



Building a smarter future

The Flex advantage

\$25B

revenue

100

sites in over
30 countries

200,000

employees

2,500

design
engineers

50M

sq. ft. of
manufacturing
& services space

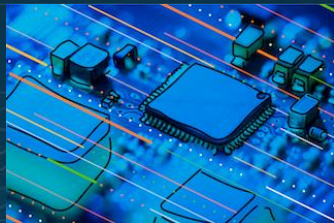
IoT Convergence Across Industries



Flex Connected Living – Industry Expertise



Computing & Security



Sensors & Actuators



Human Machine Interface



Flexible Technologies & Miniaturization



Connectivity

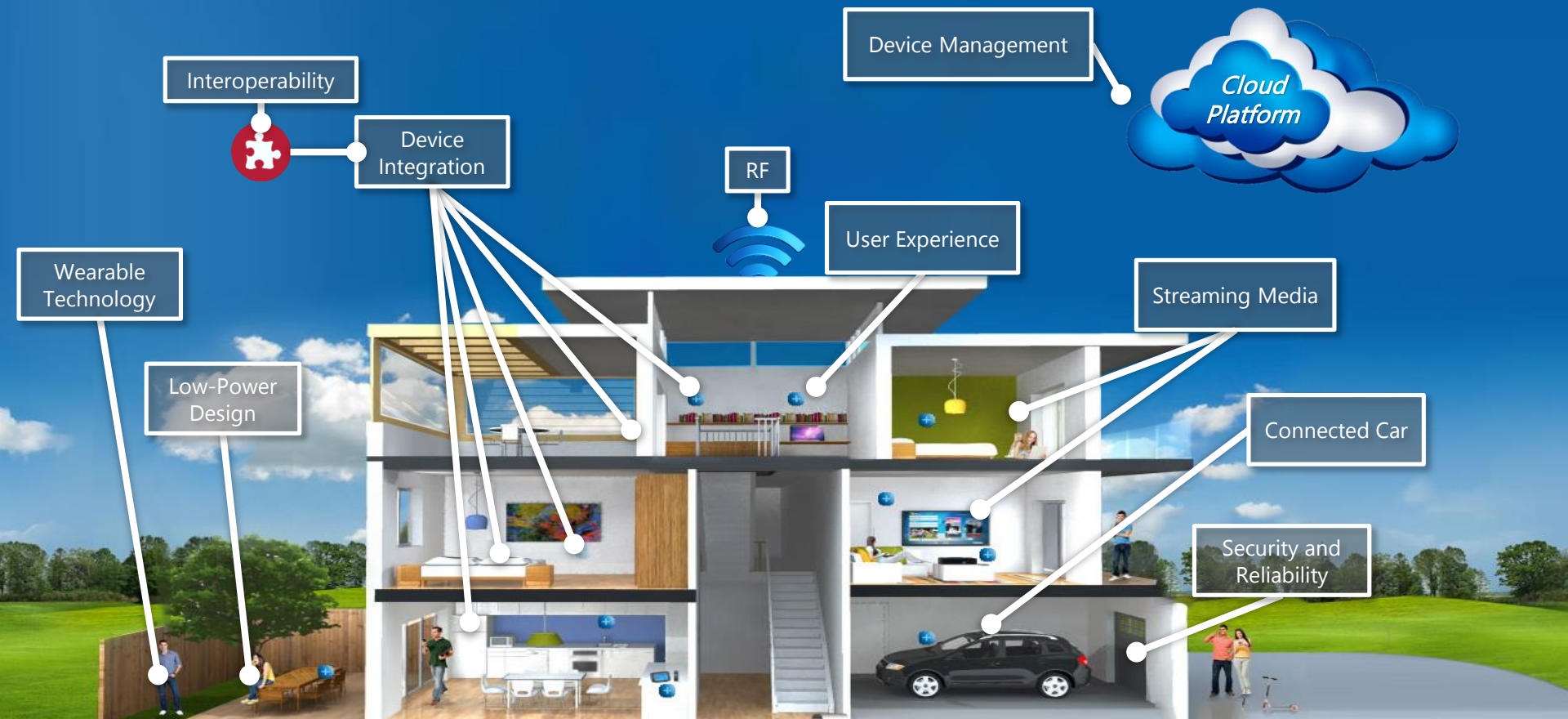


Battery & Power



Smart Software

Flex Connected Living – Industry Expertise



Flex Connected Living – Sketch to Scale™ Services



Proactive Technology Management

Reference Product Designs and Market Roadmaps



Design Conceptualization

Market Experts help develop the best possible technology innovation



Cradle-to-Grave Product Management

Industry leaders provide a seamless transition from concept to factory



Detailed Product Design

World-class cross discipline design teams in perfect harmony

Special



Connected Intelligence

End-to-End Application Platform to bring your product and its data from the bare metal up to the cloud. Available with embedded software, mobile app, administration portal, and data science plugins.



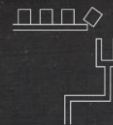
Interoperability Services

*End-to-End Product Ecosystem testing in real world environments like the **Georgia Tech Aware Home***



Device Certifications

Regulatory, Industrial, and Safety certification management including firmware development and test management.



Supply Chain Management

Component supply management and cost optimization leveraging one of the world's largest buying networks



Production Scale

From startups to blue-chip, Flex's global production capabilities are trusted by more innovators worldwide

Flex Connected Living – Sketch to Scale™ Services



Flex IoT Platform – Sketch to Scale™

1 Things

Devices with IoT-Agents



Consumer Health



Connected Home



Fashion



Digital Sport



Industrial



Energy

2 Connectivity

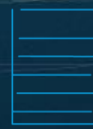
IoT-API's, Protocols &
IoT Connections

3 Data

IoT-Core Cloud



Connect to any
cloud,
application or
data source



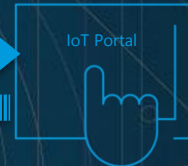
wink
amazon
AirVantage

IBM
nest

Ayla

4 Intelligence

IoT Portals, IoT Engines,
IoT Lens & Analytics



Device
Management
Portal with data
insights and built
in analytics



IoT Lens & Analytics

5 Action

IoT-Apps & IoT-
Commerce



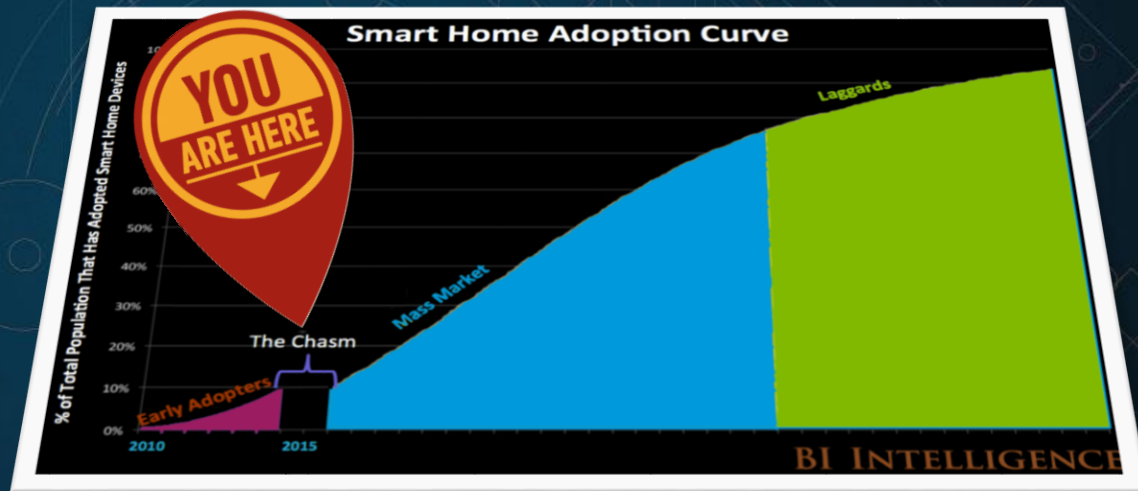
Mobile & Web
Apps and new
product sales with
eCommerce
opportunities



IoT Commerce

flex

Interoperability is the **Key to Product Success**

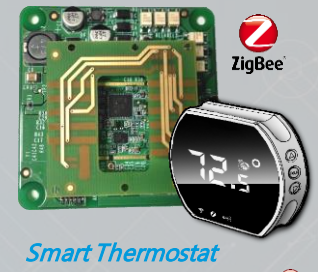


Interoperability is the **Key to Product Success**

- 5,000 sq.ft. 4-story house on Georgia Tech's campus, administered by Flex
- 150+ Smart Home Devices installed and monitored for network performance and device analytics
- Data collected and analyzed with Flex Cloud Management service
- Flex connected living product interoperability testing
 - Flex Gateway ↔ Flex Nodes
 - Flex Gateway ↔ OEM Nodes
 - OEM Gateway ↔ Flex Nodes



Flex Connected Living – Sample Design Portfolio



Flex Sketch-to-Scale™ – Automotive Segment



The Automotive Industry is Shifting...

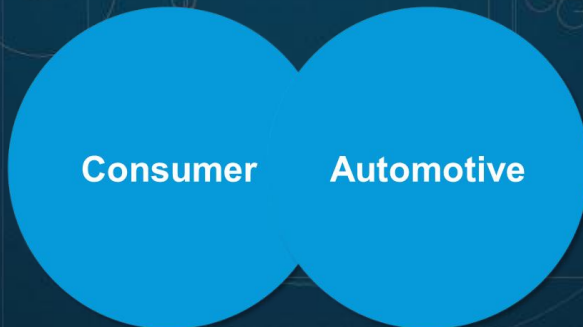
Electric, Connected & Autonomous Vehicles



Innovative Mobility Solutions



...and technologies are converging.



A Fundamental Technology Mismatch



32 month life



137 month average age
(that's over 11 years!)

The Automotive User Experience



2005 BMW 330i



2016 Tesla X

The Automotive User Experience is Changing



2015 Mercedes F 015 concept

Need to keep up with changes in **new products**, **cutting edge technology**, **market changes** and **quickly scale solutions**



Flex Innovation
Sourcing Programs



Technology Centers of
Excellence



Cross Market
Perspective



Services to develop and
scale new products

Inventing cars of the future:

Connected Vehicle Communications Platform

- **Innovation:** Create a V2I system for an OEM
- **Technology:** Flex delivered prototypes within 16 weeks
- **Markets:** A solution including embedded, mobile, and cloud technologies
- **Scale:** Customer now has a solution they can implement



Global Automotive Presence



What Flex brings to the **Connected Car**

Wearable Device Integration

Wearable integration opens the door to countless personalized safety and convenience uses

Medical Device Connection

Can feed user data to the cloud, and help track that data for personal and physician use

Natural Language Voice Recognition

These technologies let users give the car commands in a natural and intuitive way



Overhead console with upgradable hardware

Transforms an often underutilized space into an upgradable computing hub, while reducing weight & costs, and freeing space in the dashboard

Flexible Displays and Force Touch Displays or Keypads

These displays and inputs help the car display and accept information in new and exciting ways

Biometrics

Biometric integration sets the stage for convenient security, and additional safety uses

Flex Automotive connectivity offerings

Telecommunication Module

Cellular Connection
GPS
Vehicle to Vehicle



Smart Antenna

Cellular Connection
Audio Tuner
Vehicle to Vehicle



Displays

Display integration



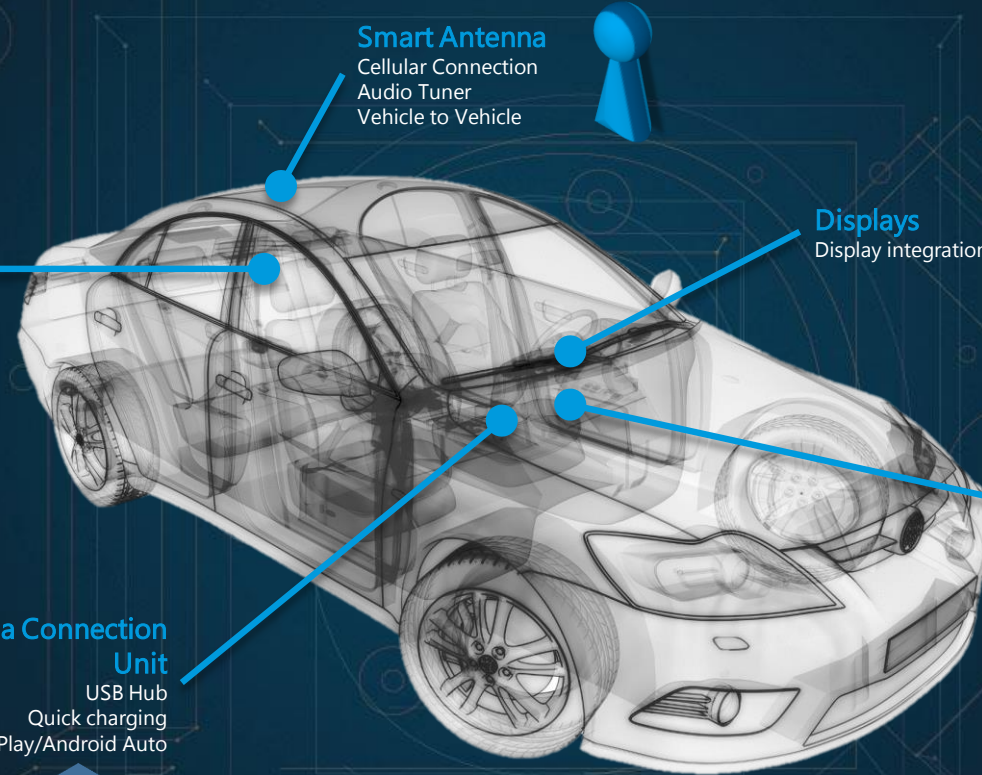
Infotainment

Flexible Business Model
Global Footprint

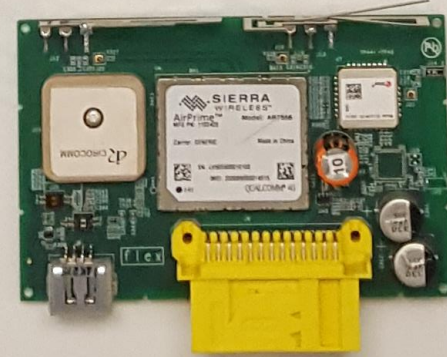


Multimedia Connection Unit

USB Hub
Quick charging
Apple CarPlay/Android Auto



Flex in action – TCU Development



Flex Telematics Box

