

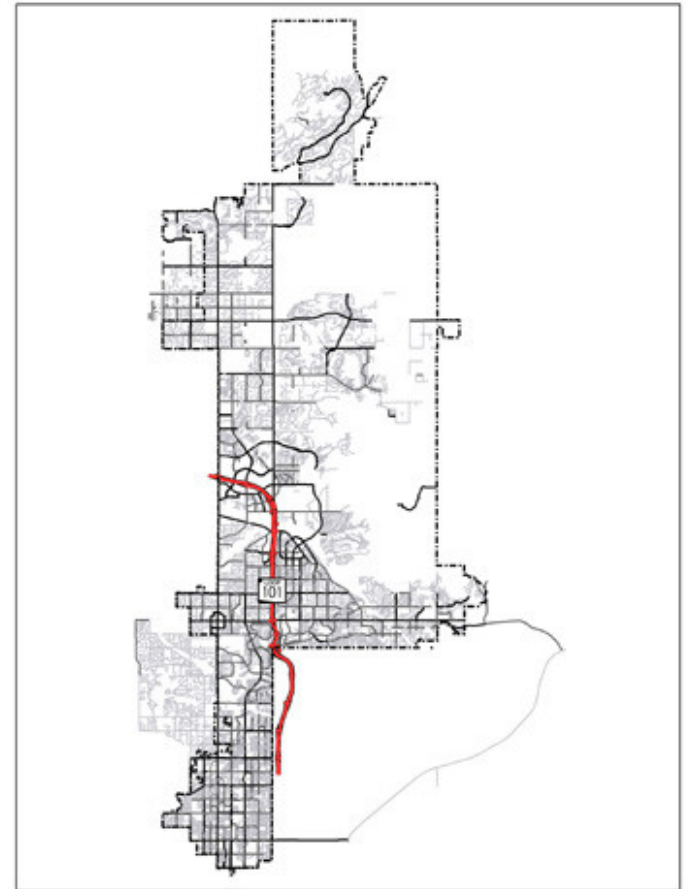
A decorative graphic on the left side of the slide, consisting of a black crosshair with a blue square in the top-left quadrant, a red square in the bottom-left quadrant, and a yellow square in the bottom-right quadrant.

# Welcome from the City of Scottsdale

Ed Gawf, Deputy City Manager  
City of Scottsdale, AZ  
August 12, 2003, AASHTO Conf.

# Welcome to Scottsdale, AZ

- Winfield Scott, 1891
- Incorporated in 1951
  - Approx. 1 sq. mile
  - population 2,000
- Today
  - Resort and employment oriented, Arts, Recreation, Fine Food, Jobs and Rubberized Asphalt!
  - 184 sq. miles, 2 miles wide and 31 miles north to south
  - population 222,000+





# Long Term Issues

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- Preserve Acquisitions and Defining the Community
- Economic Vitality
  - City moves from a Growth Based Economy
- Quality of new development – public and private
- Traffic Movement and Congestion
- Revitalization of the southern part of the community

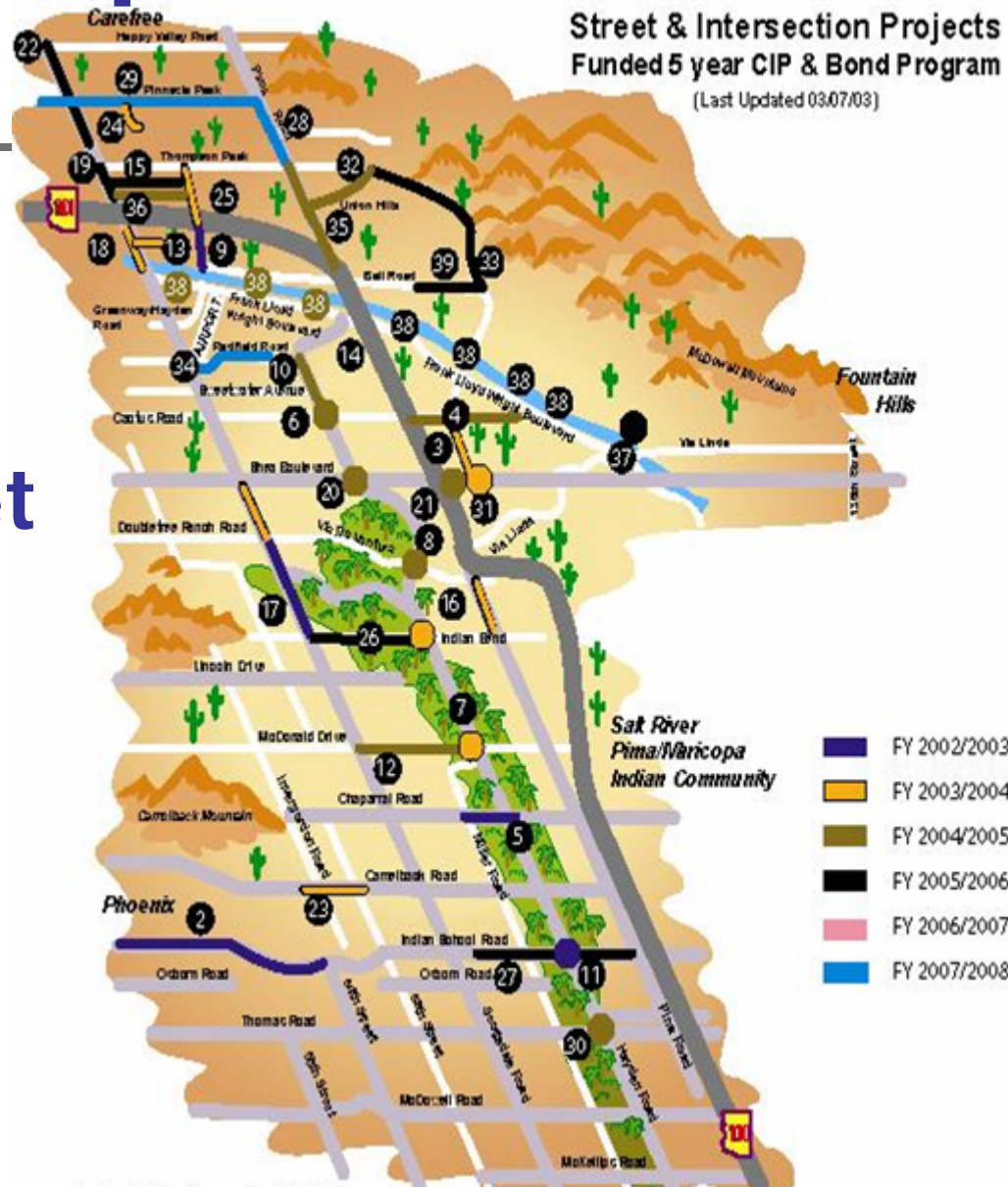
# City of Scottsdale Organization

- Mayor/6 Councilmembers
- City Manager, Deputy City Manager, 2 Asst. City Managers
- Municipal operations:
  - 10 departments, 60 divisions, 124 facilities
  - 2,200 FTE staff
- Transportation Dept.
  - Rubberized Asphalt
  - ITS
  - Aggressive CIP



# Transportation Planning

CIP Budget  
\$209M





**January, 2002** former EPA Administrator  
Christine Todd Whitman honors Scottsdale



Larry D. Person, Sr. Environmental Coordinator

## **1996-98 – 1<sup>st</sup> EPA EMS Pilot Project for Public Sector Organizations**

- only municipality west of Mississippi River

## **■ Dec. 13, 2000 – EPA National Environmental Performance Track**

- 225 Charter Members
- ONLY municipality in the nation
- 1 of only 2 Arizona entities

# Scottsdale EMS International



- Web site

[www.ScottsdaleAZ.gov/ecosystem/](http://www.ScottsdaleAZ.gov/ecosystem/)

- 2001 -- Japanese Prefecture Visit
- 2001 -- Environment Canada
  - Europe, Africa, Asia, So. Am.
- 2001 -- Industry Canada
- 2002 – Egypt Delegation Visit, State Dept.
- 2003 – EPA Performance Track site visit



# Scottsdale's EMS



- Management Phase of the EMS
- Extensive Use of Technology
- Walk Through Internal Audits
- Access to Environmental Regulations
- Software Training
- Management Oversight by EMS CTF
- Environmental Office Consulting
- Broad Staff Involvement



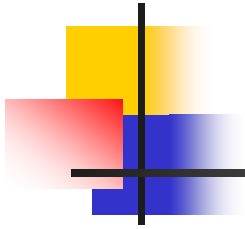
# Management Support

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**"This is what local government ought to be about: benchmark against the highest international standards for environmental performance, institutionalize continuous environmental improvement, and then document, track and report to our citizens meaningful and measurable indicators of performance and progress toward stated environmental goals."**

**Jan Dolan, Scottsdale City Manager**

# EMS Tools



- Environmental Regulatory Guidebook
- Departmental Audit Checklists
- EMS Software – ISOsoft by Intellex

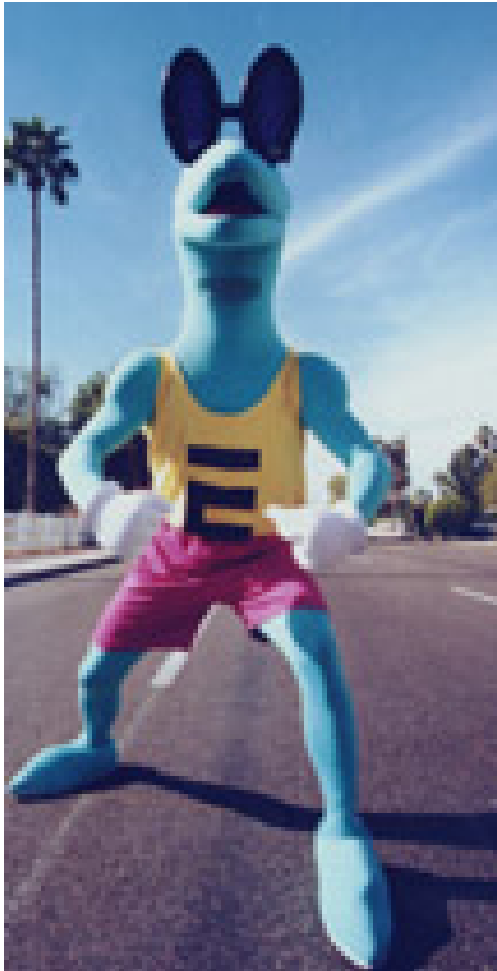
# Environmental Policy



The City of Scottsdale is committed to continuously improve citywide environmental management practices and to become a model of environmental performance. The City empowers each individual employee to proactively promote environmental leadership through the following four environmental stewardship principles:

- **Conservation**
- **Co-operation**
- **Environmental Compliance/Risk Reduction**
- **Restoration**

# Communications



*Eco Gecko*

**APRIL**  
Stewardship

**MAY**  
Energy

**JUNE**  
Shopping Green

**JULY**  
Composting

**AUGUST**  
Restoration

**SEPTEMBER**  
Pollution Prevention

**OCTOBER**  
Water

**NOVEMBER**  
Recycle

**DECEMBER**  
Air Quality

**JANUARY**  
Health & Safety

**FEBRUARY**  
Preservation

**MARCH**  
Sustainability

**Scottsdale's Environmental Year**

# Sustainability Indicators

## 1999 – 2003 Reports

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- 13 Environmental Indicators
- 7 Economic Indicators
- 14 Community Indicators

# Balancing Stakeholder Input Resulting Programs



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- Solid Waste Programs -- Recycling
- Green Building Program
  - Westworld Facilities Master Plan – Leeds
  - Residential Remodeling Guidelines
  - Sensitive Facilities Design Guidelines
- Water Resources Facilities & Programs
- Environmental Procurement Policy
- Regional Air Quality Plan Commitments



# Green Building Program

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**SCOTTSDALE**



**GREEN BUILDING  
P R O G R A M**

The Green Building Program encourages a whole-systems approach through design and building techniques to minimize environmental impact and reduce the energy consumption of buildings while contributing to the health of its occupants.

**Scottsdale Green Building Office  
7447 E. Indian School Rd., Ste. 100  
Telephone 480-312-4202**

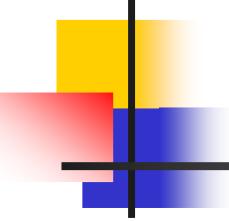


# TRANSPORTATION DEPARTMENT

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## EMS Environmental Management Plan

- Transportation Dept. EMPs
  - Biodiesel in seven new downtown trolleys
  - ITS evaluation shows reduced delay time
  - Traffic Management Center adjusts flows real-time
  - Focus on Pedestrian Oriented, Mixed-use Development



**TRANSPORTATION  
DEPARTMENT**

# **EMS Environmental Management Plan**

- **Energy Conservation EMP**
  - **Traffic and Walk Signal Conversion to LED**
  - **Savings = \$628,000 to date (plus maintenance savings)**



# Energy Savings

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- **Green Lights Program**
  - 1.5 million square feet lighting retrofitted
  - Annual energy savings = \$123,043
  - Pollution avoided = >3 million lbs./yr.

# Performance Track Commitments

**2<sup>nd</sup> year achievements (3 yr. cycle)**

**– all 4 goals surpassed!**

- Energy Use – HVAC Kwh reductions
- Preservation – acres of wildlife habitat preserved
- Total Solid Waste – tons compost green waste
- Air Emissions – VOC reductions from CNG in fleet vehicles

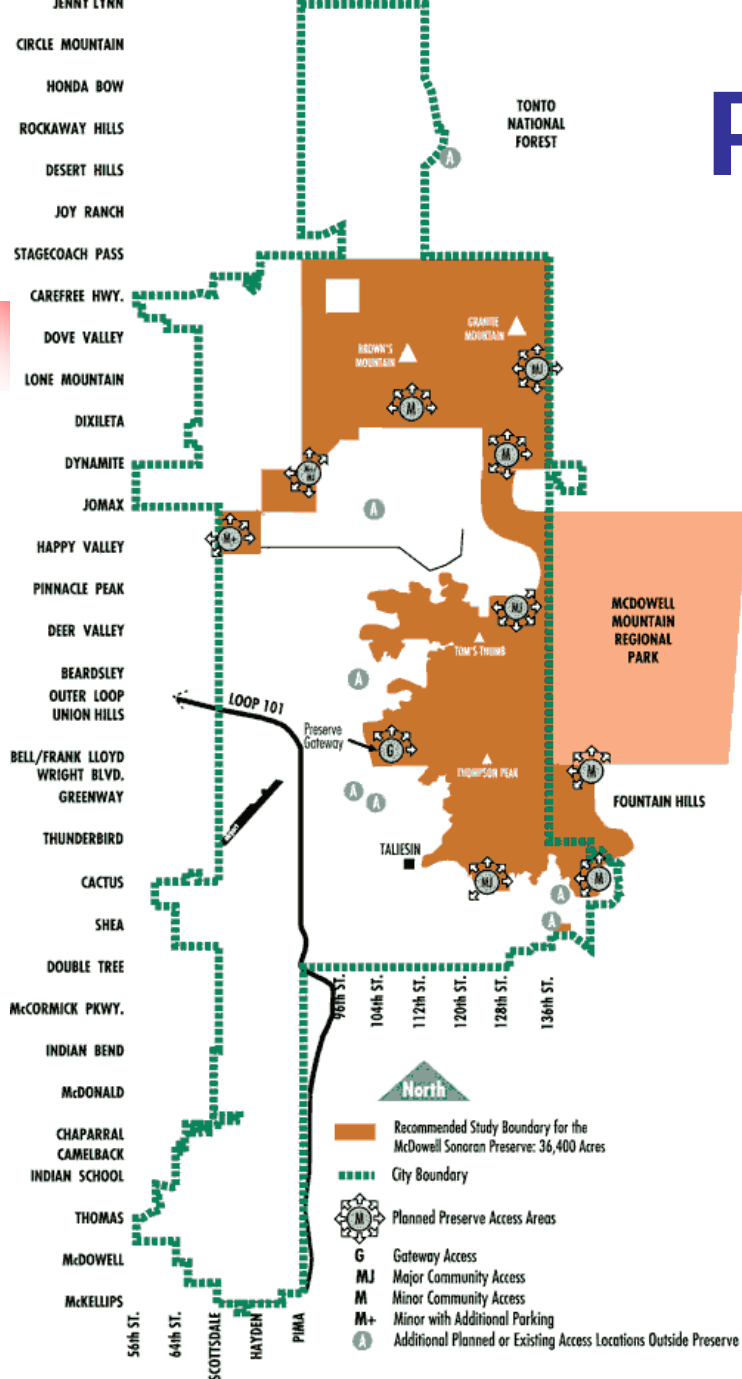


# **P-track Goal #1: Energy Use Reduction**

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- **GOAL = 219,250 Kwh reduced use**
- **PERFORMANCE: > 350,000 Kwh reduced**  
(first two years)
- **HVAC Replacement/Maintenance Program**
  - 94 Heat Pumps, 14 Coolers and a Chiller/3 buildings
  - First year savings = 176,012 Kwh
  - Second year savings = >176,012 Kwh
  - Energy savings = 65% for some equipment

# P-track Goal #2: Preservation



- **GOAL = + 2,500 acres**

- **PERFORMANCE: 3,439**

McDowell-Sonoran Preserve

- **City's Goal = 36,400 acres**

- **1/3 Total Land Mass of Scottsdale**

- **Larger than the City of San Francisco**

- **Currently = 15,714 acres**

- **State Land = 16,100 acres**

- **Tax Collections \$107.6 million**

- **Acquisition Costs \$247 million**



# P-track Goal #3: Solid Waste Reduction

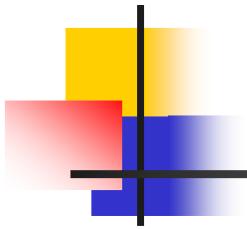
## Green Waste Diversion Program

- **GOAL = 675 tons diverted**
- **PERFORMANCE: 6,819 tons diverted**

### Totals since inception

|                 |   |                |
|-----------------|---|----------------|
| Non Green Waste | - | 7,790.39 tons  |
| Green Waste     | - | 9,479.38 tons  |
| Combined        | - | 17,269.77 tons |
| GW reject       | - | 2,659.99 tons  |
| Clean Waste     | - | 6,819.39 tons  |

(39.5 % diversion rate)



**TRANSPORTATION  
DEPARTMENT**

## **P-track Goal #4: VOC Emissions Reduction**

- **GOAL = 3,525 lbs.**
- **PERFORMANCE: ~22,000 lbs.**

**Alternative Fuel = CNG**

- **142 City Fleet Vehicles, = increase of 6 vehicles**
- **"First Fuels" Policy**