**Deloitte.**

**Predictive Maintenance**

Optimize maintenance with Industry 4.0 technologies and advanced analytics.

### Why Predictive maintenance?

**$50 billion**

The cost per year of unplanned downtime for industrial manufacturers.¹

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**INTEGRATION PHASED APPROACH**

1. **Strategy & vision alignment**
   - Design, road map & business case

2. **Pilot implementation**
   - Pilot evaluation

3. **Scaled deployment**
   - The integrator facilitates the PdM journey from conceptualization to execution, including vendor selection.

#### Technology

- Cloud & storage platform
- APM suite
- IoT/edge platform
- Analytics
- Sensor hardware & network

#### Implementation & execution

- Change management & governance
- Visioning & alignment

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**How it works**

**INTEGRATION**

- Visioning & alignment
- Change management & governance
- Technology ecosystem

**PHASED APPROACH**

**Phase 1**

- Strategy & vision alignment
- Design, road map & business case

**Phase 2**

- Pilot implementation
- Pilot evaluation

**Phase 3**

- Scaled deployment

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### Why Deloitte?

- **Risk lowering:** The ability to better estimate, design, and operationalize systemic risk.
- **Speed & scale:** Rapid development and implementation of custom predictive analyses.
- **Advanced analytics:** Data-driven, predictive, and optimization-driven for actionable insights.
- **Unique skills:** The right balance of skills to achieve the architecture.
- **Accelerators:** The adaptable solution for using IoT to optimize performance.
- **Fused approach:** A horizontal capability to create a modular, scalable, secure solution.
- **Change management:** Innovation and time to market for long-term sustainability.

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**Benefits of predictive maintenance**

- **5-20%** reduction in facility downtime, lowering up capacity
- **10-30%** reduction in material costs with no reduction in carrying costs
- **3-5%** reduction in new equipment costs
- **5-20%** reduction in facility downtime, freeing up capacity
- **50%** reduction in inventory growth

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**Deloitte’s approach to predictive maintenance** is grounded in more than 15 projects in the smart factory and predictive analytics domains.