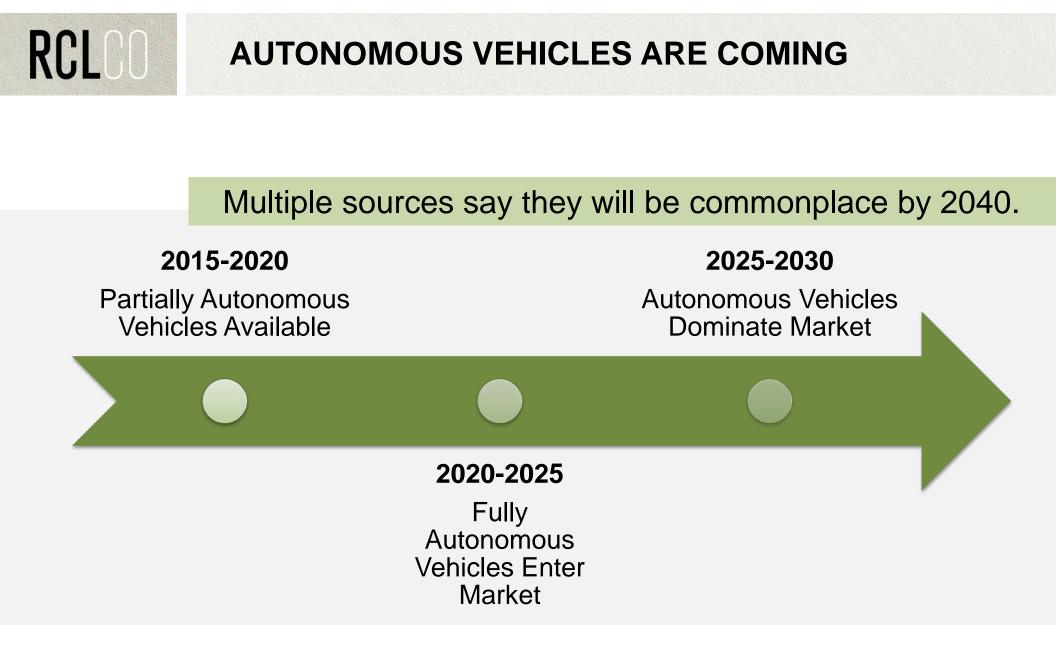


Makeover Montgomery 3: Balancing Change in America's Suburbs May 6, 2016

Adam Ducker, Managing Director



SOURCE: Jim Charlier, 2015. Community Builders webinar.



#### THEY ARE ALREADY OUT THERE





#### WE AREN'T PLANNING ENOUGH FOR THEM

Federal law requires MPOs to prepare regional transportation plan updates every 5 years. These plans have at least a 20-year outlook.

But in 2013, only 1 of the 25 largest MPOs in the U.S. mentioned driverless cars in its long-term regional plan.

SOURCE: Guerra, 2015. Planning for Cars that Drive Themselves: Metropolitan Planning Organizations, Regional Transportation Plans, and Autonomous Vehicles. *Journal of Planning Education and Research.* 



#### WHAT WILL THE IMPLICATIONS BE?





### **MORE THAN HANDS-FREE DRIVING**

The fundamental concept of getting around will change, starting with a **new ownership model:** 

#### Today:

- Private ownership
- 256M cars for 242M adults
- Cars parked 96% of the time
- High fixed costs
- Cars = goods

### The Future:

- Carsharing model
- 1 car for every 12 adults
- Cars on the move
- Pay per use
- Cars = service providers

#### DRIVERLESS CAR BRINGS THE OPPORTUNITY TO REBALANCE INFRASTRUCTURE SPENDING

Heavy, two direction road surfaces become unnecessary whe vehicles would be made of lighter composite materials; crash avoidance technology eliminate the need for a lot of steel reinforcement in vehicles





#### GREATER SAFETY, MOBILITY... BETTER DRIVERS MAKE STREETS MORE WALKABLE



### **ONE VISION OF THE FUTURE**

#### **The Future Family Routine**

#### Work Day:

- 7am Car leaves and takes Parent to Work
- 8am Car Arrives Home and Picks up Children and Parent to School and 2<sup>nd</sup> Workplace
- 10am Car Takes Itself to Repair Shop
- 3pm Car Picks up Children Drops one at Soccer Practice and One at Piano Lesson
- 5pm Car Picks up Everyone on Way Home for Dinner Together



#### Weekend:

- 6pm Friday Picks up Parents and then Children in NYC
- 9am Saturday Family Arrives Rested in Chicago
- Saturday and Sunday Family Spends at Grandparents in Chicago
- 4pm Sunday Family Leaves Chicago
- 7am Family Arrives Home Ready to get Ready for Work and School

#### RIDESHARING OVERTAKES PRIVATE VEHICLE OWNERSHIP (AND SHORT TRIP PUBLIC TRANSIT)

While the cost of private vehicle ownership will temporarily go up; the cost of car sharing will continue to plummet, replacing METRO and bus for local trips





# What does the future look like from a land use perspective?



#### REDEVELOP PARKING INTO HIGHER USES, LOWERS THE COST OF URBAN HOUSING:

These used to be parking. . . It turned out to be quite expensive



Seattle, Northgate Mall

Parklet in London



### AND RELOCATE THESE, TOO:

"Convenience" stores, including grocery, no longer need to be so convenient, freeing up these parcels for redevelopment and densification; eCommerce booms

### **EXISTING ACTIVITY CENTERS WILL DENSIFY:**

With the hassle of parking the car "automated," people will now fully engage in walkable, vibrant places.



Pike & Rose



#### WE WILL UNLOCK THE POWER OF THE BUS:

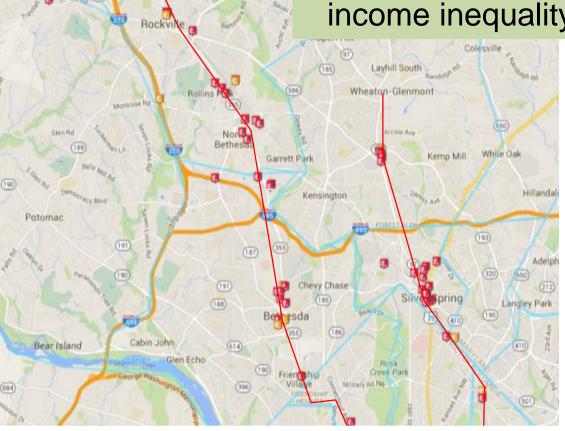
Automated, fixed-loop shuttles would be cost-effective and reliable. They could increase demand to live in medium density, in-between places.



SOURCE: Wepods, a new driverless bus system in the Netherlands. Each pod holds six.

#### THE TRANSIT RICH RING AROUND METRO WILL GROW FROM 1/4 MILE TO SEVERAL MILES

Area apartments built since 2000 have nearly all been transit-oriented, driving up land prices, rents and income inequality in the County.



Rock Creek Regional Park

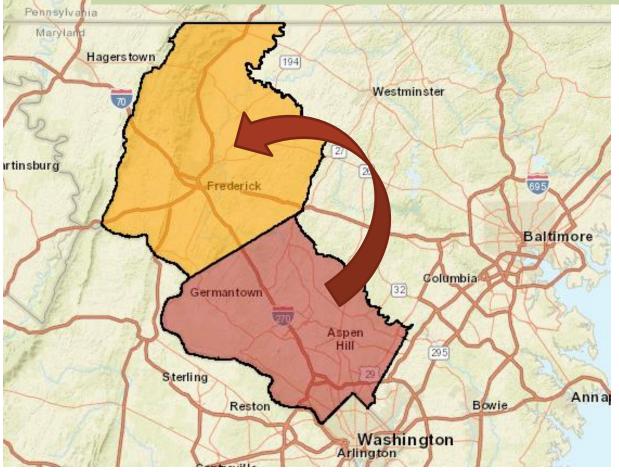
SOURCE: Axiometrics



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# THE LONG DISTANCE COMMUTE – OR DRIVE TO QUALIFY WILL GAIN BE FEASIBLE:

Will Frederick County be the bigger beneficiary of new residential activity?





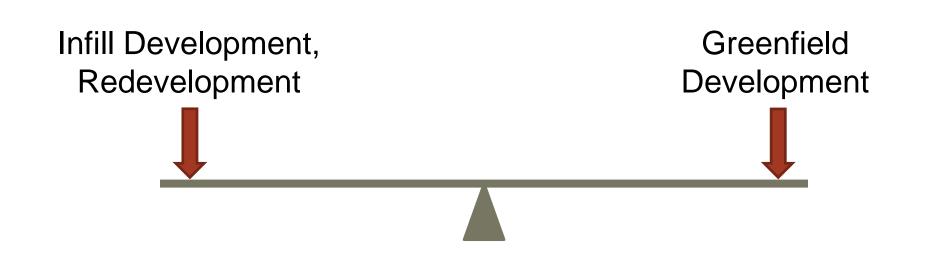
### WE CAN REUSE EXISTING INFRASTRUCTURE:

Excess highway capacity can be used for parking.





The challenge will be to adapt regulations, incentives, and plans to these new market forces to enable **the type of growth you want to see, where you want to see it.** 



#### Adam Ducker

Managing Director Phone: (240) 644-0980 aducker@rclco.com

#### RCLCO

7200 Wisconsin Avenue

Suite 1110

Bethesda, MD 20814

Phone: (240) 644-1300

Fax: (240) 644-1311

www.rclco.com

