Infrastructure Costs and Capacity
Constraints and Management

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Dealing with Infrastructure and Capacity Constraints

- **Additional capacity**
  - New runways
  - New airports
  - ATM advances (e.g., Next Generation System) – significant research funding

- **Real-time demand management: air traffic flow management** (reduces impact/cost of congestion)

- **Strategic demand management: spatial and temporal redistribution of demand**
  - Secondary commercial and g.a. airports
  - More efficient utilization of capacity at major commercial airports (e.g., larger aircraft)
  - Administrative and economic interventions to encourage such shifts (e.g., NPRM for LGA, congestion pricing, slot auctions, slot trading)
Numerous underlying economic and regulatory issues

• What is the cost of infrastructure to consumers and to the airlines?
• Who pays for what and how?
• User charges, their determination and economic regulation
• Airport privatization and resulting regulation and tensions
• ATM “corporatization” and privatization
Infrastructure Costs and Capacity Management

- Dynamics of Transition in the Air Transportation System (Mozdzanowska)

- Infrastructure Costs (Karlsson)

- Scalability of Air Transportation Networks through the Development of Multi-Airport Systems: A Worldwide Perspective (Bonnefoy)