

## Feel the difference





# Jim Buczkowski Ford Henry Ford Technical Fellow & Director Electrical and Electronics Systems

Research and Innovation

## Russia and Ford - A Rich History

- 1907 First Ford dealer in Russia opens in St. Petersburg
- 1932 First Ford Model-A produced at new GAZ plant
- 1996 Ford opens sales office in Moscow
- 2002 Start of production for the Ford Focus



- 2003 Focus begins 7-year run as best-selling foreign vehicle
- 2006 Ford Vsevolozhsk produces its 100,000th Russian-built Focus
- · 2007 Ford is Russia's best selling foreign brand in
- 2009 Ford starts production of Ford Mondeo near St. Petersburg
- 2010 There are 120 points of sales & service in 77 cities of Russia
- 2011 All-new Ford Focus goes into production on July 18
- 2011 Ford announces Sollers JV to manufacture vehicles, produce engines and operate a stamping facility in Russia

## Russia and Ford – A Rich History















Automotive Case Study



In 2005, with competitive pressures mounting and a declining economy Ford needed to find a differentiator; Quality was no longer the main reason to select a brand

#### Consumer Electronics Pace of Change



Apple iPod, iPhone, iPod Touch, iPad



## Over 15 Billion iTunes Song Downloads

Over 18 million songs available

363,000 ios devices sold Per day

#### Apps



January 2011 - the 10 billionth app was downloaded from Apple App Store

July 2011 - 200 million iOS users have downloaded over 15 billion apps from its App Store;

May 2011 - Apple approves its 500,000th app

### Smartphone Growth Market Research

- In 2010 there were 5.3 Billion mobile subscribers (77% of the world population) – 2015 projected to be 7.7B.
- By the end of 2011 over 85% of handsets will be able to access the mobile internet.
- More than 200M active users (40 percent) accessed <u>Facebook</u> through mobile devices in 2010.
- More than 6 Trillion <u>SMS messages</u> sent in 2010, expected to exceed 10 Trillion by 2013.
- In 2010, there were 10.9B <u>app downloads</u> and it is estimated to increase to 76.9b by 2014.

## The phone is the center of peoples connectivity, not the vehicle







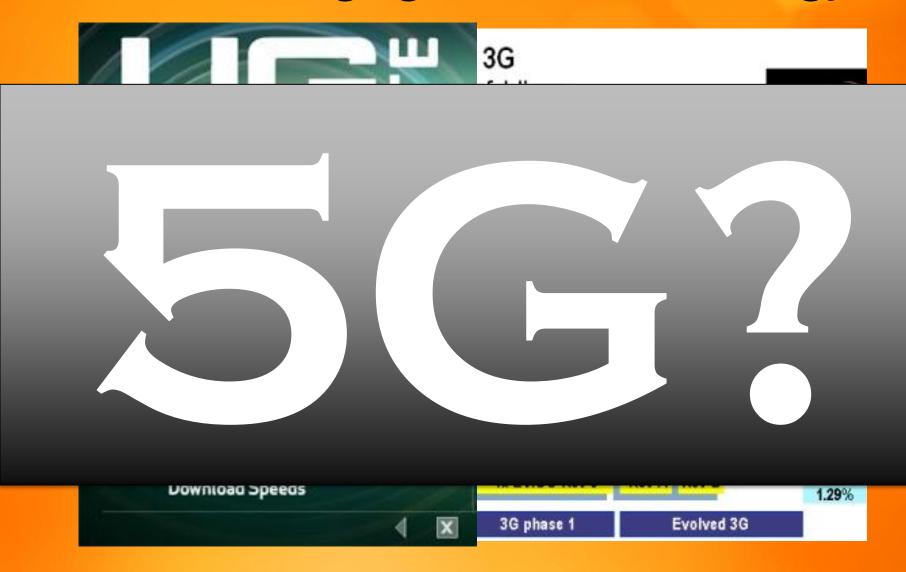




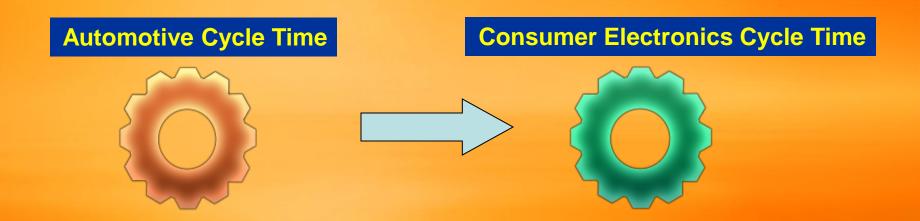




### Ever-changing Cellular Technology



#### Consumer Electronics Cadence



## Other Key Considerations

#### Safety

More and more drivers were using their phone in their vehicle

#### Cost

People do not want another bill

# Other Key Considerations Usage

Most telematics features are consumed while the customer is in the vehicle with their phone



# Other Key Considerations Usage

Select products require vehicle data when the customer is not in the vehicle



## Design Requirements

Consumer Friendly

Aligns with Consumer Trends

Fast Cycle Time

Reduce Driver Distraction

Adapts to Technology Changes

Upgradable

Meets Niche Product Needs

Platform for Future Growth



#### Brought-In - Consumer's Phone

- Leveraging existing delivery methods
- "Riding along" with Technology Changes (3G/4G/LTE...)
- Customer Choices and Preferences
- Seamless Home, Personal, Vehicle, Office



#### Built-In - Vehicle Interface

- Human Machine Interface
- Voice Recognition/Text to Speech
- Reconfigurable Displays
- Touch screen/Touch Sense
- Standards: Bluetooth, USB, WiFi
- Software Upgradeable
- Apple Interface
- Music Digital Rights Management
- Industry Standard Operating system
- Leverage Industry Innovation







#### Beamed-In - Connect to Cloud/Telematic Services

- Up to date POIs and Information
- **Location Based Services**
- Expanded Voice capability to navigate beamed in sources
- Real Time Traffic and Routing
- **Business Search**
- Smart Phone Application Integration
- Plug-and-play added services from the cloud
- **Authentication and Provisioning**
- Off Board storage of "preferences" and "personalization"
- Platform to support/leverage the Application **Development Community**











## Ford's Solution







- Hands-free cellular calling
- Auto download of phonebook
- Text message reader
- MP3 player
- Bluetooth streaming
- Voice control
- Works with iPhone, BlackBerry,
   Android, Feature phones...











Powered by Microsoft



10.000

FIRST-LEVEL VOICE COMMANDS

Multilingual (19 Languages)



#### **Built In APP ECOSYSTEM**







911 Assist



Vehicle Health Report

Free for Life of the Vehicle



#### **Beamed In APP ECOSYSTEM**



Apps through the cloud-based SYNC Services Network



Accessed by Bluetoothpaired phone

Free for first 3 years of ownership



#### **Beamed In APP ECOSYSTEM**





#### **SYNC Services**



## Ford Build Backend Systems

US Traffic, Directions, and Information





## **Brought In APP ECOSYSTEM**





Brought In



:: BlackBerry.







## Sync Services - Rapid Growth

#### Version 1 Sept 2007

- Hands-free calling
- Phonebook download
- Text message reader
- MP3 player
- Bluetooth streaming
- Voice control

#### Version 2 Dec 2008

- Vehicle Health Report
- Emergency Assistance





#### Version 3 May2009

- Traffic
- Directions
- BusinessSearch
- Information



#### Version 4 Dec 2010

Phone app integration





#### **Partner with Technology Leaders**











































































#### Market Feedback







MORE 80%
THAN 80%
WOULD RECOMMEND

OVER 70%
USE VOICE CONTROL
FOR SAFETY



TRANSACTION
PRICES UP 14%
DUE TO SYNC & OTHER
TECHNOLOGIES

OVER 3.5 MILLION SYNC-EQUIPPED VEHICLES ON THE ROAD



## MyFord Touch Keeps you Connected

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## MyFord Touch Keeps you Connected



- MyFord (and MyLincoln) Touch are the First Products to offer Built in WiFi
- WiFi is used to Download Software in the Manufacturing process
- With the simple addition of a 3G Modem, MyFord Touch becomes a "mobile hotspot"
- MyFord Touch is now available on the Ford Focus, Edge, Explorer and the Lincoln MKX
- The Ford Focus with MyFord Touch will soon become available in Europe
- Within the Next 5 years, MyFord Touch will become available on approximately 80% of Ford vehicle lines
- New features, using the WiFi will be launched over the next 12 to 18 months

## MyFord Touch Keeps you Connected





Oakville Assembly Plant: WiFi software delivery process





Oakville Assembly, Canada



**Chicago Assembly, USA** 



Saarlouis, Germany (late 2011)

WiFi Software Provisioning



## Coming in 2012

## Sync - Going Global





# 2 MILLION SYNC-EQUIPPED VEHICLES

IN RUSSIA & EUROPE BY 2015









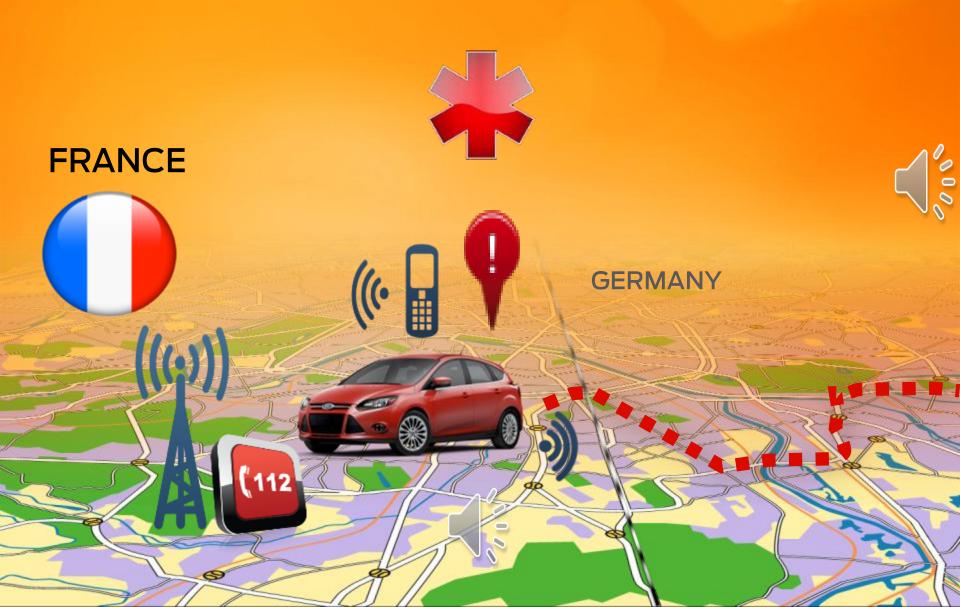
## Vehicle Message to German Customer traveling to France







## Vehicle Message to French 112 Operator



#### Sync Delivers Customer Driven Requirements

Consumer Friendly

V

Aligns with Consumer Trends



Fast Cycle Time



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