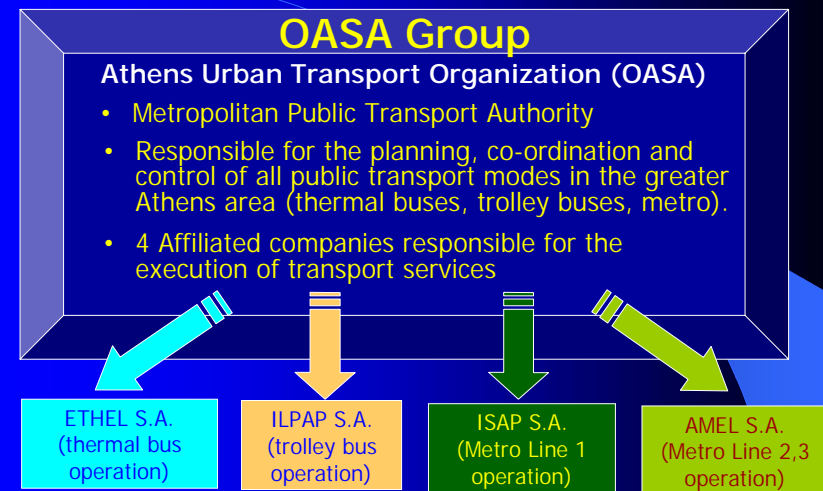


# UPGRADING THE ATHENS PUBLIC TRANSPORT 2004 AND BEYOND

*C. ANASTASOPOULOS M.Sc.  
Ass. Director Business Planning Dept. OASA*

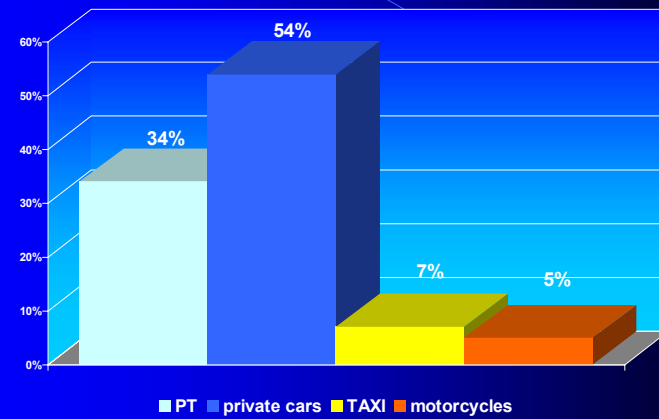


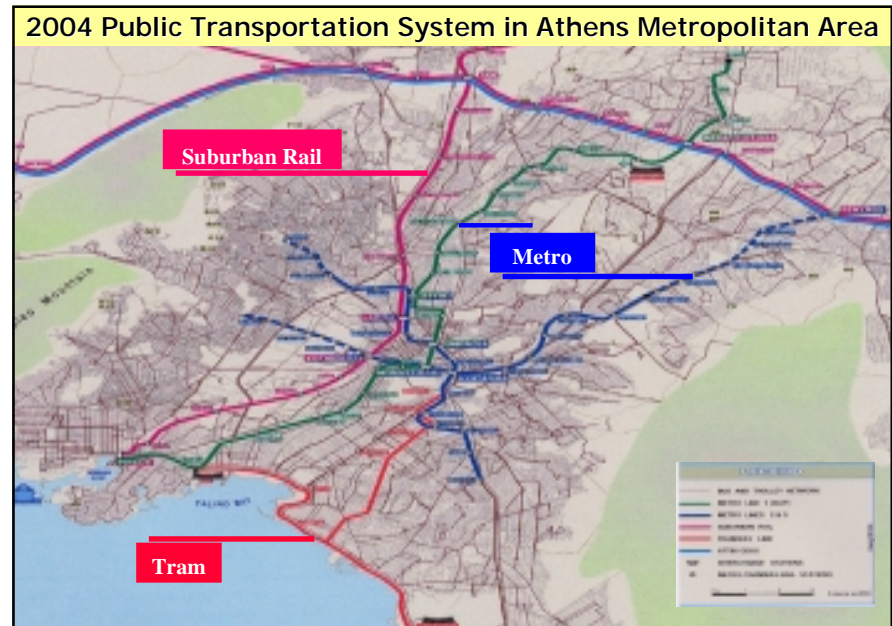
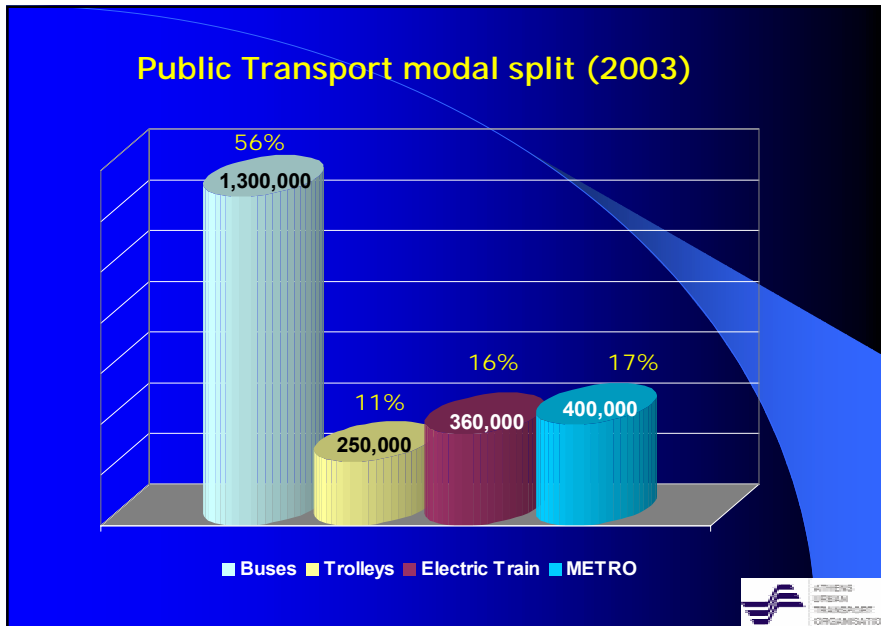
## Public Transportation trips

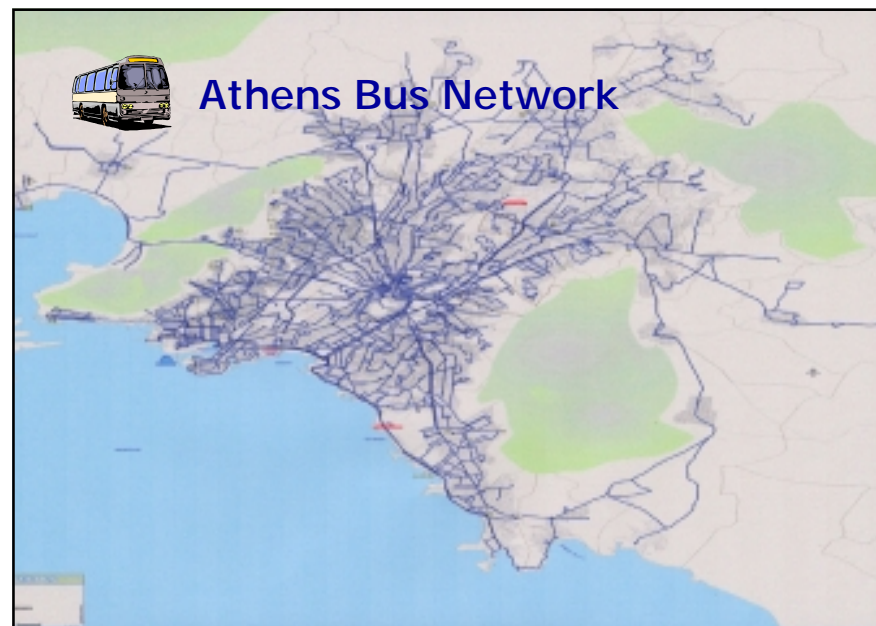
### PT trips evolution in Athens region



## Modal split in Athens Metropolitan area (2003)





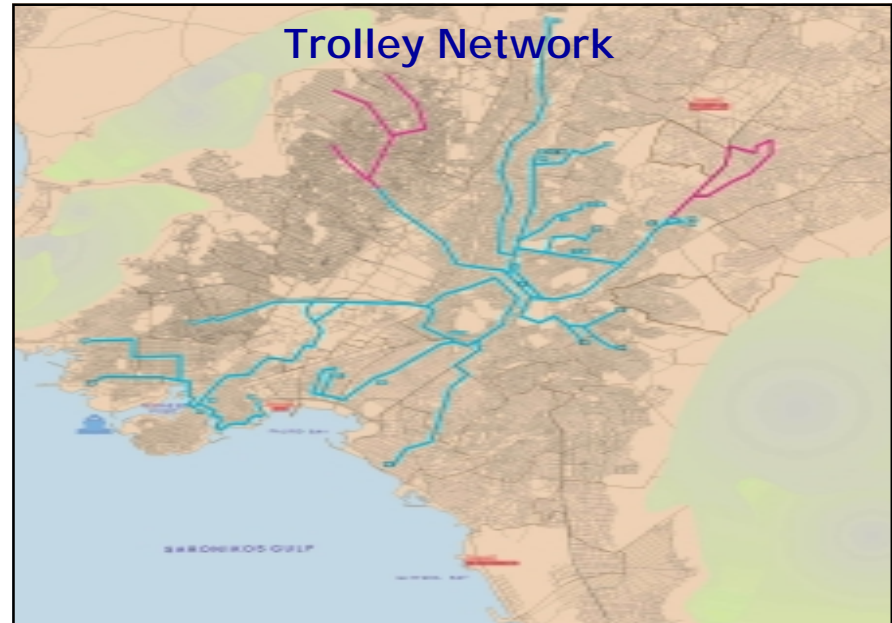




## Athens Bus Network

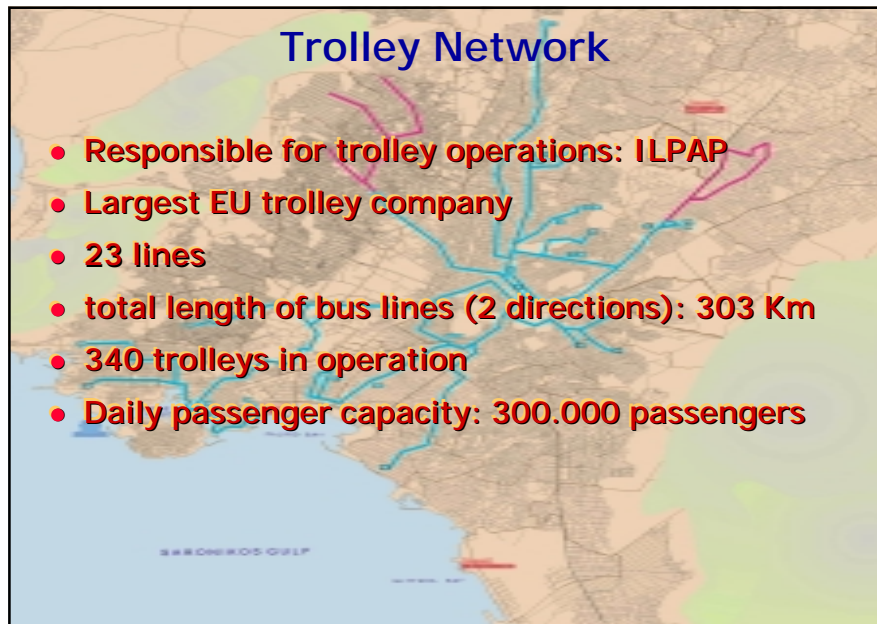
- Responsible for Bus Operations : ETHEL
- 300 Bus lines
- total length of bus lines (2 directions) : 5.933 Km
- 14.000 trips a day
- 1800 buses in daily operation (2003)
- Daily passenger traffic: 1.300.000 passengers

## Trolley Network




### Trolley Network

- Responsible for trolley operations: ILPAP
- Largest EU trolley company
- 23 lines
- total length of bus lines (2 directions): 303 Km
- 340 trolleys in operation
- Daily passenger capacity: 300.000 passengers



### Planned Bus Fleet in 2004

- The existing fleet will be expanded to:
  - 2100 buses vs. 1800 today
  - 364 trolley buses vs. 344 today
- Capacity with expanded fleet:
  - buses: 1.500.000 pass/day
  - trolleys: 350.000 pass/day
- Bus characteristics:
  - ◆ Anti-polluting technology - Environmental friendly
  - ◆ Accessible to handicapped people (kneeling, low floor, equipped with ramps)
  - ◆ Air-conditioned



## ILPAP Fleet renewal



- 50 Articulated hybrid trolleys
- 90 Hybrid trolleys



## Athens Metro Network



- 3 lines in total
  - Metro Line 1 : ISAP
  - Metro Lines 2 & 3 : AMEL
- Peak Hour Headway
  - 3,5min (ISAP)
  - 3min (Lines 2&3)
- Time of operation
  - 05:30 - 00:30
- Daily passenger traffic
  - 700.000 passengers in 2004 from 400.000 in 2003



## Metro line 1 Upgrade



### Project Objectives:

- Increase the transport capacity by 50% (from 17,000 to 26,000 passengers per hour and direction)
  - Increase and renewal of rolling stock (procurement of 20 new 6-car trains)
  - Traffic signaling system improvement
  - Track improvements
- Upgrade the Stations



## Stations Upgrade

- ✓ 2 stations have been renovated in 2001
- ✓ 15 stations will be ready by the end of 2003
- ✓ All (22) stations will be renovated by May 2004

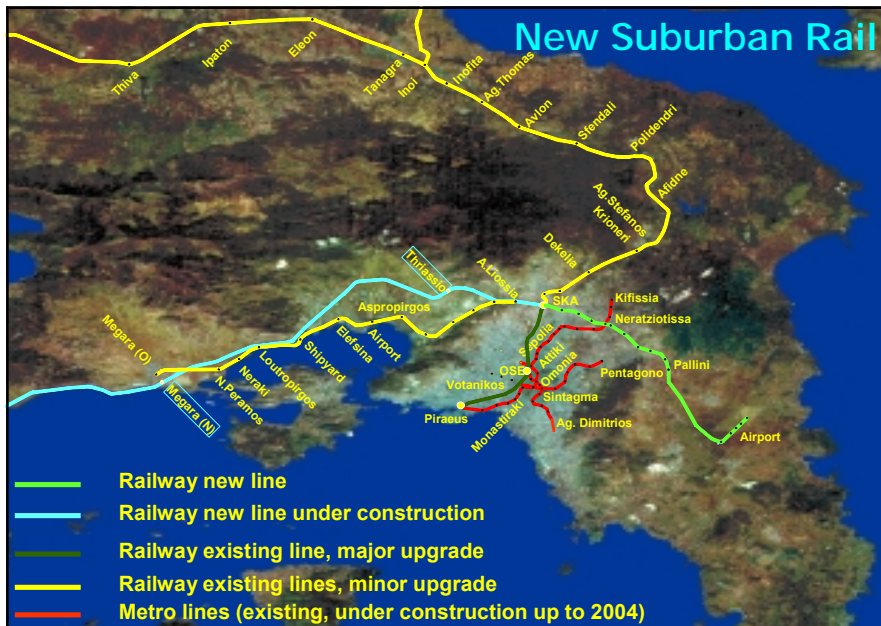


## New Tram Lines




Procurement of tram vehicles





## Suburban Rail Project data

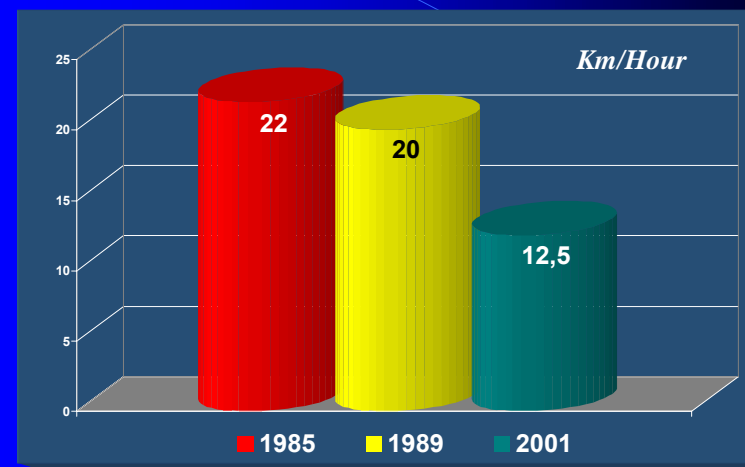
- new rail line with a route length of 40 km
- runs along Attiki Odos median lane (a newly constructed toll road)
- connects the city of Athens with the International Airport and the main port
- capacity: 5,000 persons per hour and direction

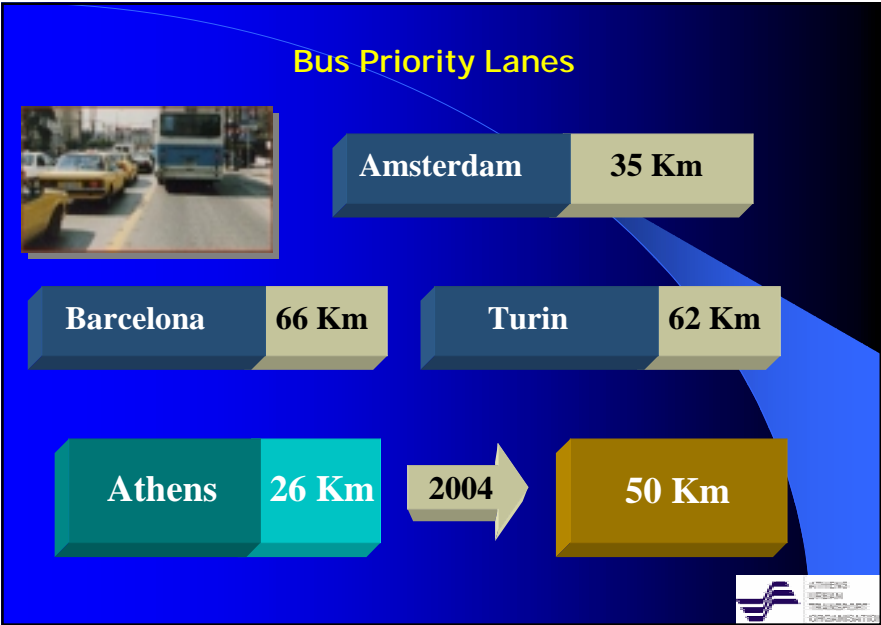
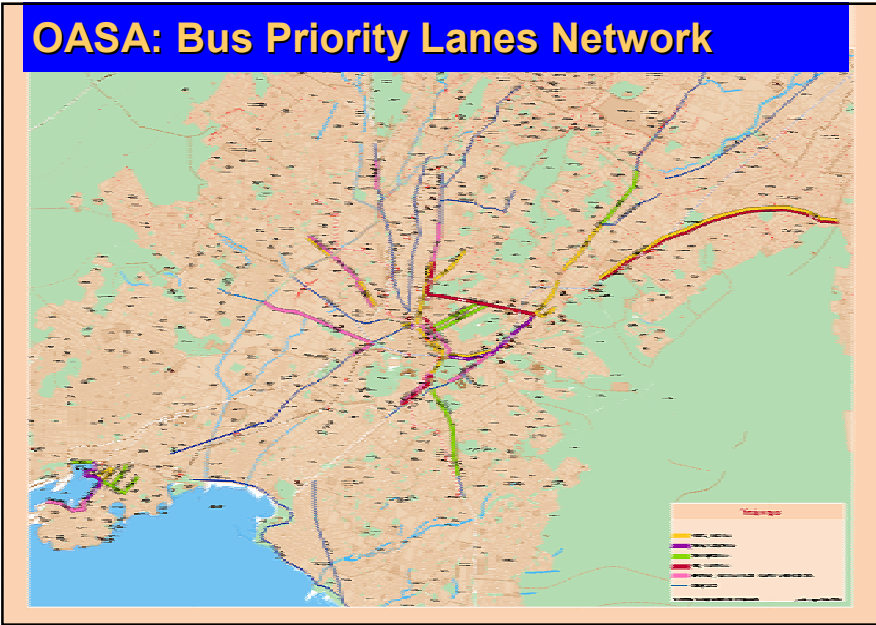


## Attiki Odos Median Lane



## Bus speed in Athens







### Projects funded by the 2nd Community Support Framework and National Funds



#### 2nd Community Support Framework

- Procurement of 295 CNG Buses (65 million €)
- Fleet Management System applied in 295 CNG buses & 190 trolleys (5 million €)

#### National Funds (383 million €)

- 750 New buses (2001)
- 120 wagons (2003)
- 224 trolleys (2001)



## New projects to be funded by the 3rd Community Support Framework

- Strategic Plan for the development of a Public Transportation System in Attika region (4,5 million €)
- Development and Implementation of Business Plans (3 million €)
- Construction of new depots (ETHEL, ILPAP) (60 million €)
- Fleet Renewal (600 new buses & 142 trolleys) (151 million €)

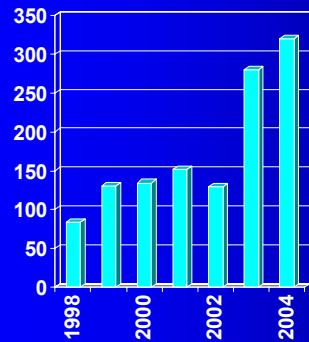


## New projects to be funded by the 3rd Community Support Framework

- ↓ Telematics Application program for ETHEL and ILPAP (25 million €)
  - Automatic Vehicle Location and Fleet Management System for buses and trolleys
  - Electronic Passenger Information Systems («Smart bus stops»)
- ↓ Automatic Fare Collection System (35 million €)



## PT Funding 1998-2004



YEAR	INVESTMENTS (million EURO)
1998	83,6
1999	130,6
2000	134,2
2001	151,9
2002	129,0
2003	280,0
2004	320,0

**TOTAL 1.229,3**



## Air Pollution in Athens

### Road Traffic Contribution

**CO: 99%**

**VOC: 74%**

**NOx: 65%**



## The Effects of PT Policy to the Air Quality by 2010

- ... after the completion of the new PT system
- ... keeping car mileage in 2003 levels
- ... and enforcing Vehicle Emissions Control



then by 2010 compared to 1990 we expect

**50% reduction in CO emissions**

**30% reduction in VOC emissions**

**19% reduction in NOx emissions**



we are looking forward to see  
you in Athens for the  
2004 Olympic Games

Thank you for Listening !

