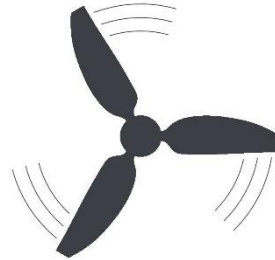


# PrISM Project Overview

## Propeller Ice Shed Measurement



Richard Moser  
AeroTex GmbH  
Wien, 28.04.2022

## Kurzdarstellung der Konsortialpartner (Consortium Partners)

- Project Lead: AeroTex GmbH
  - Significant experience in in-flight aircraft icing; numerical simulation and Icing Wind Tunnel (IWT) testing
- Partners:
  - AIIS (Austrian Institute for Icing Sciences)
    - Expertise in ice shape scanning, measurement techniques
  - Dowty Propellers
    - Expertise in propeller design and manufacture
  - RTA
    - Expertise in icing condition generation, provision of PropRig facility

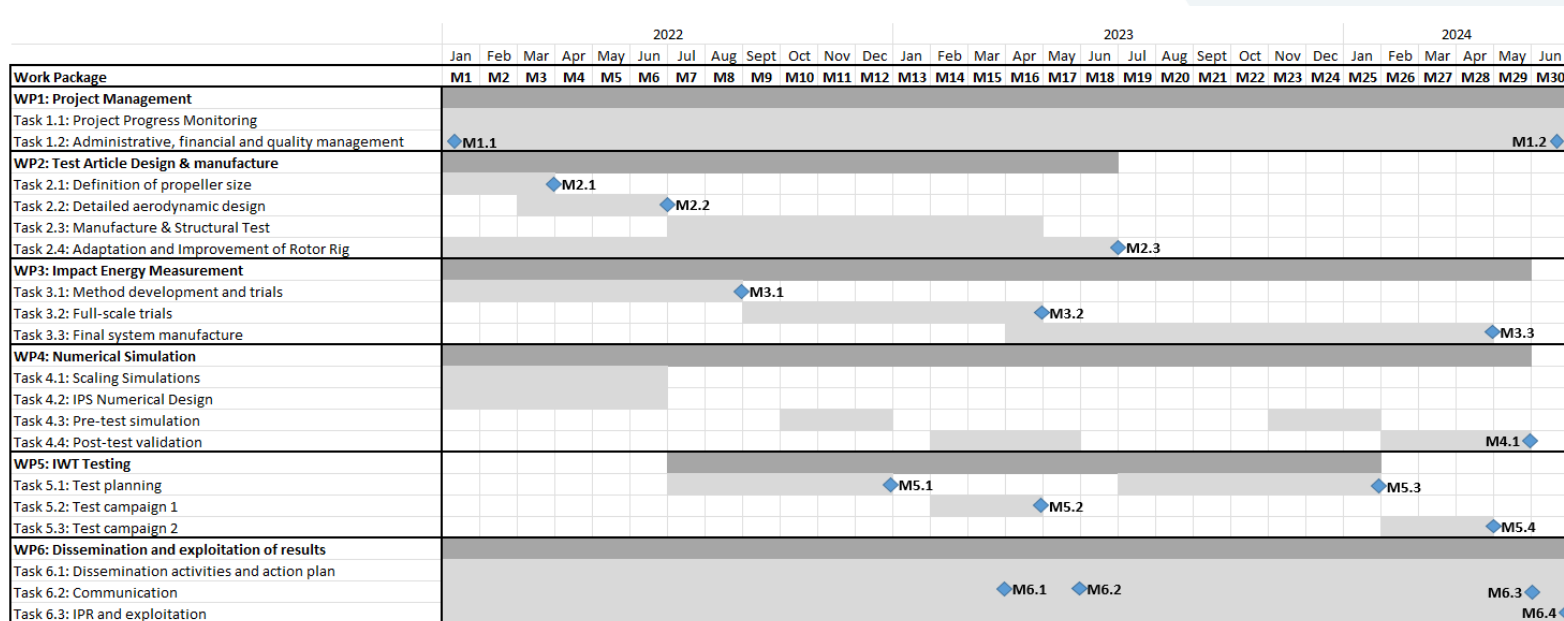


## Ziel des Projekts (Goal of the project)

- Main aim: to develop capability and prove functionality of a PropRig which can test large-scale propellers in realistic icing conditions
  - Design and manufacture of a representative propeller
  - Development of PropRig to increase capability (higher torque)
  - Development of measurement techniques for shed ice trajectories and impact
  - Numerical simulation of ice accretion and shedding

# Arbeitsplan/Zeitplan/Umsetzung (Work plan / Schedule)

- Project Start: January 2022; Duration: 30 months



## Angestrebte Verwertung (Dissemination & Exploitation)

- Conference papers
  - Increase the visibility of the partners internationally and demonstrate world-class capability
- Icing database
  - Attract new customers and research collaborations
- Improved capability
  - Updated designs and test capabilities, allowing more efficient products and faster / cheaper route to certification

## Kontakte (Contacts)

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