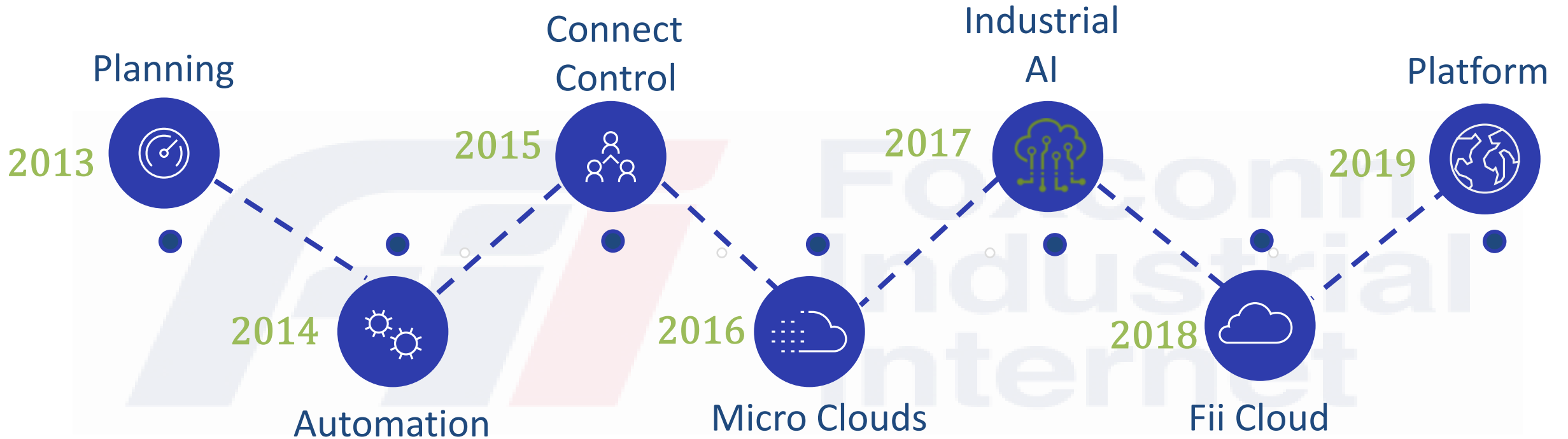




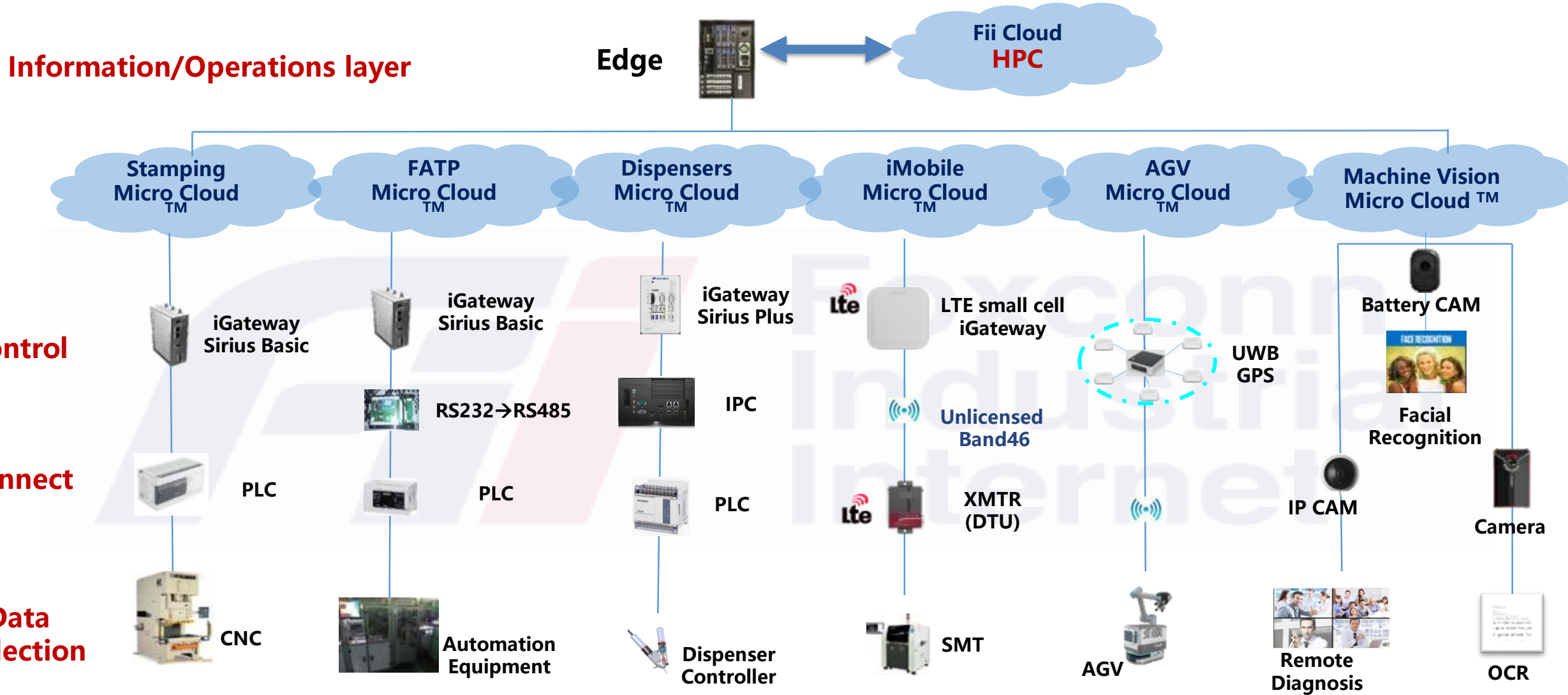
The Journey to Industry 4.0

Richard Vincent
2/27/19

It started simply...



Micro-Clouds (Premise)



Different challenges for different organizations



>1,000,000+
Employees



>70,000+
Robots



>1M+
Cameras and Videos



>100K
Sensors/ Meters installed
in Foxconn's MFG



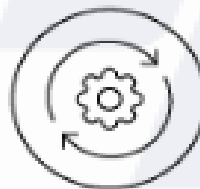
>1,600+
SMT Lines



>170K
CNC/Molding/
Level5 Machines



>10K
Key Component
Suppliers



IoT



ROBOTS



AI



CLOUD COMPUTING



MOBILE TERMINAL

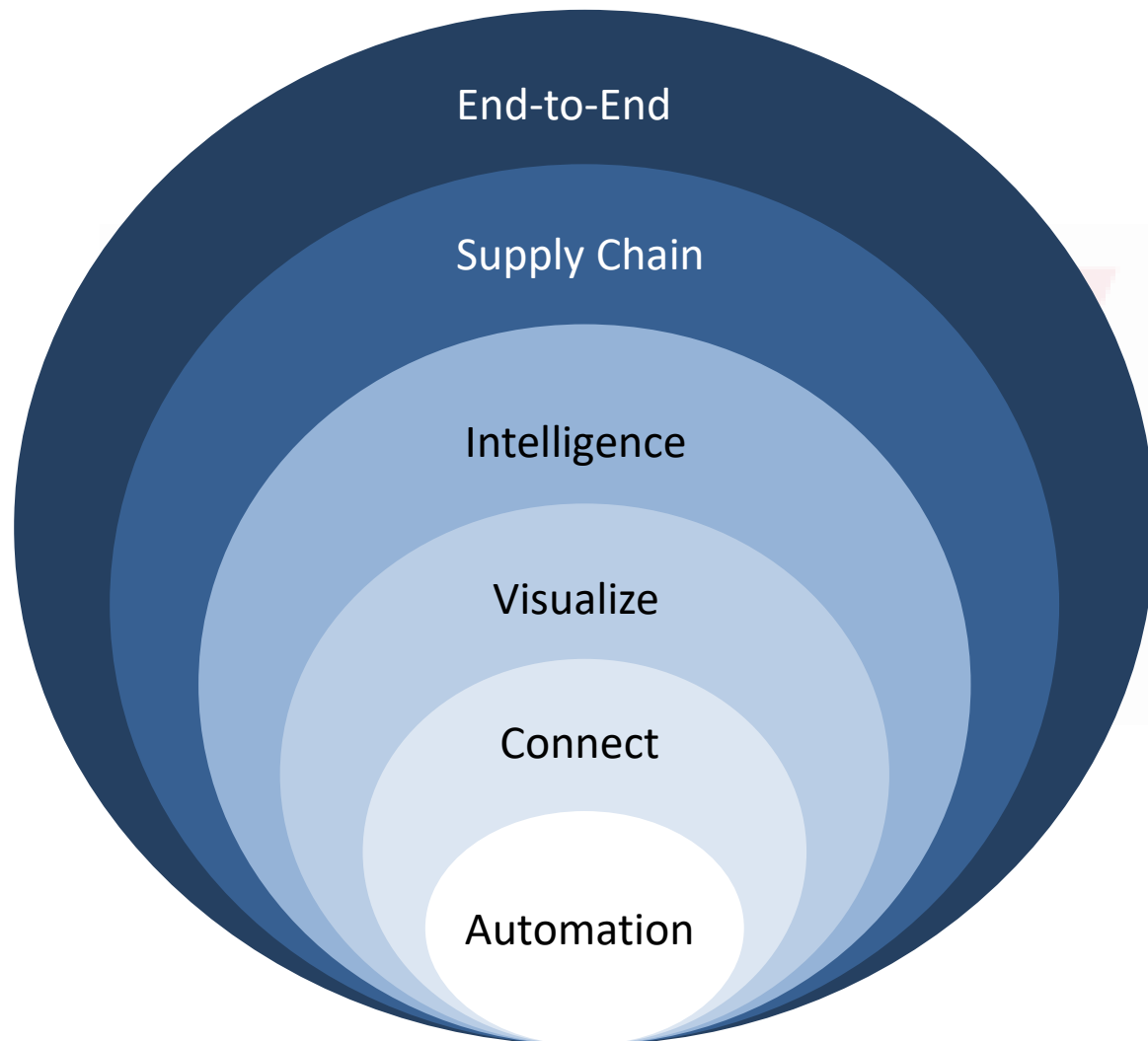


BIG DATA



NETWORK

Improve Operational Efficiencies



One layer at a time ...
but plan for all layers

Think Big ... Act small !!



Lights out Factory



NTF iAI Analysis

- AI Intelligent Sorting
- Intelligent Testing
- Data Uploading System
- NTF Intelligent Decision Making
- Testing Intelligence

92% savings in manpower

iAI Nozzle Maintenance

- Core Layer Construction
- Key Factory Improvement
- Quality and health prediction

75% nozzle life extension

24 hrs → 25 days

Light off Factory

- Supply Chain Intelligence Decisions
- Flexible Assembly
- Surface Mount MFG Platform
- Big Data Analytics

30% increase in efficiency

Reduce inventory cycle by 15%

iAI Assisted CNC Inspection

- Intelligent Inspection
- Hunt Test

8 times increase in capacity

- What problem are you are solving?
- Start with high probability (PoV) Proof of Value
- People and the digital culture. Get in front of it
- Look at the entire ecosystem
- It's a marathon not a sprint