

Top 15 Smart Factory KPIs

Rank	KPI	Group	Importance ¹	Ambition ²
1	Increase in overall equipment effectiveness (OEE)	Operational	86%	★★★
2	Increase in labor efficiency	Operational	79%	★★★
3	Increase in output	Operational	78%	★★
4	Decrease in costs	Operational	77%	★
5	Increase in quality	Operational	76%	★★★
6	Increase in supply chain resiliency	Supply Chain	73%	★★★
7	Increase in revenue	Marketing & Sales	69%	★★
8	Increase in on-time delivery	Operational	69%	★★
9	Decrease in reported safety incidents	Safety	67%	★★★★
10	Increase in operational resiliency	Operational	64%	★★
11	Increase in customer satisfaction	Marketing & Sales	63%	★★★★
12	Decrease of waste	Sustainability	63%	★★★★
13	Increase in ROE/ROCE	Finance	63%	★
14	Increase in market share / market penetration	Marketing & Sales	59%	★
15	Decrease in inventory levels	Finance	57%	★★
... of 27 measured KPIs in total			Very important Important	



IIoT Solution Development: Build vs Buy-and-Integrate vs. Buy

Data based on 300 IIoT initiatives that finished between 2014-2022



Note: *In many IIoT scenarios, a pure "buy" IIoT solutions do not exist in the market

Source: Microsoft Digital Operations Signals Report – July 2023, IoT Analytics Research 2023, based on survey of 300 IIoT decision makers - We welcome republishing of images but ask for source citation with a link to the original post and company website.

89% of large companies globally have a digital and AI transformation journey underway
 31% have captured expected revenue lift
 25% have captured expected cost savings

Downtime Specific Cost Estimates:

- Small Businesses: Downtime costs can range from \$137 to \$427 per minute.
- Large Enterprises: Downtime costs can reach \$5,600 per minute or higher.
- Average Cost: The average cost of network downtime is around \$5,600 per minute.
- Hourly Cost: Some studies estimate that a single hour of downtime can cost businesses over \$1 million.
- Industry Examples:
 - IT: \$5,600 per minute
 - Auto: \$50,000 per minute
 - Manufacturing: \$260,000 per hour
 - Enterprise: Over \$1 million per hour
 - Media: \$90,000 per hour
 - Healthcare: \$636,000 per hour
 - Retail: \$1.1 million per hour
 - Telecommunications: \$2 million per hour
 - Energy industry: \$2.48 million per hour
 - Brokerage service: \$6.48 million