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## Verizon's Network 2020 Vision

**Paul Callaghan**  
Vice President Global Strategic Services



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## **SOLUTION AVAILABILITY NOTICE**

This document describes a solutions that are still in the development process. Features and availability are subject to change.



# Verizon Communications

*Innovative Communications, Information and Entertainment – Around the Globe*

| Wireless   | Consumer and Small Business  | Enterprise Business  |
|--|--|--|
| <p><b>106M total connections</b></p> <p><b>America's largest and most reliable wireless network</b></p> <p><b>Launched next-generation, 4G high-speed broadband wireless network in 2010</b></p> <p><b>Broadband access in 264 U.S. major metropolitan areas</b></p> <p><b>Industry-leading customer loyalty for U.S. wireless providers</b></p> | <p><b>Largest 100% fiber-optic network in the U.S.</b></p> <p><b>Transforming from traditional telecom into a broadband and entertainment business</b></p> <p><b>4.5M FiOS Internet subscribers and 3.84M FiOS TV subscribers</b></p> <p><b>8.6M Wireline Broadband connections</b></p> <p><b>16.1 million premises passed with FTTH</b></p> | <p><b>Enterprise (including 96% of Fortune 1000) and government customers worldwide</b></p> <p><b>The world's Most Connected Global IP Network. *</b></p> <p><b>Manage 260K+ servers, routers, devices</b></p> <p><b>Leading provider of managed information security services</b></p> <p><b>150+ countries, 2700+ cities</b></p> <p><b>485,000 route miles of cable over six continents</b></p> |

\* Telegeography, Global Internet Geography Report, 10 Dec. 2010

Statistics as of 8/11



# Changing Balance of Power



# Centres of gravity change

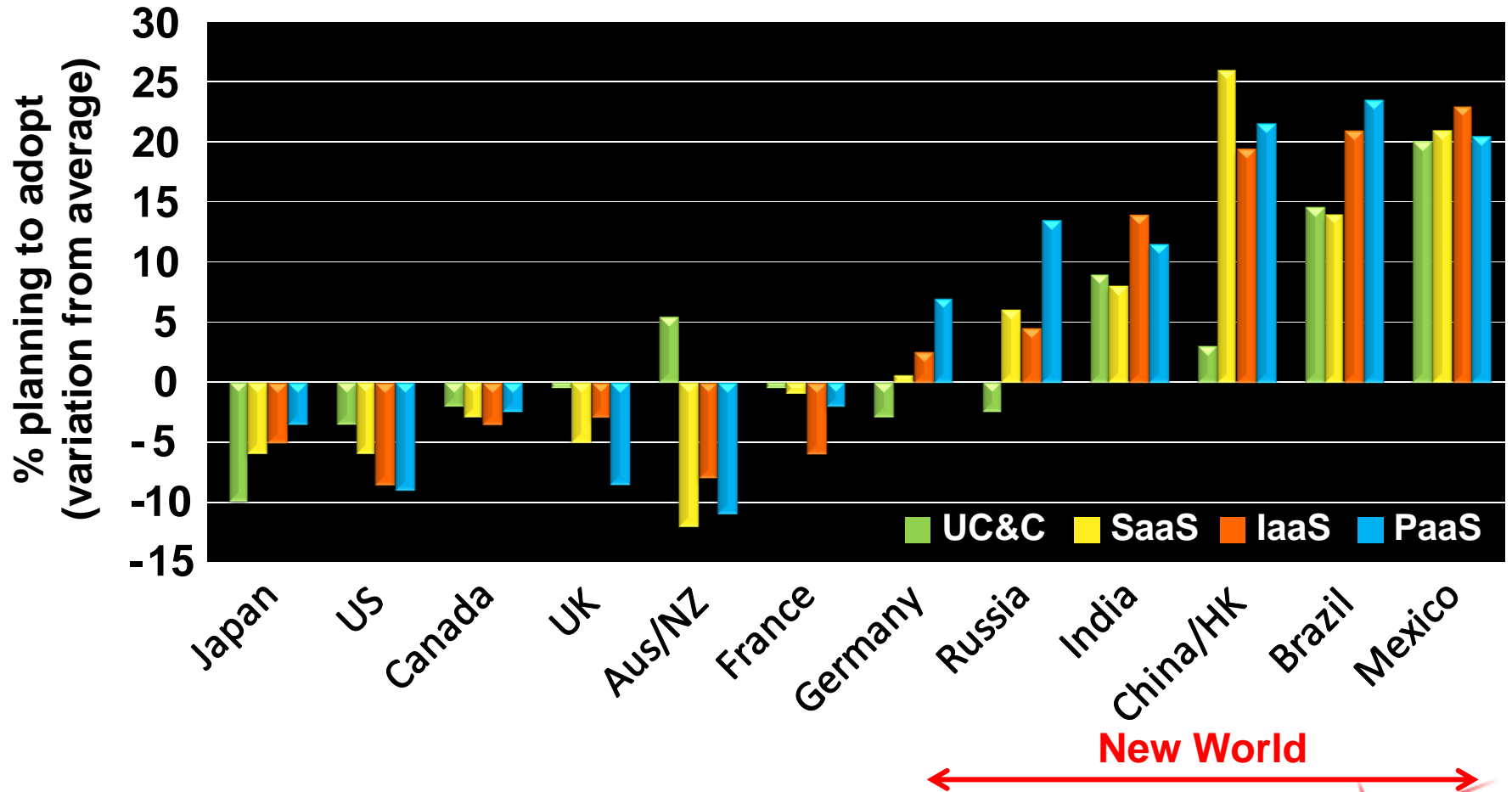


Credit: C. Mayhew & R. Simmon (NASA/GSFC), NOAA/ NGDC, DMSP Digital Archive

2020



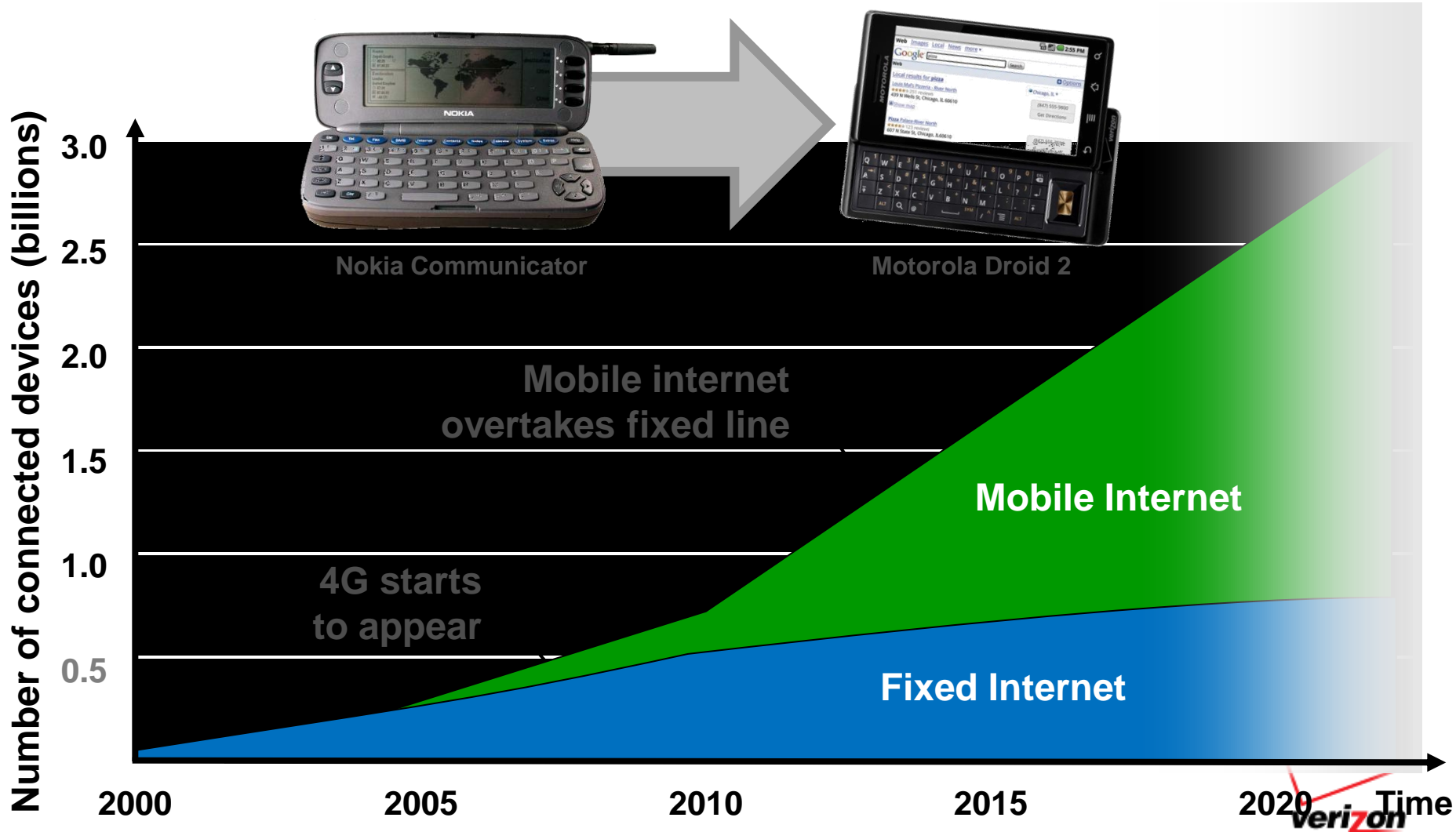
# And technology is a lever



Source: Forrester Global IT Budgets, Priorities, And Emerging Technology Tracking Survey, Q2 2010. Base: 2,803 IT budget decision-makers



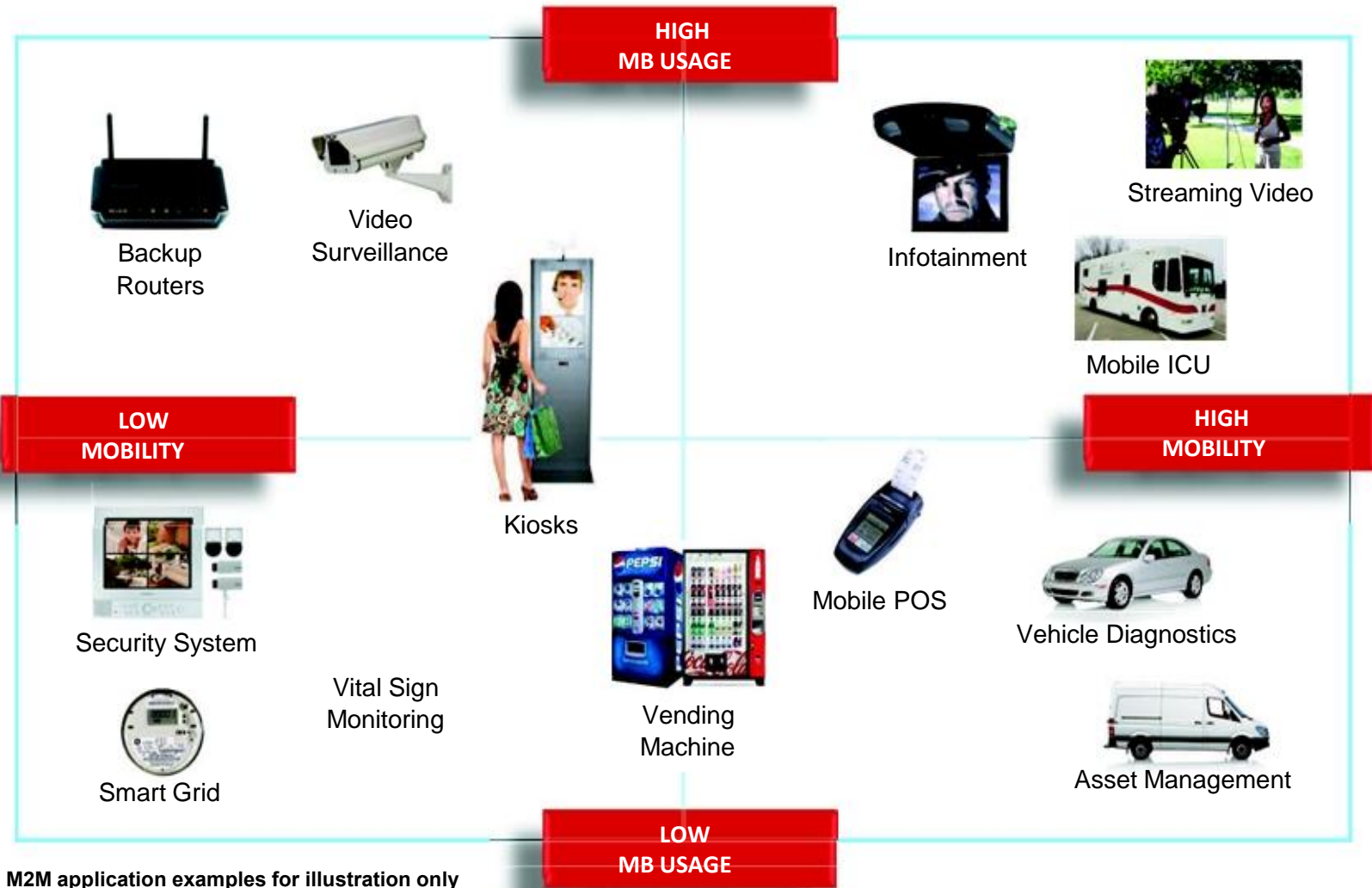
# Mobility ...everything, everywhere, on demand



# Verizon and MTM



# Not All M2M is the Same



M2M application examples for illustration only

# Verizon's Horizontal Enablement Strategy

Enable and develop robust eco-system components



... follow with applications and solutions for key verticals



# MTM Examples

## Energy

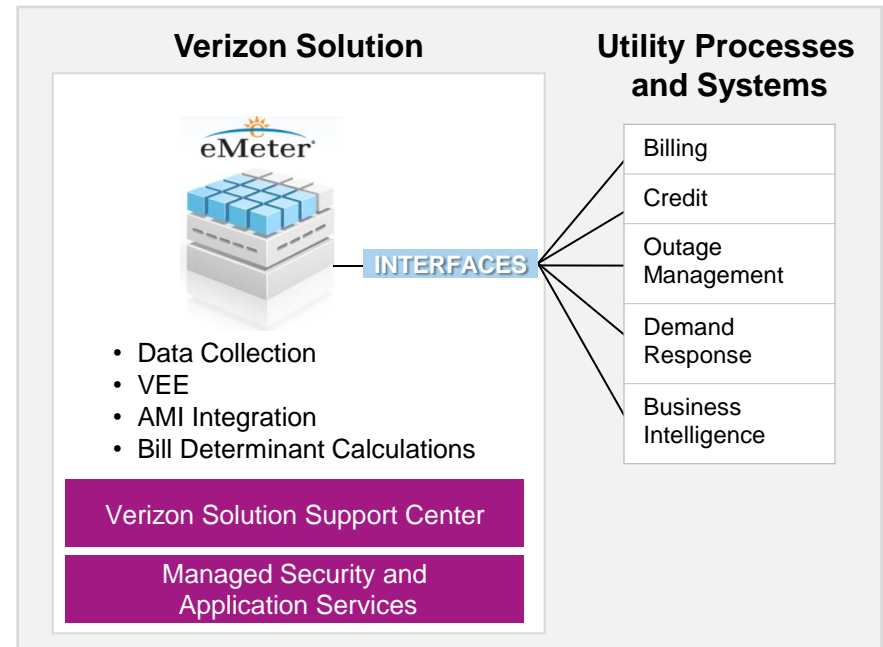


# Verizon Meter Data Management (MDM)

Verizon Meter Data Management is a private cloud-based solution that allows energy companies to rapidly deploy a complete, secure, and scalable smart metering platform without major investments in additional IT infrastructure.



## Solution Overview

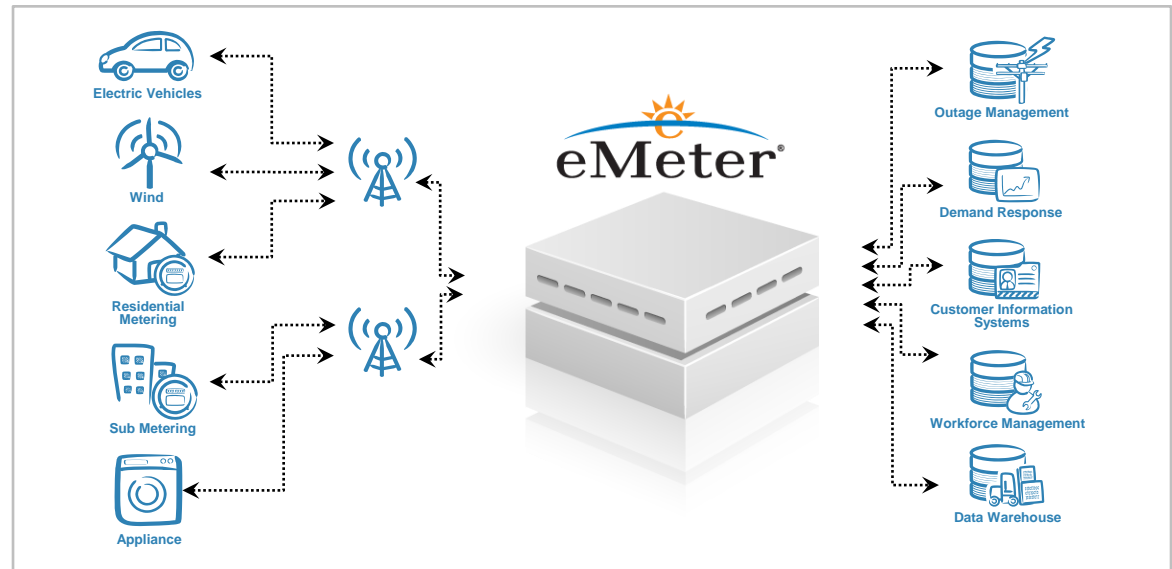


Advanced MDM software powered by the Verizon network is designed to provide an industry-leading MDM service.

# eMeter EnergyIP®: The Smart Platform

## Core Functionality

- Data Collection & Processing
- Data Synchronization
- Real-Time VEE
- AMI Device Management
- Automated Meter Provisioning
- AMI Systems Monitoring
- Exception Handling
- Business Process Automation
- Event Notification Services
- Workflow Engine
- System Admin Console
- Performance Reports



## Benefits

- Open: any meter, any device, any ERP application – no hardware agenda
- Scales to over 20,000,000 meters
- Enables you to respond quickly to regulatory changes
- Legacy and future technology integration
- Synchronize data across all systems

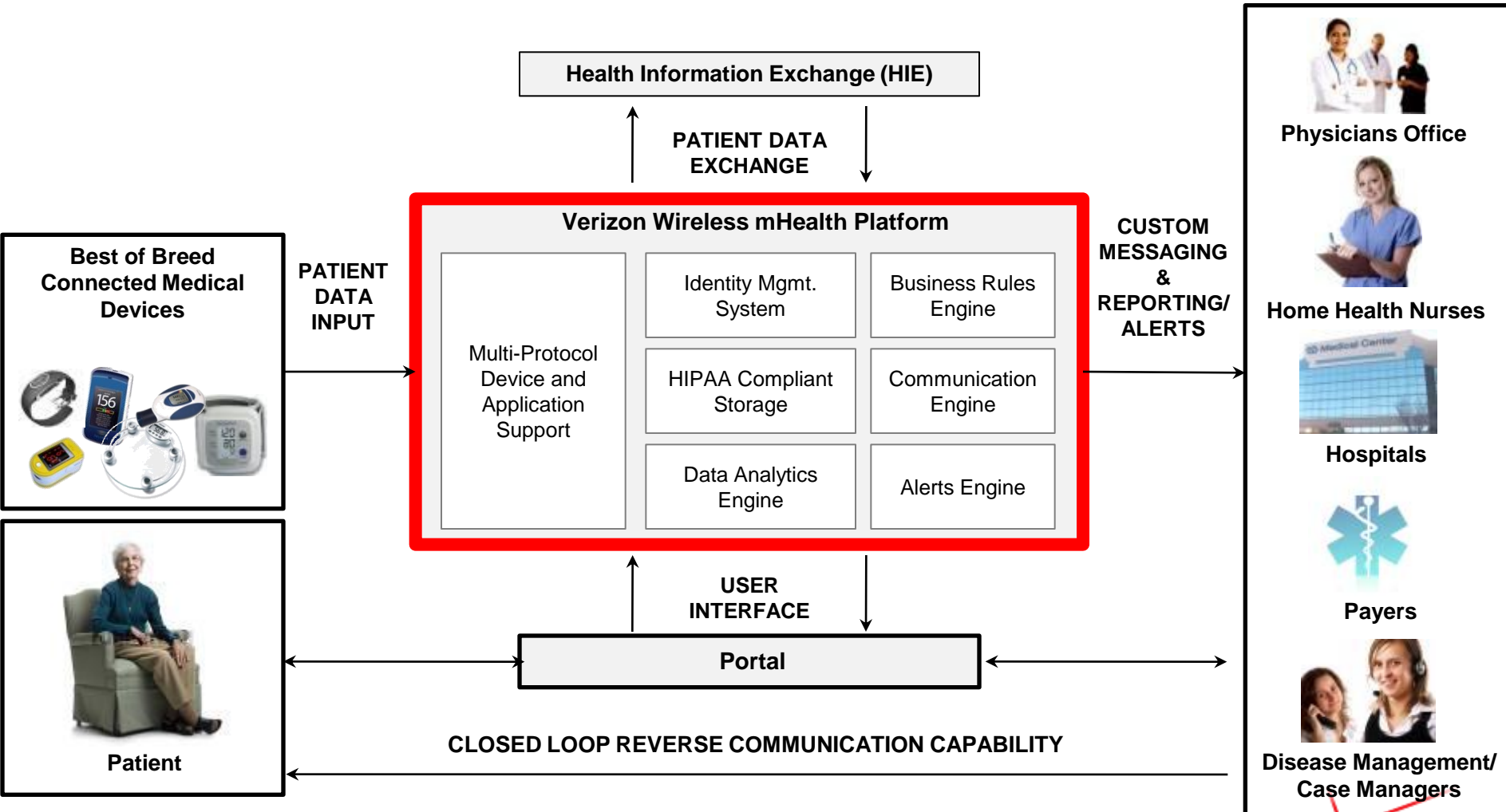


# MTM Examples

## Healthcare



# mHealth Platform



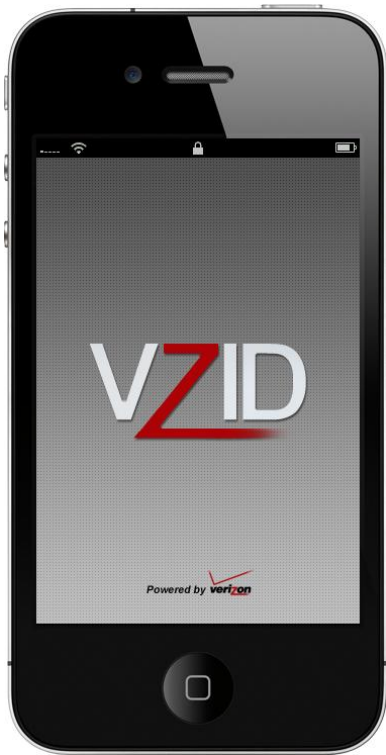
**The mHealth platform will initially power Remote Health Management and Virtual Care solutions**

# Future Technology

- In 2009, nearly 50,000 blood-pressure monitors were used in telehealth applications, but shipments of these devices will hit 500,000 by 2013
- Wireless devices that monitor patients' conditions and report the data to healthcare providers will show a 77 percent compound annual growth rate (CAGR) that will create global revenues of \$950 million by 2014, according to a 2009 report from ABI Research
- By 2016: 100M wearable wireless sensors
- The market for wearable devices will exceed 100 million units annually by 2016
- Adoption over the next five years will be driven by devices, ranging from heart rate monitors to wearable blood glucose meters
- New, low-power wireless technologies such as Bluetooth 4.0 will combine with social networking and smartphone integration to drive adoption



# Universal Identity Services



## Consumerises the complexity of authentication

- Lower identity service operating costs
- Reduced risks for identity fraud for individuals and for organizations and devices
- Faster identity proofing and authentication
- Positive user experience for credential provisioning and transactional authentication
- Standard authentication experience across all applications
- Ability for users to significantly reduce the number of credentials they manage—perhaps to a single credential

**The Verizon Universal Identity Service is a cloud-based solution that provides an identity ecosystem.**



