



eCDPM

Enhanced Condition Data Point Monitoring

24/7 monitoring technology that drives reliability and efficiency gains



Experience In Motion

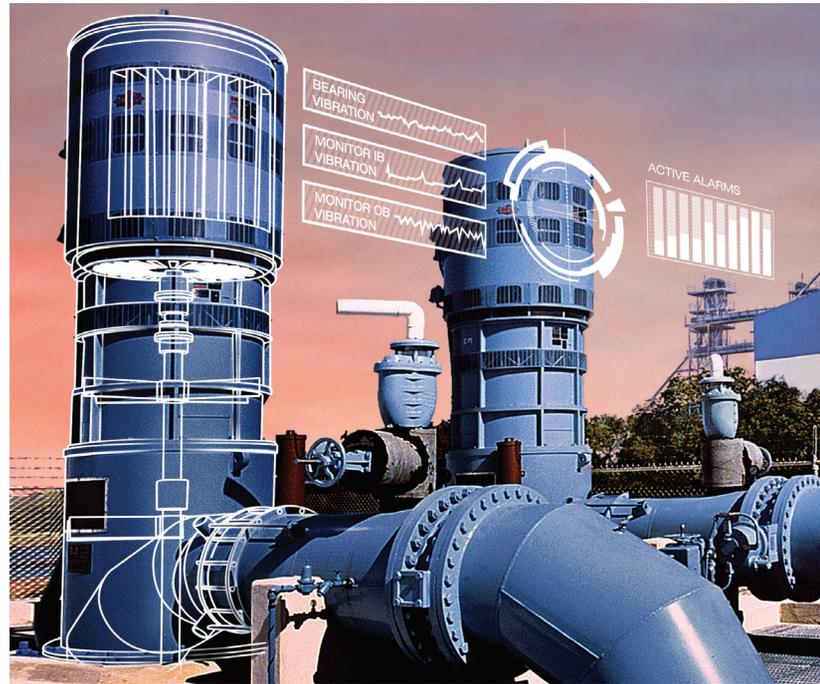
Supercharge your reliability program with 24/7 monitoring

With *enhanced* Condition Data Point Monitoring (eCDPM) from Flowserve, you'll always know the condition of your rotating equipment. Combining the 24/7 monitoring capability of IPS Wireless™ technology with traditional route-based condition data point monitoring (CDPM) programs, eCDPM enables great strides in equipment reliability as well as resource and process efficiencies.

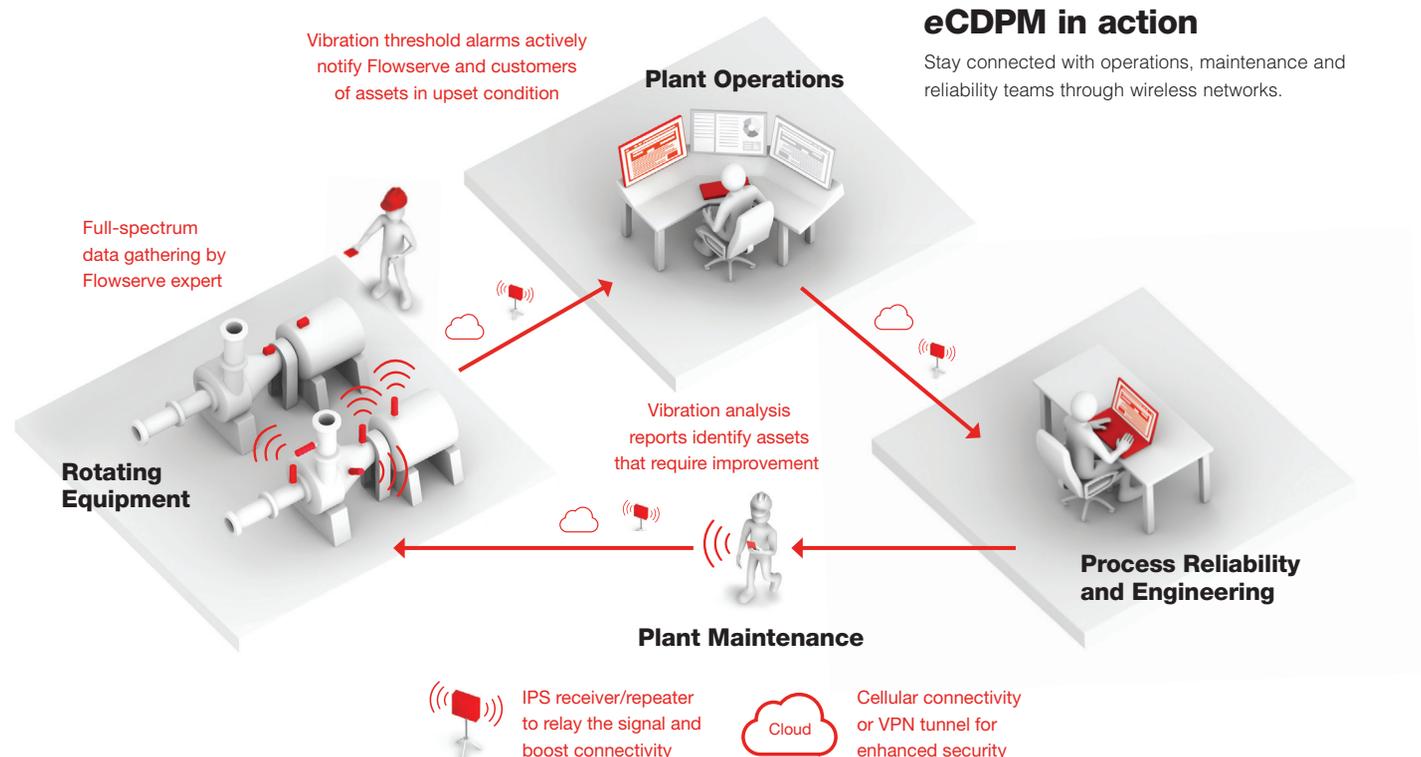
The regularly scheduled site walk-arounds and full-spectrum data analysis of traditional CDPM programs are still critical elements of eCDPM. But, its 24/7 data collection and trend analysis make the process much more effective and impactful. Logged data and trend analysis help make informed decisions about plant-wide reliability improvements. Full-spectrum vibration analysis reports provide maintenance and reliability teams with improvement recommendations that increase mean time between failure (MTBF) and process efficiency while reducing total cost of ownership.

IPS Wireless technology is the key

With eCDPM, Flowserve IPS Wireless sensors are deployed to continuously monitor equipment vibration levels. Data is streamed to Flowserve IPS reliability software for analysis. If a potential problem is detected, the system generates an alarm signaling that inspection is needed. Flowserve technicians



collect full-spectrum vibration data only on assets that are in active alarms during routinely scheduled site visits. This enables operations and maintenance the abilities to focus their efforts and maximize impact.



A reliability solution from your reliability partner

With IPS Wireless sensors providing 24/7 real-time vibration monitoring of rotating equipment, your site personnel only need to physically access equipment that are in active alarm states. This early alarm notification provides your teams ample time to evaluate problems, assess if a Flowserve technician is needed on an emergency basis, and make maintenance decisions that resolve problems quickly before failure occurs.



Rapid resolution and long-term planning

- **Active alarm notifications** employ IPS sensors which continuously identify operational issues, such as when a specific asset is being overstressed. The notifications provide data on the type of upset condition the asset is experiencing and recommendations on how to solve the issue.
- **Scheduled vibration analysis** involves deeper examination of assets identified by the active alarm notifications, allowing you to make informed decisions. Needed repairs or upgrades are recognized and can be scheduled, helping your plant save money through preventive maintenance and lean spare parts inventories.



Focused and safe

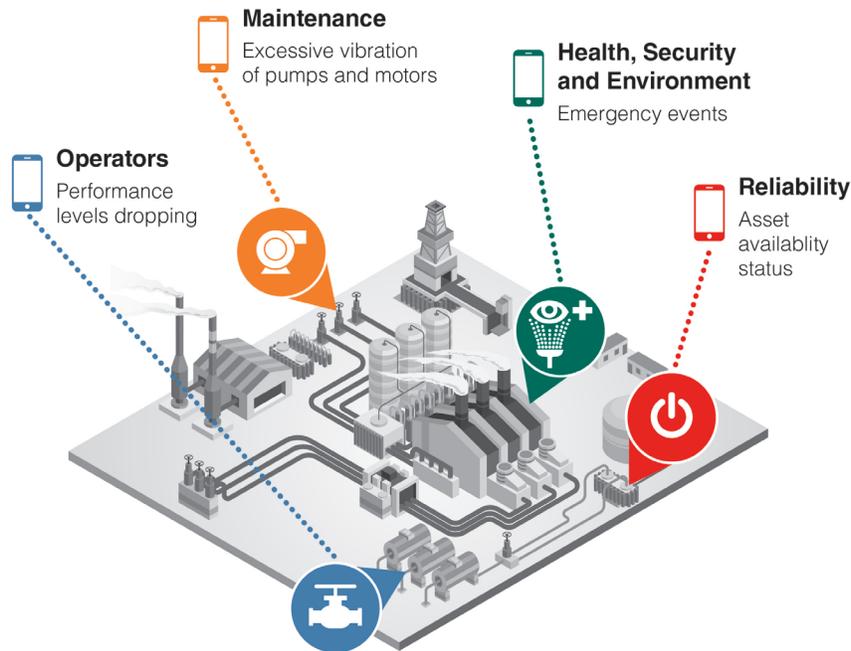
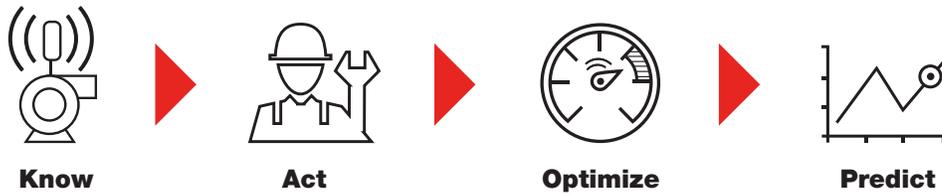
- **eCDPM** enables technicians to use their time more efficiently by responding to “actionable alerts” for clearly identified rotating equipment problems — preventing time wasted analyzing healthy equipment.
- **eCDPM** eliminates the need for technicians to enter hazardous areas and remove guards to collect data when equipment is still in healthy condition.

Resource and cost efficiencies

- Because **eCDPM** reduces equipment failures and downtime, plants can minimize both unplanned maintenance costs and lost production.
- **eCDPM** improves overall resource efficiency by empowering technicians to focus on critical tasks on assets that require attention.
- With **optional** Flowserve QRC services, expert QRC teams are on call to deal with complex issues, emergencies or off-hours support.



Accumulation of Knowledge



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