



# 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)

# Infrastructure Costs and Capacity Management

- **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 (Bonneyoy)**