MONETIZING IoT

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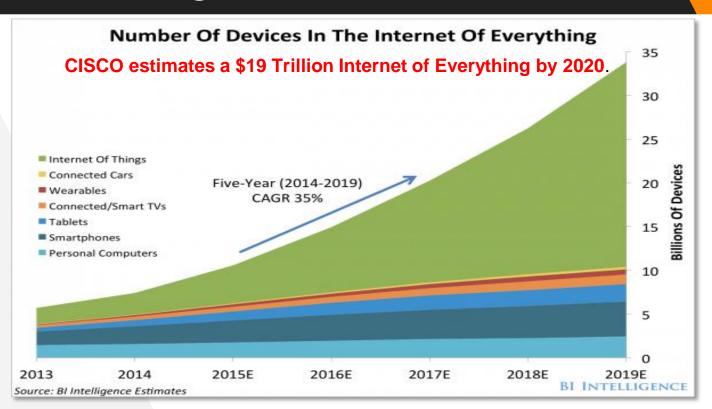


The Convergence of Wireless **Networked Communications,** Cybernetics, Sensors, and Computing to create new value and near boundless opportunities.

The Trillion \$ Tech. Opportunity Cycle

- 40 years ago Personal Computing spawned, and Silicon Valley
- Today the IoT, 5G & FOG computing will change everything with billions of online Things being deployed & Trillions in revenue.

IoT Monetizing Growth= a new KPI



Monetizing Drives new Jobs and Skillsets

Engineering & ICT



Firmware, Electronics,
Controls, Cybernetics,
Appliance design,
Autonomous comms.
Cybersecurity

Business & Management



Chief IoT Officer
IoT Business Mgr
IoT ancillary staff
IoT Marketing

High Demand Skills (source www.Cl0.Com)

- 1. IoT CIRCUIT DESIGN @ 231% growth Year over year
- 2. Microcontroller programming @ 225%
- 3. AutoCAD (Engineering design software @ 216%)
- 4. Machine learning coding algorithms @ 199%
- 5. Security Infrastructure @ 194%
- 6. BIG DATA analytics @ 183%
- 7. Electrical Engineering @ 159%



Monetizing via Education

- Delivery of Applied Training
- Certification with Accreditation



- Examples: M.I.T., COURSERA, KEYSIGHT
- Minimal Prerequisites & Online Delivery

IoT MICRO-ENTREPRENEURSHIP

- Concept Development & Prototyping
- Distribution channels influences design. Think Global
- Limit feature creep. Time to market is critical.
- Business/Service opportunity drives the Tech features.
- Test to failure and achieve robustness & hack defense
- Leverage IoT features into recurrent revenue streams.....

Case#1: IoT LED signage Lighting and Sequencing

IoT Product Differentiation & Monetization

- Very Compact & Weatherproof
- Wi Fi controlled or Standalone
- Single IoT Chip driven, 8 Channels
- Retail Revenue & service revenue
- Customer can alter a LED Sequence via a web page anytime = a small service fee
- Every Customer is 'registered' online.

#2: Battery Regeneration: Auto, Marine, Cell Tower

- Portable 25cm Cube, 628 leased regenerators with IoT
- 25 % return to service = re-certified battery + Warranty

IoT PROVIDES:

- I. IP defense and Global system management
 Science data on every battery regenerated
 Real time Diagnostics & remote access
 Customer usage patterns & service cycles
- Server side analytics to create long term revenue via subscription to the battery failure database across regions. This is a World's first for batteries & big data.
 Can be used for predictive maintenance

Summary: Technology is a net creator of Jobs

- Acquire or contract the competencies and gain experience
- Monetize by becoming IoT employable as H.R. demand outstrips supply
- Monetize by offering support services such as Training,
 Cybersecurity or System Prototyping
- Monetize via Design, Manufacture, and Deployment of your own THINGS, capturing customers with online 'thing' services