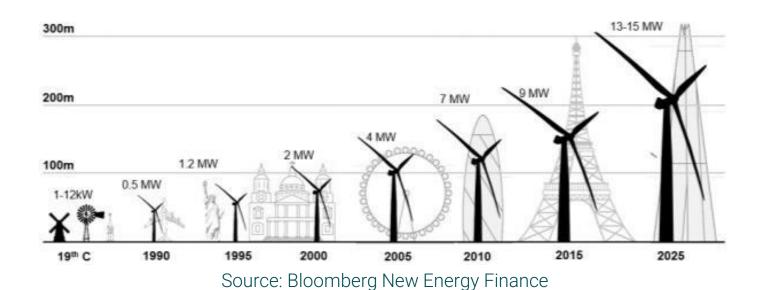


# Trend in wind industry



Increasing demand in renewable energy

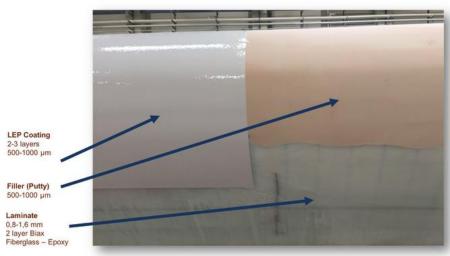
- → Blades length >100 m
- → Challenges in production & maintenance on coating

# Wind turbine coating challenges



Leading Edge Protection application

Coating large surfaces with a consistent quality



### BL8 – Wind turbine blades



Coating of wind turbine blade sections 2021

## BL8 – Wind turbine blades



# Why Leading Edge Protection (LEP)?

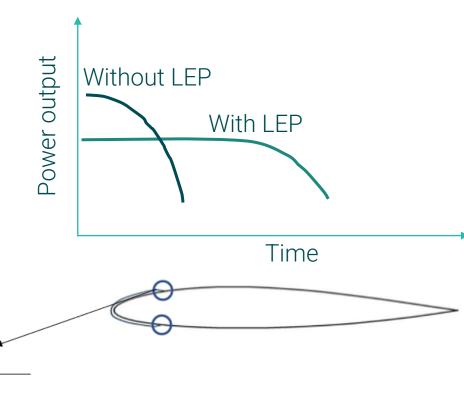
#### Larger turbine blades

- →larger tip speeds
- →more chance of cavitation during rain impact
- →Use of LEP required for maintaining performance of the blade



#### AIRTuB WP5

 LEP addition results in aerodynamic disturbance → reduces the initial the wind turbine performance → maintains performance over longer time



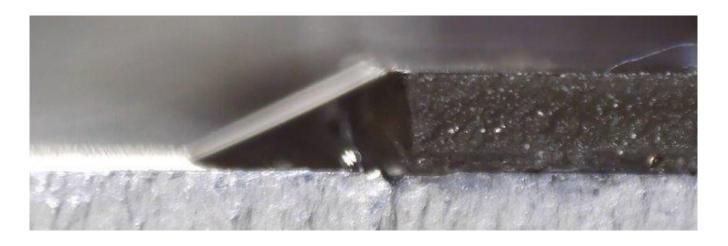


Goal: develop a coating application head that can apply an aerodynamic transition from the LEP to the blade

Problem area

# Results from different strategies





# Finished wind tunnel



# Airtub project

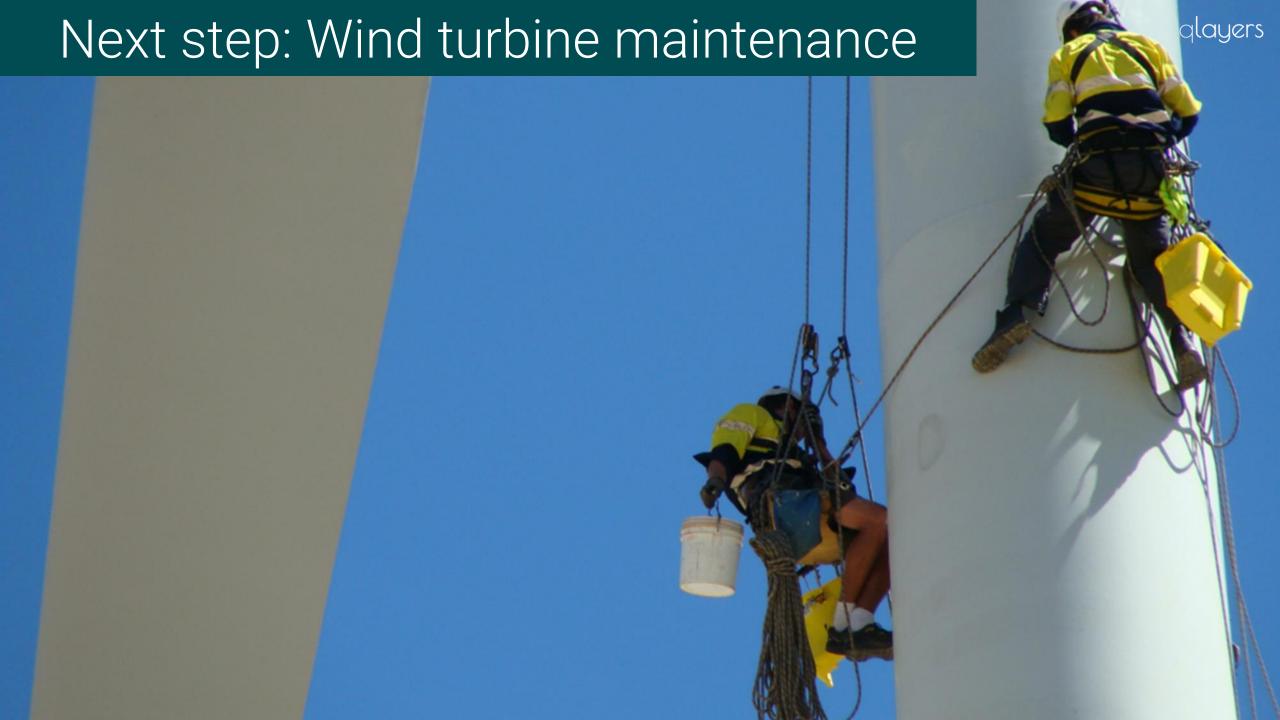




#### Current status WP5

 Wind tunnel tests are being performed at LM wind power based on an optimized transition







# alaces

Help us to apply the coatings of the future.

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