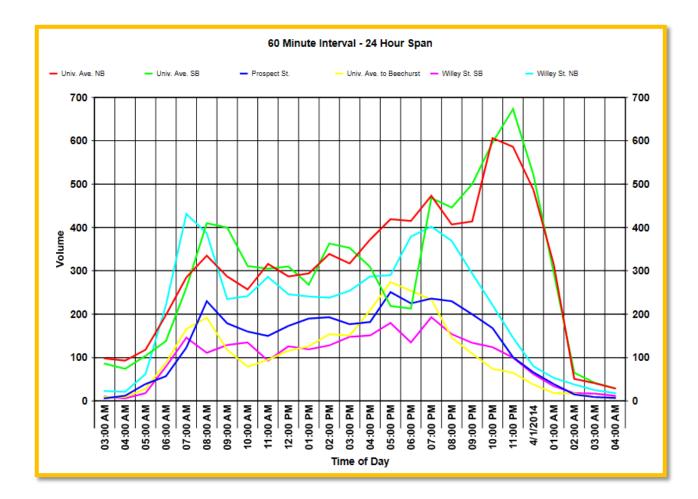
- 28 student volunteers
- Counted vehicles and pedestrians at selected intersections

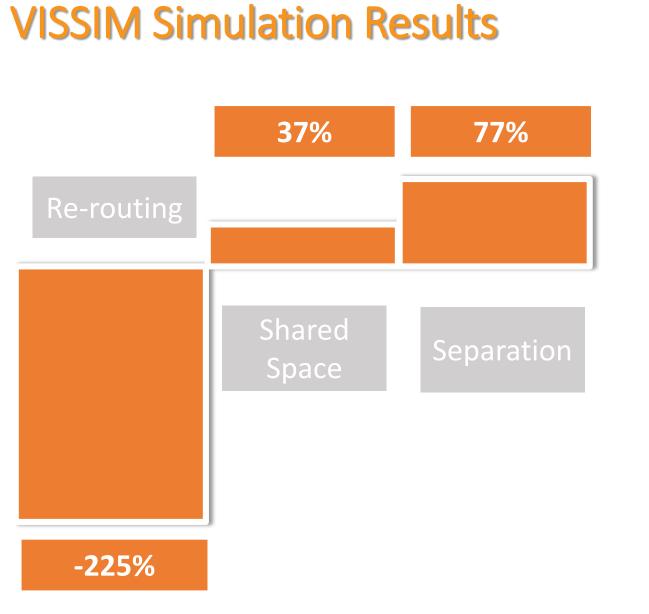


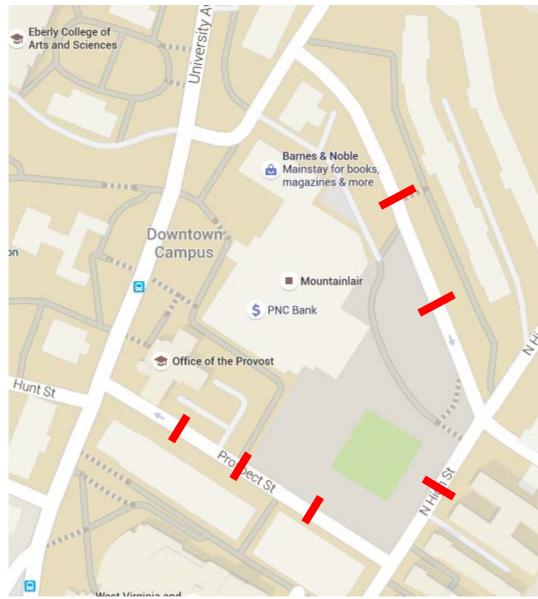


# **Traffic Study**

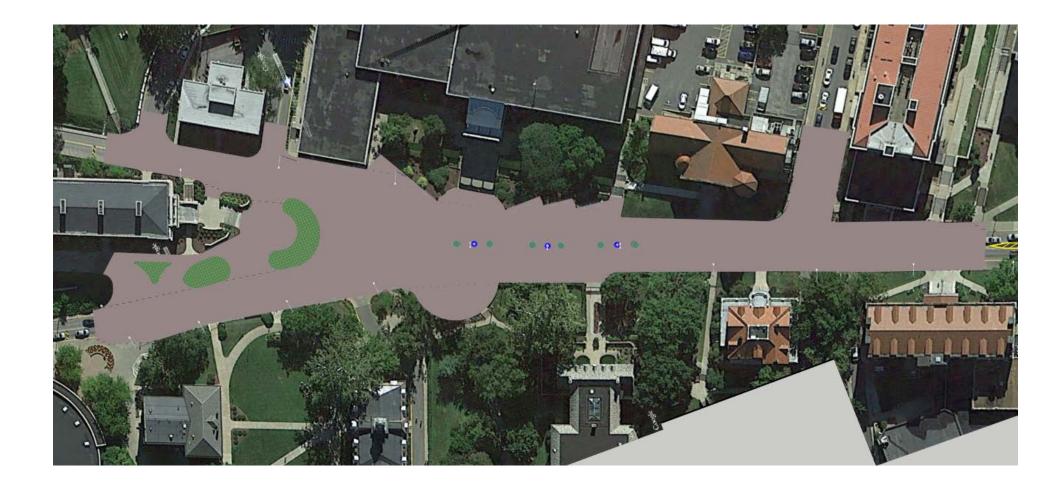








# Alternative 1: Large



#### **Alternative 2: Medium**





# **Shared Space Challenges**

#### Legal

- Assess how shared space fits in with WV rules of the road
- Recommend any necessary additions or revisions to laws, codes, or driver's education manual

#### Design

- Designs are in accordance with MUTCD, ADA, and other requirements
- Location of bus stops, freight pickup and delivery zones

# **Shared Space Challenges**

#### Outreach

- Educate WVU students and local community about shared space
- Involve public through Q & A sessions
- Incorporate public concerns and needs in planning process



#### Public Relations with assistance from Reed College of Media

#### **Current Research**

Improvement of simulation models using VisWalk

Collect more pedestrian data

Collect and analyse crash data

Survey users prior to construction and following construction to measure comfort, perceived safety, willingness to use, and overall approval

# **Conclusions**

#### Shared space can

- Increase pedestrian safety
- Decrease vehicle congestion
- Improve community atmosphere



#### Shared space has had success in multiple European cities

#### WVU downtown campus is well suited to pursue shared space

#### **Questions?**



