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# Smart Films for Internet of Things

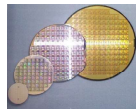
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# Digital Revolution

- **Computing & Communication evolution**
- **Silicon foundries play a big role**

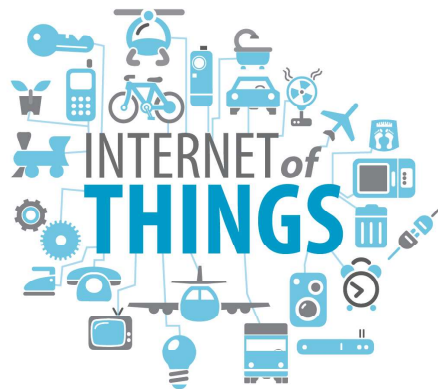
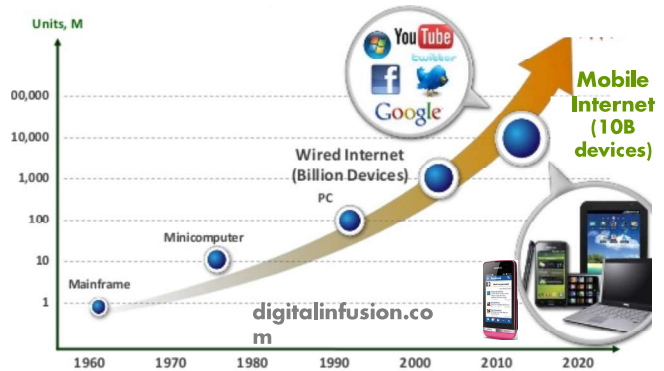


## Internet of Things (IoT)

- Deloitte (2015): 25 billion connected devices (enabled by IoT) in use by 2025
- McKensie (2014): Potential IoT economic impact in 2025 : \$2.7-6.2T

### *IoT Pilot Manufacturing Facility*

A common platform for *wireless, distributed, wearable, biocompatible or disposable devices*



# IoT for ag, food and healthcare

PURDUE UNIVERSITY  
**Discovery Park**

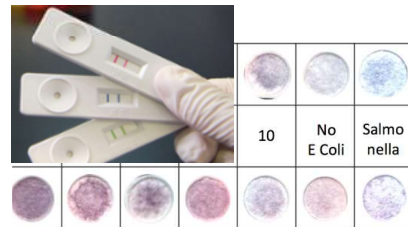
## Precision Ag Sensors



Biodegradable soil or water sensors to measure moisture, pH, nutrient, pollution

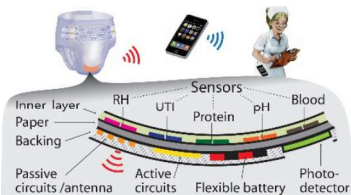


## Smart Food Packaging



Food freshness; Bacteria detection

## Digital Health, Performance Monitoring



Smart wound dressing, Smart diaper, Smart Pill, Sweat sensor

