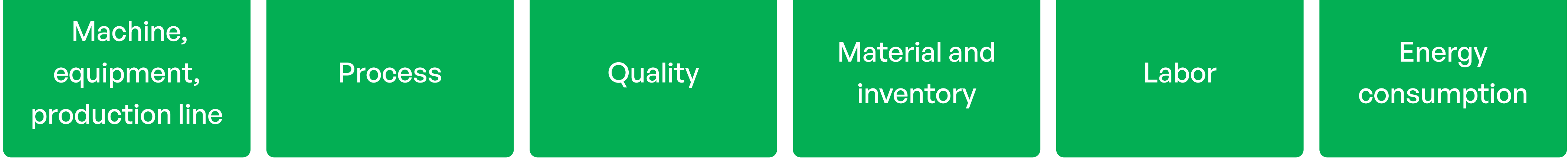
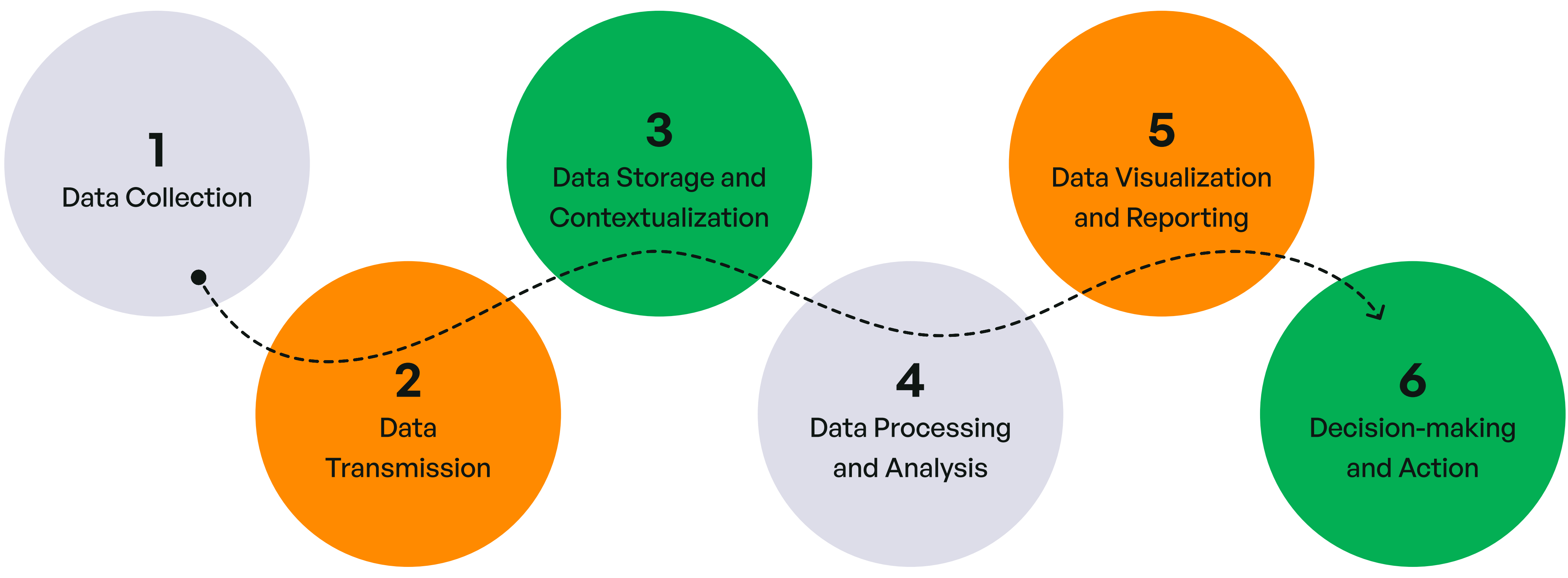


The Ultimate Guide to Production Monitoring

Scope of Production Monitoring



End-to-end Process of Production Monitoring

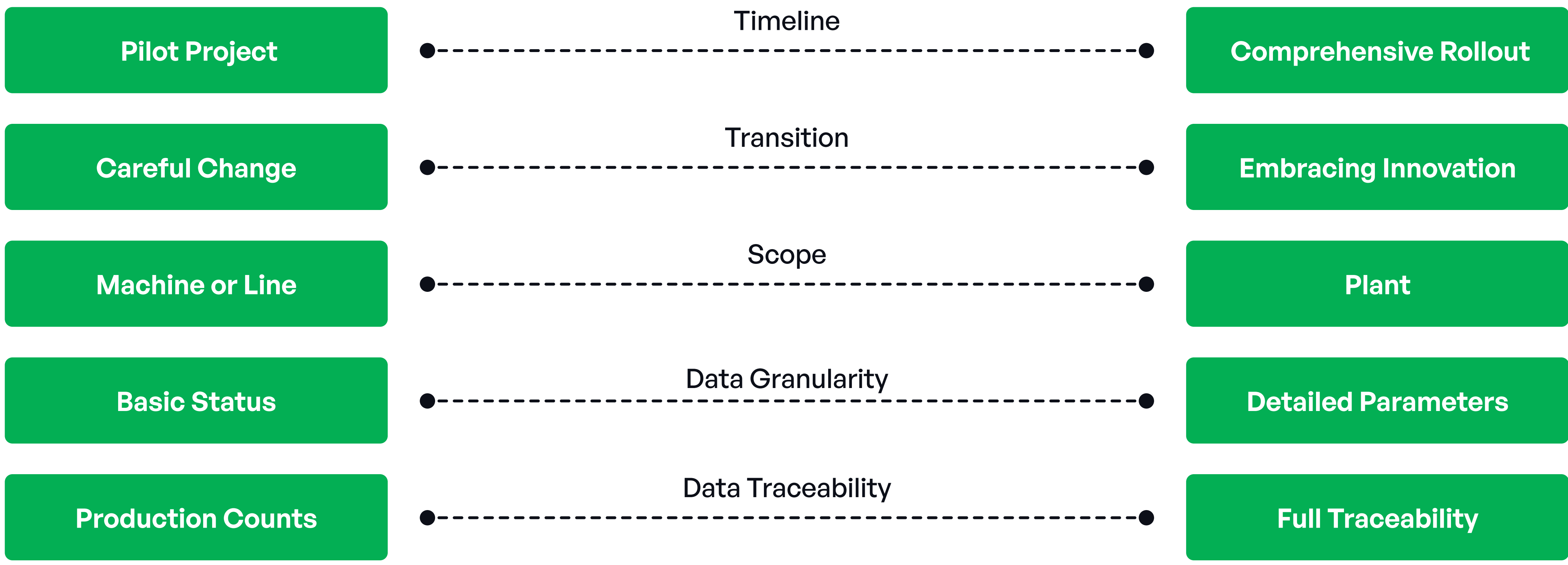


Benefits of production monitoring

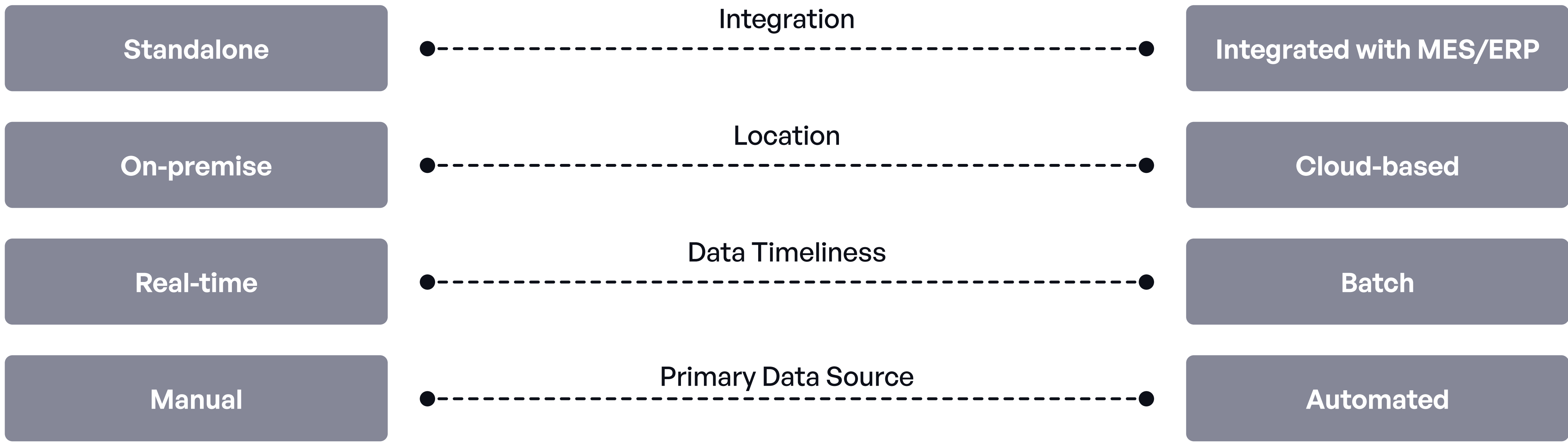
	STRATEGIC	TACTICAL	OPERATIONAL
Problems	Increasing operating expenses and capital expenditure affect profitability and competitiveness, poor resource allocation Stalling digital initiatives, slow innovation leaving company behind competitors Lack of insight into investment impact, no proper data for ROI, difficulty scaling	Difficulty rolling out company-wide initiatives at departmental level, resistance from the shop floor Lack of visibility into production status, difficulty to make decisions or holding teams accountable Lack of predictability and consistency, unreliable data, difficulty to prove what is working and what isn't Delayed problem detection, reactive rather than proactive management, escalating issues	Unexplained downtime and slow cycle times Quality deviations that are not caught quickly Inefficient energy use and material waste Failure to follow safety Degradation of machine condition that goes unnoticed
Solutions	Standardize metrics across sites to highlight which plants need more focus and where to invest Unify systems to simplify digital transformation, retrofit older equipment or sites Standardize KPIs and best practices at group level, and implement clear ROI measurement	Establish baselines and targets, track improvements, standardize definitions and metrics Implement real-time tracking of OEE, downtime, performance metrics, ensure dashboards and metrics are widely accessible and visible Automate data collection, predict failures, track adherence to targets Track metrics in real-time, use predictive analytics and systems with real-time alert capabilities	Immediate visibility into machine status, speed, product counts, collect input from operators Operators and supervisors alerted in case of out-of-spec conditions Material consumption vs. standard tracked in real-time Easy logging of confirmations at key process steps and safety checks Proactive maintenance based on machine status and performance data

Production monitoring implementation decisions

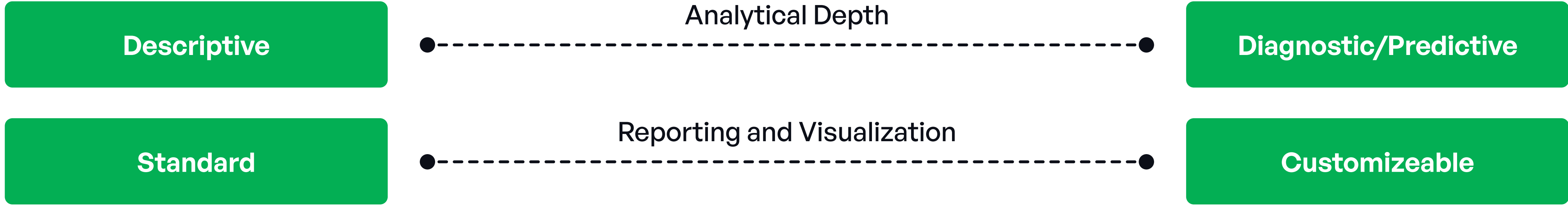
Phase I



Phase II



Phase III



Phase IV

