









- Provider-Centric Data Capture
- Patient-Provider Communication
- Patient-Oriented Data Capture

My Definition, part two

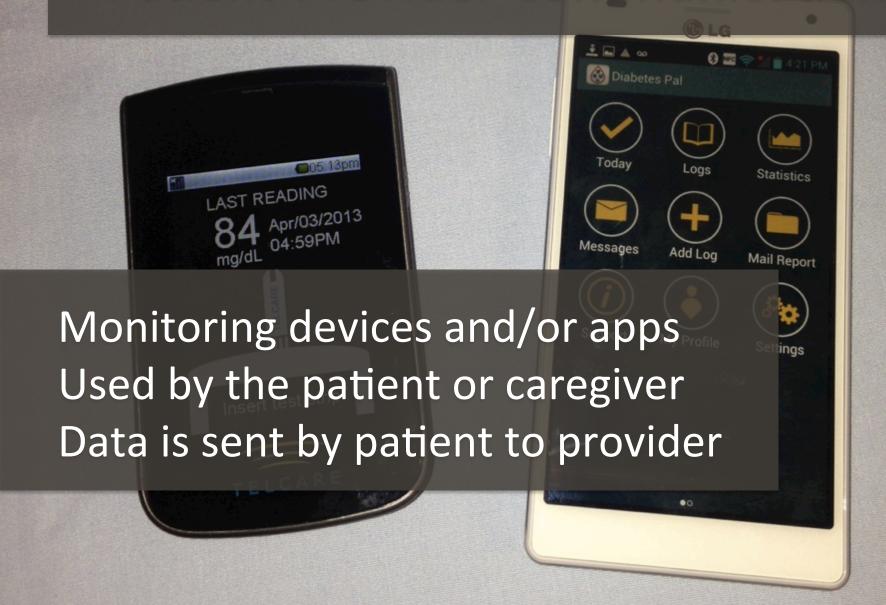


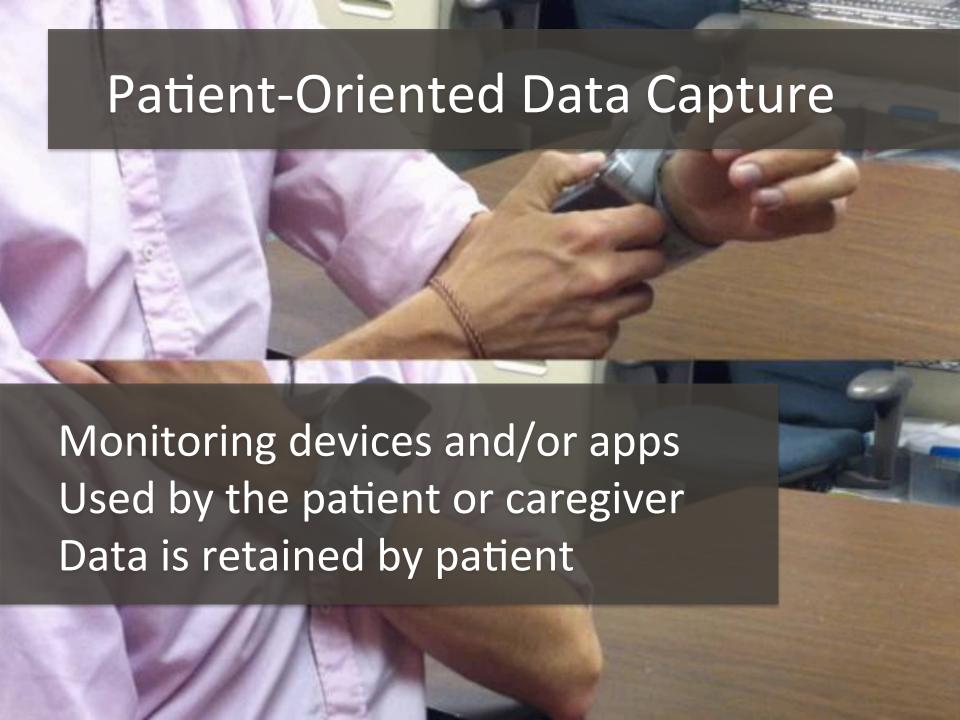


Imaging and/or monitoring devices Requires clinician to operate Data typically stays with physician

VelchAllyn

Patient-Provider Communication







The Programs – Data Collection



Activity trackers & calorie counters

Medical device interfaces

Electronic logs



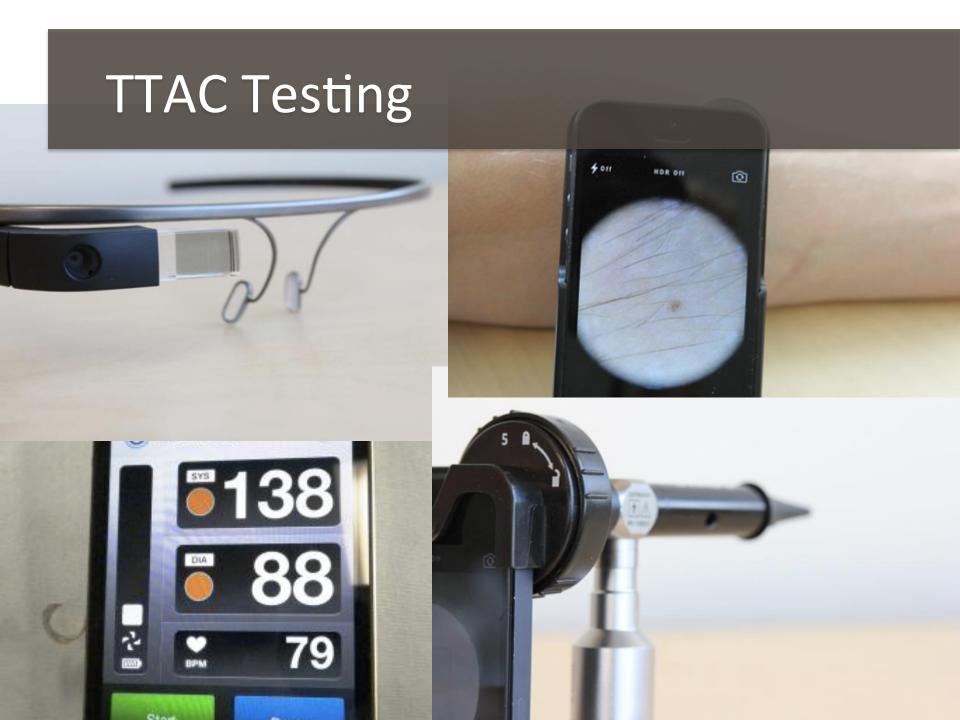


The Technology – Hardware

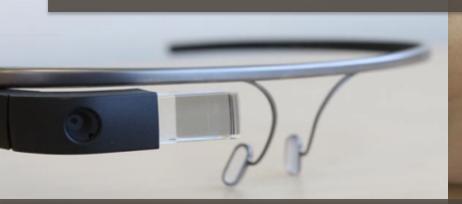












- BP Monitors
- Body fat analyzers
- Scales
- Glucometers
- Activity trackers



- Otoscopes
- Opthalmoscope
- Wearables
- Stands and cases

TTAC Testing



Application quality can vary widely
Some great devices have terrible software
Some great software has terrible devices

	MONDAY	THESDAY	MECHESOAY	THURSDAY	FRIDAY	SATUR	
AVERAGE	110	84	82	133	196	17	34
WIN	79	77	81	84	84	85	0-1
NA.	180	91	84	227	307	259	195
DEVIATION	50	7	2	67	112	87	53

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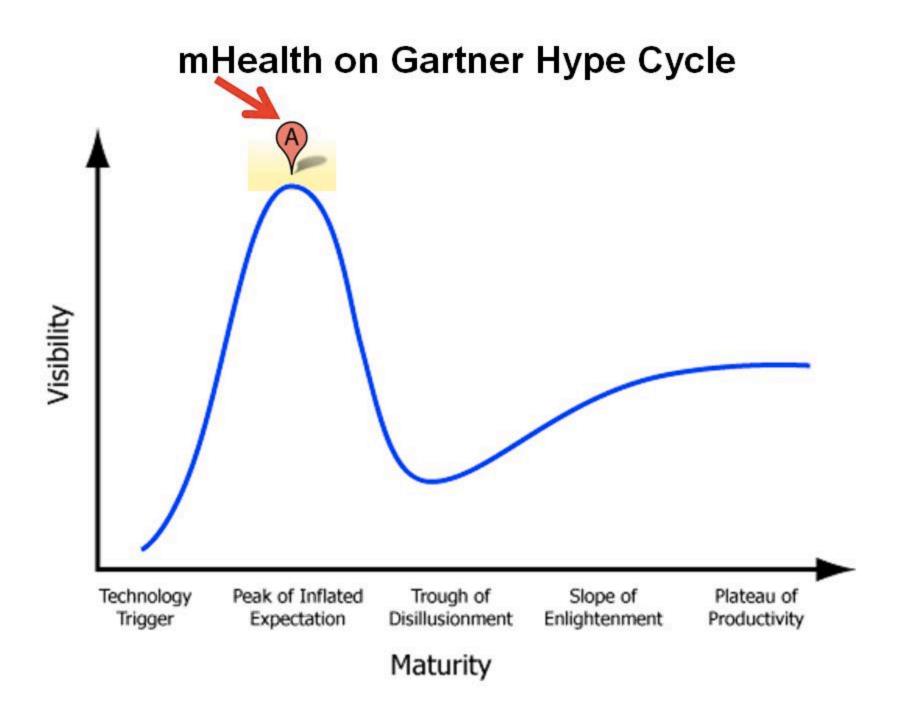
181 lb

Feb 26, 2014

TTAC Testing



Young market, lots of hype IMS Institute for Healthcare Informatics Gartner's Hype Cycle







Mobile Medical Applications Guidance (Sep. 2013) Medical Device Data Systems (June 2014)



Technology Assessment for Mobile



Technology Assessment for Mobile



Assessment Process Overview

- Establish Requirements
- Review the Market
- Procure the Devices
- Plan the Tests
- Test the Plan
- Select a Device
- Deploy and Support

Establish Requirements

- Gather input from all stakeholders
- Create shared meaning around the requirements
- Think through a wide range of requirement types:
 - Functionality
 - Portability
 - Interoperability of Interfaces
 - Interoperability of Data
 - Usability

If this is all you do, you will be ahead of those who just head to the market immediately.

Review the Market

- Use online resources Google, Bing, Amazon, etc.
- Phone a friend TRCs, OAT Grantees, TTAC
- Talk to organizations that have existing programs
- Contact manufacturers and vendors

Procure the Devices

- Manufacturers and vendors can be very useful
 - Loaners are a great thing!
- Buy and borrow what you need
- Keep it all organized
- Try to get devices in at the same time

Plan the Test

Quantity your requirements

INNOVATE

- Develop methods to test against the requirements
- Planning and testing can be iterative

This does not need to be an all-inclusive, massive test suite – determine what you are really looking for with these tests.

Test the Plan

- Test independently or in a group setting
 - Independent tests can prevent "group think"
 - Collaboration can foster new discussions
- Document EVERYTHING
- Be consistent
- Update the test as needed

Have the right people involved at the right time – you can save a lot of frustration and repeated (or unnecessary) effort if the equipment is evaluated by the correct people.

Select a Device

- Get the reviewers together
- Discuss the scores clarify discrepancies
- Consider bringing in the initial requirements team
- Be prepared for a second review of top devices
- Make a decision and share your results

This will happen regardless of how many of the previous steps you have taken – your exact process here will vary depending on your other efforts.

Deploy and Support

- Device Staging
- Configurations
- Spares
- Warranties

- Customer Support
- Troubleshooting
- Training
- Replacing Equipment

The Challenges



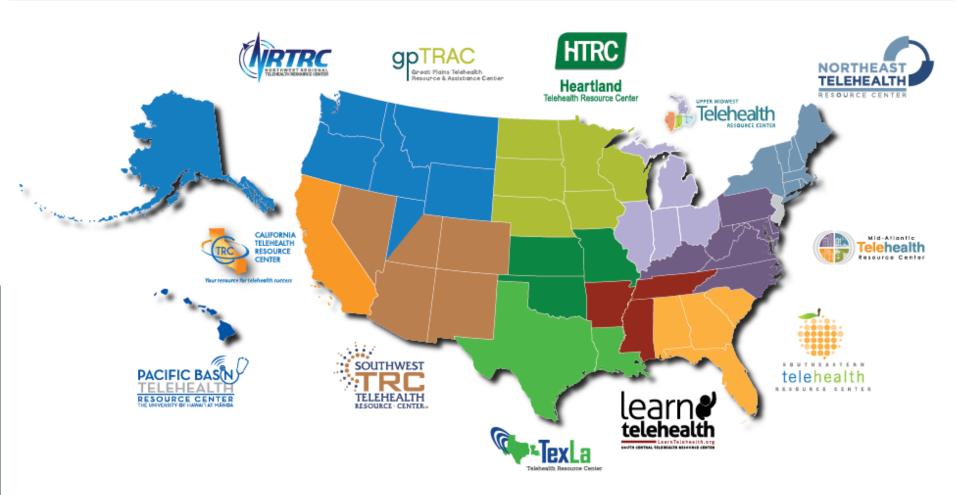
Lack of clear use cases for mobile services

Need to develop a mobile plan at the org level

Changing technological and regulatory landscape



TelehealthResourceCenters.org





NRTRC	gpTRAC	NETRC				
CTRC	HTRC	UMTRC				
SWTRC	SCTRC	MATRC				
PBTRC	TexLa	SETRC				
12 Regional Resource Centers						



Any Questions?

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