

Arlington:

Car-Sharing vs. Private Vehicle Ownership Costs (household basis)

This analysis utilizes **Arlington and Virginia specific data** to estimate:

Household cost of owning a vehicle or using a car-share service

- on a per mile basis
- over a five year period
- at 1,000, 2,000 and 6,000 vehicle miles traveled (VMT) annually

Private Vehicle Ownership

1. Purchased New - Honda Civic Sedan LX 2017 (with loan)
2. Purchased Used - Honda Civic Sedan LX 2012 (with loan)
3. Purchased Used - Honda Civic Sedan LX 2003 (no loan)
4. Keep car after 5 years - Honda Civic Sedan LX 2003 (no loan)

Note: Parking related costs, such as RPP decals, metered, and reserved parking are not included in the private car-ownership calculation.

Free-Floating Car-Share Service

1. car2go Smart for two (reduced rate)
2. car2go Smart for two (normal rate)
3. car2go Mercedes Benz CLA/GLA

Note: Parking costs are included in the price per mile.

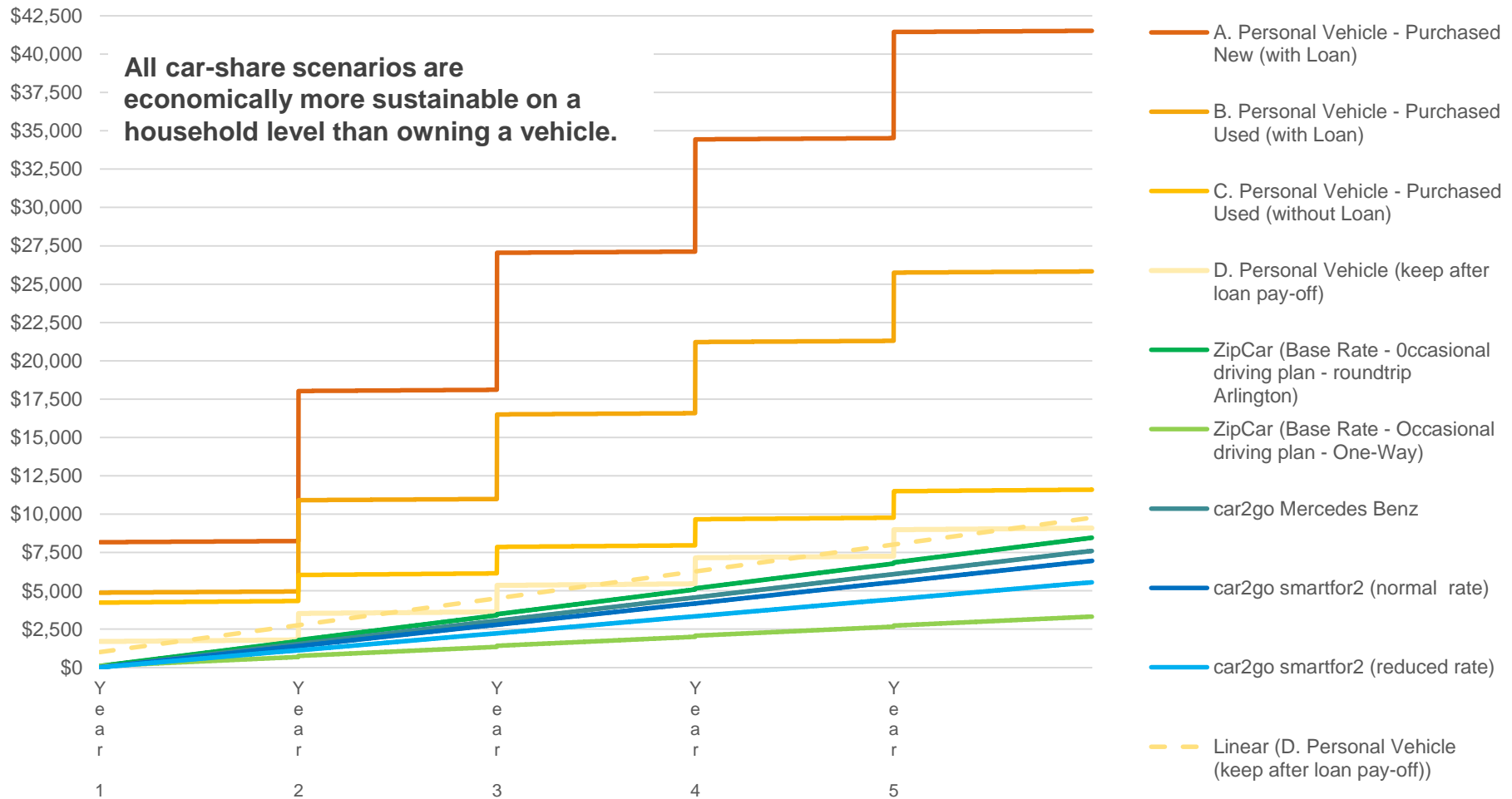
Reserved-Space Car-Share Program

1. ZipCar – reserved-space carshare service (round-trip)
2. ZipCar – reserved-space carshare service (one-way)

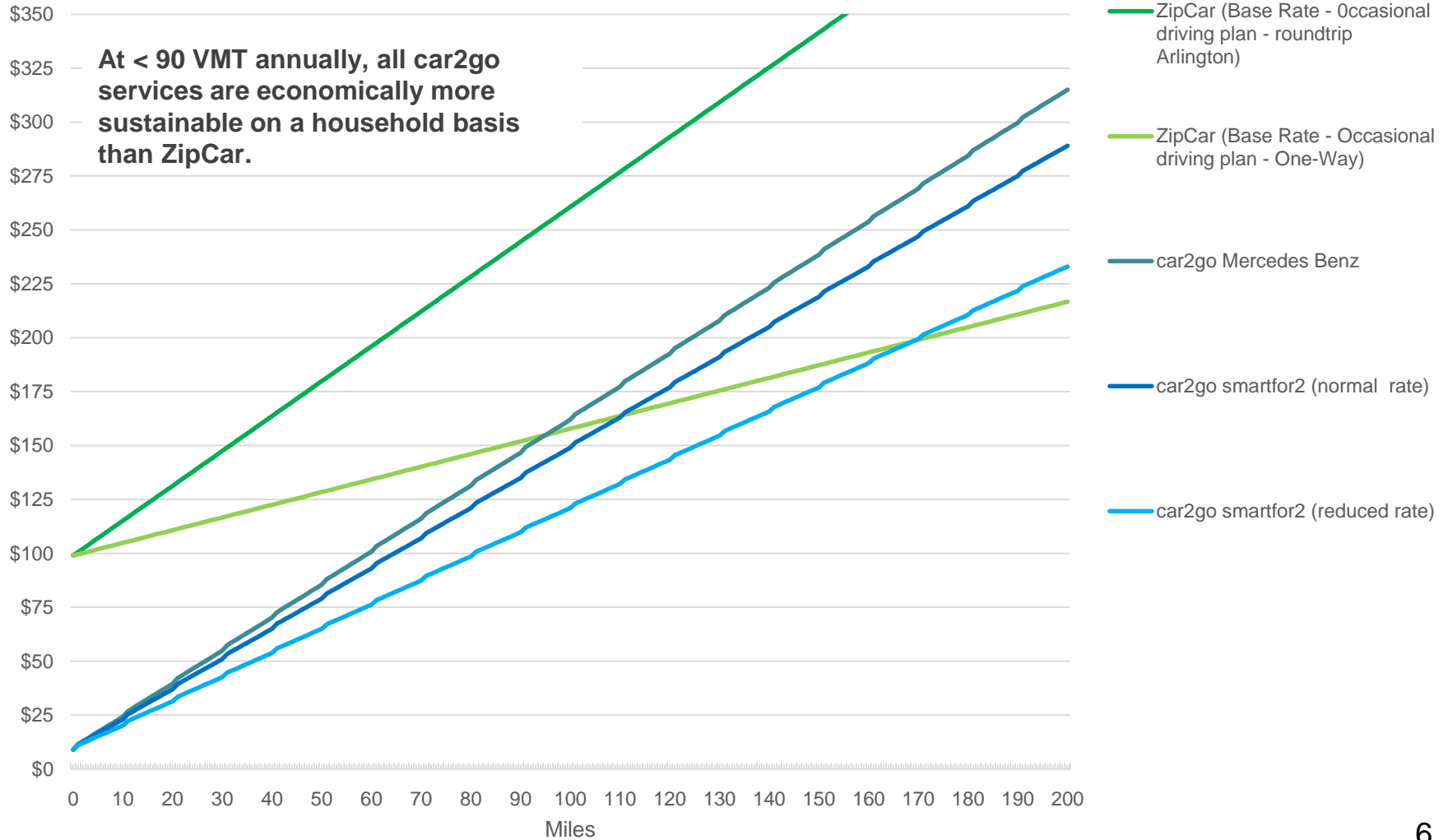
Note: Parking in car-share spaces is included in the price per mile; additional meter parking costs may accrue.

Economic Analysis

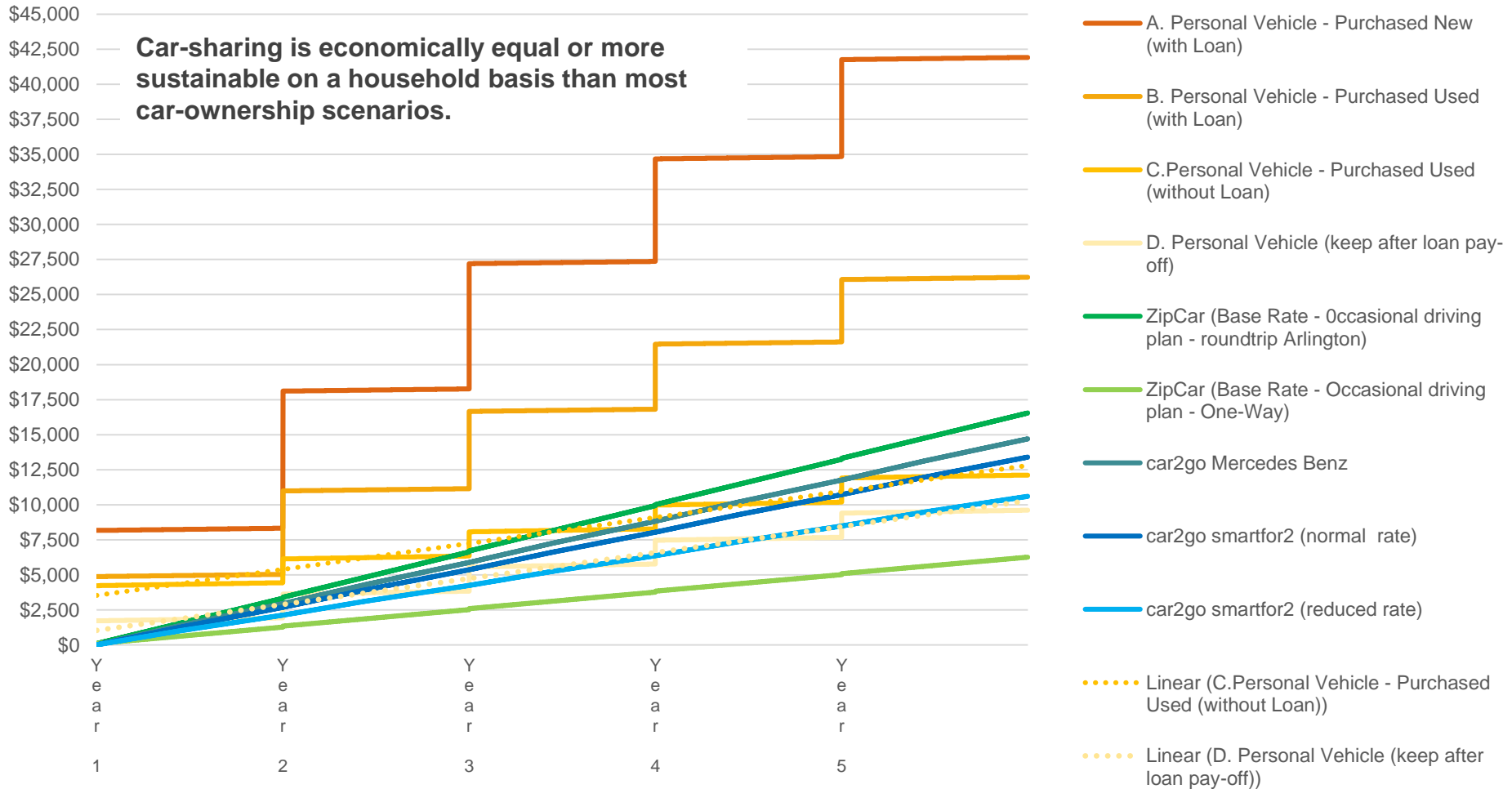
Car Ownership versus Car-Share over 5 years at 1,000 VMT annually (19 miles a week)



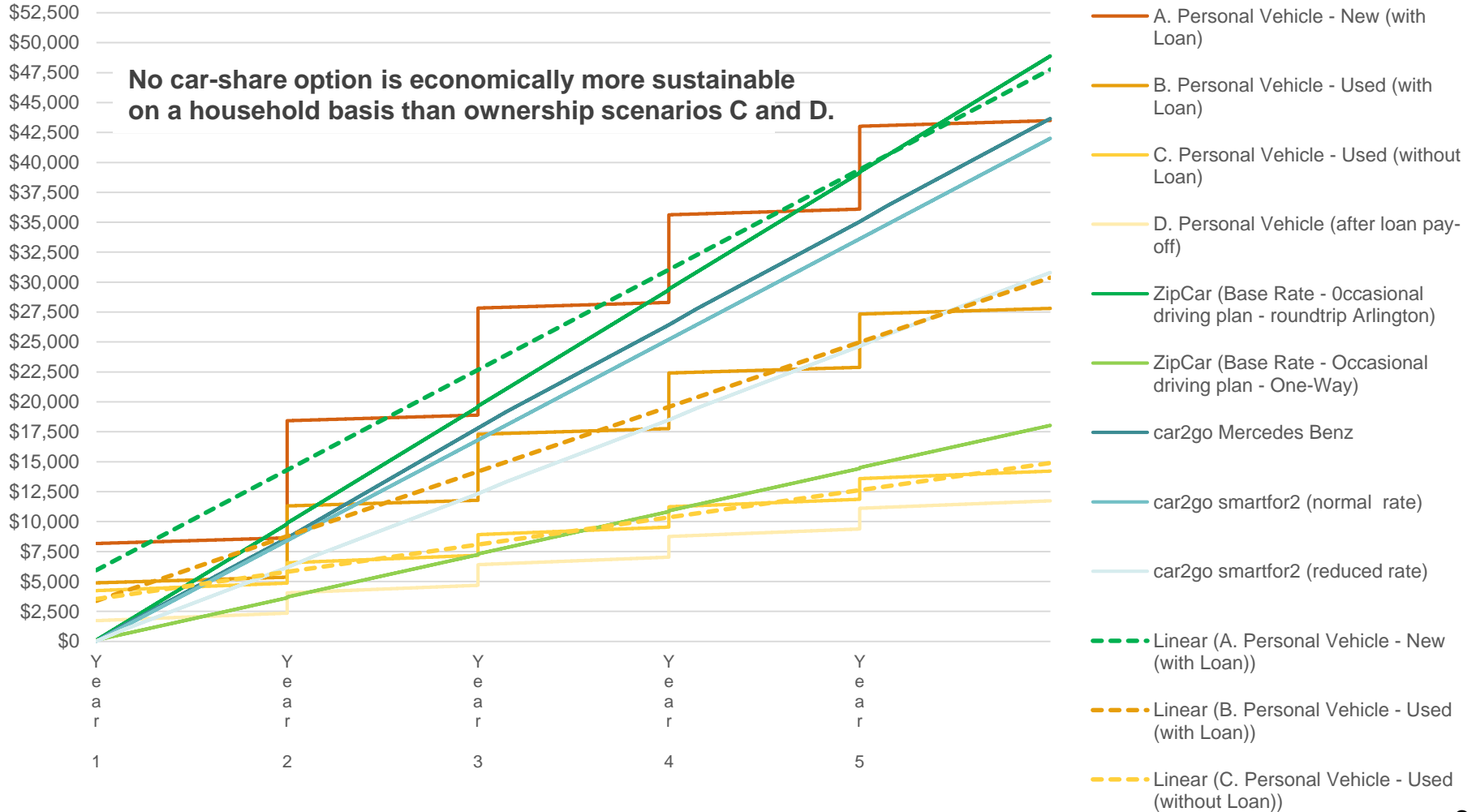
ZipCar vs. car2go



Car Ownership versus Car-Share over 5 years at 2,000 VMT annually (38.5 miles a week)



Car Ownership versus Car-Share over 5 years at 6,000 VMT annually (115 miles a week)



Summary:

In Arlington County:

- Up to 1,000 VMT annually (19 miles a week) all car-share options are economically more sustainable on a household level than private car-ownership (minimum savings over 5 year period ~ \$2500).
- Over 6,000 VMT annually (115 miles a week) private car-ownership is in most cases economically more sustainable on a household level than car-share.
- Car-share services are best used either as a regular first-last mile connector or for infrequent trip taking.
- Arlington families/residents owning more than one vehicle or individuals considering buying their first vehicle are most likely to realize considerable savings through using car-share instead.

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