

TeleHealth In A Connected Age



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The Current Universe

The current construct of the health system centers around organizational information needs and displaces the consumer as a priority.

This creates silos of health information that prevent the consumer from having **a "connected" health experience**.





Incompatibility

One critical element to **bridging the silos** is the adoption of standards that allow for compatibility. Until now, vendors have chiefly driven standards that focus on their specific use cases.

Now, unifying standards are being adopted that allow compatibility and facilitate data exchange.





Data Liquidity

A "Connected Health" system would see data as liquid with the ability to flow across disparate systems providing seamless transitions in care for the patient.







The Shift

A significant shift has occurred recently that places an emphasis on consumer **connected health** and the concept of consumers as "**aggregators**" of health information.

This coupled by the financial and political incentives for connectivity have created a ripe environment for creating **a connected health network**.





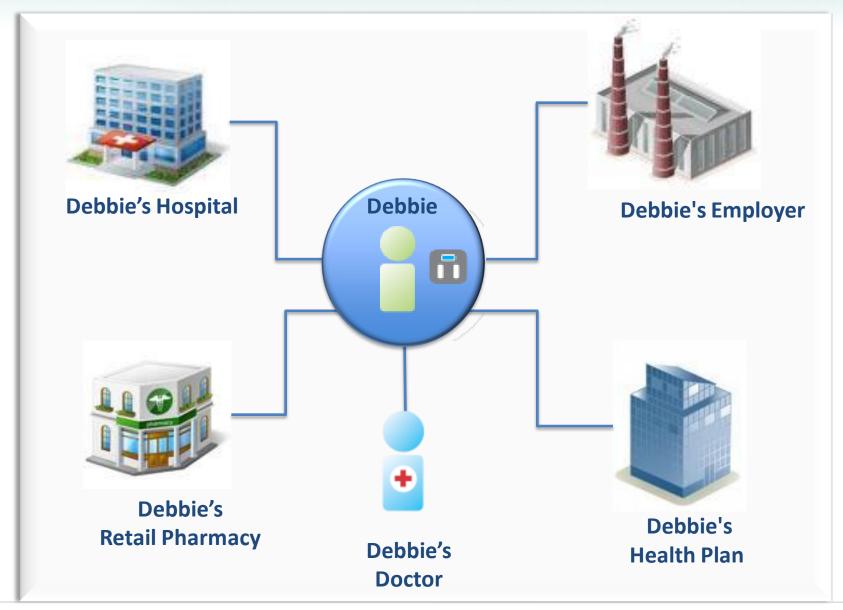
Connect Health Platform

The key to a successful connected health experience is adopting a platform that focuses on creating a patient centric experience.





A Patient Centric Connected Experience





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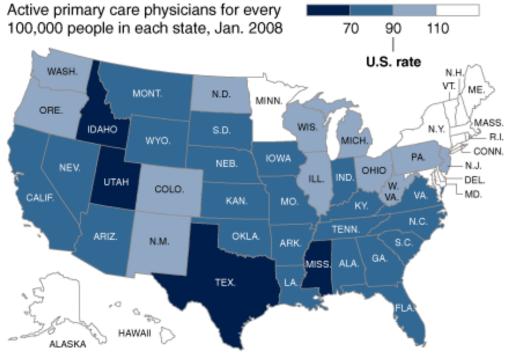
The TeleHealth Intersection



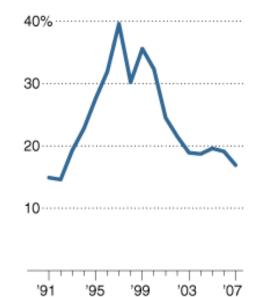


Supply and Demand

Primary Care Providers in Short Supply



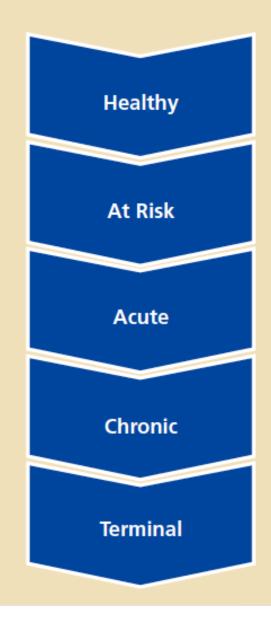
Percentage of medical school graduates who said they intended to go into primary health care



Source: Association of American Medical Colleges



Technology-enabled Connected Care Applicability



- Educational
- Prevention
- Wellness monitoring
- Health assessment
- Lifestyle management
- Health Coaching
- Pre-treatment/Pre-testing
- Treatment compliance monitoring
- Disease management
- Compliance monitoring
- Lifestyle assistance
- Monitoring, alerting

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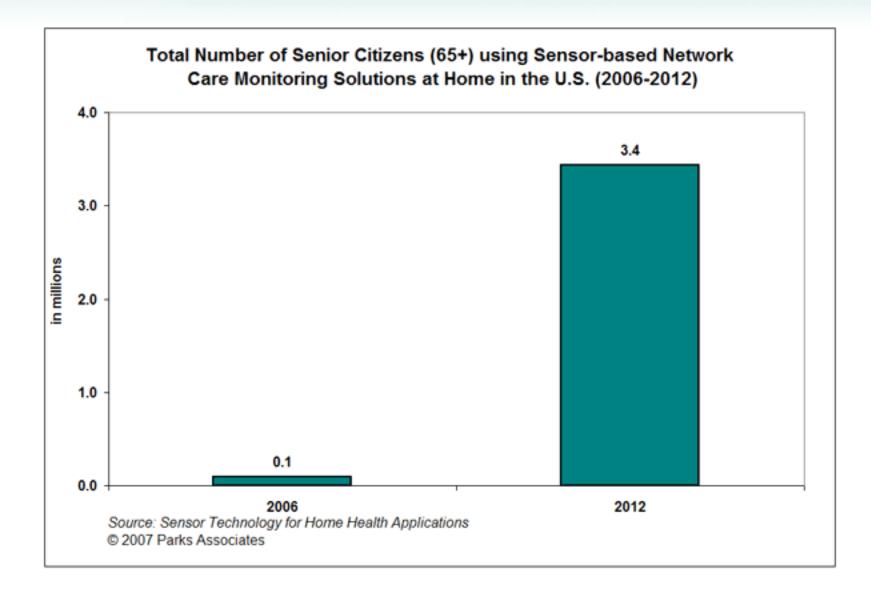
benefit

years to mainstream adoption

	less than 2 years	2 to 5 years	5 to 10 years	more than 10 years	
transformational					
high	Teleradiology	E-Visits (Healthcare Provider) Remote ECG Monitoring	Home Health Monitoring Teleretinal Imaging Video Visits		
moderate	Call Centers Teleradiology Outsourcing		Mobile Health Monitoring Teledermatology	Remote ICU	
low			Clinical Kiosks	Telepathology Telesurgery	

As of June 2008 Source: Gartner (June 2008)







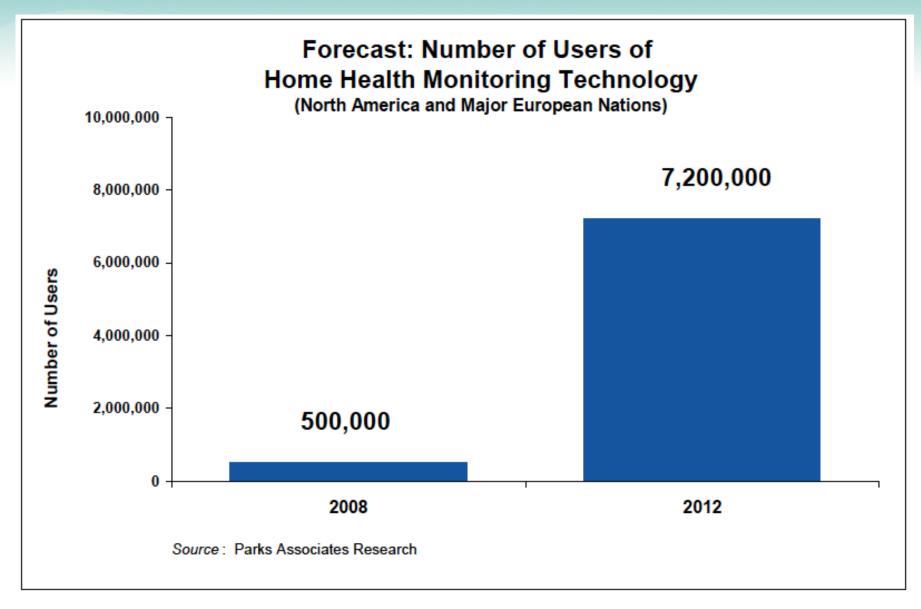


Figure 4 The Number of Users of Home Health Monitoring Technology (2008-2012)



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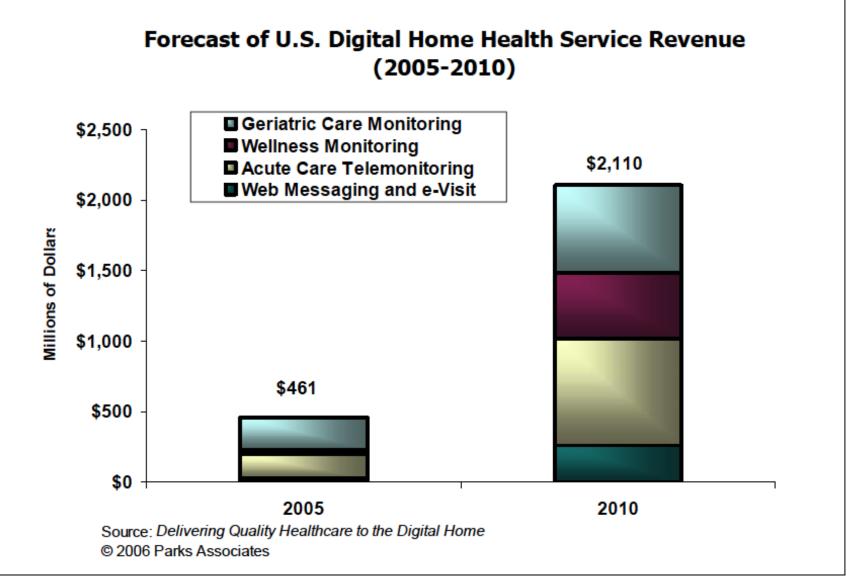


Figure 4: Forecast of Demand for Digital Home Health Services in the U.S. (2005-2010)



AHA/ASH/PCNA Scientific Statement

Call to Action on Use and Reimbursement for Home Blood Pressure Monitoring

A Joint Scientific Statement From the American Heart Association, American Society of Hypertension, and Preventive Cardiovascular Nurses Association



Online article and related content current as of July 1, 2008.

Effectiveness of Home Blood Pressure Monitoring, Web Communication, and Pharmacist Care on Hypertension Control: A Randomized Controlled Trial

Beverly B. Green; Andrea J. Cook; James D. Ralston; et al.

JAMA. 2008;299(24):2857-2867 (doi:10.1001/jama.299.24.2857)

At 12 months of follow-up, investigators observed no difference in BP control between usual-care patients and those who received home BP monitoring and Web-based support: In both groups, roughly 30% to 35% of patients attained BPs of $\leq 140/90$ mm Hg. In contrast, 56% of patients who received pharmacist care achieved this degree of control, which was a significant improvement over the other groups. Mean systolic and diastolic BP decreased by 14 and 7 mm Hg, respectively, in the pharmacist-care group, compared with 5 to 8 mm Hg and 4 mm Hg, respectively, in the other groups.



Bench To Trench

Practical TeleHealth







Four Ingredients For Success

- Deliver a "magical" user experience
- Deliver value when and where they need it
- It must be sustainable
- And....

...Engage Health Professionals to drive consumer adoption.



Magical User Experience

- Use design personas
- Constantly survey users and watch analytics
- Implement reward systems to motivate behavioral change
- Don't reinvent the wheel, adapt and enhance from best practice models (Facebook, Twitter, Mint)





Deliver A Premium ExperienceWhere They Are







Engage Health Professionals

Meaningful Use Goals:

- Improve quality, safety, and efficiency
- Engage patients and their families
- Improve care coordination
- Improve population and public health
- Ensure privacy and security protections

Sustainability and Engagement

	Adoption Year	Maximum Payment							
		2011	2012	2013	2014	2015	2016	Total	-
	2011	\$18,00 0	\$12,000	\$8,000	\$4,000	\$2,000	\$0	\$44,000	
	2012		\$18,000	\$12,000	\$8,000	\$4,000	\$2,000	\$44,000	
-	2013			\$15,000	\$12,000	\$8,000	\$4,000	\$39,000	
1	2014				\$12,000	\$8,000	\$4,000	\$24,000	
-	2015							\$0	1%
	2016							\$0	2%
	2017+							\$0	3%



Questions

