

# MHealth + TeleHealth World Congress



U.S. DEPARTMENT OF VETERANS AFFAIRS  
**CENTER FOR INNOVATION**

Jonah J. Czerwinski  
24 July 2013

# Agenda

## VACI

- *Beliefs*
- *Goals*
- *Methods*
- *Track Record*
- *Trajectory*



## State of the Art

- *VA MHealth+TeleHealth*

## State of the Future

- *VA connected healthcare*



# What we believe

A. Innovators remain largely unaware of the potential they have to change the lives of Veterans for the better.

B. Innovation communities across America remain untapped by the Federal sector.

C. Veterans deserve the very best that we as a Nation can provide in terms of quality, access, cost, and customer satisfaction.

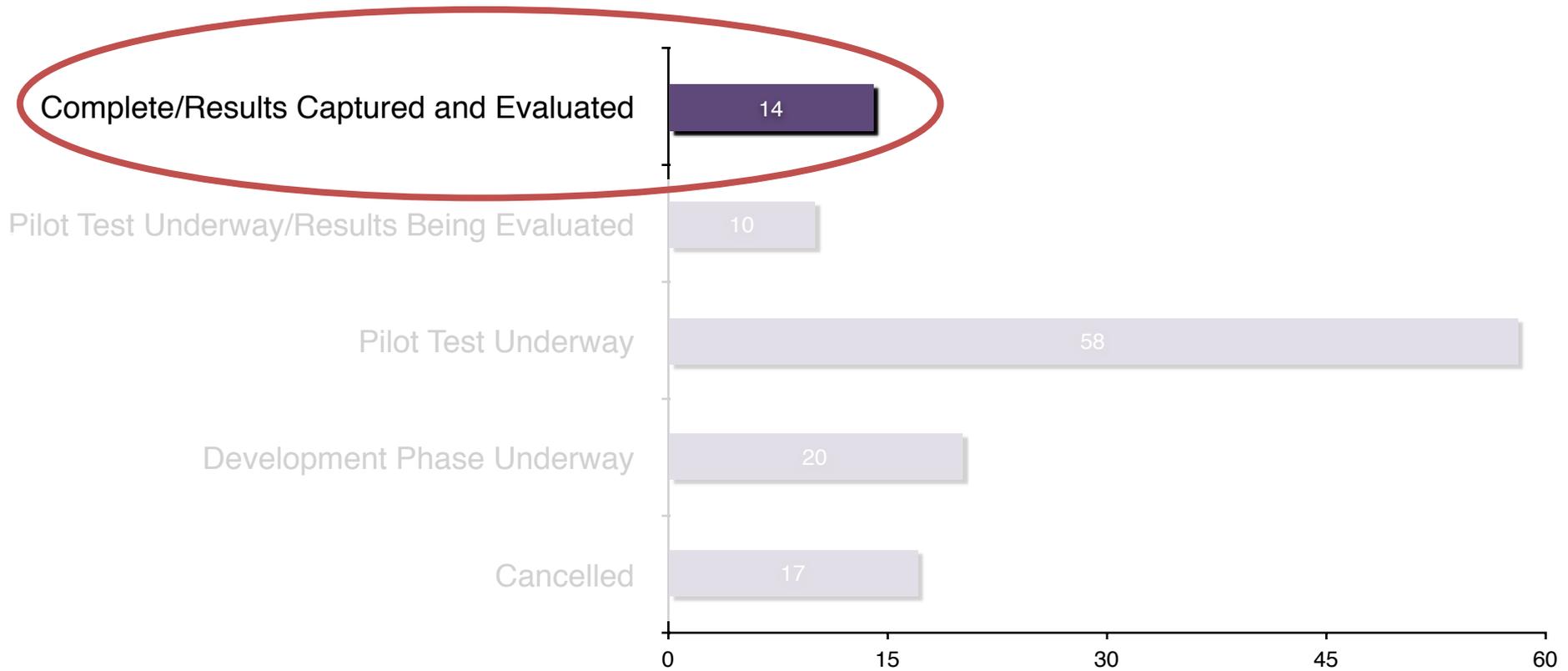


## What we do (our goal)

*Lower the barrier of entry for quality innovations that support and accelerate VA transformation.*



# Robust pipeline, diverse portfolio

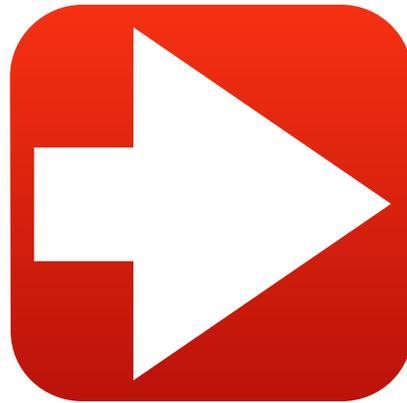


# Partial list of completed innovations currently in transition to ownership by operating component.

Category	Description
Mental Health	Remote Mental Health Assessment (eScreening)
Patient Safety	Automated Radiology (RAPTOR)
Patient Safety	Alert Watch and Response Engine (AWARE)
Specialty Care	Multi Sensory Environment for Special Care Units
Specialty Care	Advanced Controls for Spinal Cord Injury Patients (Environmental Controls)
Patient Safety	Chemotherapy Mechanized Ordering and Management System (COMS)
Mental Health	TBI Treatment Decision Support (TBI Toolbox)
Home monitoring	Post-discharge remote patient monitoring (VitaLink)
Economic Opportunity	Integrated business accelerator platform for VOSBs (VETransfer)



# Video: Moving to mobile and to the patient bedside



# State of the Art: VA mHealth + Telehealth

Modality	Application
<i>Home Telehealth</i>	44 clinical specialties including: TeleMental, TeleCardiology, TeleNeurology, TeleSurgery, Women's Telehealth, Tele-Primary Care, TeleAudiology, TelePathology
<i>Clinical Video Telehealth</i>	In-home and mobile technologies to manage diabetes, chronic heart failure, hypertension, obesity, head injury, depression, etc.
<i>Store &amp; Forward Telehealth</i>	TeleRetinal Imaging, TeleDermatology, TeleWound Care, TeleSpirometry, Tele-Sleep Studies TeleCardiology
<i>Teleradiology</i>	All radiology applications
<i>Mobile Health</i>	PTSD, BlueButton, Pre-/Post-visit patient engagement, secure messaging, post-discharge monitoring, reminders, adherence, etc.



# State of the Future: VA connected healthcare

***Goal: To make VA care and services accessible to all Veterans regardless of location through a unified digital service delivery framework.***



# State of the Future: An illustrative Top Ten

1. Home and local community are the preferred site of care
2. Care delivered at a distance is VA healthcare, not "tele" anything
3. Digital health care assets fully integrated with routine care delivery systems
4. Ongoing delivery of excellent care with the highest levels of patient and provider satisfaction is ensured
5. Empower all Veterans, not only those enrolled in VA care



# State of the Future: An illustrative Top Ten

6. Patients understand the issues they face and options available
7. Patients fully share in decision making about them
8. Coordinated VA services across the continuum of care
9. Reduced downstream reliance on acute care services
10. Generated and analyzed data about all meaningful measures and activities to improve the access, quality, cost, and patient experience associated with VA services





[www.innovation.va.gov](http://www.innovation.va.gov)

@VAinnovation / +VAinnovation



# State of the Art: VA mHealth + telehealth

Modality	Application
<i>Home Telehealth</i>	<b><i>44 clinical specialties including: TeleMental, TeleCardiology, TeleNeurology, TeleSurgery, Women's Telehealth, Tele-Primary Care, TeleAudiology, TelePathology</i></b>
<i>Clinical Video Telehealth</i>	<b><i>In-home and mobile technologies to manage diabetes, chronic heart failure, hypertension, obesity, head injury, depression, etc.</i></b>
<i>Store &amp; Forward Telehealth</i>	<b><i>TeleRetinal Imaging, TeleDermatology, TeleWound Care, TeleSpirometry, Tele-Sleep Studies TeleCardiology</i></b>
<i>Teleradiology</i>	All radiology applications
<i>Mobile Health</i>	PTSD, BlueButton, Pre-/Post-visit patient engagement, secure messaging, post-discharge monitoring, reminders, collaborative care



# Portfolio composed of high value areas to support transformation

## 2010

### Industry Innovation Challenge Areas

- Telemedicine/telehealth
- New models of dialysis and renal disease treatment
- Innovative housing solutions to address Veteran homelessness
- Integrated business accelerator
- Reducing adverse drug events
- Polytrauma/TBI solutions

## 2011

### Industry Innovation Challenge Areas

- Teleaudiology
- Enhancements for VA's Blue Button personal electronic health record
- Innovative prosthetic socket designs
- Fully automated sterilization of medical equipment
- Self-management technologies for vocational rehabilitation

## 2012

### Industry Innovation Challenge Areas

- Enhance maternity continuity of care
- Redesign the PTSD treatment experience
- Create mobile applications for benefits information and services
- Prevent pressure ulcers



# Four new services in VACI



*Entrepreneurs-in-Residence*



*Innovation Fellows*



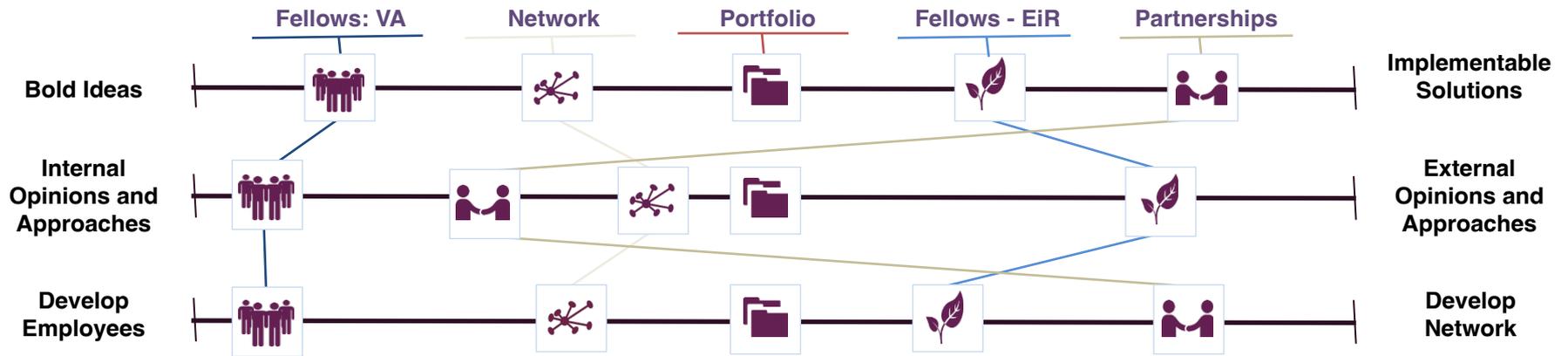
*Innovators Network Program*



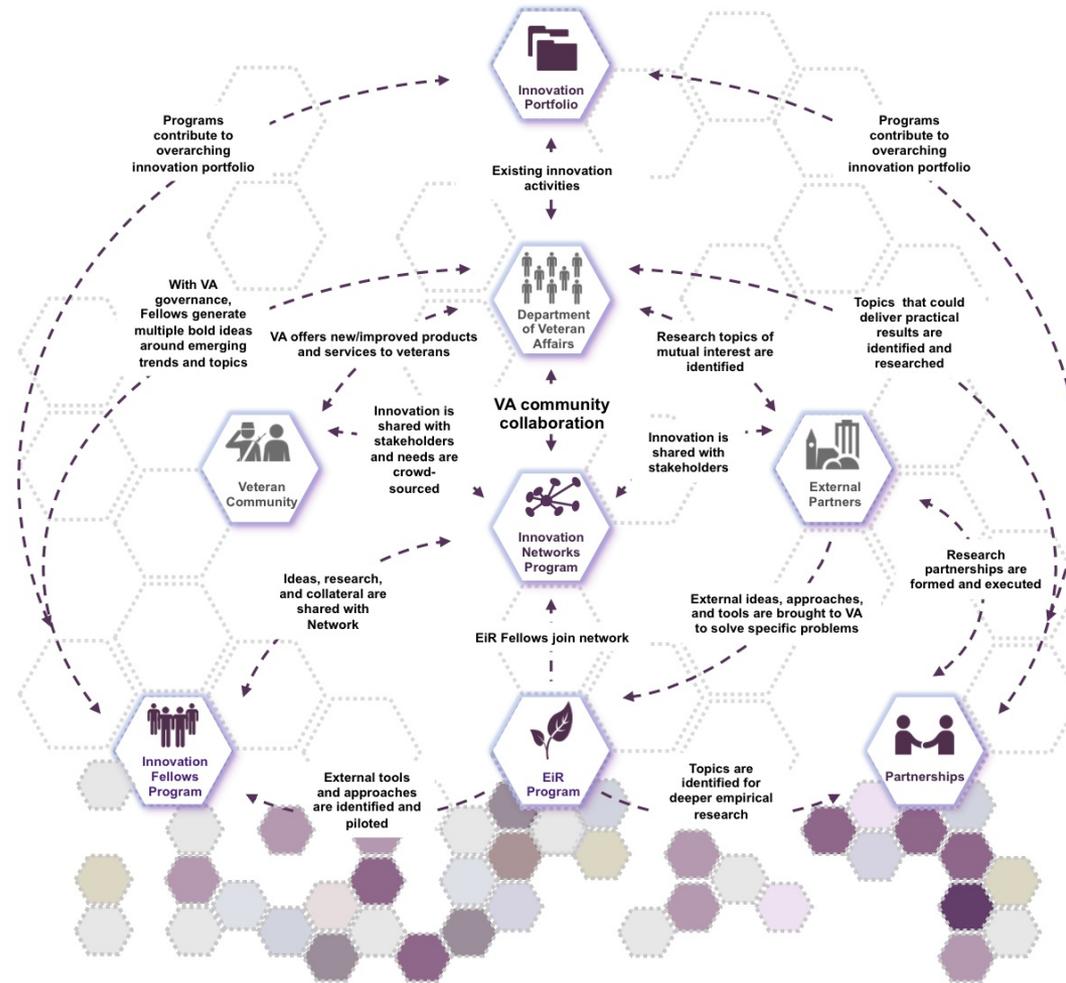
*Independent Innovation*



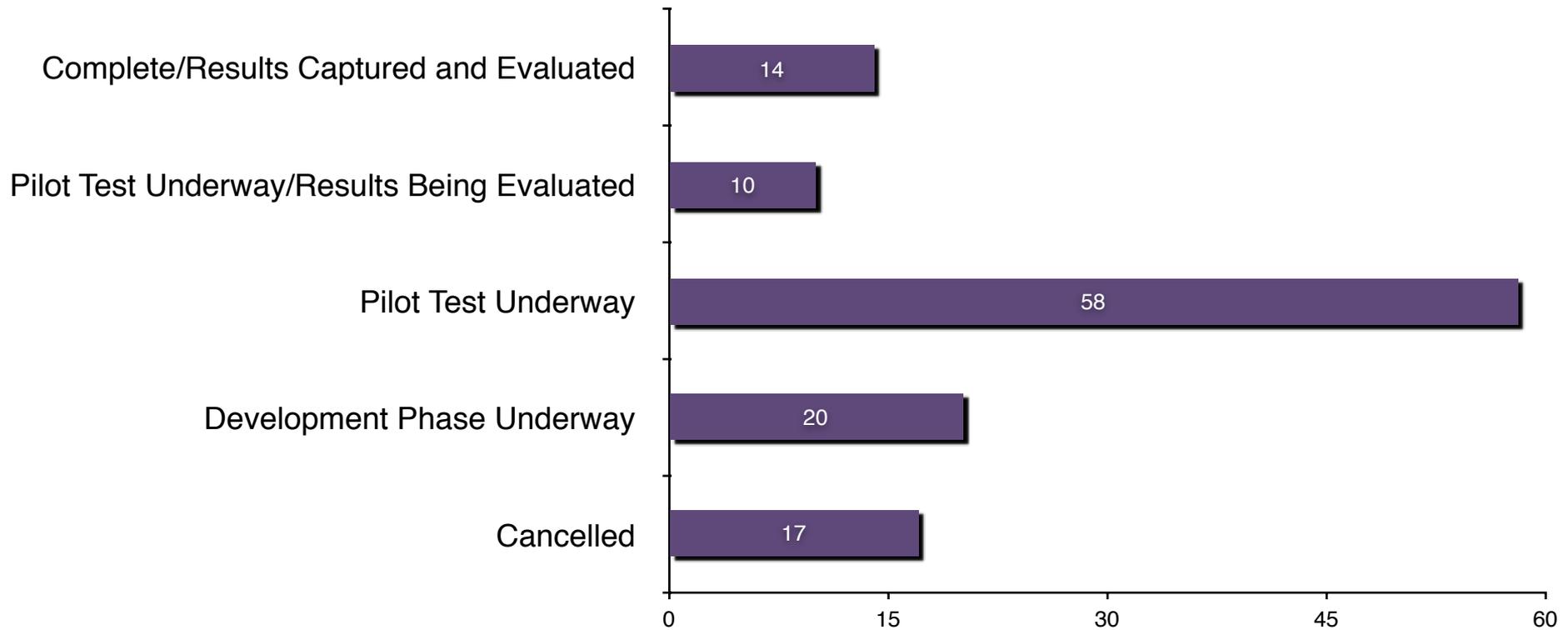
# VA ecosystem covers the spectrum of innovation



# VA innovation ecosystem leverages all sources



# Robust pipeline, diverse portfolio



Current as of July 2013.

