



REDUCING IMPACT OF AIRCRAFT NOISE IN CHARLOTTE

CHARLOTTE AIRPORT COMMUNITY ROUNDTABLE

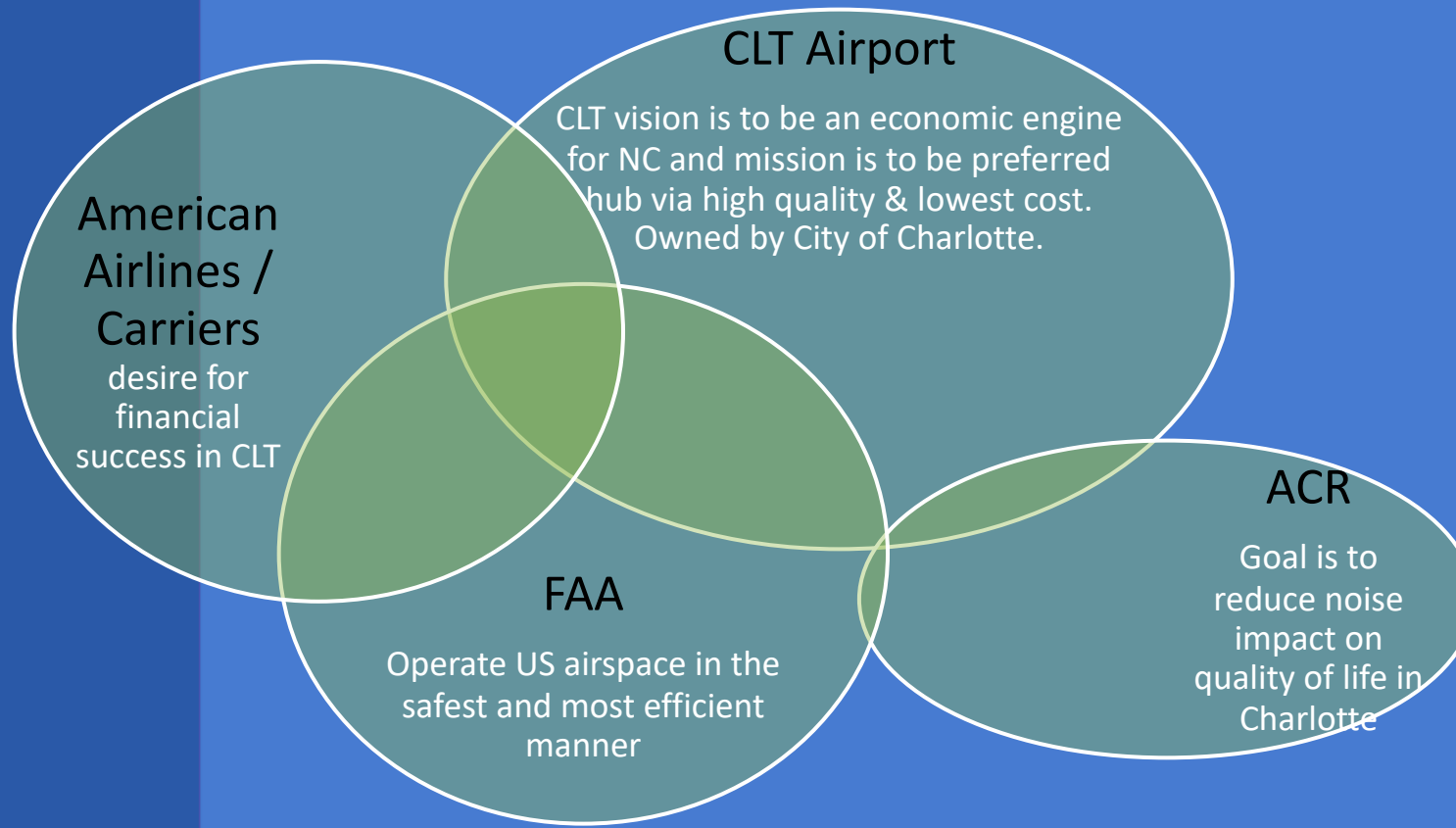
OCTOBER, 2021

CHARLOTTE DOUGLAS AIRPORT - FACTS

- Sixth largest US airport in number of daily flights and passengers
- Averages 1400-1500 daily flights
- 2nd largest hub for American Airlines
- \$25B annual economic impact, \$1.3B state & local taxes
- Traffic pattern flows North or South depending on opposing wind direction
- Approx. 40% South flow in 2021 (arrivals from North, departures to North)
- No nighttime restriction on operations
- 67,000 noise complaints in 2021 to date from a limited number of households
- Planning on building a 4th parallel runway for completion in 2028

CHARLOTTE AIRPORT RELATIONSHIPS

Charlotte and surrounding communities



THE FAA - FACTS

- Responsible for all above ground operations for CLT via air traffic control
- Goals are safety and efficiency through national standardization
- Wants nation-wide procedures over local specific procedures
- 45,000 Employees, reports to Secretary of Transportation
- Instituted Next Gen satellite-based aircraft navigation system in 2017
- Directed large US airports to form Airport Community Roundtables at to manage large increase in noise complaints starting in 2017
- Dozens of community noise reduction groups have taken legal action
- Conducted Neighborhood Environmental Study (NES) at 20 US airport communities published in Jan. 2021 finding that airplane noise is a much greater problem than previously known.

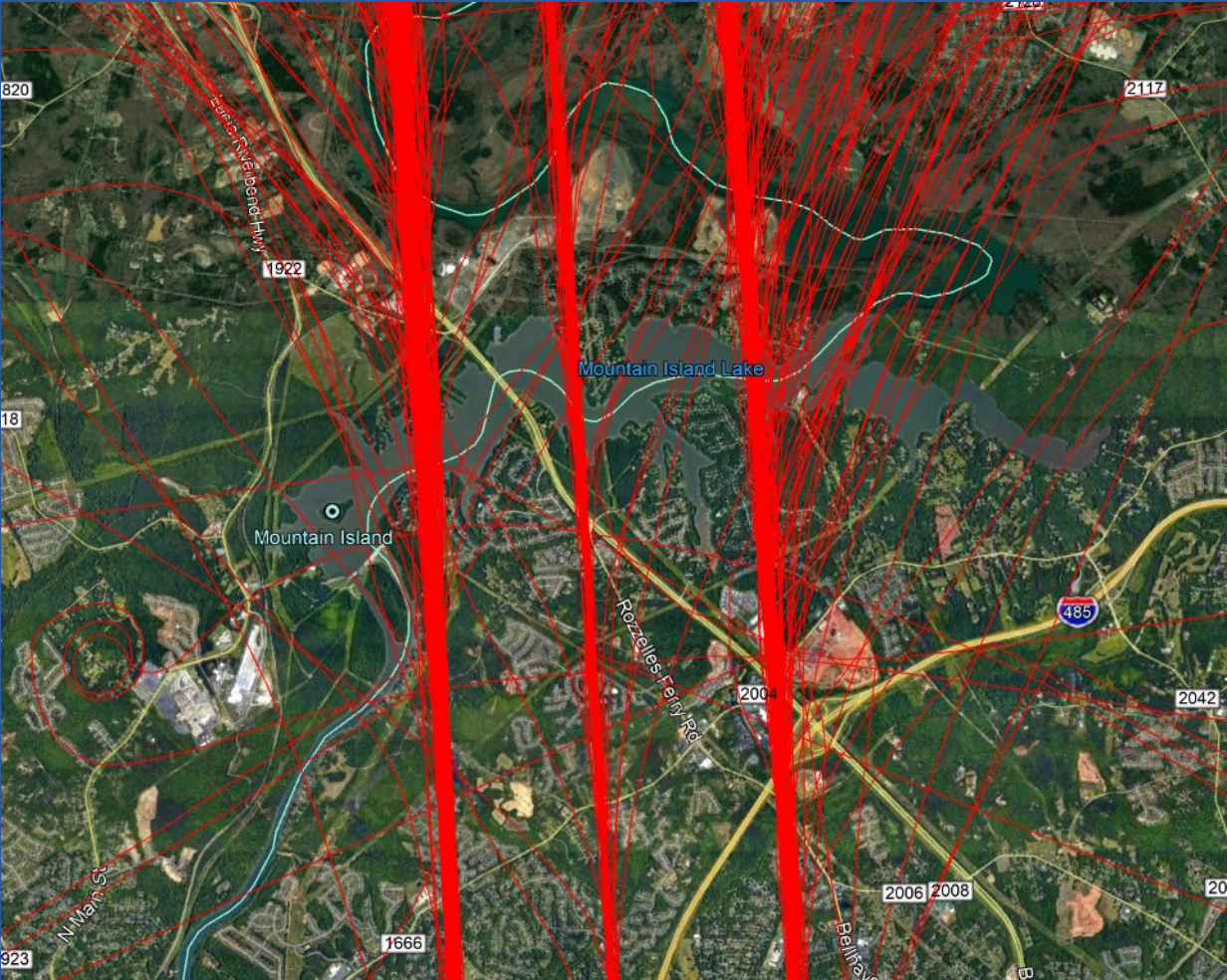
ACR – AIRPORT COMMUNITY ROUNDTABLE

- 25 person volunteer group representing key geographies of CLT airspace where airplane noise is a problem
- Members identified from number of noise complaints and high level of interest
- Meets bi-monthly either in-person or virtually
- Main goals are to reduce impact of noise by decreasing origin of noise, increasing dispersion and altitude of aircraft
- Works with technical consultants from HMMH to study impact of noise and possible solutions
- Worked collaboratively with CLT staff and FAA representatives to formally present slate of six recommendations in July 2020

AMERICAN AIRLINES AND OTHER CARRIERS

- Operates approx. 500 to 700 daily flights in Charlotte, #2 US Hub Airport
- Schedules flights in concentrated time “Banks” for commuter transfers
- Peak traffic volume days are Thurs, Fri, and Sundays
- AA Fleet is comprised of 46% certified Stage 3 aircraft, 46% Stage 4 aircraft, and 11% Stage 5 aircraft
- 57% of operations are regional aircraft (all Stage 3 certified and Stage 4 capable)

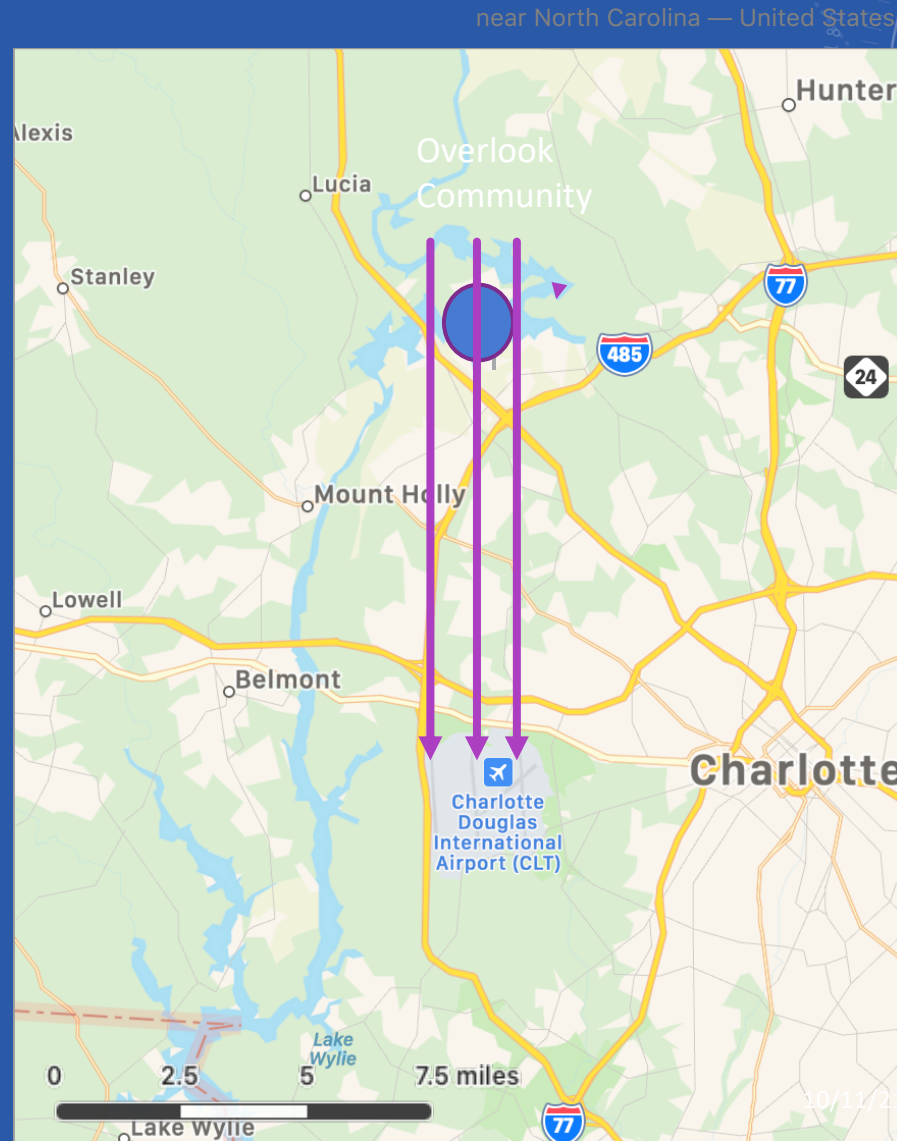
SOUTH FLOW ARRIVALS – NOISE RAILS



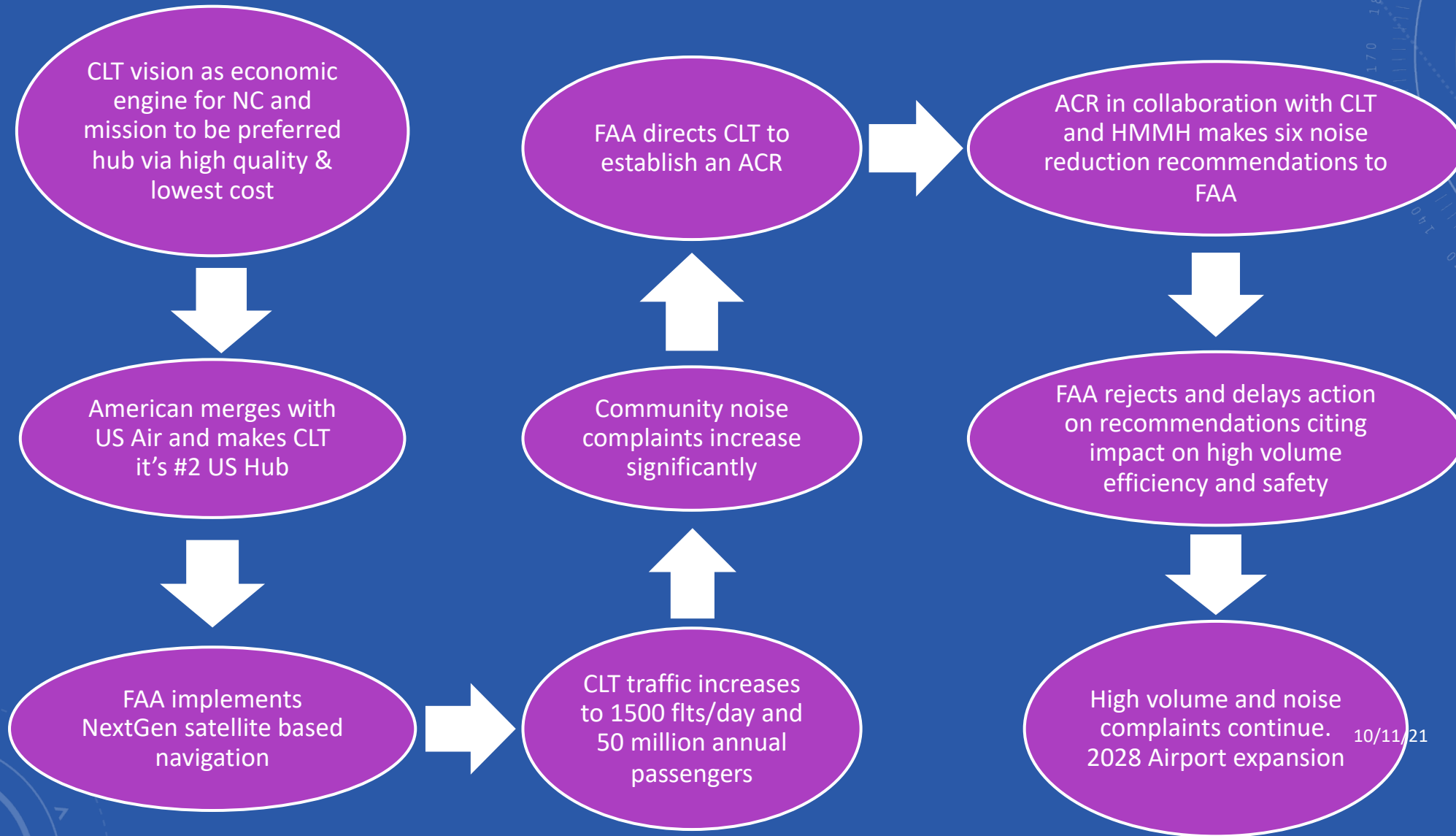
Three arrival paths above Overlook community in line with runways 18L, 18C, and 18R

SOUTH FLOW ARRIVALS – OVERLOOK COMMUNITY

- 700 Daily Arrivals from North on average
- 3 parallel runways (18R, 18C, 18L) oriented true North South
- Overlook is 7-8 miles due North
- Arrivals typically 2500 to 3100' above ground altitude on 3 degree descent slope
- Noise ranges from 64 – 70 Decibels with 30-40 seconds duration
- Multiple concentrated time periods throughout day (1.5 to 2 minute intervals)



HISTORIC FLOW OF KEY EVENTS



10/11/21

PRIMARY SOURCES OF EXCESSIVE CLT AIRCRAFT NOISE

- High volume of air traffic as AA Hub (up to 1500 total daily flights)
- Concentrated arrival routing due to NextGen system procedures to help ATC better manage high traffic volume
- Lower aircraft altitudes to help ATC better manage high traffic volume
- Older and noisier Stage 3 aircraft
- Stage 4 aircraft not required to operate with quieter Stage 4 procedures

TOP TEN NEXT STEPS FOR ACR

1. Stay engaged with FAA evaluating ACR recommendation #3 regarding moving waypoints out and higher
2. Participate with Part 150 environmental study affecting ACR departure recommendations (#4, 5, 6)
3. Asking government officials to take action on national and local levels
4. Contacting media outlets and communicate situation to community
5. Increase community outreach through local groups, petitions, and social media
6. Simplify the noise complaint process for residents
7. Push major carriers to upgrade and operate fleet from noisy Stage 3 to Stage 4 and 5 equipment
8. Define and publish minimum AGL altitudes for 3 degree arrivals at specific lateral distances
9. Benchmark and collaborate with other airport noise groups
10. Maintain professional working relationship with CLT and FAA

Gov't
- Community
- Local Ops
- Stakeholder

ACTIONS FOR EVERYONE

1. Submit Noise Complaints to the airport

- The number of households filing complaints is a critical metric
- You can click on the below link to submit a web complaint:
<http://www.planenoise.com/cltairportnoise/>
- You can call in a complaint to: 704-359-HEAR (4327)
- Get a free app at Airnoise.io to file complaints in seconds

2. Tell your local government officials about the situation and that you want improvement

3. Talk with your neighbors and enlist their support

4. Support the efforts of the Airport Community Roundtable

5. Visit <https://www.cltairport.com/community/noise> for further information

6. Contact kurtwiesenberger@att.net with questions and comments