

Travel convenience

Minimize delays

Solution

• if there is a delay two things

- 1) if it is avoidable, use the shortest more efficient route to prevent the avoidable delay so that it reaches on time (QUBU to minimize fuel cost & the flying distance)

- 2) if unavoidable, have multiple existing airplanes open so as to prevent the unavoidable time delay at a convenient time (QAOA to increase the number of airplanes)

for point 2

• if multiple planes in the same weather, optimize a right price so that in case of delay, they can have the ability to stay in a place (fairly compensated while the plane standards are good & balanced)

Scheduling and Resource allocation

▷ Inefficient crew scheduling leading to staff shortages

1) In PILOT'S POV

▷ ensure we maximize the crew members so as to save time in a last minute ditch

▷ constantly check on the pilots if they are well rested and fit to fly