

Turkish Passenger Market Analysis Boeing Commercial Airplanes

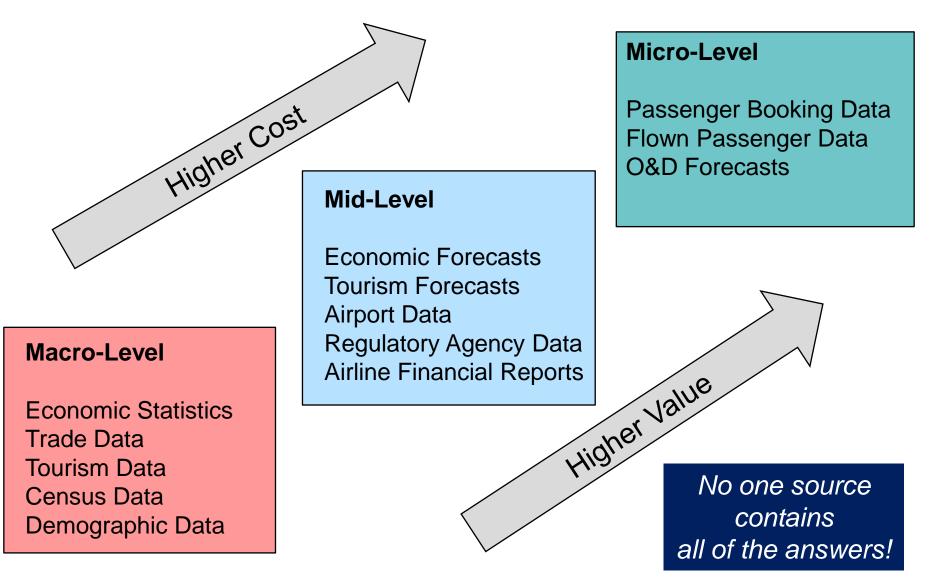
Istanbul Technical University

Air Transportation Management

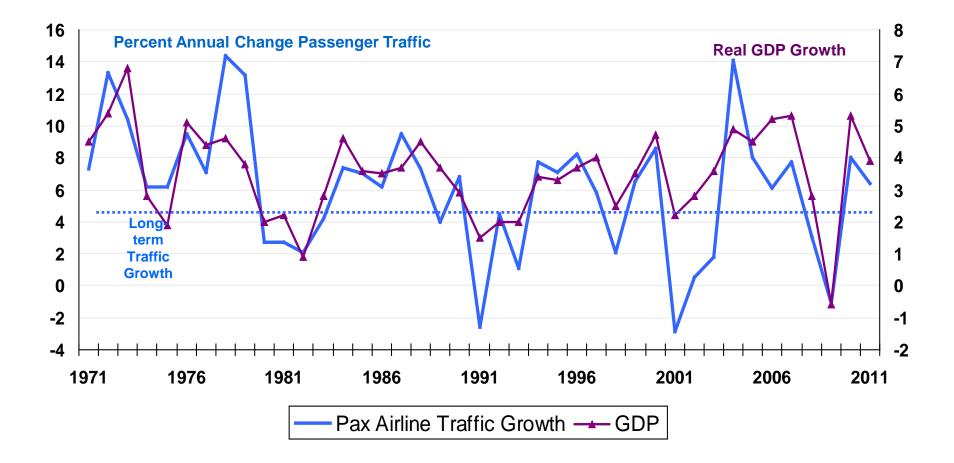
M.Sc. Program

Network, Fleet and Schedule Strategic Planning Module 22 : 14 March 2014

Sources of Passenger Data

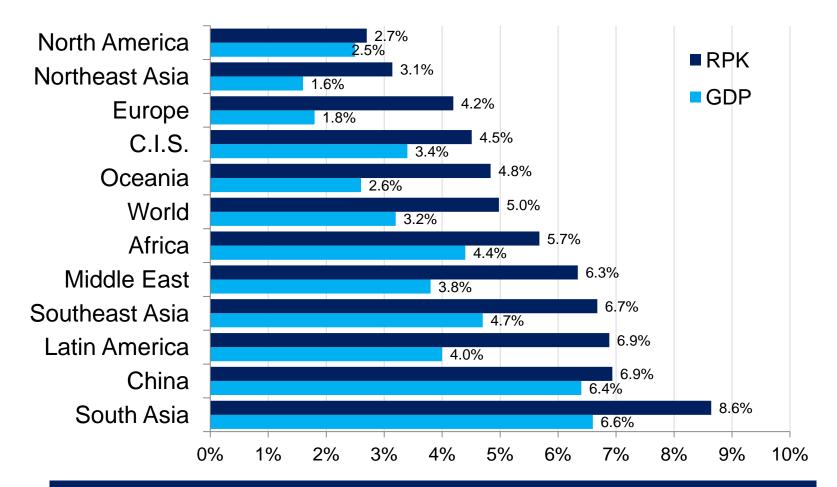


Relationship between Economy and Air Travel



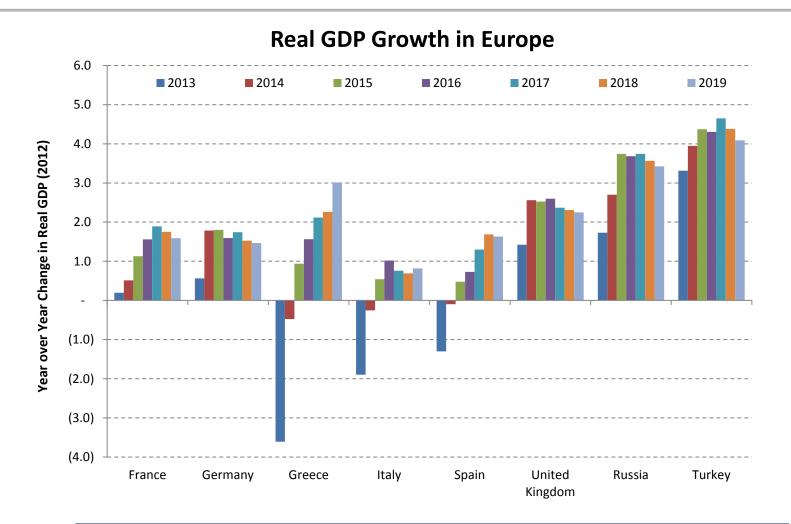
Economic drivers of regional traffic growth

Annual growth, 2012 - 2032



How do these projections impact THY's network development?

Economic drivers of regional traffic growth

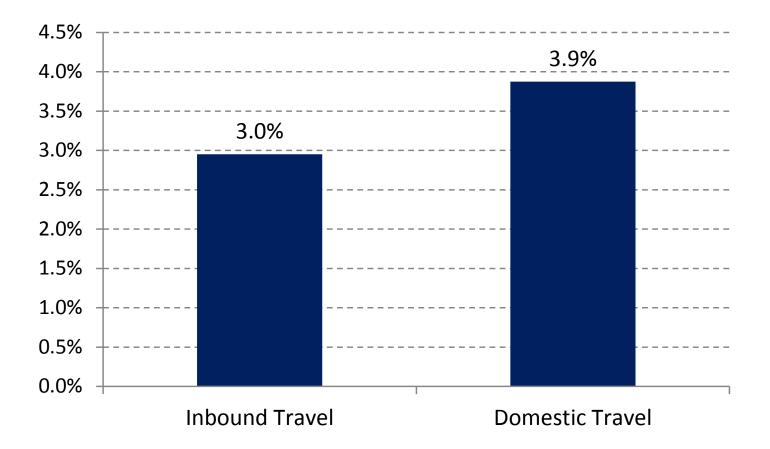


What implications does this data have for Turkish Airlines?

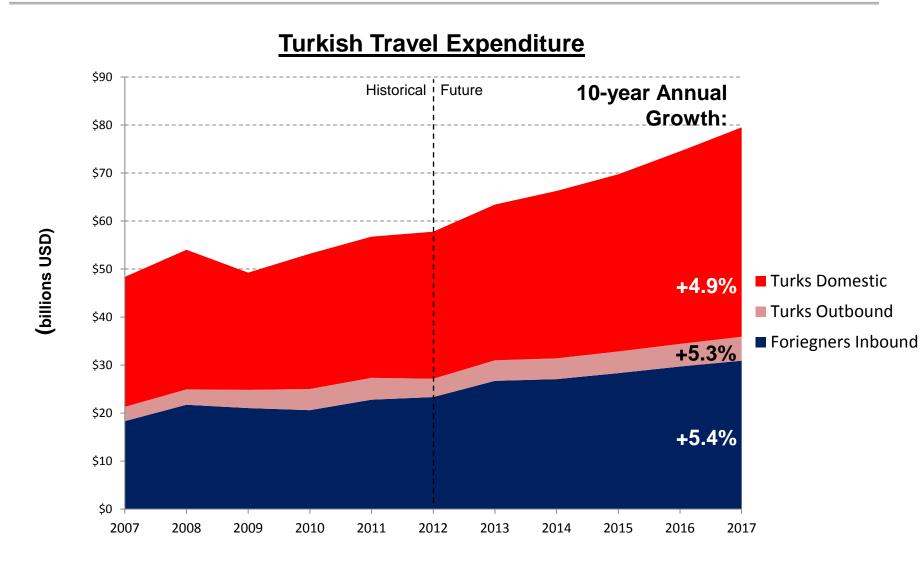
Source: IHS Global Insight

Travel Industry: Powerful economic driver

Travel Share of Turkish Gross Domestic Product (GDP)

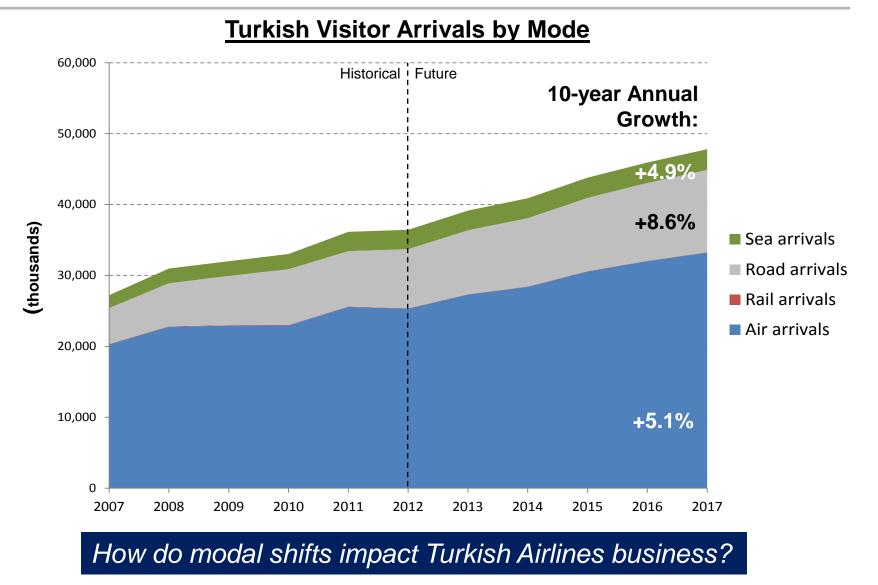


Foreign and domestic travel both have large contribution



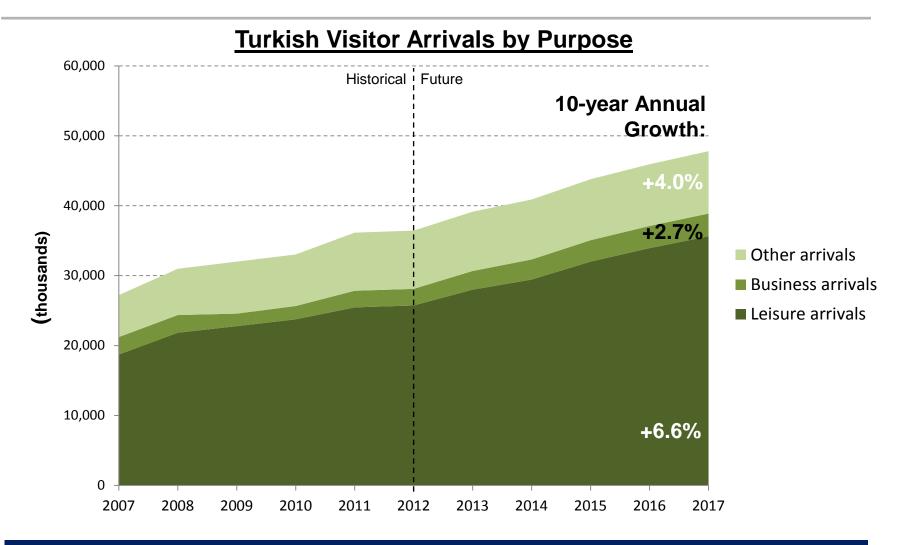
Source: Oxford Economics

Foreign visitation vital for economic development



Source: Oxford Economics

Passenger needs will vary based on purpose

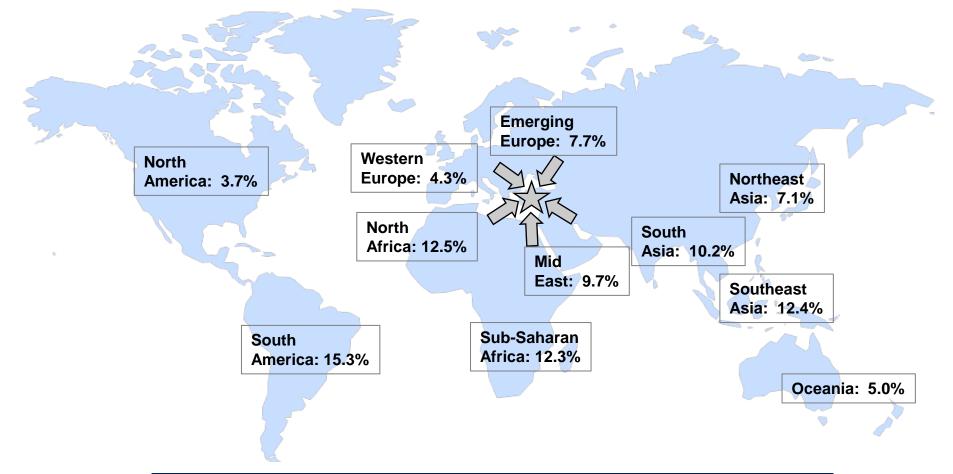


How do airlines respond to passenger needs based on travel purpose?

Source: Oxford Economics

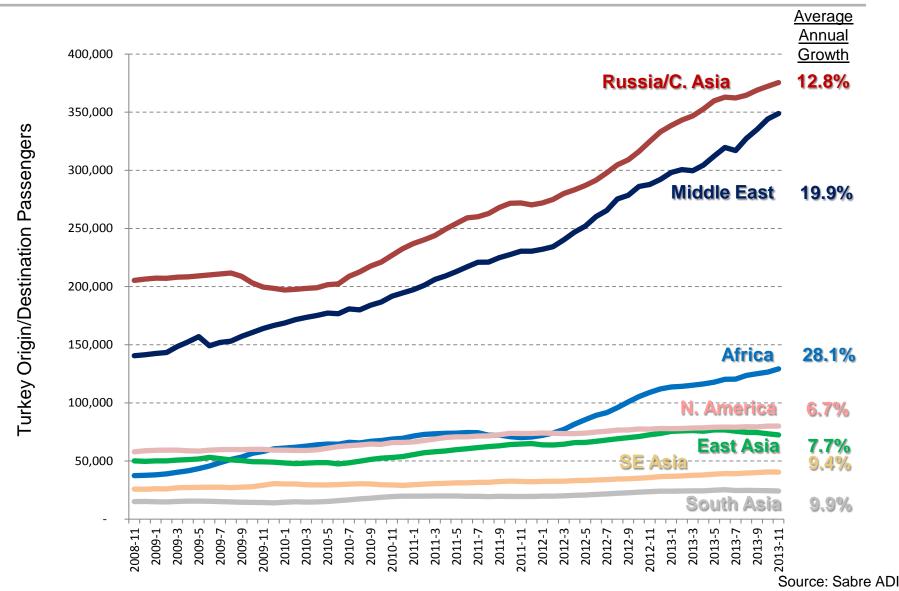
Regional differences in travel demand

Turkey Inbound Annual Arrival Growth: 2007-2017

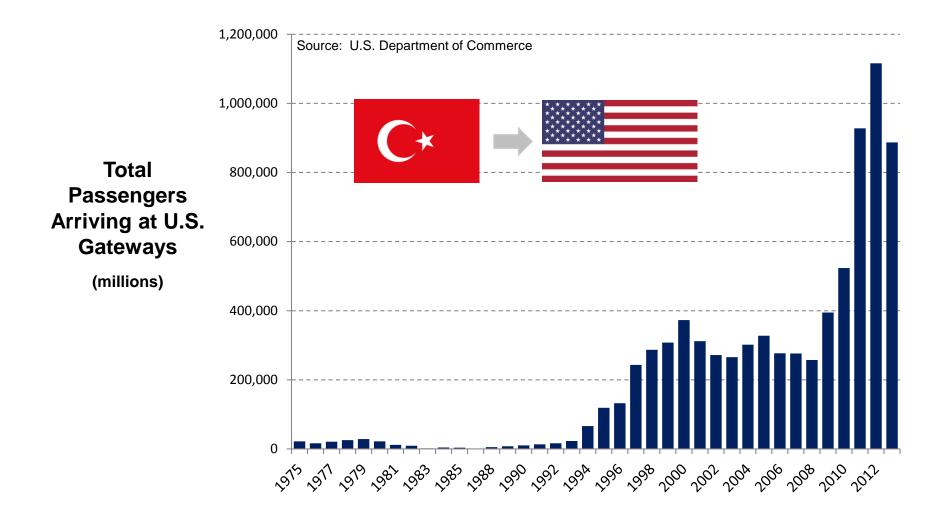


What factors help to explain these regional differences?

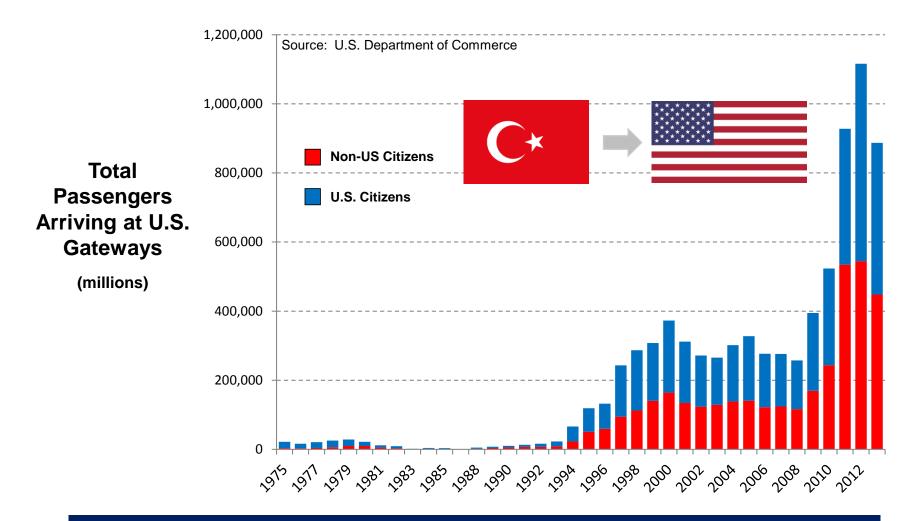
Turkey air traffic growth by region



Country Focus: Turkey – U.S.A. air traffic

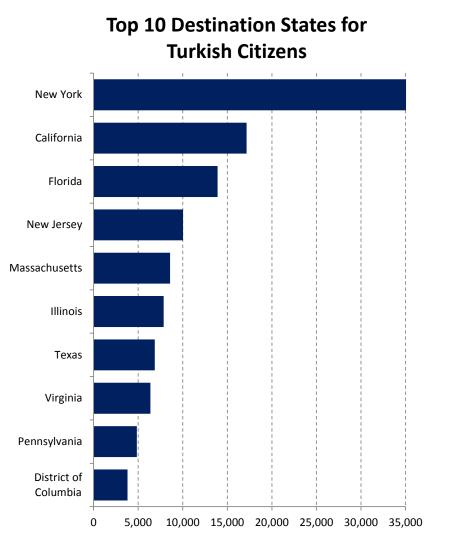


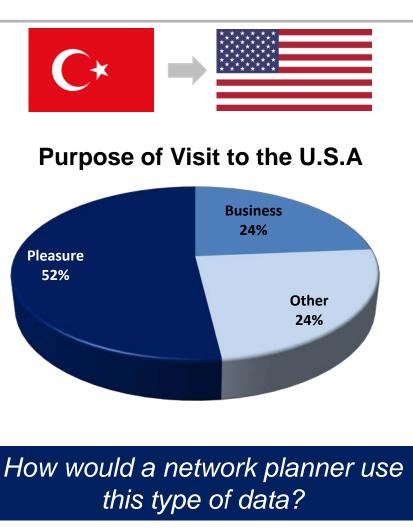
Turkey – U.S.A. passenger traffic by citizenship



What might cause shifts in nationality over time?

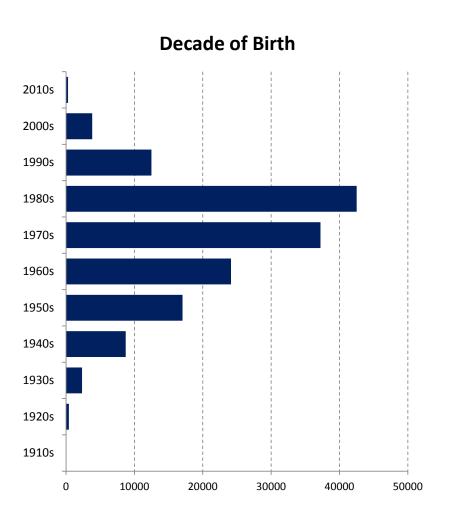
Turkish Nationals: U.S.A. visitor data

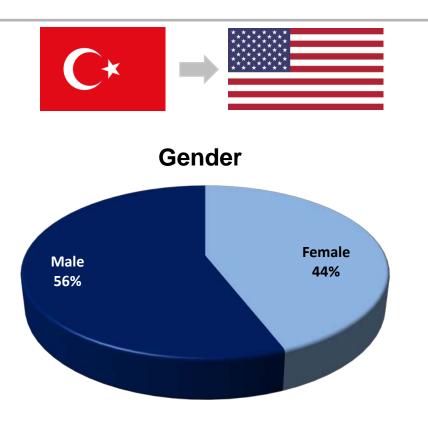




Source: U.S. Department of Commerce, 2010

Turkish Nationals: U.S.A. visitor data



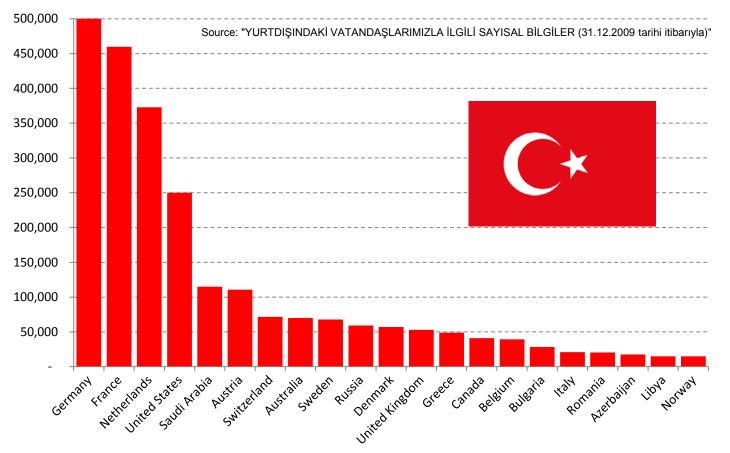


How would a network planner use this type of data?

Source: U.S. Department of Commerce, 2010

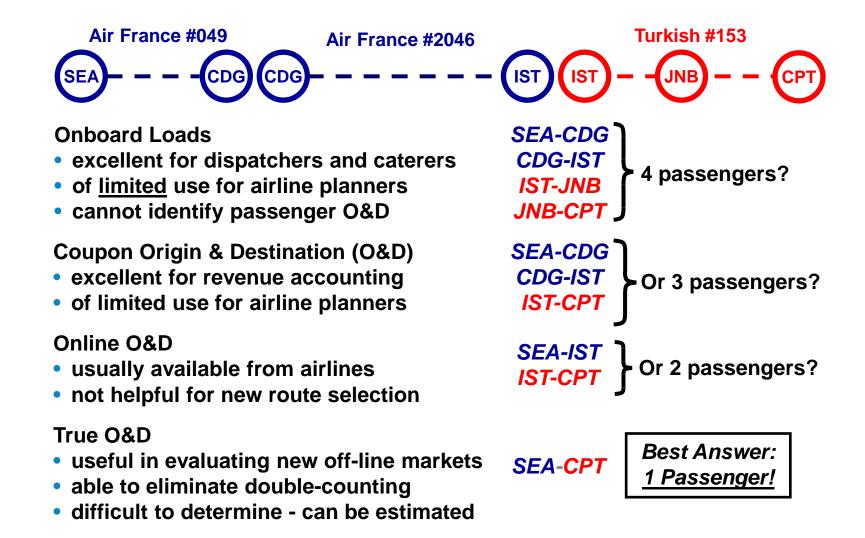
Ethnic settlement may help to guide travel requirements





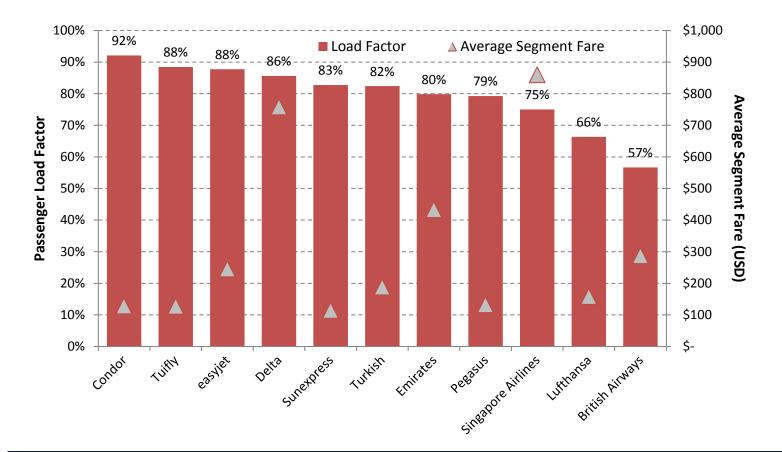
Is this data significant to a network planner? Why or why not?

What is demand and how is it measured?



Load factors and fares vary by airline

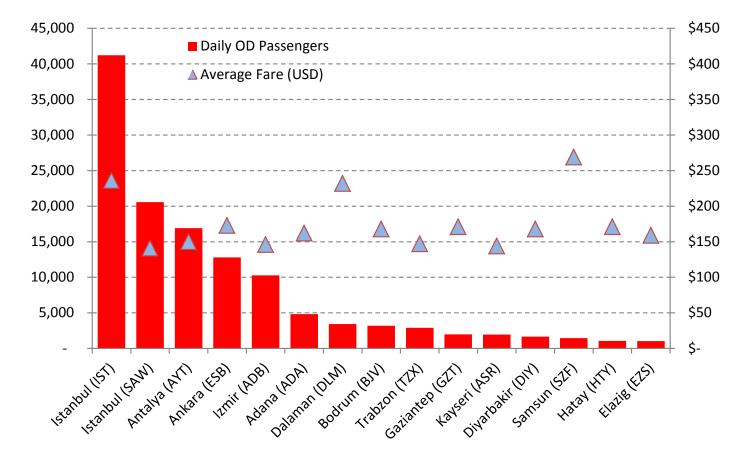
Select Airline Load Factor & Fare: Turkey Operations



How useful is segment data for network planning?

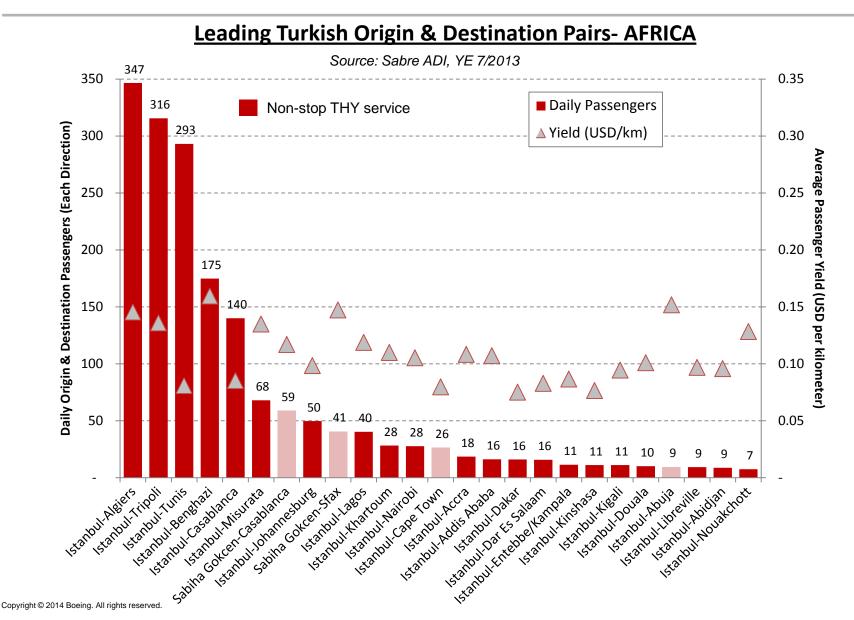
Turkish Origin & Destination Markets

Largest Turkish OD Markets



Why do these market sizes and fares differ?

Turkey Origin & Destination demand/fares

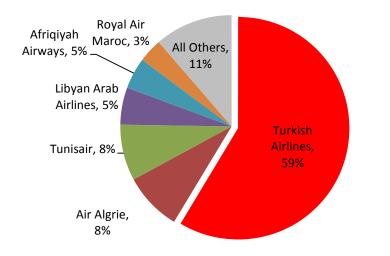


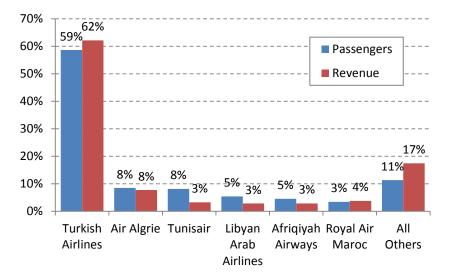
Turkish Regional Market Share

TURKEY <=> AFRICA

Passenger Share

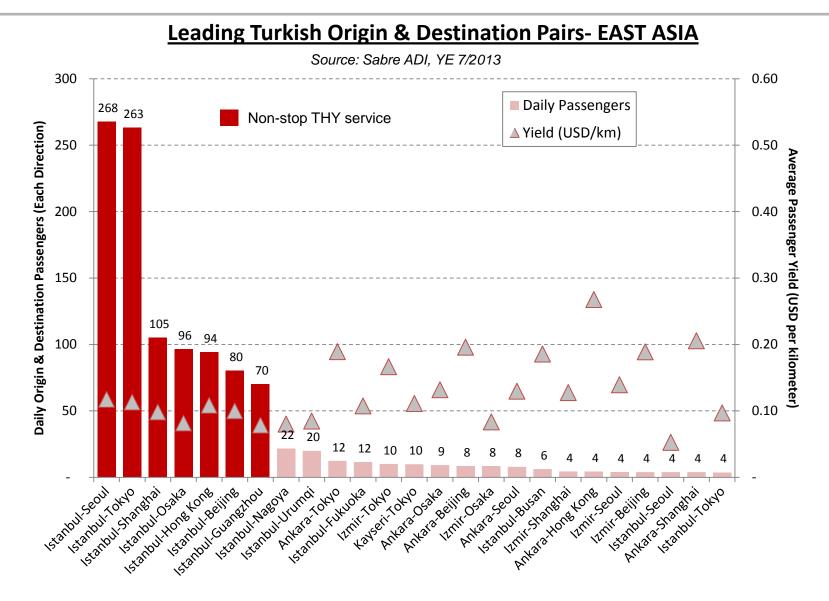






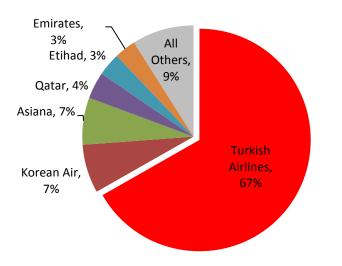
Source: Sabre ADI, YE 7/2013

Turkey Origin & Destination demand/fares

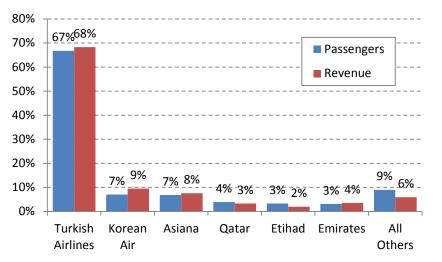


Turkish Regional Market Share

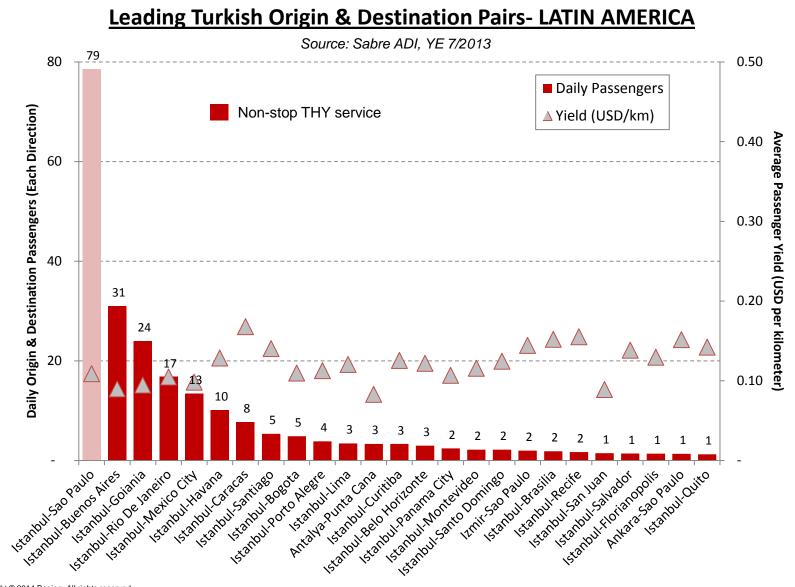
TURKEY <=> EAST ASIA



Passenger Share



Turkey Origin & Destination demand/fares

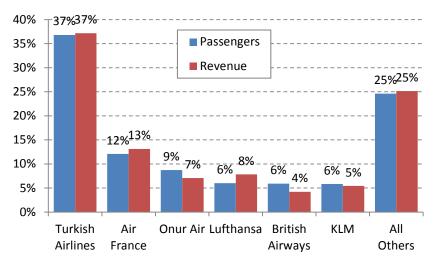


Turkish Regional Market Share

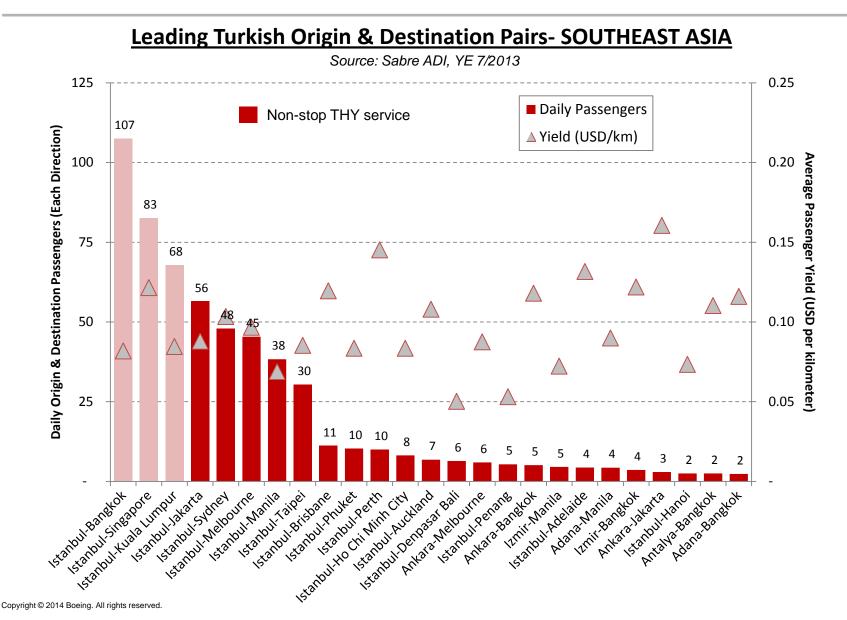
TURKEY <=> LATIN AMERICA

All Others, 25% Turkish Airlines, 37% KLM, 6% KLM, 6% Air France, 12% Onur Air, 9%

Passenger Share



Turkey Origin & Destination demand/fares

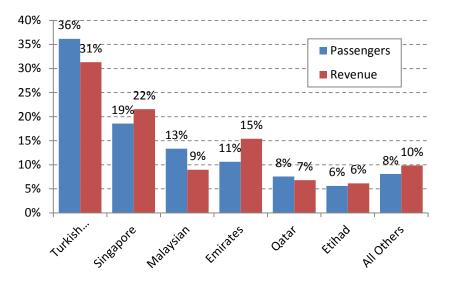


Turkish Regional Market Share

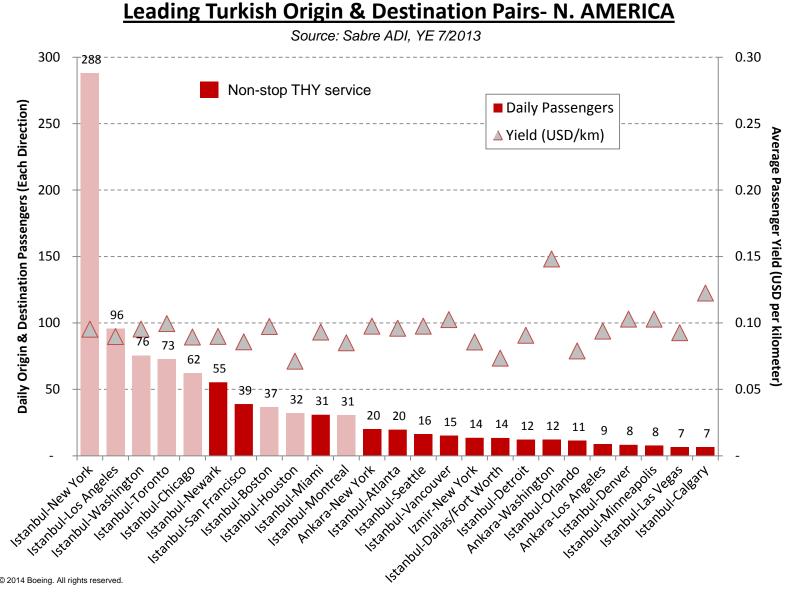
TURKEY <=> SE ASIA

All Others, Etihad, 6% Gatar, 8% Turkish Airlines, 36% Singapore, 19%

Passenger Share

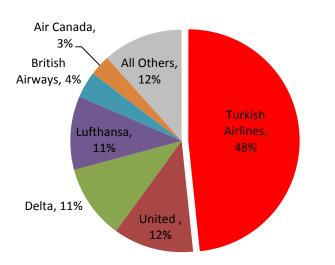


Turkey Origin & Destination Demand/fares

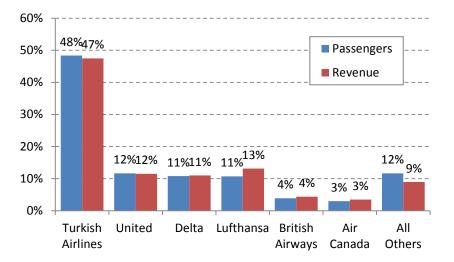


Turkish Regional Market Share

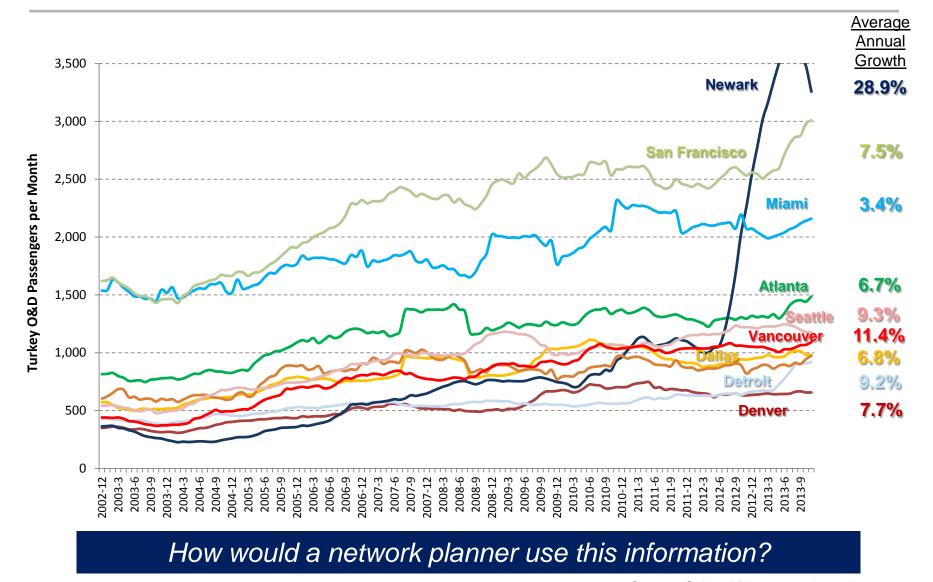
TURKEY <=> NORTH AMERICA



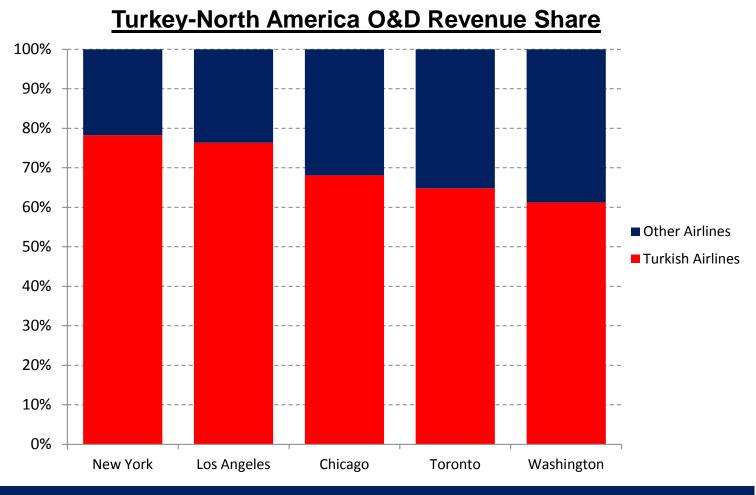
Passenger Share



North America: Passenger Traffic Growth Trend



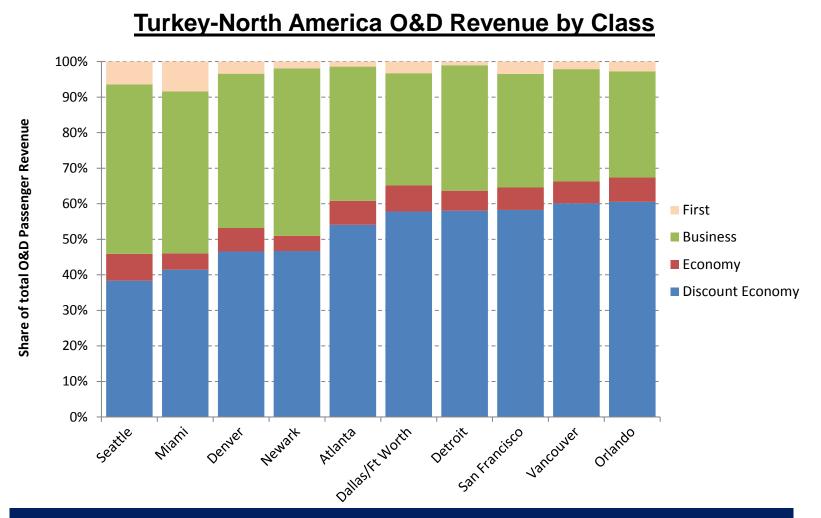
Market Share in Non-stop O&D Pairs



How does THY maintain such high market shares?

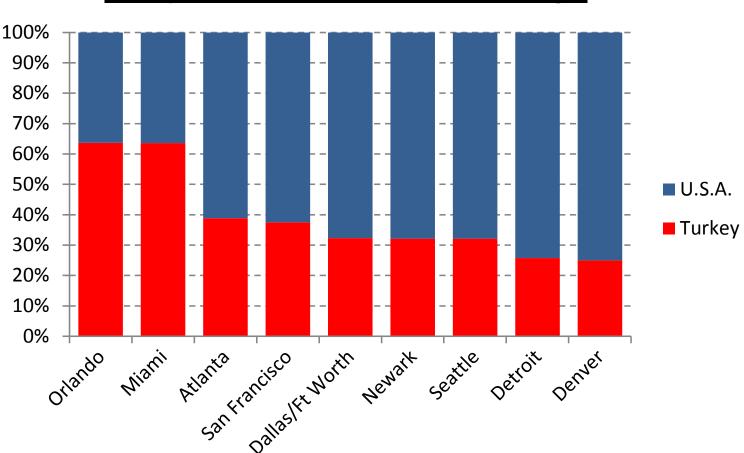
Source: Sabre ADI YE 7/2013

Yield differences between markets



How would a network planner use this information?

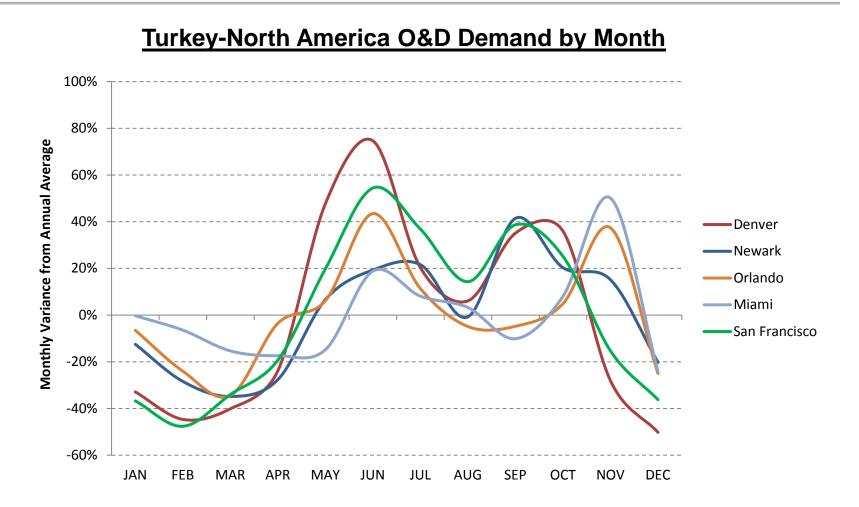
Point of Origin impacts market planning



Turkey-North America O&D Point of Origin

What implications might this data have for planning?

Seasonality varies by region and/or market



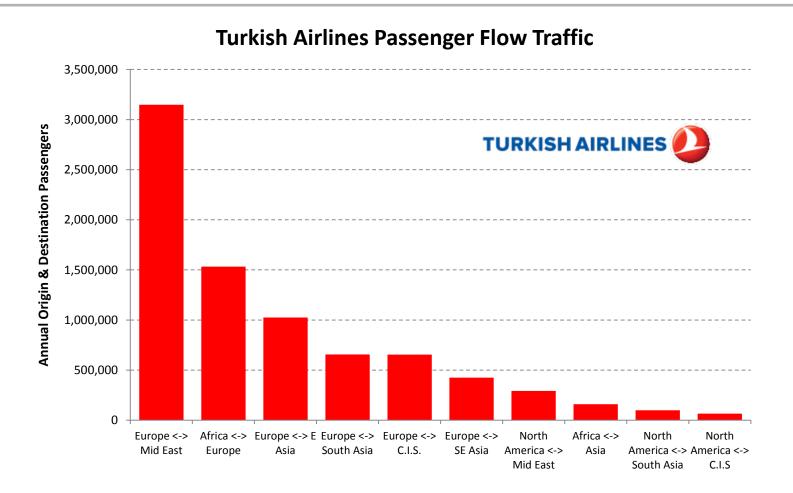
How would a network planner use this information?

Connecting Traffic Flows



What regions are connected via the Istanbul hub?

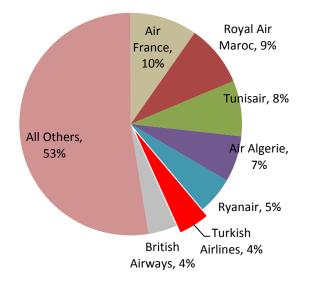
Istanbul as a crossroads of regions

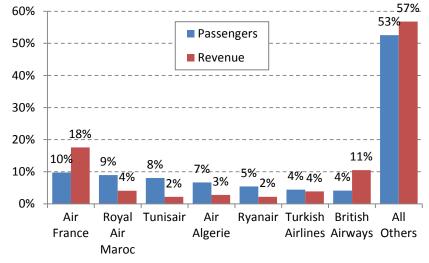


What factors might drive regional flow variations?

AFRICA <=> EUROPE

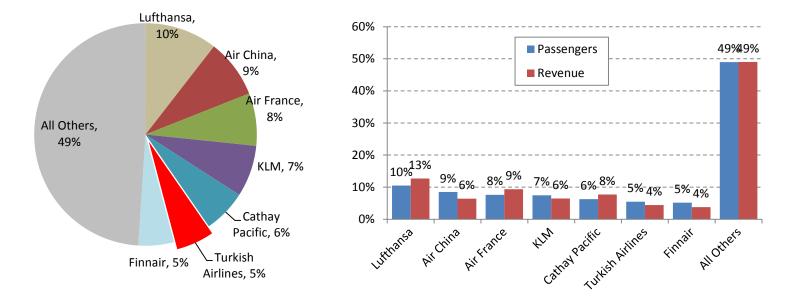
Passenger Share





EUROPE <=> EAST ASIA

Passenger Share



EUROPE <=> SOUTH ASIA

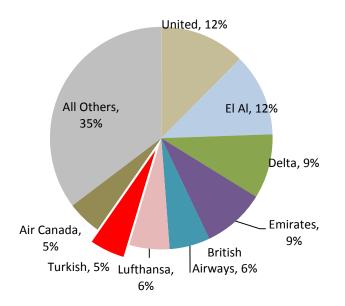
Emirates, All Others, 23% 30% Qatar, 11% British Airways, 4% _Jet Airways, Lufthansa, 7% 5% Pakistan Turkish Air India, 7% Int'l, 7% Airlines, 6%

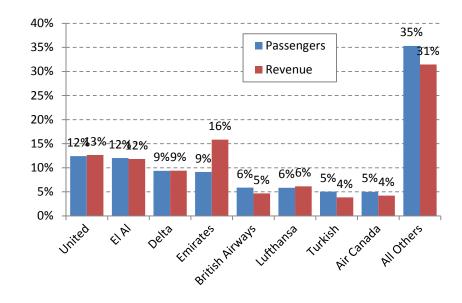
Passenger Share

35% 30% Passengers 30% 28% 27% Revenue 25% 239 20% 15% 11% 9% 7%6% 7%6% 7% -8% 10% ^{6%}5% 5% 5% 0% Oatar Airwars Pakstan Int'l Air India Airines Listhansa Airwars A Allothers Emirates

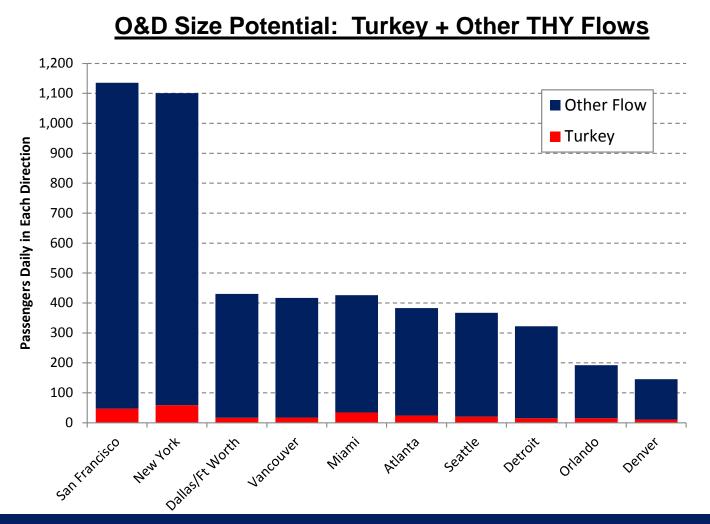
NORTH AMERICA <=> MIDDLE EAST

Passenger Share





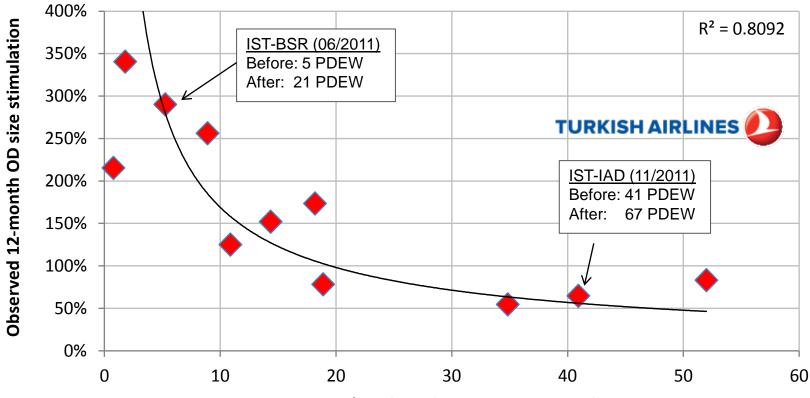
Importance of connecting traffic flows



How might this change the way a planner evaluates markets?

Market stimulation from new non-stop service

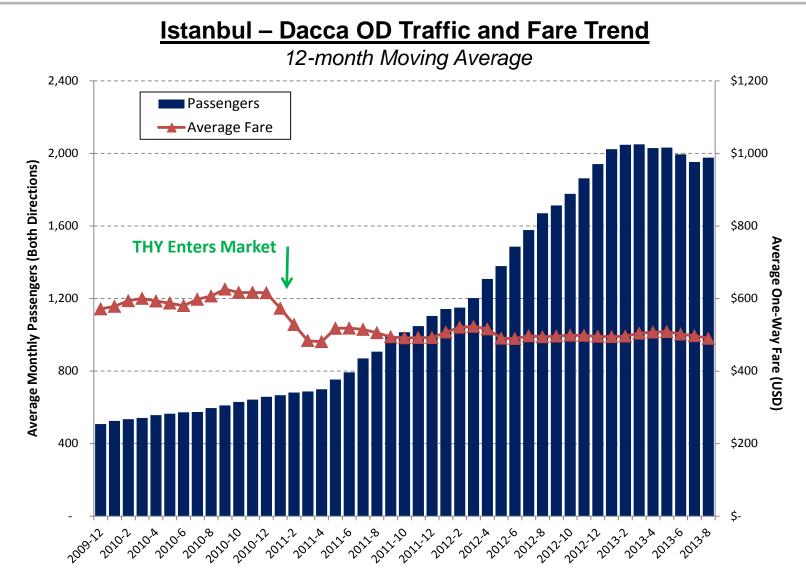
THY New Market Stimulation



OD Market Size Prior to Non-Stop Service

What factors might cause stimulation of these markets?

New entrant effect on market dynamics



Passenger Market Analysis Summary

- Network planners must fully understand the passenger market in order to make informed decisions
- A wealth of data is available, some of it is free, some of it can be very expensive
- No one data source will answer every question the successful planner synthesizes disparate data to reach educated conclusions on the passenger market place
- Macro-level economic data and forecasts can be very useful for high level planning
- Market and flight level planning necessitates the use of segment or O&D level data
- O&D data useful to determining airline's strength relative to others in existing markets; most useful for new market "hunting"
- Key new market data elements include local/flow OD demand size, passenger yield and variability of demand
- New service has the potential to greatly increase the size of a market, planners must account for this stimulation and discounting needed to drive additional traffic

The best data is useless without the ability to understand what it means!

Questions?