

# Clean Vehicles in Stockholm

Jonas Ericson  
Environment and Health  
Administration,  
City of Stockholm





# Stockholm

- Biogas
- Ethanol
- Electric Hybrid

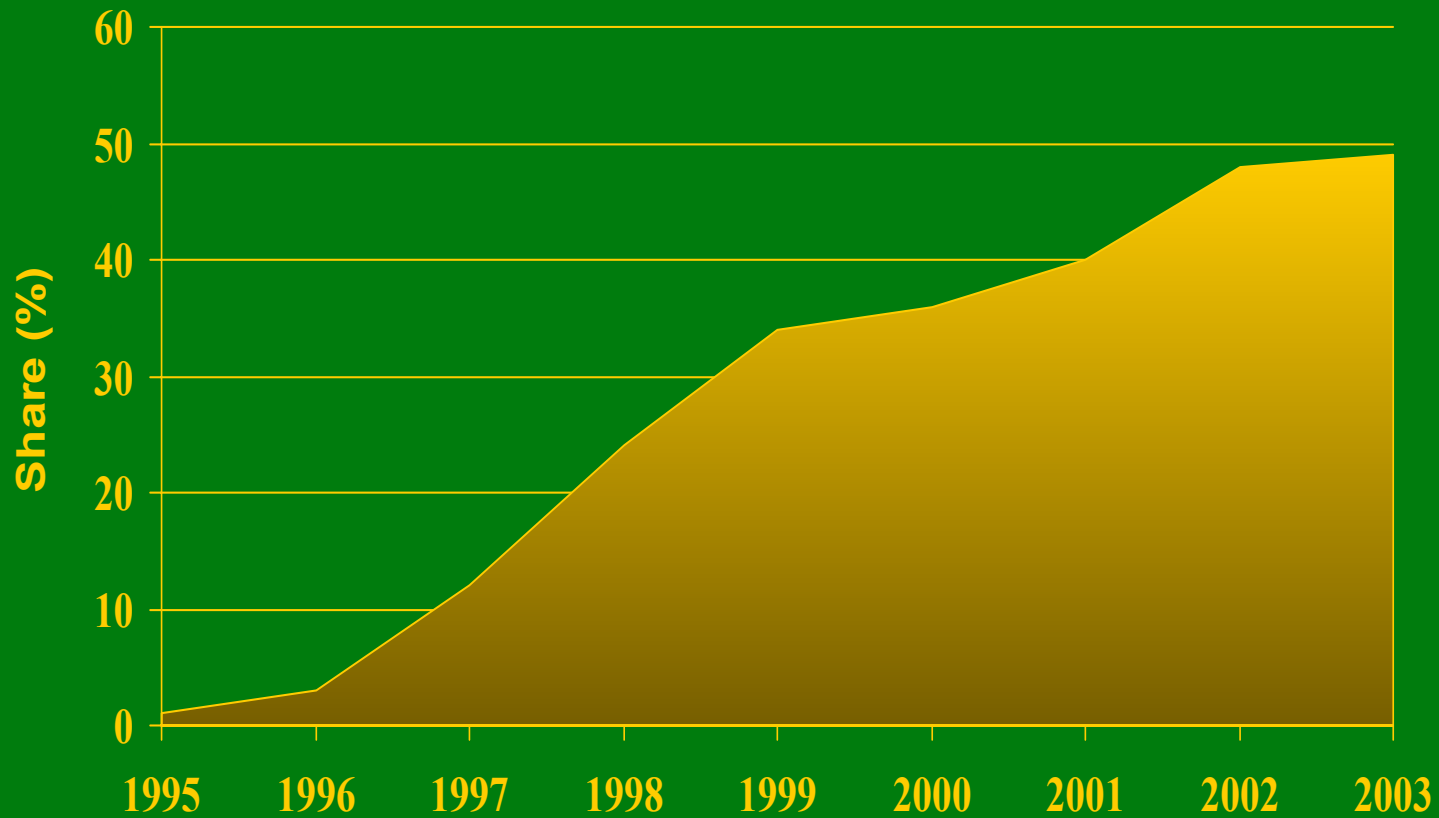
# Objectives for 2006

- ❑ AFV: 4 % of all new vehicles sold
- ❑ 60 % of city fleet AFVs
- ❑ AFVs fuelled to 80 % by AF

# Strategy

- 1 Public vehicles
- 2 Companies
- 3 Citizens

# Public vehicles





# Strategy

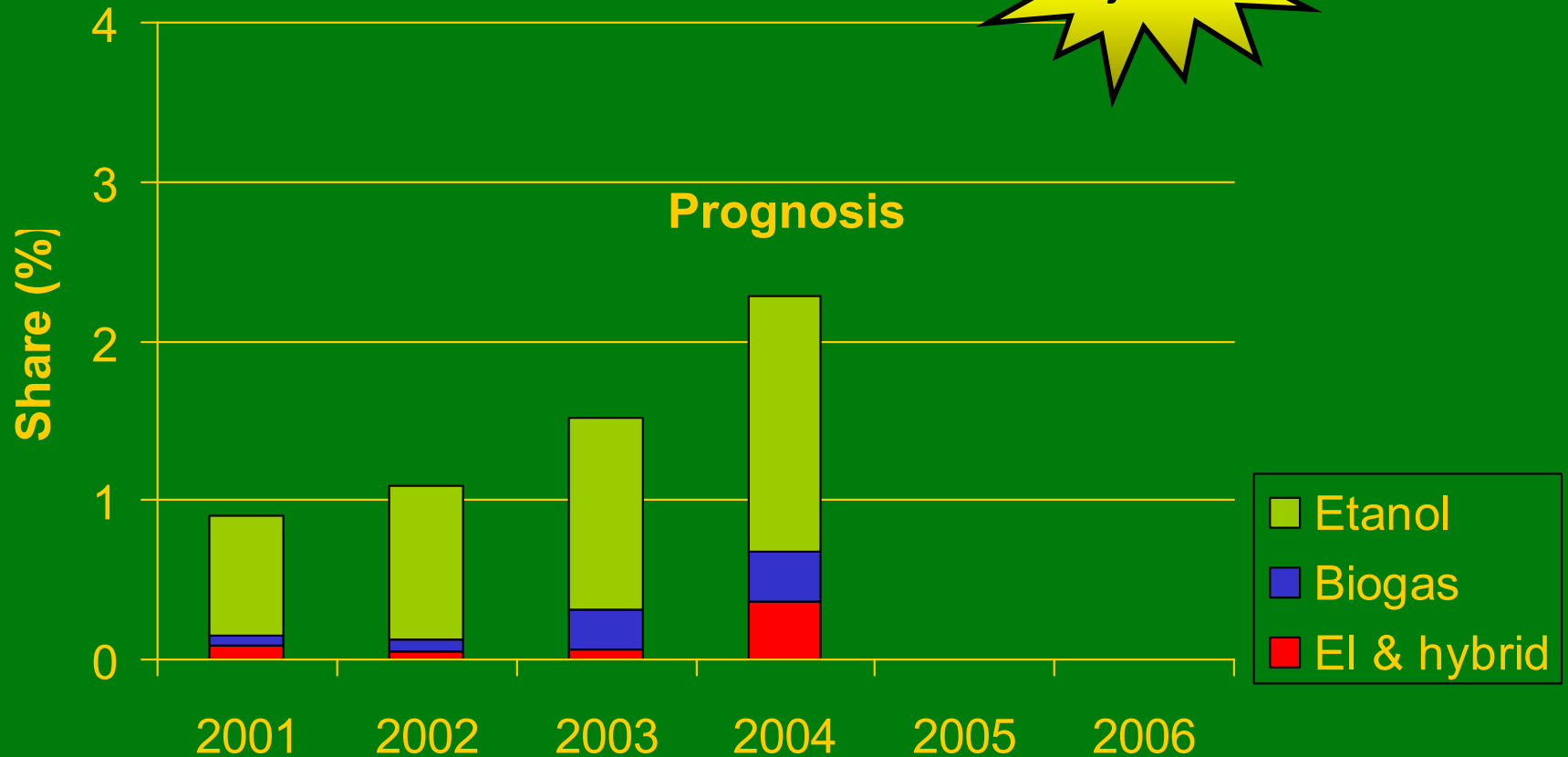
## Companies

- Taxis
- Delivery firms
- TV
- Newspapers

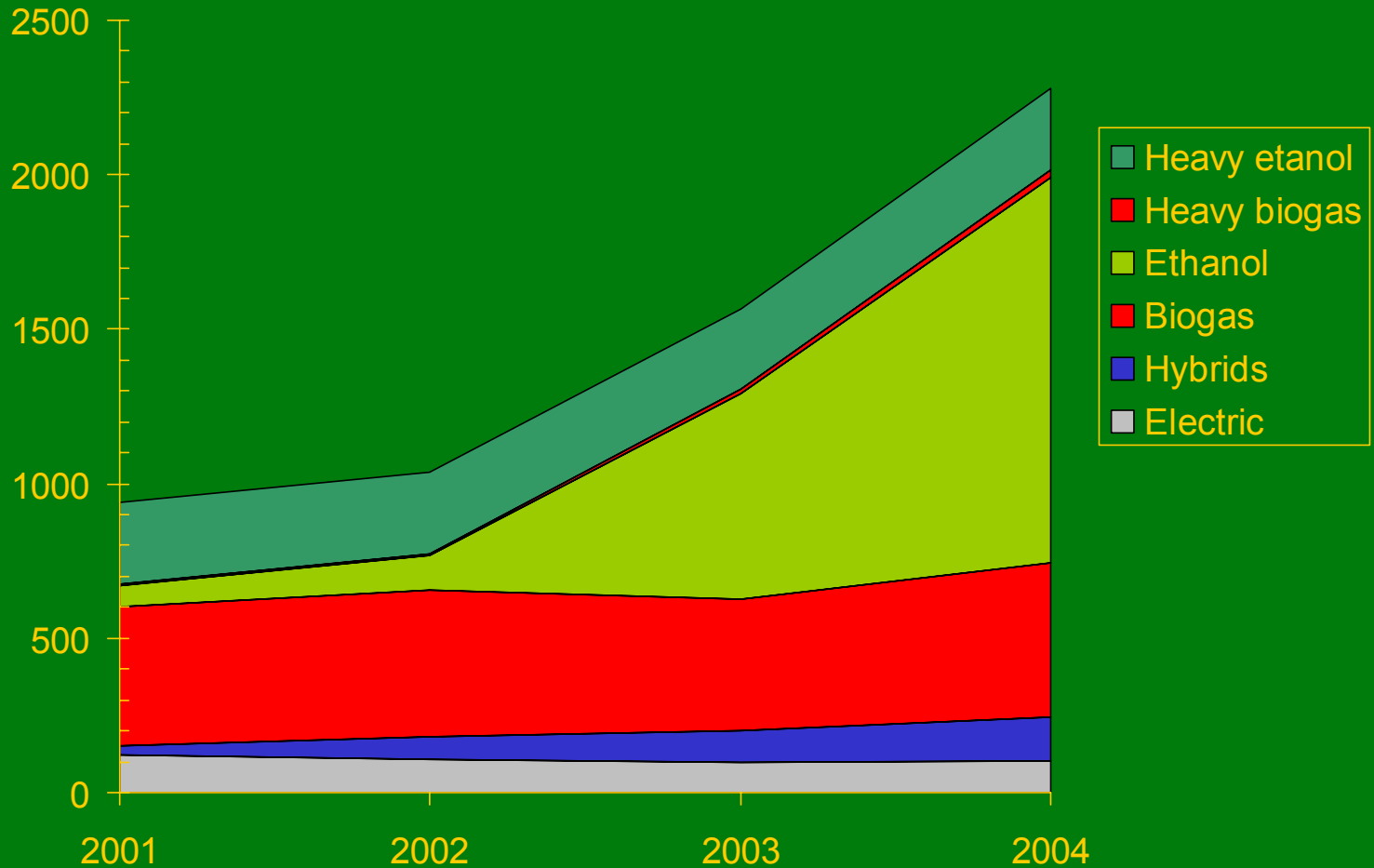


# Sold new AFV

Objective



# AFV in Stockholm Jan 2004





# The Tools

# Joint procurement

Reduced price:

500 \$ less than conventional car

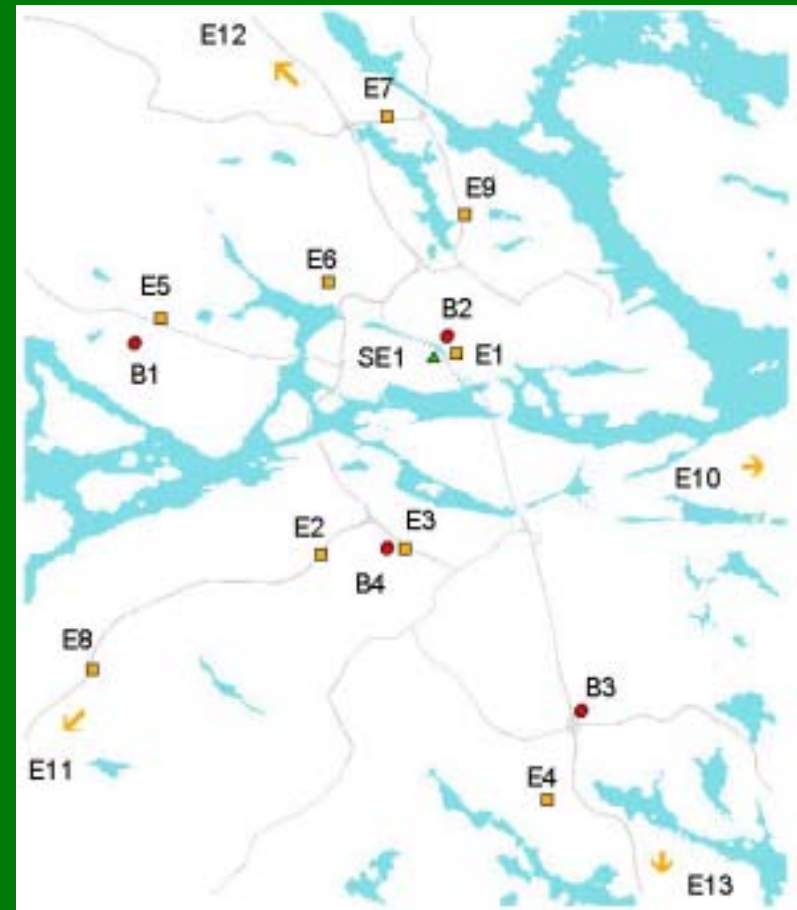


March 2002 - N° 75

March 2004 - N° 7

# Fuelling facilities

- Biogas : 8
- Ethanol : 17
- Fast charging : 6





# Incentives

- Free parking for AFVs
- No congestion charges
- AFV Taxi prioritised at airport/railway
- Test fleet for private companies

# AFV Test fleet



**Ford Focus Flexifuel**



**Toyota Prius**



**Opel Zafira Biogas**



**Volvo V70 Bi-Fuel Biogas**

# Incentives

- Fuel Tax discount
- Vehicle Tax discount
- Procurement of AFV transports
- Subsidies





**P** 15 min  
AFV only



# Future Incentives

- Clean vehicle lanes?
- **ALL** procured transports by AFV?
- Special designated parking spaces
- Access to restricted areas

# The nearest future

- At least one more Ethanol car model  
Volvo, Mercedes, SAAB, Audi, BMW...
- More Ethanol buses
- 1-2 transporter models



**Europe**

# Europe

- + Natural Gas, Biodiesel (and LPG)
- + Many cities starting up
- + Ambitious objectives  
20 % AFV 2020
- Market still scattered
- Common legislation (for incentives) missing

# The nearest future

- **Join buyers**
  - to create momentum
  - make all models available
- **Encourage incentives**
  - best practice
- **Change obsolete legislation**
- **Common definition**
  - incentives





# **Welcome to Clean Vehicles & Fuels 2004**

**International Symposium and  
Exhibition**

**Civitas Clean Vehicles City  
Network**

**2-5<sup>th</sup> June 2004, Stockholm**

**[www.cleanvehicles.net](http://www.cleanvehicles.net)**

**[www.miljobilar.stockholm.se](http://www.miljobilar.stockholm.se)**

**[www.trendsetter-europe.org](http://www.trendsetter-europe.org)**

# **WORLDWIDE NGV MARKETS ARE GROWING**

- **Europe 514,000 NGVs: 1550 fuel stations**
  - **Italy = 400,000+**  
**400+ fuelling stations**
  - **Germany, Italy, France**
  - **European Commission Transport Policy:**  
**target to replace 10% of transport sector**  
**petrol/diesel by 2020**