



# Siemens Gamesa and the business challenge

# The challenge

- All 5000 blades must go through stringent quality assurance process
- Flaws in a blade could be catastrophic
- Manual UT scan takes seven hours/blade





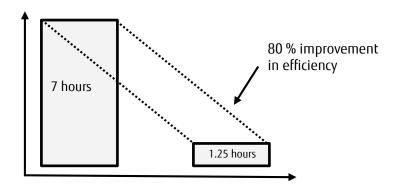
# The benefits for Siemens Gamesa



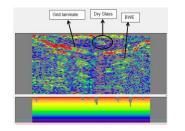
Evaluation of each NDT scanning reduced by 80% equal to a saving of almost 32,000 manhours/year

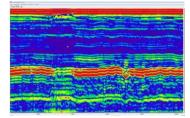
Flexible licensing enables the customer to scale as it grows, with minimal upfront investment

"By adopting Fujitsu's ground-breaking AI technology it takes only a quarter of the time previously required to perform an inspection" Kenneth Lee Kaser, Head of SCM, Siemens Wind Power









# Fast implementation with FUJITSU XpressWay

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- Business case validated early to confirm benefits
- Quick and simple to prove for any potential application
- Low risk phased rollout
- Continuous improvement through proactive support

Candidate Use Case Identification **Outline Business Case** Discover åŝ Step 1: Feasibility **Continuous** study (~1 week) XpressWay **Improvement** Evolve Prove Step 2: Proof of **Adapt & Extend** Value (~3-4 weeks) **Apply Configuration & Test** Pilot

"After contract negotiations, the project itself moved really rapidly, taking just three months to develop the application and algorithms," Søren Rahmberg, Siemens Gemesa.

# FUJITSU Advanced Image Recognition

# Key Features





## **Exceptional Accuracy Levels**

• Image Pre-Processing • Combines multiple latest Deep Learning frameworks



#### **Extensible Co-Creation Framework**

• Modular architecture • Adaptable for specific requirements • Expert Al Services



## **Quick and Simple to Train**

• Model learns from small training sample • Extensive training sub-system



### **Interoperation with Customer systems**

• Secure API • Integration with any imaging system



# **Powerful Image Visualisation**

• Enables fast and effective results analysis • Simple mark-up of images for training and review



#### **Fast Return on Investment**

Prove very quickly using customer data
Start small and expand

## Multiple data source





shaping tomorrow with you