









Department of Veterans Affairs: Veterans Health Administration Innovation Program

Inspiration, incubation, illumination

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Innovation Program: Overview

- A collaboration initiated in 2008 between the Veterans Health Administration, Office of Health Information and the Office of Information and Technology
- Allows critical health care Innovations reliant on Inform ation Technology to:
 - Em erge from the field
 - Evolve based on constructive and collaborative review
 - Be piloted in a safe harbor environment

Governing Principles

- Low Bar for Entry: Allows innovative ideas to em erge from the field and from other sources such as vendors, open source, and academ ic organizations
- High Bar for Exit: Promotes standardization, ensures security and operating perform ance; and mitigates risk to mission critical systems by providing an appropriate barrier between the innovation environment and production systems

Governing Principles (Cont.)

- Full Transparency: Makes all work, lessons learned, and docum entation readily accessible to any member of the organization; ensures consistent and ongoing coordination with custom ers; and continuous assessments of potential innovative solutions
- Business Driven: Supports strategically directed and field-based initiatives

Culture of Innovation

- Business Focus Group Results: How to Value Innovations
 - Im prove patient care (e.g., safety, quality, or access)
 - Im prove efficiency (e.g., clinical workflow, cost/benefit)
 - Affect num erous Veterans, staff, or other stakeholders
 - Address unmet needs rather than incrementally improving existing methods
 - Help m eet organizational requirem ents (e.g. Joint Com m ission or congressional m andate)

VHA Innovation Portfolios

- Bottom Up: Field innovators identify clinical and business opportunities, propose innovative solutions, and compete for resources to develop those solutions
- Top Down: Field innovators and commercial/ private sector develop solutions to strategically targeted VHA business opportunities identified by VA leadership

VHA Innovation Portfolios (continued)

- Laboratories
 - Collaboration Tools:

Technologies used to advance innovation and

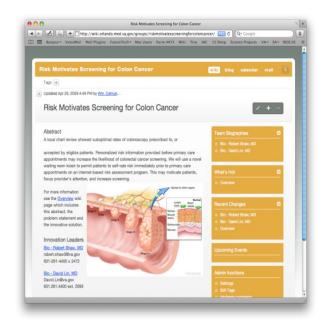
encourage the building

of com munities of

interest

• Innovation Sandbox:

Virtual software development environment



Innovation Initiative Process

- 1. Innovative idea competition
- Competition winners acquire hardware and program ming resources as needed
- 3. Innovation and development
- 4. Testing and certification
- 5. Deployment
- 6. Repeat Process

Top Down





Top Down Process

- Solicit and select leadership for problem /business im provem ent opportunity and selection
 - Veterans Integrated Service Network, Directors and Chief Officers
 - Reviewed and "graded" by Veterans Health
 Adm inistration Peer Review Team
 - Top rated topics move forward based on funding and resource availability

Top Down Process (Cont.)

- 2. Use fast-paced, collaborative methodologies to accelerate scope/prototype definition
 - User-centered design process
 - Analysis of the strategic topic
 - Design functional requirem ents and prototype





Top Down Process (Cont.)

- 3. Develop Innovation Project
 - Acquire contractor developm ent resources
 - Build a joint Veterans Health Administration and Office of Inform ation & Technology innovator team
 - Design functional requirem ents and prototype
 - Rapid, agile software development









Top Down Process (Cont.)

4. Conduct analysis for each high priority

area:

- · Current State
- Shared Vision
- Proposed Solution
- Stages of Innovation
- Questions for Users



Bottom Up Overview

Web-based Idea Management Software:

- Easy, convenient, electronically safe
- Encourages participation and enables collaboration

Employees:

- Submit ideas to improve the current process
- Strengthen and challenge others' ideas by posting com m ents
- Vote for ideas they believe will have the greatest im pact
- Recruit other em ployees to participate

Bottom Up Overview (cont.)

- Six Categories for Idea Submission
 - Engage Veterans
 - Aid Providers
 - Increase Transparency
 - Im prove Workflow
 - Continuous Im provem ent
 - The Babe Ruth Category

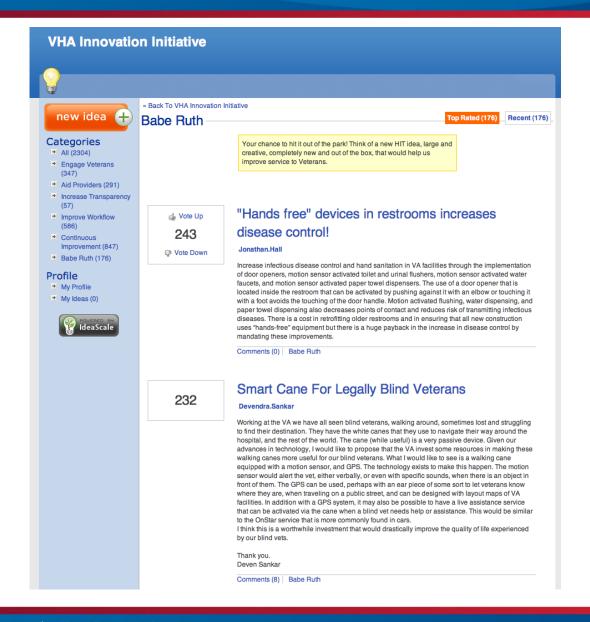
Bottom Up Overview (cont.)

- Thousands of ideas narrowed and developed into 100 full proposals
 - Crowd sourcing results used to identify the 75 most popular ideas
 - Oldeas voted up, voted down or commented on
 - O Incentives offered for top participants
 - VHA Under Secretary for Health designees select 25 additional "gem s" that were not identified by the voting process

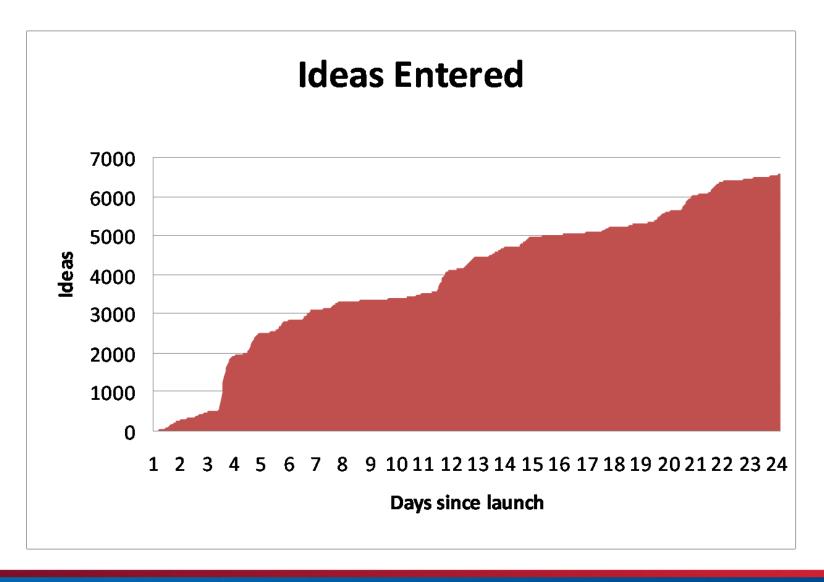
Bottom Up Overview (cont.)

- 100 full proposals narrowed to 25 funded projects
 - Six com m ittees random ly assigned innovation idea packages to rate using established evaluation criteria
 - Packages will include written proposals and an optional
 5 -m inute video
 - The highest rating innovations will be recommended for funding
 - O Average funding is estimated to be \$500,000 per innovation
 - [○] Total funding: \$10-12 Million

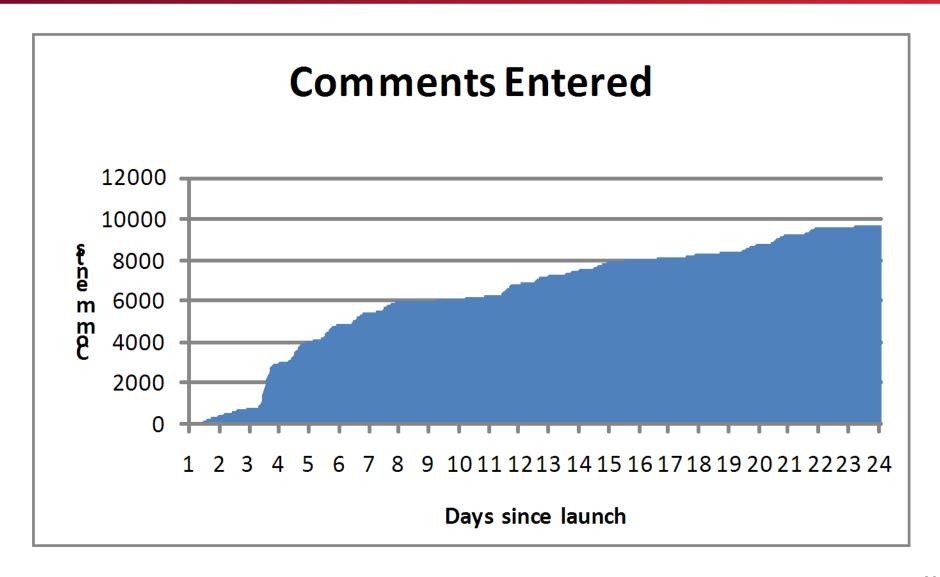
Bottom Up - Screenshot



Bottom Up Usage Statistics 2/5 - 2/28/2010



Bottom Up Usage Statistics 2/5 – 2/28/2010 (Cont.)



Bottom Up Statistics 2/5 – 2/28/2010 (Cont.)

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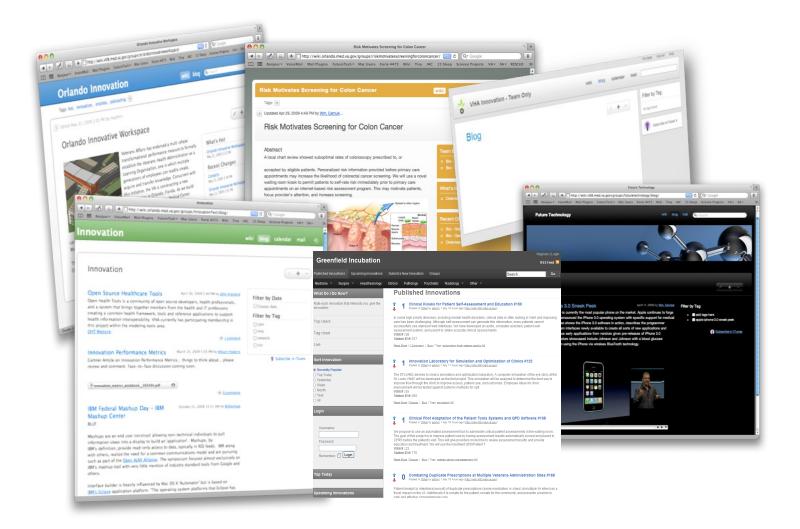
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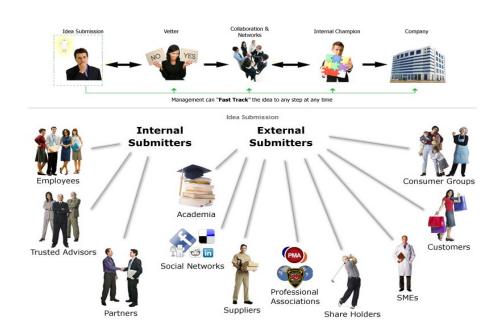
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Laboratory - Collaboration Tooling



Laboratory - Collaboration Tools: Future...

- Idea management: structured assessments, workflow, monitoring
- Knowledge sharing: search and browse innovation knowledge base
- Code management: software project functions such as configuration management, assignment tracking and bug reporting



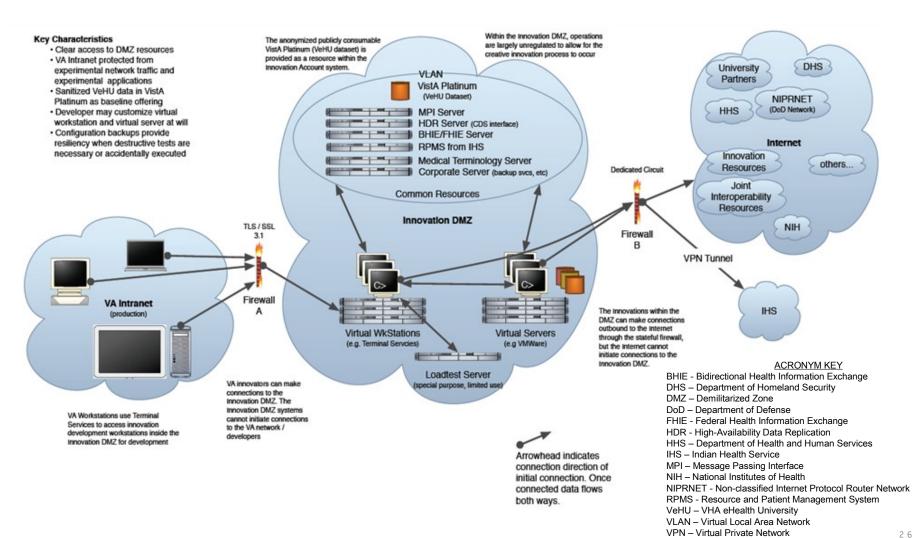
Laboratory - Innovation Sandbox



Laboratory - Innovation Sandbox (Cont.)

- The Innovation Sandbox is a:
 - Software development environment
 - Virtual space for people to collaborate,
 innovate, and develop ideas and requirem ents
 - Geographically limitless solution to the historic challenge of locally bound development efforts
 - Collaborative effort between Veterans Health
 Administration and the Office of Information &
 Technology
- The Sandbox is intended for anyone wishing to contribute ideas to VistA development

Laboratory Innovation Sandbox (Cont.)



Innovation Program Summary

- Transition the local innovation environment of the past to a virtual innovation community of the future
- Establish Veteran Health Administration and Office of Inform ation & Technology Innovation partnerships
- Foster innovation lifecycle from incubation to bedside
- Recognize innovation as a critical element of the workforce
- Create, connect, and em power innovators

We are already successful!!

Innovation

Innovation...

"The people in the field are the closest to the problem, closest to the situation, therefore, that is where real wisdom is."

(Former Secretary of State Colin Powell)

Innovation

