Safer and Better Intersections

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Intersection Considerations

- Capacity

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\begin{array}{c|c}
2000 & 1500 \\
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- Delay and Queues
Intersection Considerations

• Crashes
  ✓ 32 vehicle conflicts
  ✓ 24 pedestrian conflicts
Intersection Control Devices

- No control
- Stop or Yield
- Roundabout or mini-circle
- All-way (4-way) Stop
- Traffic Signal (21 options)
Merits of ICD’s

- Capacity
  - Traffic Signals
  - Roundabouts
  - Stop
  - All-way Stop
Merits of ICD’s

- Delay
  - Roundabouts
  - Stop
  - Traffic Signals
  - All-way Stop
Merits of ICD’s

- Safety
  - Roundabouts
  - Stop
  - Traffic Signals
  - All-way Stop
Merits of ICD’s

1. Roundabouts
2. Stop / Yield
3. Traffic Signals
4. All-way Stops
AutoJ

• Simulates all 25 ICD and signal options simultaneously
• For AM, PM and off-peak (or other) together
• For cars, heavy vehicles and pedestrians (NMT)
• Predicts future control needs
• Allows instant Traffic Impact Assessment analysis
• Draws signal timing diagrams
• Indicates optimal control choice