



County of Fairfax, Virginia

The Tiered Approach in Traffic Mitigation

Presentation to the Reston Task Force, March 26, 2013



Apply Traffic Mitigation Measures After the Application of the Following Vehicle Trip Reductions:

- Transit use
- Internal trips
- TDM measures such as:
 - Telework
 - Variable working hours
 - Carpooling



What is the Tiered Approach?

Apply Sequential Steps When Mitigating Traffic Congestion:

- Step 1: Lower cost mitigation measures with no right-of-way impact (signal modification, lane restriping, impedance change (e.g. speed reduction))
- Step 2: Medium and higher cost mitigation measures with some right-of-way impact (turn lanes, additional through lane, additional grid street) **up to a point**
- Step 3: Additional mitigation away from intersection



Where Will the Tiered Approach Be Applied?

- Complete current transportation analysis
- Reston Task Force concludes work
- Plan Amendment is adopted
- Conduct refined analysis of street network (grid of streets)
- When a property owner or developer conducts a Traffic Impact Analysis (TIA) as part of the rezoning process, they will be asked to apply the **Tiered Approach**



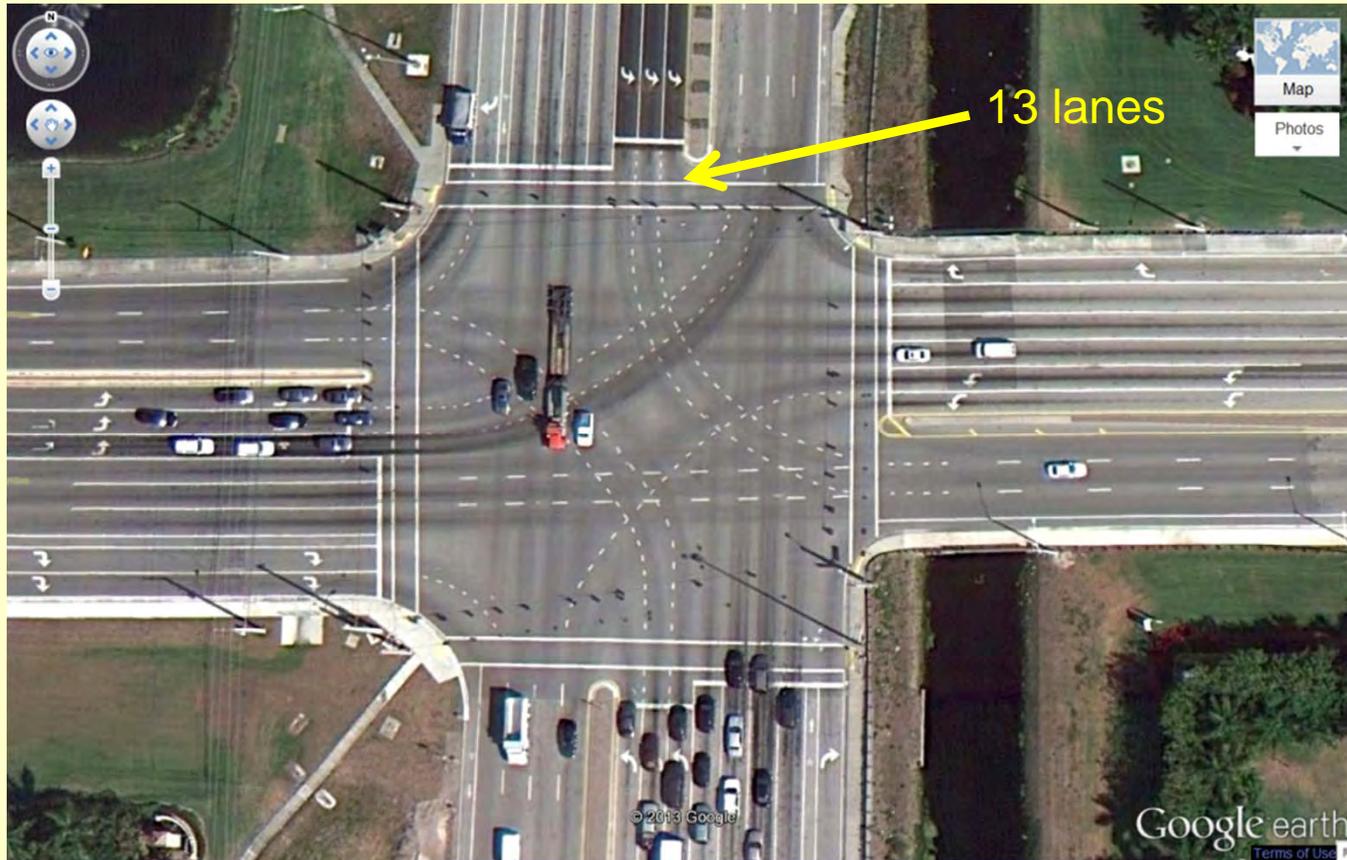
Why Apply the Tiered Approach?

- To obtain a balance between walkability and accommodating traffic when mitigating traffic needs
- We may therefore reach a point where no more mitigation measures are applied at a specific intersection under consideration even with reasonably high congestion levels
- Ask developers to consider a land use change, contributions to a Transportation Management Association (TMA), etc.



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What we do not want in TOD areas (13 lanes on one approach)





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What we may want in TOD areas

(With on-street parking and wide lanes to accommodate buses and bicycles.
Bike lanes can also be accommodated if the need is shown)





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What we may want in TOD areas

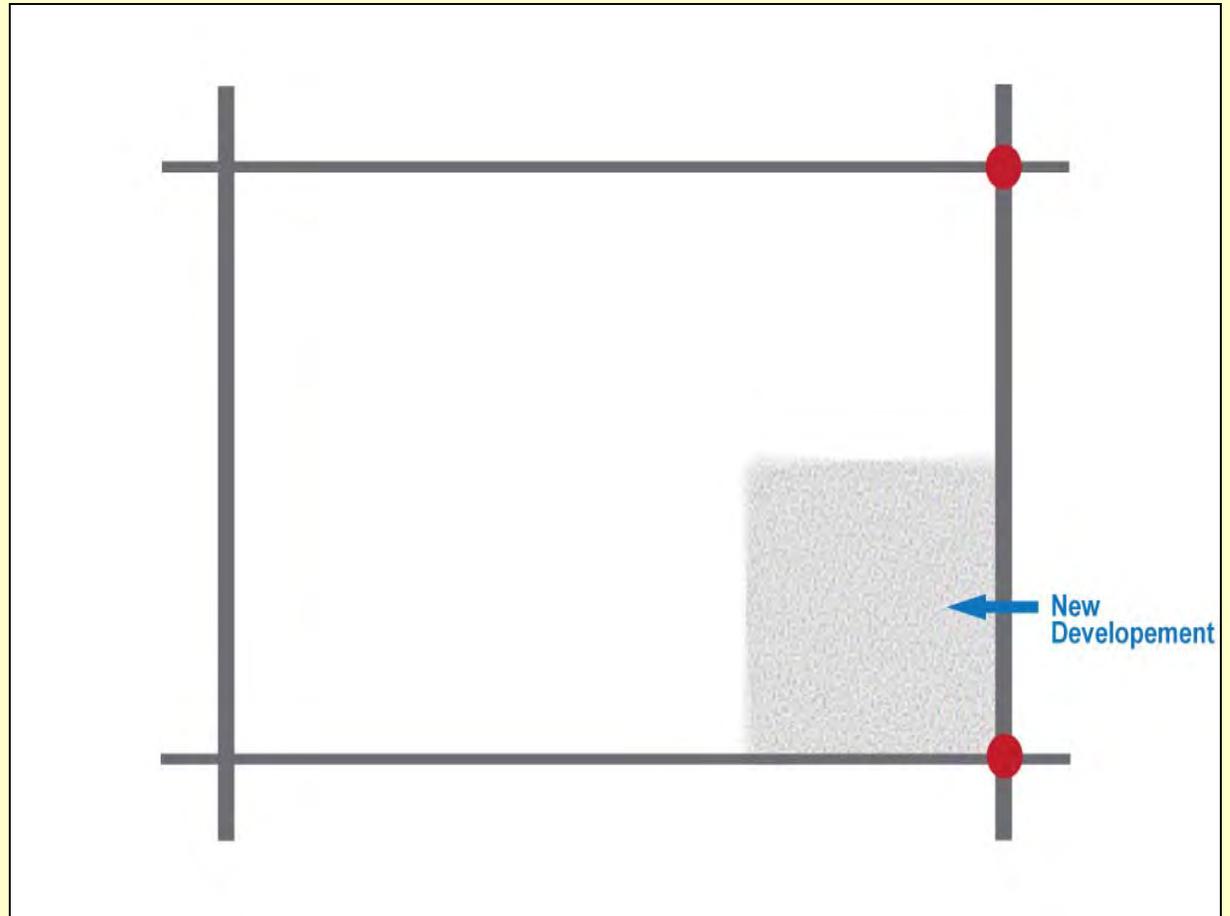
(Plus on-street parking and bicycle lanes and without the “Barnes Dance”)





Congestion Mitigation:

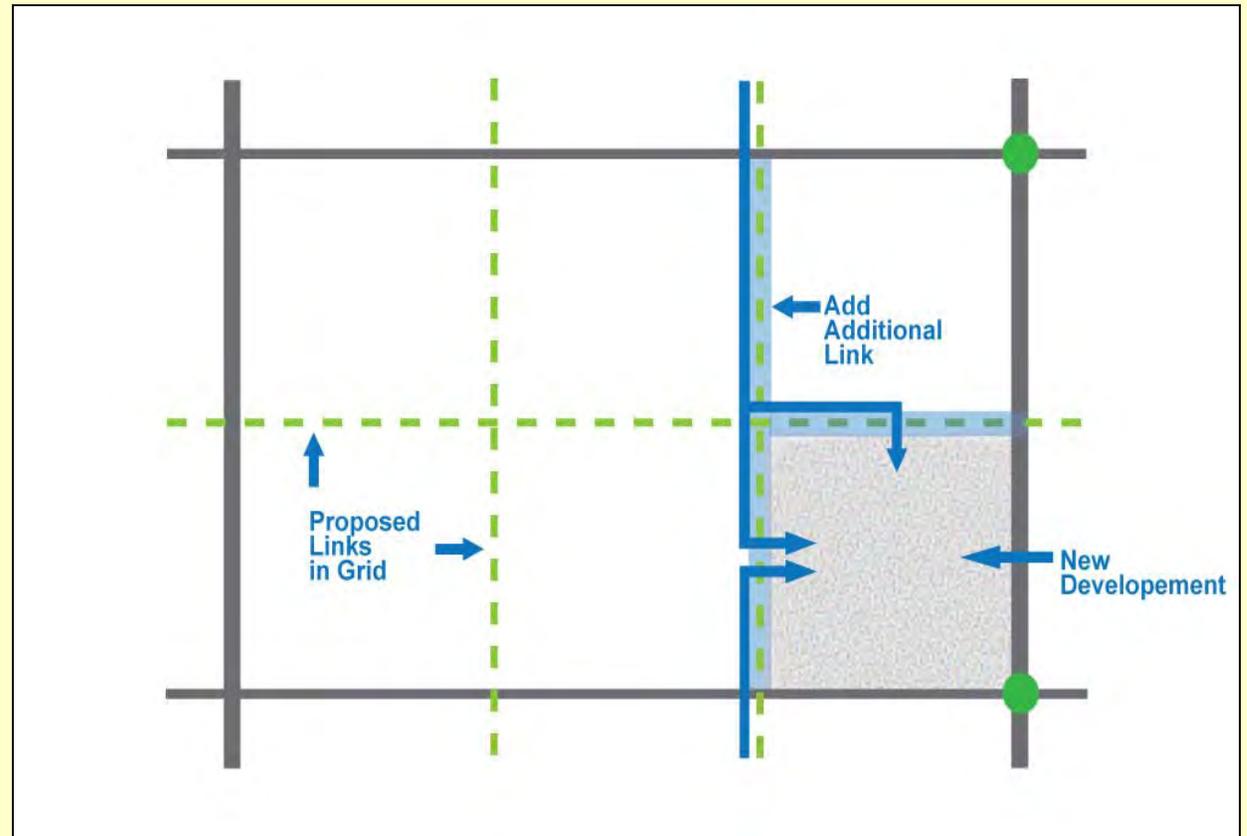
Building the Grid of Streets





Congestion Mitigation:

Building the Grid of Streets (cont.)





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Questions?