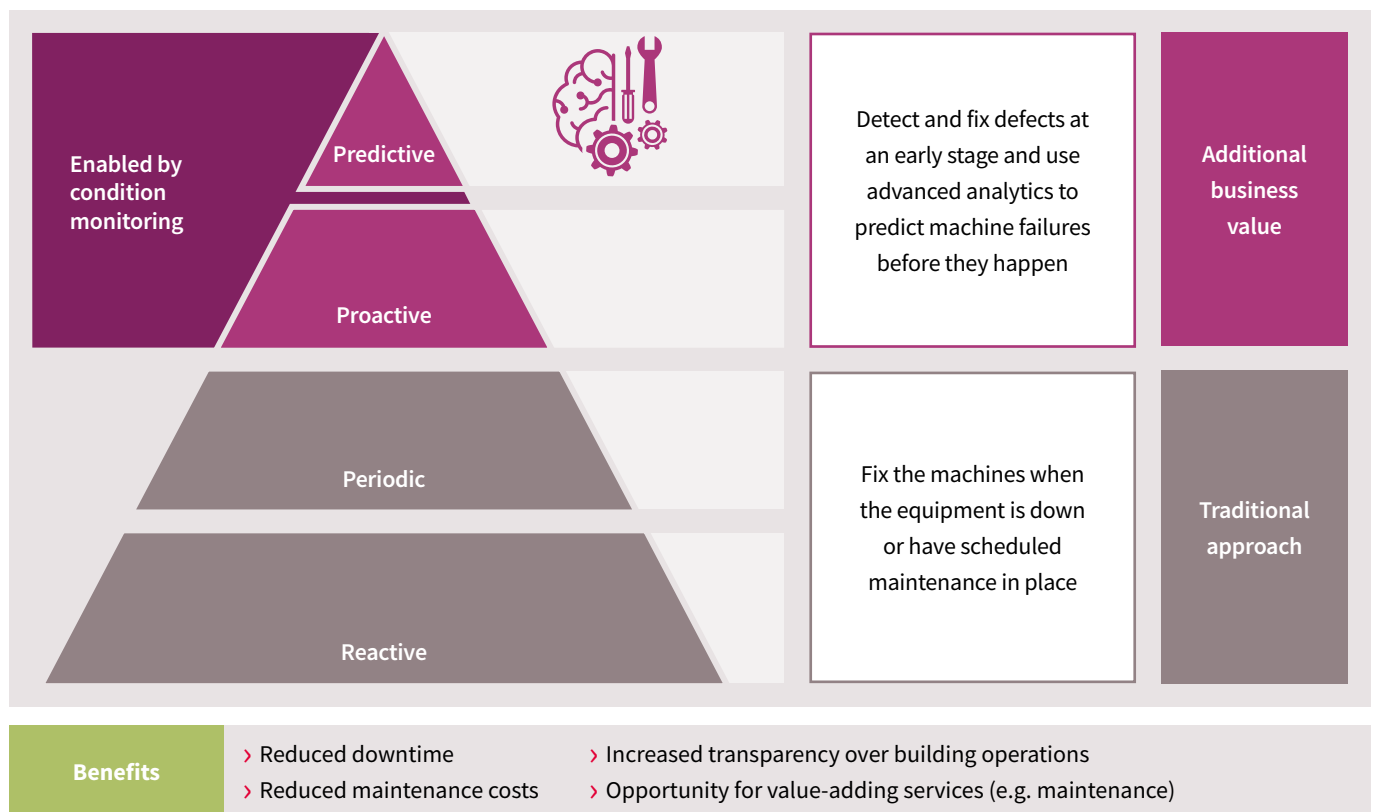




## Application brief

# Condition monitoring and predictive maintenance for smart buildings

Failures of devices inside a building can lead to severe operational disruptions, resulting in higher costs and discomfort for its occupants. With predictive maintenance, this can be avoided in truly smart buildings. Predictive maintenance is a data-enabled maintenance scheme. It monitors the condition of equipment in real time and schedules maintenance before failures happen.



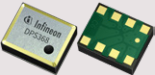










## Infineon products

Infineon offers a broad range of accurate sensors, microcontrollers for data processing, highly efficient power semiconductor solutions, and embedded security ICs.



## Infineon's offering for condition monitoring and predictive maintenance

Infineon's portfolio of accurate **sensor products and microcontrollers** enables condition monitoring and predictive maintenance in a variety of applications including **HVACR equipment**. Additionally, Infineon has a long tradition in offering innovative intelligent power modules for motor drives in air conditioning.

	XENSIV™ Barometric Pressure Sensor DPS368	Air flow measurement at filter
	XENSIV™ Magnetic Current Sensor TLI4971	Current measurement at fan and compressor
	XENSIV™ 3D Magnetic Sensor TLI493D-A2B6	Position monitoring of components
	XENSIV™ Hall Sensor TLE4964-3M	Open/close lid detection
	XENSIV™ Double Hall Sensor TLI4966G	Speed and direction monitoring of components
	XENSIV™ Linear Hall Sensor TLE4997E2	Vibration monitoring of components
	XENSIV™ Industrial Radar Sensor BGT24LTR11	Touchless position, vibration and overall device monitoring
	XENSIV™ 360° Angle Sensor TLI5012B E1000	Position detection of rotating component
	XENSIV™ MEMS Microphone IM69D130	Noise and sound monitoring at motor and compressor
	32-bit XMC™ Industrial Microcontroller XMC4700/XMC4800	Data processing and Wi-Fi connectivity management – FreeRTOS-qualified
	OPTIGA™ Trust M	Secured cloud enrollment, encryption and authentication

For further information, visit [www.infineon.com/predictivemaintenance](http://www.infineon.com/predictivemaintenance) or contact us directly

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