Welcome to

Advanced Textiles EXPO

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Exploring the Power, Opportunities, & Trends of Automated Solutions to Keep Up With Demand

Ron Ellis, Product Manager, Lectra

What is “Integrated Automated Manufacturing”?

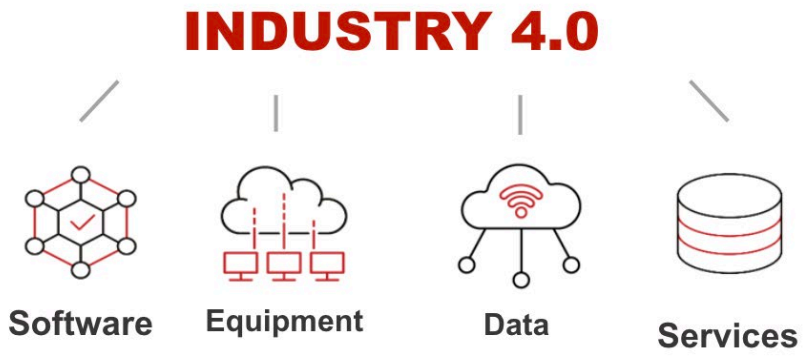
- Smart Machines: Connected machines that can output and receive data related to production and machine health
- CLOUD Services that enable on-the fly decision
- Remote reporting and support
- BIG DATA analytics and Artificial intelligence
- Enables CSR initiatives by tracking power consumption, optimizing operational cycles

Ron Ellis | Lectra Product Manager | Oct. 6, 2019

“IOT” Internet of THINGS

- An eco-system of devices and physical objects that can exchange data over a network without any need for human intervention

- IOT solutions can analyze data and relay information about equipment for predictive maintenance, helping to minimize machine downtime, errors and waste.



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Cloud computing

- Cloud technology is no longer just about on-demand data storage and computing, but also providing enough accessibility to facilitate sharing and teamwork while ensuring data privacy and security.
- Immediate updates to software, enhancements and services, without needing local “desktop” applications to be scheduled for local updates. You are always on the latest version
- Software as a Service (SaaS) enable pay a you go affordability.

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Big data analytics

- Having to handle large volumes of data coming from all parts of the supply chain is a huge challenge. Modern cloud based solutions help to consolidate, analyze and clean business insights from this data.

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Artificial intelligence (A.I.)

- AI engines compare data to establish “norms”, make recommendations, customize and optimize systems. AI can calculate and compare millions of data points in seconds (think self-driving cars and unpiloted drones)
- Machines now have the ability to copy, automate and optimize processes while being personalized to the needs of the user based on AI inputs/outputs

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Summary

Integrated Automation enables factories to

- Optimize production cycles (do more with less)
- Reduce or eliminate human errors
- Automate non-value processes
- Enable and even automate on-the-fly decisions
- Provide insight to production information, track orders, provide machine health REMOTELY

Questions?

THANK YOU VERY MUCH!

Ron Ellis
Product Manager, Lectra
r.ellis@lectra.com

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See You Next Year
Sept. 24–26, 2024
Anaheim, California

See you next year!

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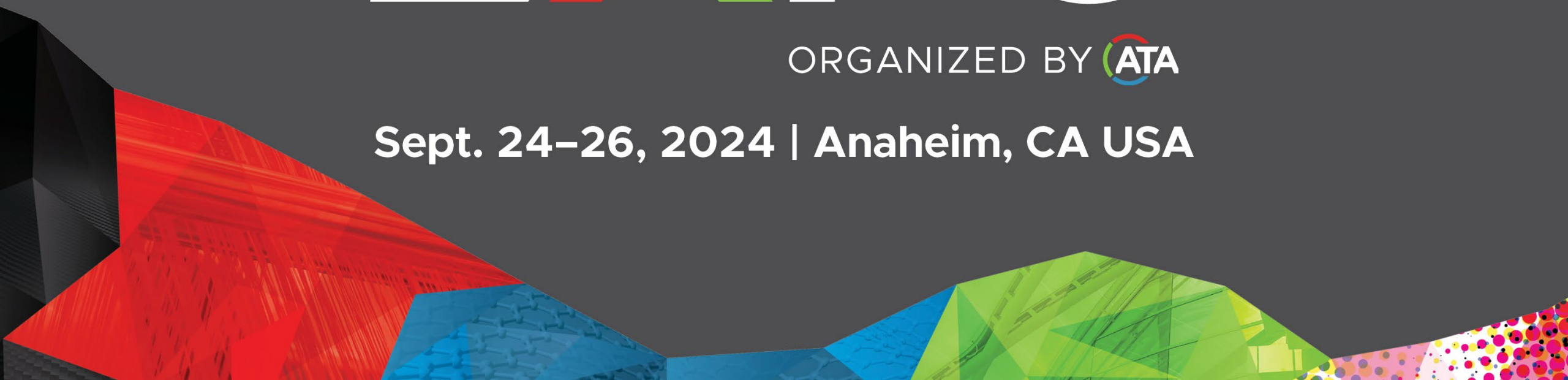
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