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Lecture STS 2 - Leveraging open data and models to reduce aviation's climate footprint

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This presentation explores how open data and open-source tools can help evaluate and reduce aviation climate impact. We introduce OpenSky data for flight tracking, aircraft performance models for emission estimation, and methods for predicting contrail formation using meteorological data. Finally, we demonstrate how these resources enable trajectory optimization for flight planning that minimizes both emissions and contrail-induced warming.

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