

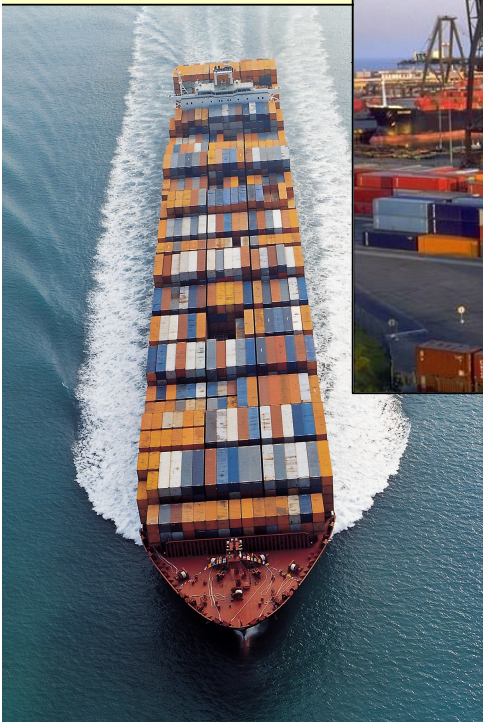
Smart Growth Compatibility with Goods Movement and Environmental Justice

Shankar B. Prasad, M.B.B.S
Executive Fellow
Coalition for Clean Air

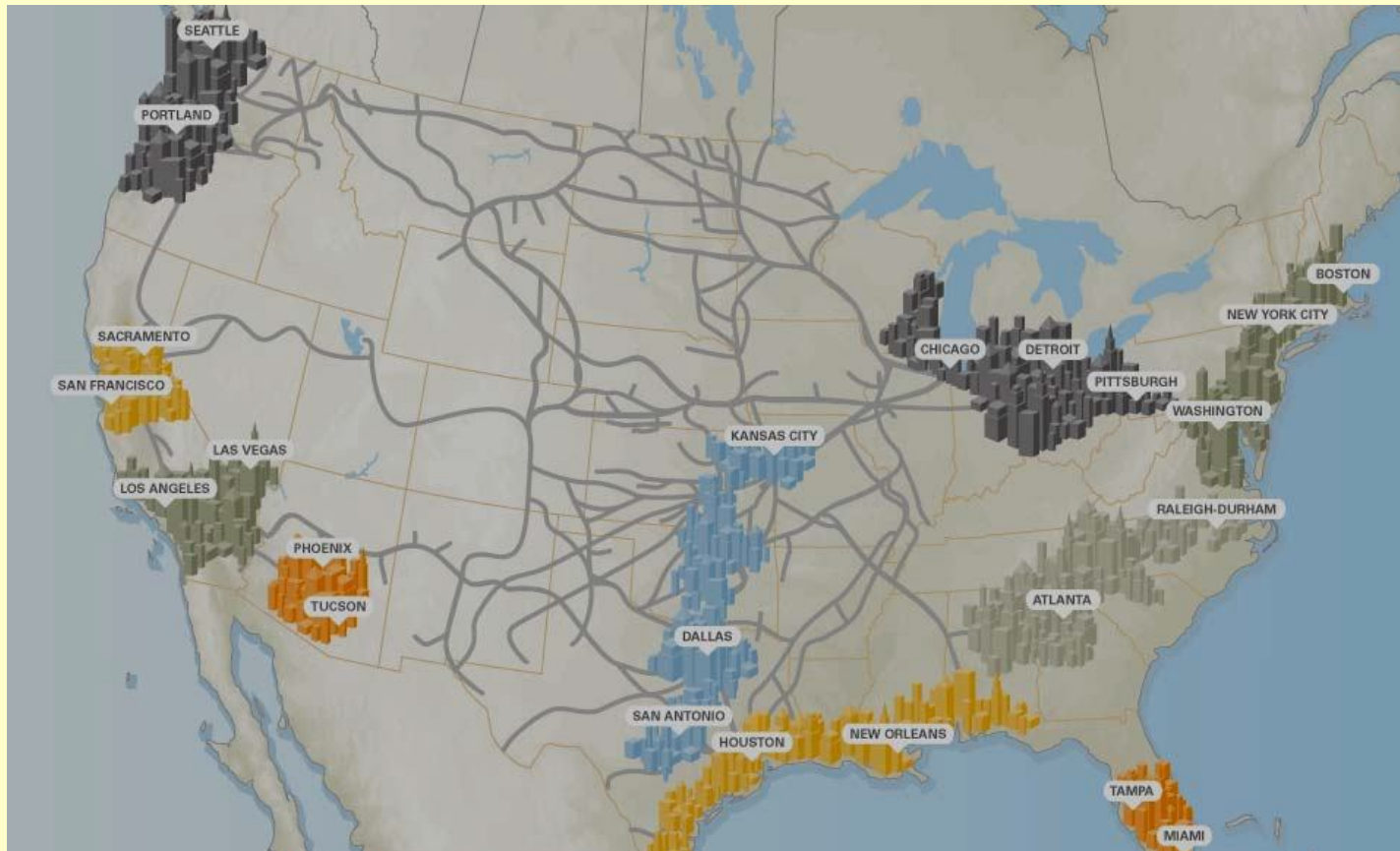
NEJAC's Definition of GM

“.. distribution of freight by all modes of transportation including marine, air, rail, and truck. GM facilities include seaports, airports, and land ports of entry (border crossings), rail yards and rail lines, highways and high truck traffic roads, and warehouse and distribution centers..”

International Cargo ↑ 2-3X by 2020



Projected Growth Areas



Growth in U.S. Ports

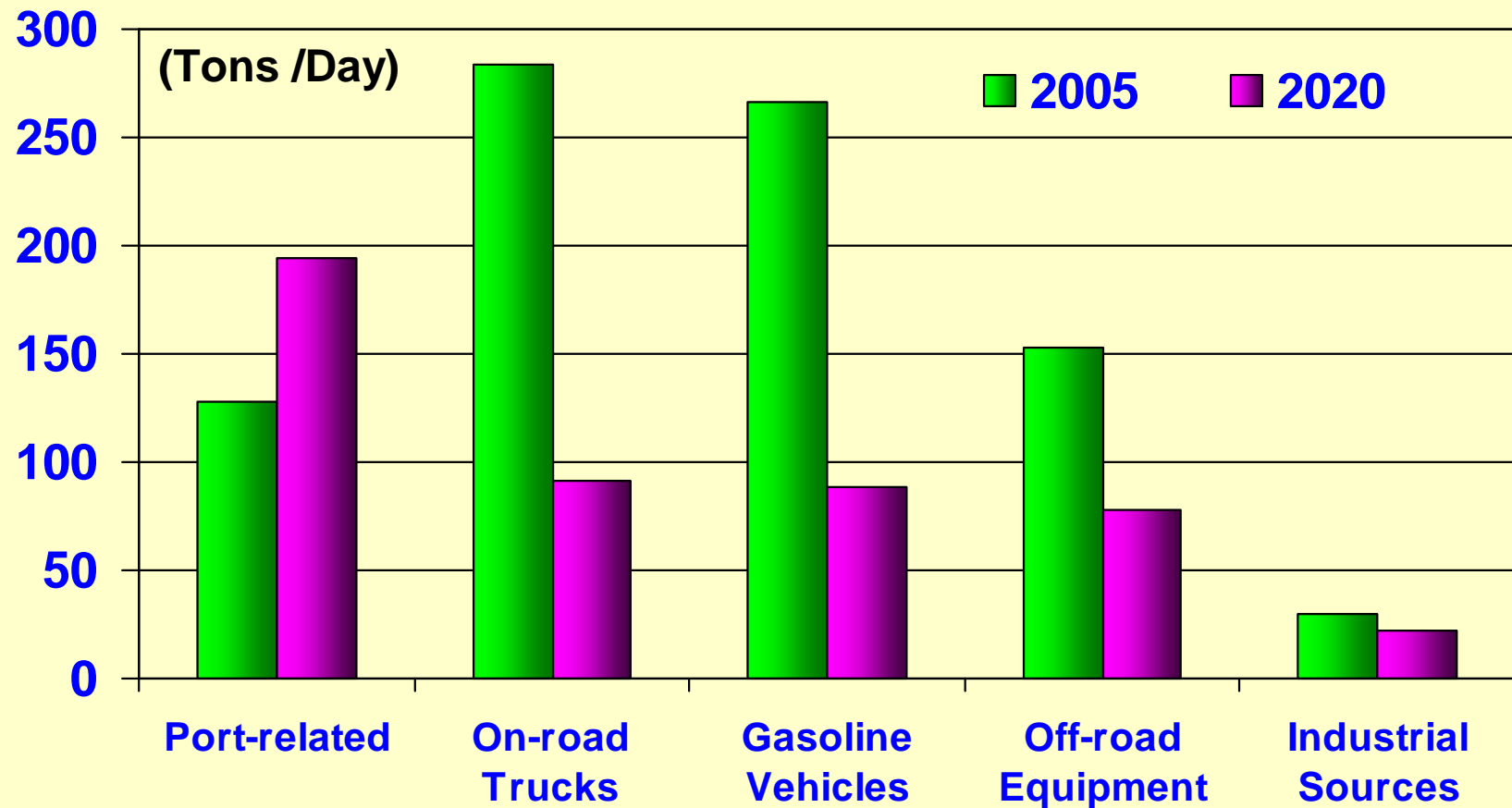


- Almost all the U.S. ports are planning expansions to accommodate more imports
- California ports vital to Pacific Rim freight traffic
 - e.g. Los Angeles and Long Beach port complex
 - ◆ likely to increase throughput 2-3 times by 2020

Port expansion (Los Angeles) - TEUs

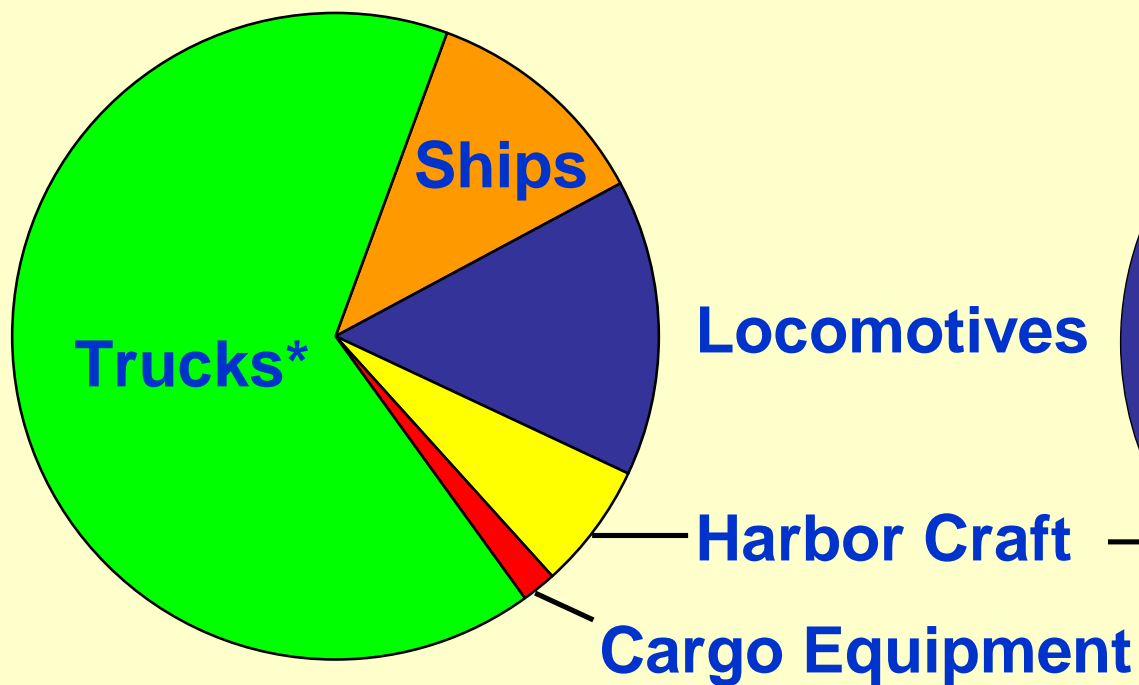
Year	In-bound	Out-bound
2000	2.6 M	2.2 M
2010	4.0 M	3.7 M

Increasing Port-Related NOx Emissions (South Coast Air Basin, 2005 & 2020)



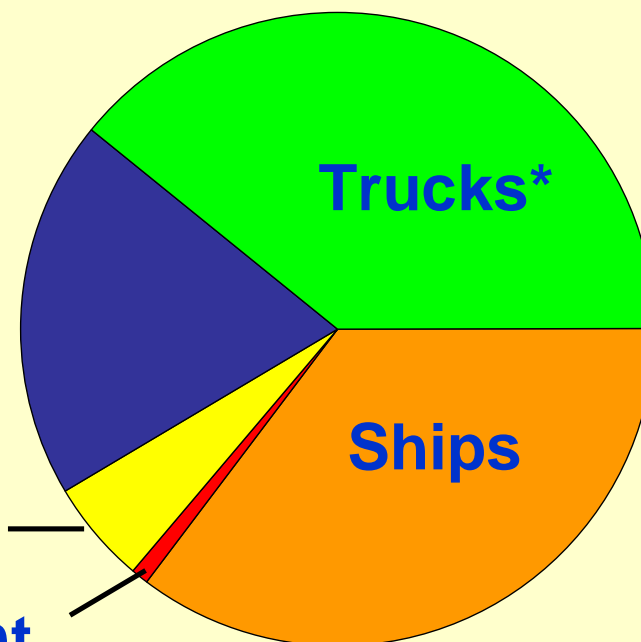
NOx from Goods Movement (without new strategies)

2005



1,080 tons/day

2020



720 tons/day

** Includes TRUs*

2005 Health Impacts from Goods Movement

	<u>Cases/Year</u>
Premature death*	2,400
Hospital admissions (heart)	830
Hospital admissions (lung)	2,000
Acute bronchitis	5,100
Asthma/other respiratory	62,000
Absences/restricted days	4.4 million

****Uncertainty range is 720 to 4,100 deaths/year***

Ports—Increased Cancer Risk

Ports of Los Angeles & Long Beach*

Year 2002



Lifetime Risk
(chances/million)

People
impacted

>500

50,000

>200

400,000

>100

1 million

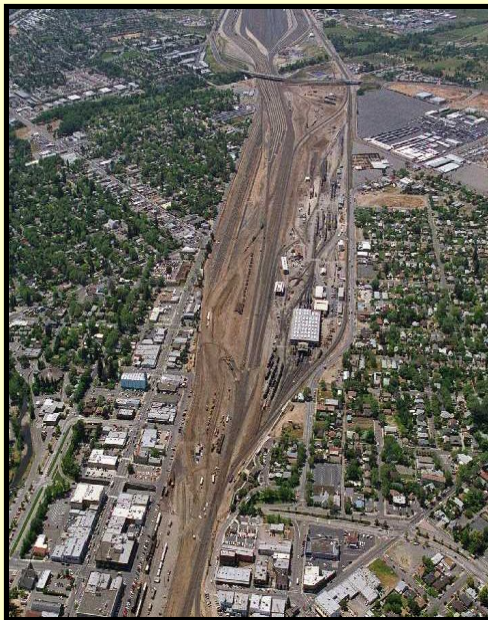
>10

>2 million

***2005 ARB Study**

Rail Yards—Increased Cancer Risk

Roseville Rail Yard*



Year 2000

Lifetime Risk
(chances/million)

People
impacted

100-500

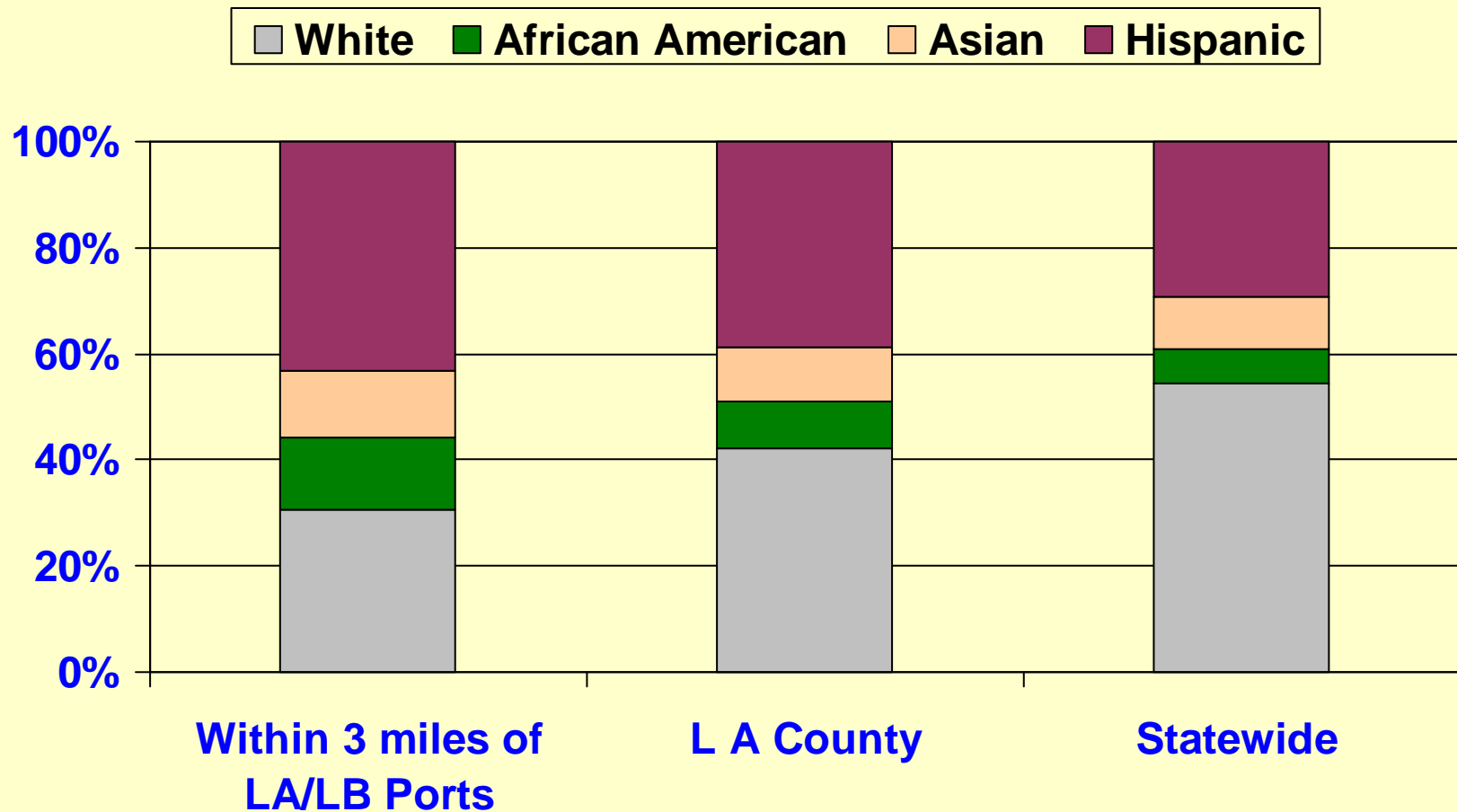
20,000

10-100

150,000

****2004 ARB Study***

Ethnicity Distribution



BNSF Railroad plans at Gardner, Kansas

**RR main line from California to Chicago goes
through Gardner**

■ Plans:

- ◆ **New intermodal facility (300 acres)**
- ◆ **New distribution center facility (1000 acres)**
- ◆ **2000 additional truck trips a day at start**
- ◆ **5000 additional truck trips a day at “build-out”**
- ◆ **Little discussion of diesel health effects at public meetings in Gardiner**

Key Recommendations of NEJAC

- Communities' capacity and effectiveness to engage & influence decision making
- Identify and prioritize areas/communities maximally exposed or likely to be impacted
- Guidance on land- use decisions to separate sensitive receptors and sources
- Incentives, Funding mechanisms, Regulatory actions, and research

Importance of Land-Use photos by Andrea Hricko, USC









Truck on 710 Freeway







Take Home Message

- Land- use decisions are critical
- Internalize cost of mitigation to all projects
- Technology cannot solve all problems
- Incentives / Regulation – area specific
- New funding mechanisms
- Political will
- Public participation