

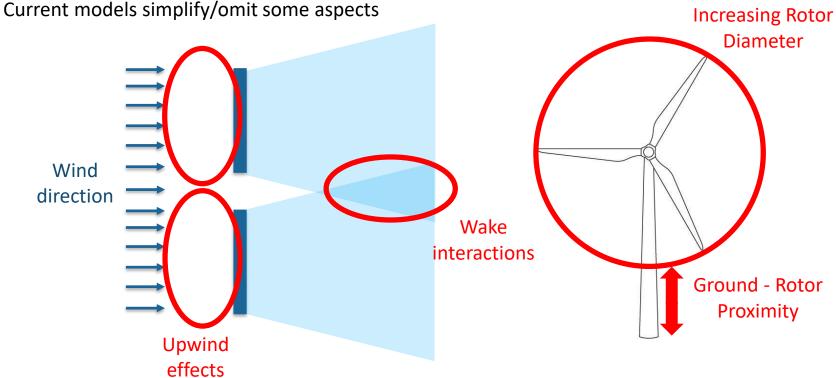




# Onshore wake modelling adjustment (Blockage)

Ivar Rush, Winterwind 2020

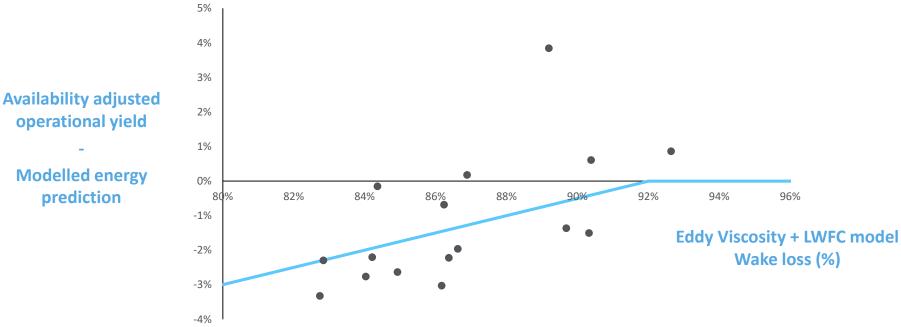
## Why post-modelling wake adjustment?





### K2 Management wake adjustment

End to end validation study containing data from 21 offshore wind farms (report first published 2017)\*



<sup>&</sup>quot;Offshore Yield Prediction – A validation study" – report published May 2017.

2 Management

<sup>&</sup>quot;Offshore Wind – A safe investment" – Poster displayed at Offshore Wind Europe, London, June 2017 and Wind Europe, Amsterdam, September 2017

<sup>&</sup>quot;Offshore Energy Yield Predictions – A validation guide" available from https://www.k2management.com/services/development-support/analysis

#### K2 Management approach to wake adjustment

• Turbine performance: 5% of wakes

+

Wakes: plus 1/3 of all wake loss above 8% (offshore)

Wake: plus 1/4 of all wake loss above 8% (onshore)



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### What improvements are coming?

Complete onshore validation

Higher fidelity modelling methods

