

Automatic Wind Turbine Blade Inspection

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Overview

1 Motivation

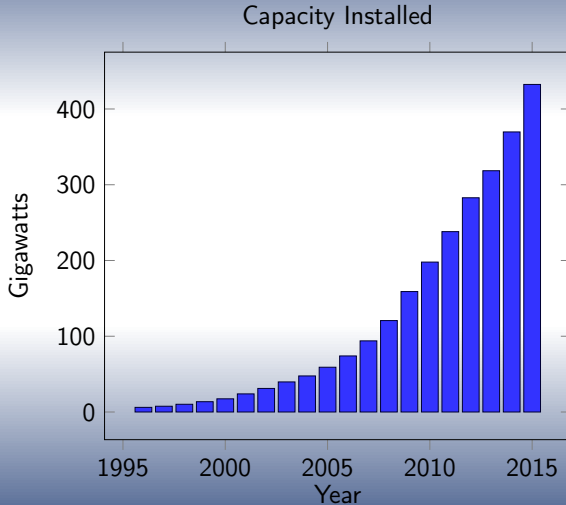
1. Capacity installed
2. WTG Blade Faults
3. Difficult to inspect

2 The idea

3 Questions



Wind Energy Capacity installed today



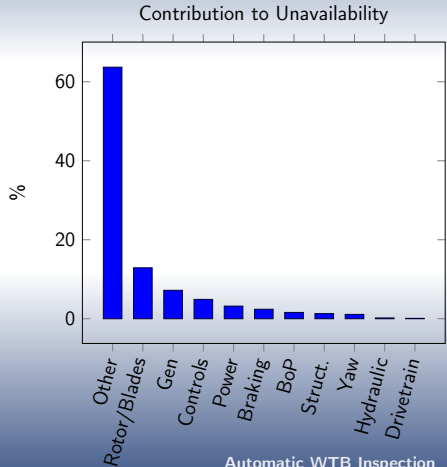


Blade Faults and Unavailability

Most common faults of blades:

- Delamination
- Fatigue
- Lightning damage
- Cracks
- Lack of glue
- Others

Unavailability per system:





Inspections nowadays

- Mainly visual from the ground, using telescopes
- Unscheduled inspections
- Poor precision and accuracy on the diagnosis



The solution proposed



Questions

Any questions?