

Feel the difference





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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







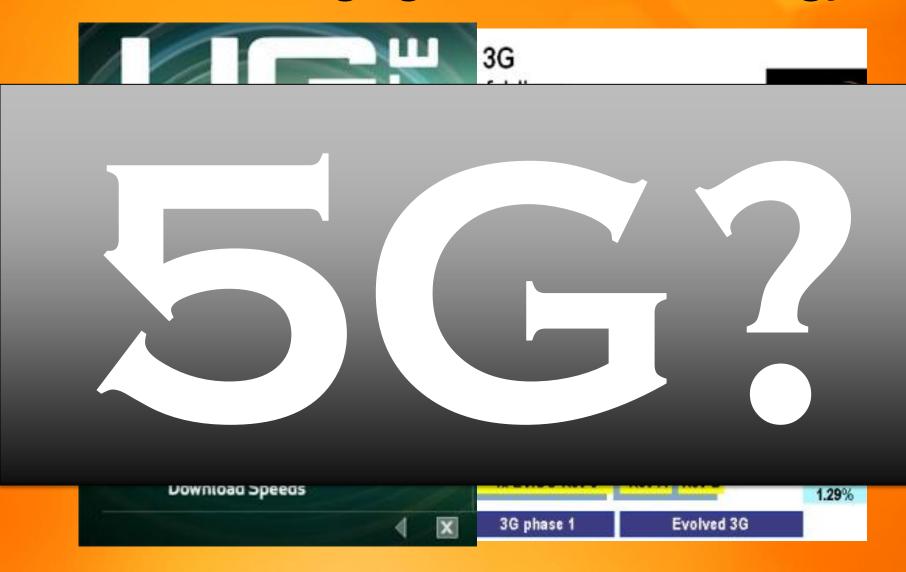




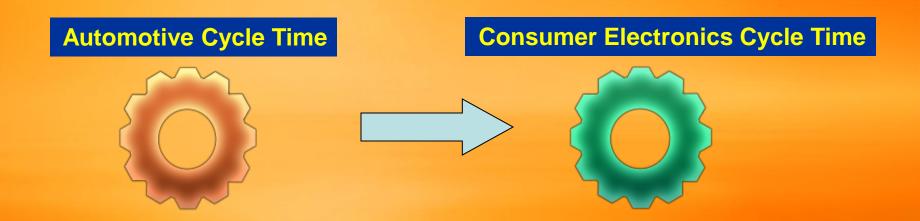




Ever-changing Cellular Technology



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









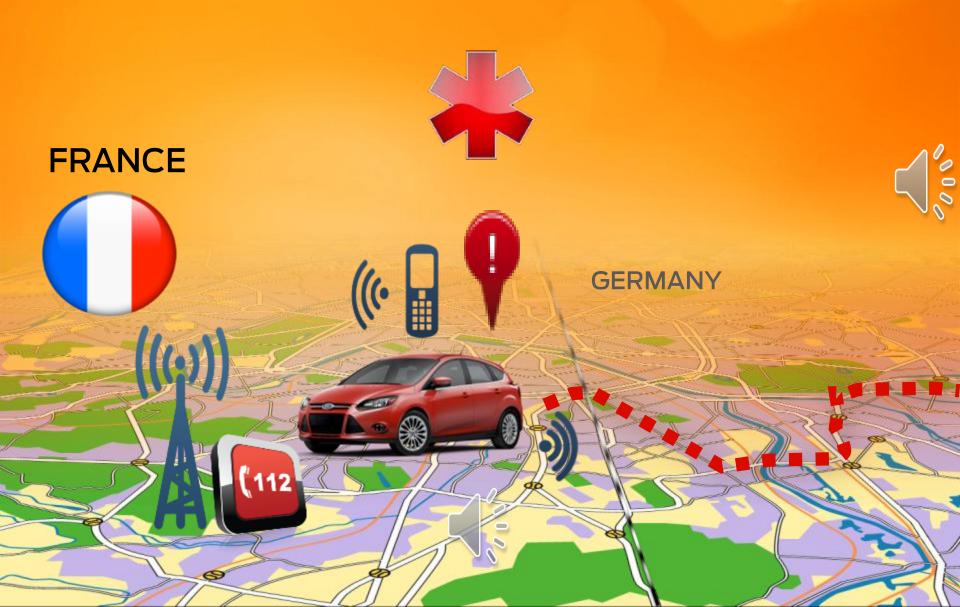
Vehicle Message to German Customer traveling to France







Vehicle Message to French 112 Operator



Sync Delivers Customer Driven Requirements

Consumer Friendly

V

Aligns with Consumer Trends



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