

FutureBridge

What is?

The real potential of innovation for Wind Energy

Wind Turbines lose up to 6% of their potential output every year

70% of Installed capacity is out of warranty - passing **cost and risk** directly to operators

Inefficiencies in turbine operations can cost **\$120,000 per turbine** every year

O&M costs alone are estimated to be up to **\$12.5 million per GW** per year

All vendors claim they can reduce costs and risks to improve revenue

- ❖ What are we missing?
- ❖ Are claimed benefits real or hype?
- ❖ How do we cut through complexity to see the full picture?
- ❖ What's the roadmap to deliver the right solutions?

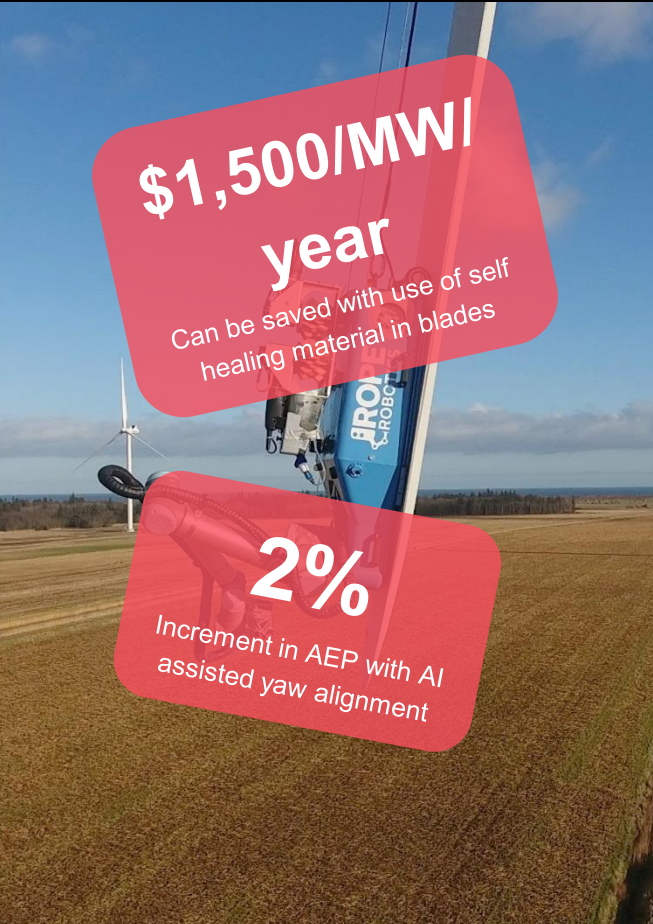


\$1,500/MW/year

Can be saved with use of self healing material in blades

2%

Increment in AEP with AI assisted yaw alignment



What if?

We could lower downtime from days to hours?

How do we build the right solution from the myriad of possibilities?

How can we be sure we're making the right choices at the right time?

- ❖ Fully AI driven O&M
- ❖ Automated MRO
- ❖ Additive Manufacturing
- ❖ 4D Printing
- ❖ Autonomous Inspection & Repair
- ❖ Next-gen smart materials
- ❖ Sensor based CBM...

How can we tap into innovations from allied industries like mobility, defense, aerospace, and advanced manufacturing?

What now?

The BIG questions

If Innovation is the answer:

- ❖ Who will emerge to disrupt the industry?
- ❖ When will the promised high-potential solutions be ready?
- ❖ What is the predicted ROI and time to value?
- ❖ Which partners will establish themselves as the most reliable and trusted in the industry?
- ❖ How can we optimize and transform our current investments for greater impact?



About FutureBridge

FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective to keep you ahead of the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.