

The first half of day five was split into two sessions and it concentrated on the adoption of Industry 4.0 in various sectors. The speaker of the day was Dr. Lux Rao who is currently working as senior director and head solutions at NTT India. The speaker of the session delivered an well rounded session on the evolution in industry 4.0. He gave an insight to the smart technology that can be implemented in an industry and strategy for digital transformation in the sector. He also explained the various steps involved in implementing IOT based manufacturing in major industrial sectors such as automobile manufacturing industry and spoke of the technology stack which works within the set framework for implementing such concepts in the industry. The speech delivered highlighted on the following points :

- Outlook of the manufacturing industry
- Smart factory in digital manufacturing
- Evolution of manufacturing towards concept of smart factory (industry 4.0)
- The 4 stages of IOT solutions architecture
- Technology stack- security & services
- Journey to smart manufacturing
- Smart manufacturing strategy & solution
- Examples of implementation: plant monitoring, utility and energy monitoring, sound analytics etc.
- Case study: smart factory data analytics of packaging line, automobile manufacturer, fault reduction.
- Back to work solutions : social distancing on shop floor
- Smart factory based on international IOT standards

Few snaps from the session:

10:24 55%

REC

The Evolution

Industry 1.0: Hand-crafting tools
 Industry 2.0: Production line
 Industry 3.0: IT & PLC - Robotic cell
 Industry 4.0: Real-time Smart Factory

Lux Rao's screen

10:30 55%

REC

Outlook for the Manufacturing Industry

Digital technologies are driving the Manufacturing industry

Growth Forecast, Visual Factory, Predictive Data Analytics, Connected Factory, Cybersecurity

Lux Rao's screen

10:54 52%

REC

Estimated revenue share

Internet of Things across India in 2020, by industry

Industry	Estimated Revenue Share (%)
Manufacturing	~35%
Transport & Logistics	~25%
Agriculture	~15%
Retail	~10%
Healthcare	~5%
Energy	~3%
Smart Cities	~2%
Others	~2%

Lux Rao's screen

11:01 51%

REC

The scary world of connected devices

Lux Rao's screen

12:26 41%

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Challenge

Costs are high for monitoring and reducing operational efficiency in power train division.

Strategy

Adopt real-time monitoring and reduce operational costs by improving efficiency in power train division.

Results

Significant improvement in operational efficiency of the power train division. Real-time monitoring capabilities to improve manufacturing operations and reduce operational costs.

Automobile Manufacturer improves manufacturing competitiveness for its Power Train division by improving operational efficiency through real-time Plant Monitoring

12:55 37%

Zoom Leave

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Benefits

- Real-time tracking of People
- Geofencing capabilities - alerts
- In-time, out-time & total time spent
- Location accuracy
- Machine Learning Algorithms
- Large area coverage
- Economical and Easy scalable
- QR code scanning for quick registration
- No additional IT hardware required
- Easy & quick Installation

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