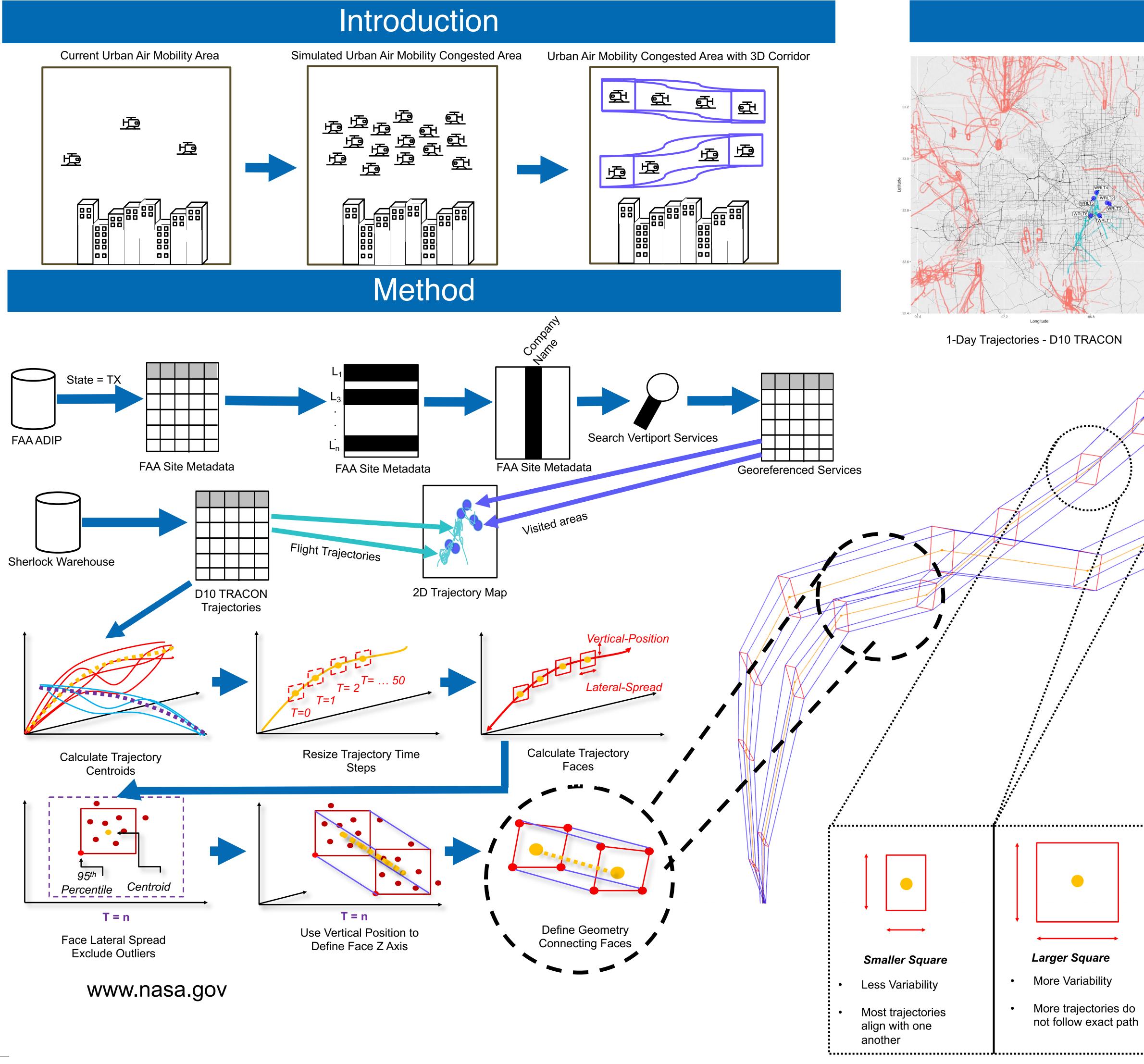
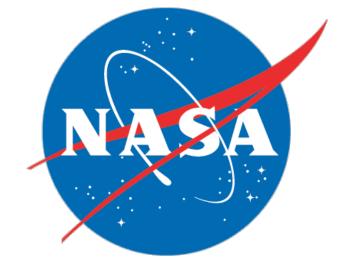
National Aeronautics and Space Administration

Interpretability and Geometry of Trajectory Corridors Roshan Ravada Carlos Paradis Mark Nguyen Misty Davies Dougherty Valley High School NASA Ames Research Center KBR, Inc



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Results

- Existing corridors and services can be visualized in 2D for preselection for 3D reconstruction.
- 3D Trajectories can be utilized to understand corridor traffic and define safety metrics for policymaking.

The 3D geometry reflects a single service in a single day. The toolchain can be used to explore any other day and existing service.

Related Work

- C. Paradis, M. Davies. Visualizing Corridors in Terminal Airspace using Trajectory Clustering. 2022 IEEE/AIAA DASC.
- C. Murça. Thesis (2018). Data-driven modeling of air traffic flows for advanced Air Traffic Management. MIT Libraries.

Conclusion

- Existing Urban Air Mobility services can be used to better inform concept operations to ensure the safety of the national air space
- We demonstrate a toolchain which can facilitate the evaluation of existing operations

Acknowledgement







