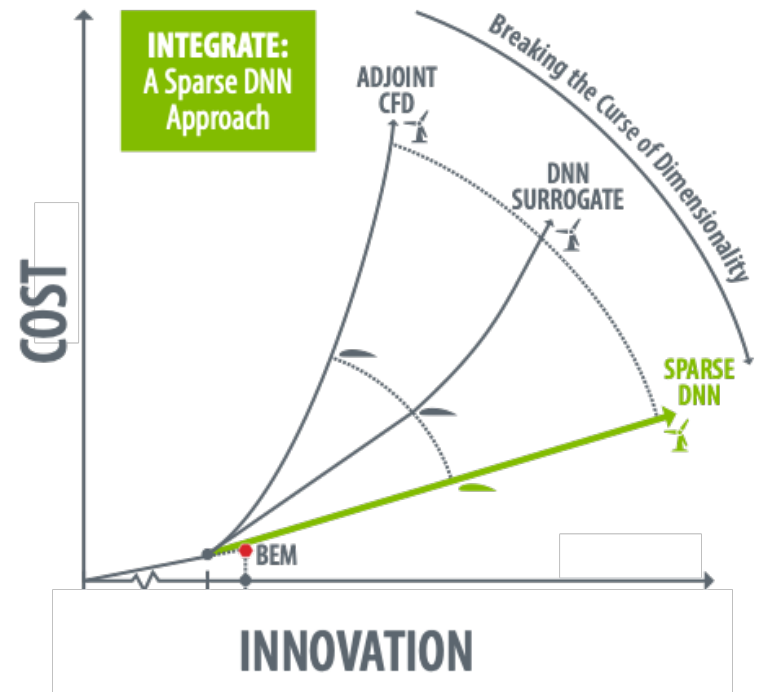


Fast, Accurate, Aerodynamic Design using Invertible Neural Networks

Enabling innovation in wind turbine design using AI technology

- Get new designs with desired performance on your laptop in under 1s.
- Accelerate time to market by improving early design iterations with more certainty.
- Increase design space exploration for improved performance and robustness.
- Capture complex non-linear aerodynamics in design 100x faster than comparable approaches.



We are developing the next generation of aerodynamic tools for 2D airfoil and 3D wind turbine blade design.

- Leverages a specialized invertible neural network (INN) architecture that learns complex relationships between airfoil or blade shapes and their associated aerodynamic and structural properties
- Trained using data from computational fluid dynamics solver with machine-learning enhanced turbulence models to predict flow separation and stall observed in wind turbine flows.