

AEON

Advanced Engine
Off Navigation

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CONTEXT AND OBJECTIVES

- Aircraft jet engines are inefficient for taxiing operations.
- Different taxiing techniques (such as Taxibots, E-Taxi, WheelTug) are coming onto market
- Each has its advantages and drawbacks: different performances, additional vehicles, maturity of the solution.
- AEON aims at innovating airport ground operations with more environmentally friendly taxiing techniques, combining the different solution into an innovative concept of operations that maximises engines-off time on ground for fuel and noxious emission savings.

SCIENTIFIC CHALLENGES

- Optimise the usage of Taxibots
- Compute routing, speed profile and start up times for all aircraft in real time taking into account operational events
- Facilitate collaboration between the ground operations actors

