

Plant of the Future

Disruptive technologies are transforming process manufacturers.

TOP 4 CHALLENGES

1

MANAGE

large-scale, capital-intensive operations



2

MAINTAIN

high quality to maximize yields



3

OPTIMIZE

equipment performance to improve productivity and ROI



4

COORDINATE

supplier activities with production schedules and customer requirements



Disruptive tech can represent risk. But it also helps solve challenges.

90%

of process execs say their companies are vulnerable to disruptive technologies.

High-tech goes mainstream in process manufacturing

Top MANUFACTURING tech implemented

- Production automation
- Smart devices, embedded machine intelligence, IoT sensors
- Machine learning



Top ENTERPRISE tech implemented

- Cloud technology
- Enterprise resource planning
- Analytics

Making all kinds of gains

Top improvements from MANUFACTURING tech

- Safety
- Security
- Customer satisfaction



Top improvements from ENTERPRISE tech

- Equipment reliability
- Supply-chain performance
- Sales/revenues

MVPs

(most valuable to process manufacturers in the next 3 years)



ARTIFICIAL INTELLIGENCE (AI) 57%

PRODUCTION AUTOMATION 55%

ADDITIVE MANUFACTURING/3D PRINTING 46%

Blueprint for Success

Companywide strategy to evaluate disruptive technologies



Staffing and resources dedicated to evaluating and selecting disruptive technologies



Change-management best practices to implement, train and use disruptive technologies



Source: MPI Disruptive Technologies Study, The MPI Group, May 2019; data from 232 global process manufacturers.

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