Protocol Selection Guidelines by Application

Application	Latency Req.	Energy Priority	Recommended	Reason
Industrial Monitoring	<500ms	Medium	AERIS	Real-time + Scale
Environmental Monitoring	>5s	High	PEGASIS	Max energy efficiency
Medical Vital Signs	<100ms	Low	AERIS/LEACH	Minimum latency
Smart Agriculture	>10s	High	PEGASIS	Delay tolerant
Emergency Alerting	<200ms	Low	AERIS	Reliability + Speed
Structural Health	<1s	Medium	AERIS	Scale + Real-time
Home Automation	<50ms	Medium	LEACH	Small scale