Overview of Airspace Congestion & Delays at Airport Metroplexes

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National Airspace System – Quick Overview

- Non-hub airports
- Hub airports
- Airport Metroplex
- Non-hubs to non-hubs & Non-hubs to hubs
- Hub to hub
Airport Metroplexes

- **General definition:** A region with more than two airports in close proximity sharing resources and having coupled operations

That is, intersecting airspace and traffic streams

**New York/New Jersey metroplex**
As a result...

Airspace congestion and flight delays!!!

Also…
- Issues concerning safety and coordination
- Policy & regulation
- Competition between airports, and airlines
- What about the poor passengers?
What can we do about it?

• Eliminate all flights. No more delays and congestion. HURRAY!!

• We are using a more practical approach
  – Identifying sources of delay and congestion
  – Studying conflicts of interest:
    E.g., Airline business vs. Network performance
  – Venues we are looking into are...
    • Reroute flights to less congested airports in metroplex
    • More regulations on airlines
    • More coordination between airports
    • Flexible travel options to passengers → a new-comer!