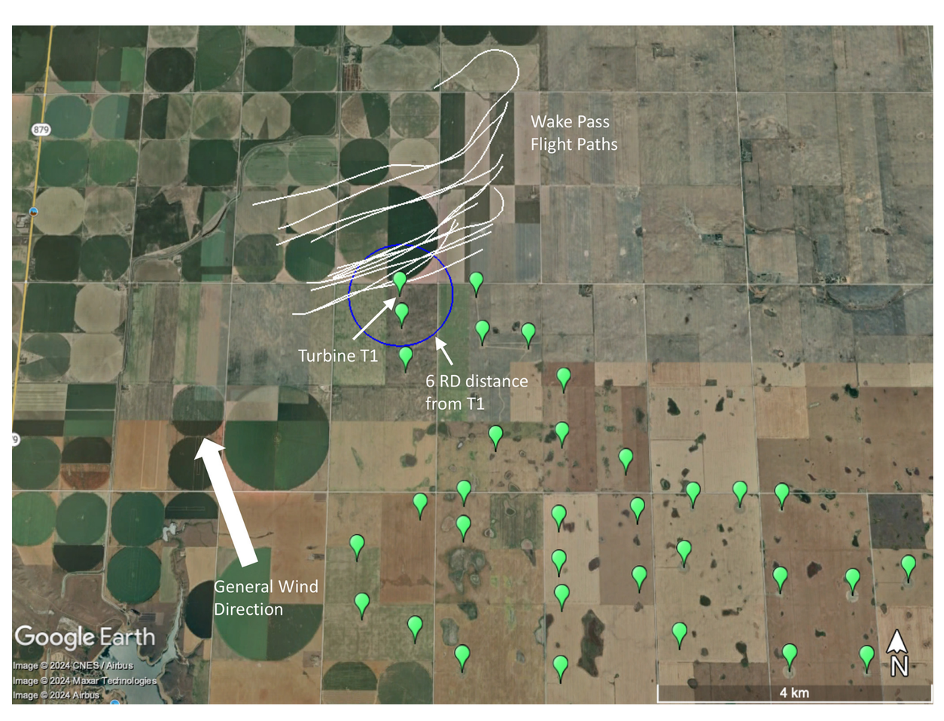
Tailored scientific studies play a key role in **combatting misinformation** about renewable energy.

How Tailored Scientific Studies are Combatting Misinformation About Renewable Energy Development



Flights conducted in the wake of an operating wind turbine to study concerns about wake turbulence.

Watch flight video here

Intro

- Renewable energy developers are increasingly faced with **misinformation from project opposition groups** during siting processes
- Persimia has worked with renewable energy developers to **perform targeted, peer-reviewed studies** that address common opposition talking points
- These studies have proven to be effective in countering misinformation

Case Study: Setbacks and Safety

- 2022 peer-reviewed study by Persimia CEO Dr. Jonathan Rogers showed that typical **1.1 x tip height setback to public roads is protective of public safety**
- Study used state-of-the-art simulation of blade failure and probabilistic analysis

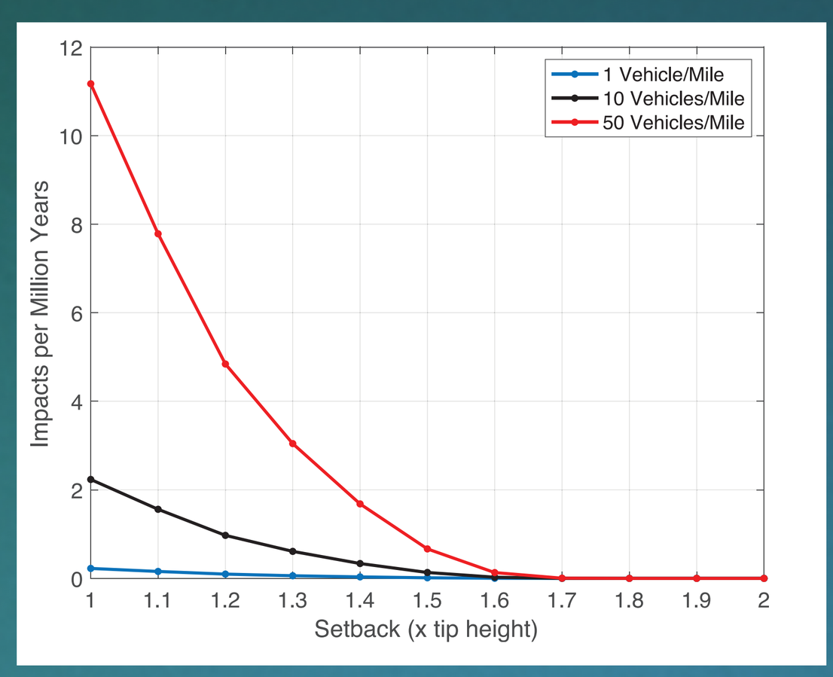
Case Study: Aircraft Flight in Wind Turbine Wakes

- 2024 peer-reviewed study by Dr. Rogers showed that **general aviation aircraft can safety fly though wind turbine wakes**
- Used data from dedicated **flight experiments**
- **Videos have been used by several developers** to address questions of aviation safety and aerial application

How Can Scientific Studies Help?

- Peer-reviewed studies from independent analysts are helpful in **providing data that decision-makers can trust** when addressing opposition issues
- Persimia partners with developers to **address issues that can benefit from additional scientific study**

Study Shows Typical Wind Project Setbacks are Protective of Public Safety



Typical 1.1 x tip height setback to public roads yields **< 1 in 1 million year risk from blade failure** (commensurate with risk of being struck by lightning)

*Study shows that typical **1.1 x tip height road setback is sufficient and protective of public safety.***

J. Rogers, "Experimental Evaluation of Wind Turbine Wake Turbulence Impacts on General Aviation Aircraft," *Wind Energy Science*, Vol. 9, 2024, pp. 1849-1868.

J. Rogers, M. Costello, "Methodology to Assess Wind Turbine Blade Throw Risk to Vehicles on Nearby Roads," *Wind Engineering*, Vol. 46, No. 4, 2022, pp. 1187-1202.

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