### 1.201J/11.545J, ESD.210J Introduction to Transportation Systems Fall 2006

#### **LECTURES 2, 3, & 4**

**DISPLAYS** 

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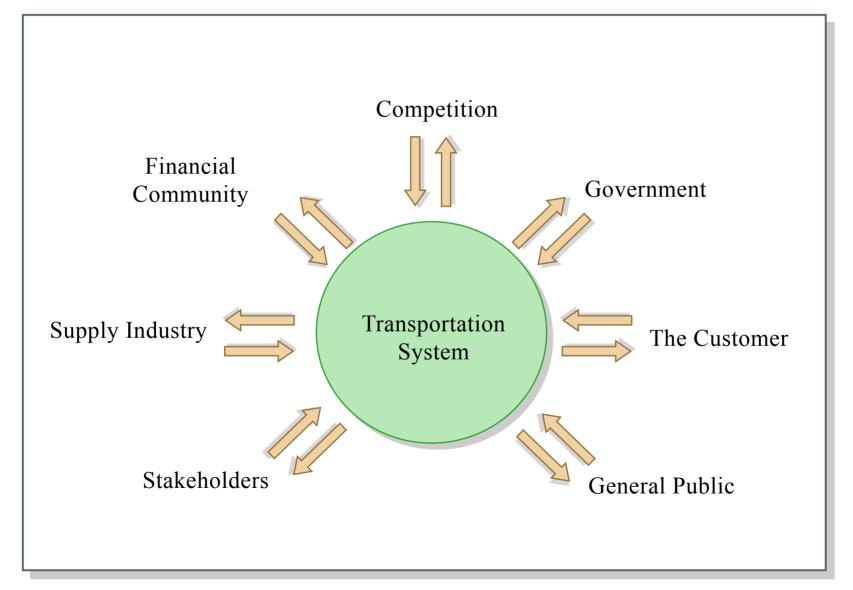
September 12, 14, & 19, 2006

Part II

# TRANSPORTATION SYSTEMS COMPONENTS:

# AN EXTERNAL PERSPECTIVE

## EXTERNAL COMPONENTS OF THE TRANSPORTATION SYSTEM



#### **GOVERNMENT**

- ◆ Taxes
- Safety regulation
- User Fees
- Financial Regulation
- Entry and Exit from Market
- Monopolies
- Provider of infrastructure
- Provider of funding

#### THE COMPETITION

- ◆ Intra-modal (e.g., other airlines)
- ◆ Inter-modal (rail vs. truck)
- For the consumer's money
  - ◆ Buy a house or take a vacation
- Transportation/Communication System Competition

### COMMON ERROR: VIEWING THE COMPETITION AS STATIC

#### FINANCIAL COMMUNITY

#### Provider of:

- Equity
- Debt

#### Also concerned with oversight:

- ◆ Who is on your board?
- Why are you missing your financial targets?

#### SUPPLY INDUSTRY

- Vehicle Providers (and their importance in the global economy) -- automobiles, airplanes
- Infrastructure Builders
  - ◆ Low-tech
  - ◆ High-tech
- Components
  - ◆ Electronics
  - Materials
- Research Community
- Insurance Industry

#### **STAKEHOLDERS**

- People/Organizations who are not customers or suppliers but are nonetheless concerned
  - ◆ Environmental Community
  - ◆ Abutters, e.g., of airports
  - ◆ The General Public -- concerned with quality of life, national defense, economic development, as enabled by the transportation system

#### THE CUSTOMER

THE CUSTOMER -- the most important external element. That's why we are in "business," but consider the difference between public sector (e.g., MBTA) and private sector (e.g., United Airlines) views of the "customer."

## EXTERNAL COMPONENTS OF THE TRANSPORTATION SYSTEM

