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Financing Sustainable Transportation: Selected Case Studies from the Stuttgart and Northern Virginia Regions

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The case studies

financing approach / geographical scale	urban	corridor	regional
pure public		Stuttgart S-Bahn extensions	Verkehrsverbund Stuttgart (VVS)
leveraging (inviting private investment)	San Francisco Municipal Transportation Agency	Silver Line extension of Washington Metro to Dulles Airport	
public private partnership	Capital Bikeshare Stuttgart Call a Bike		car2go (Stuttgart eSmart fortwo)
pure private			car2go (DC Smart fortwo)



car2go

- ▶ Privately funded, flexible car sharing program
- ▶ Operating in both Stuttgart and Washington, DC
- ▶ In DC, car2go paid over \$750,000 in 2012 to allow its cars to park anywhere
- ▶ In Stuttgart, parking in the city center for the eSmart fortwo is free, as it is a zero-emission vehicle



S-Bahn extensions in Stuttgart

- There have been a few extensions of the Stuttgart S-Bahn (light rail) over the past decade
- The S-1 and S-4 lines have been extended, and the S-60 route was constructed
- These extensions are being funded with public money: Deutsche Bahn (€ xx), Baden-Württemberg(€ xx), Verband Region Stuttgart (€ xx), and localities (€ xx) are providing the funding



Capital Bikeshare

- A public-private partnership providing a large-scale bike sharing program to: Washington, DC; Arlington and Alexandria, VA; and Montgomery County, MD
- Initial capital costs have come mainly from federal grants; local public funding also helped launch the system
- Business partners have also contributed financially to the construction of some bike stations
- The bikes and stations are owned by the localities, but the system is operated by a private contractor
- In 2012, nearly 97% of the operating costs of the existing system were covered by membership fees and one-time rentals



The Silver Line

- Publicly-funded expansion of Washington, DC's Metrorail to the Dulles Airport
- A 23 mile extension of the Metrorail system with 11 new stations
- Funded with a combination of state (Virginia) and federal funding, as well as contributions from the two counties (Fairfax and Loudoun) where the extension is happening: current estimated costs of approximately \$6 billion
- Over half of the estimated costs will be recovered through an increased toll to the Dulles Toll Road, which runs parallel to the future Silver Line



San Francisco Municipal Transportation Agency

- ▶ Created in 1999, the SFMTA was designed to rationalize the transportation options of the city, placing all systems – bus, rail, taxi, traffic planning in one agency
- ▶ The charter gives the SFMTA a transit and non-automobile orientation, where general measures and funding are to be used to increase the non-automobile share
- ▶ Street parking and parking garage fees as well as the funds from parking tickets accrue to this account
- ▶ SF Park – real-time, dynamic pricing street parking pilot project



Stuttgart Call a Bike

- ▶ Call A Bike – Stuttgart is project of DB Rent
- ▶ It is a public-private partnership
- ▶ Call A Bike in Stuttgart offers both traditional and electric bikes
- ▶ There are over 400 bicycles on offer in Stuttgart