Step 4a Choose your vendor.

**The Quick-Start Guide to**

**Predictive Maintenance 4.0**

**WORKSHEET 4a**

# **Narrow the field.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **High-level requirements** | | **Details** | **Candidate vendors** | | | | | |
| System as a whole | | | *vendor 1* | *vendor 2* | *vendor 3* | *vendor 4* | *vendor 5* | *vendor 6* |
| Continuous data collection via permanent sensors | *Any system you consider must meet these two requirements to enable predictive maintenance.* | |  |  |  |  |  |  |
| Automated analysis based on AI (machine learning) |  |  |  |  |  |  |
| Sensors & communications hardware | | |  |  |  |  |  |  |
| Works in our production environment | (submerged, ATEX zone, heat/dust, …) | |  |  |  |  |  |  |
| Meets our regulatory requirements | (hygiene, power rating, …) | |  |  |  |  |  |  |
| Meets our information security requirements | (ISO 27001, on-premise storage, ...) | |  |  |  |  |  |  |
| Meets our connectivity requirements | (Wi-Fi, Ethernet, 4G, ...) | |  |  |  |  |  |  |
| Analytics | | |  |  |  |  |  |  |
| Can detect our required failure modes well in advance | (bearing damage, electrical faults, ...) | |  |  |  |  |  |  |
| Can analyze data from our existing sensor systems | (VFD current sensors, temp sensors, ...) | |  |  |  |  |  |  |
| Meets our dashboard / reporting integration requirements | (SAP module, API, standalone, ...) | |  |  |  |  |  |  |
| Other features | | |  |  |  |  |  |  |
| Provides additional proactive metrics | (energy efficiency, power quality, ...) | |  |  |  |  |  |  |
| Suggests corrective actions with fault alerts (“prescriptive”) |  | |  |  |  |  |  |  |
| Provides root cause analysis |  | |  |  |  |  |  |  |

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**Predictive Maintenance 4.0**

**WORKSHEET 4a**

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