

CIMIT®

Center for Integration of Medicine
& Innovative Technology

The CIMIT case: Open Innovation in Healthcare



November 14, 2012

John M. Collins, Ph.D.
Chief Operating Officer, CIMIT
jcollins11@partners.org

CIMIT: A “Living Lab” of Open Innovation



CIMIT Mission:

***Accelerate the healthcare
innovation cycle***

By:

Facilitating collaboration

Between:

Disciplines & organizations

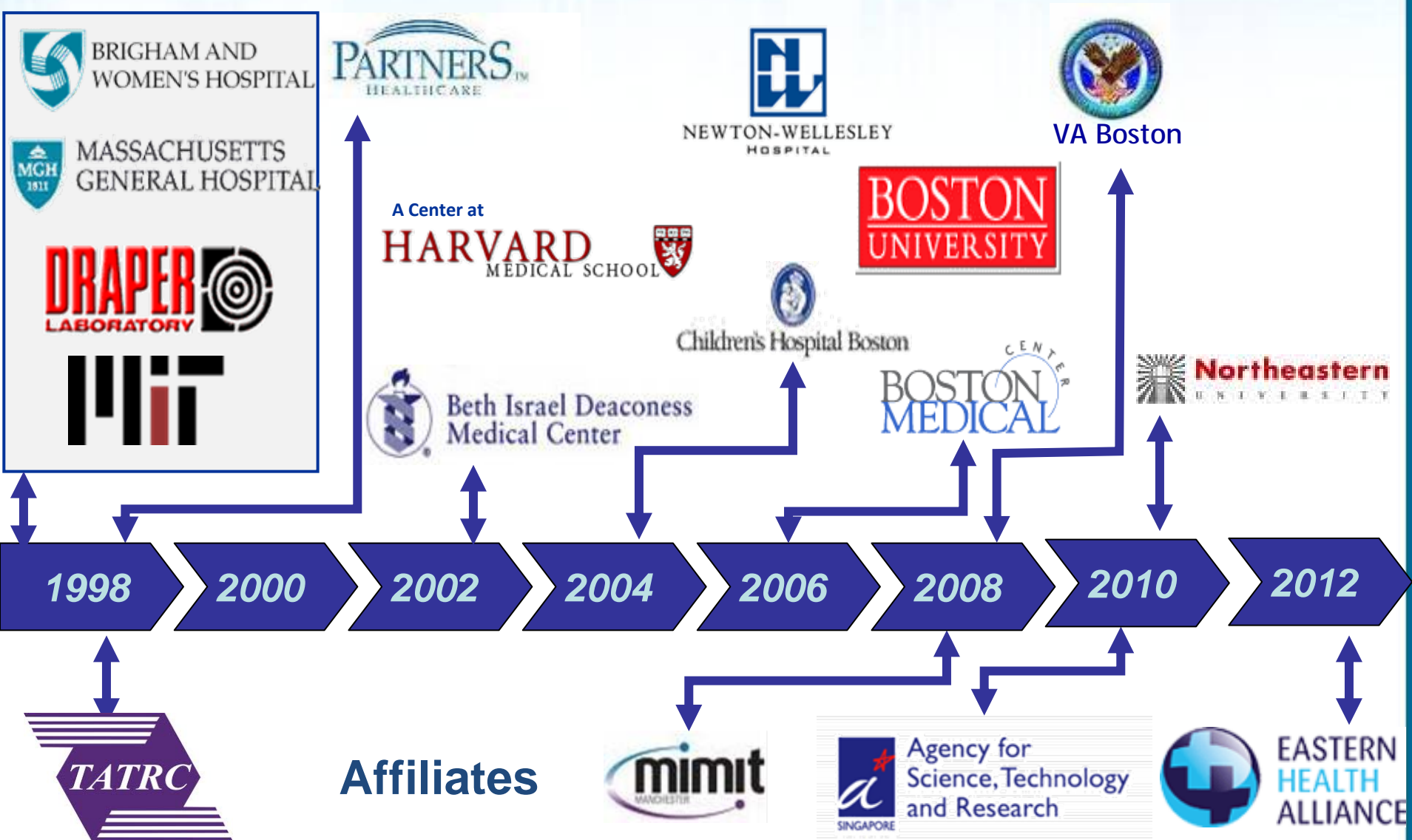
In:

**Creating novel products,
services and procedures**

To:

Improve Patient Care

The growing CIMIT Consortium...



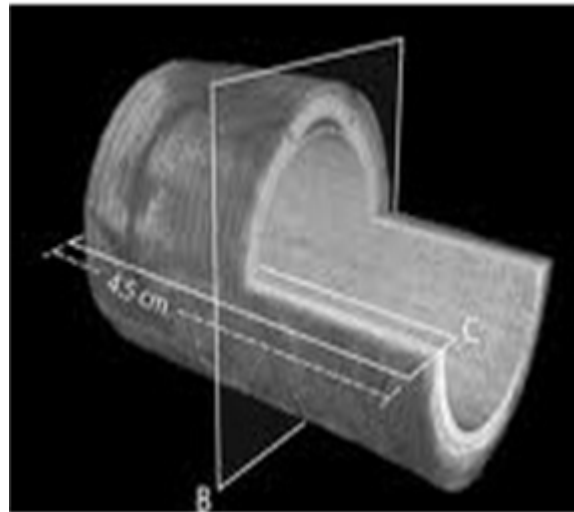
CIMIT Examples: 3 of >600 projects

Operating Room of the Future



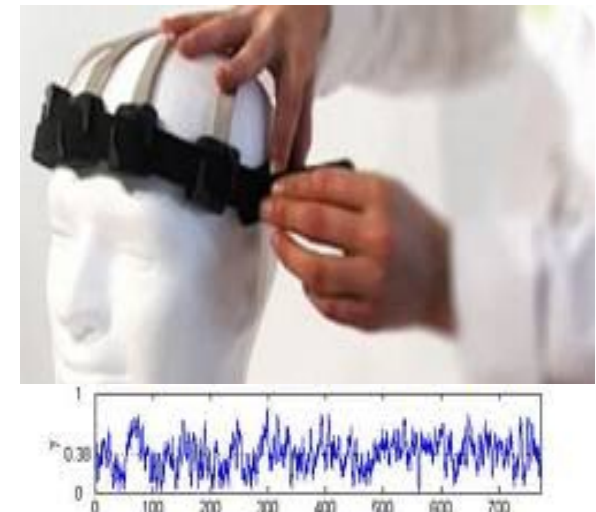
Procedures & Systems

Optical Coherence Tomography



Start-ups

Seizure Detection



Licensing

CIMIT's >14+ years as a "living lab" for Open Innovation

Innovation Experiences:

Image

A innovator has an idea that changes the world!



Reality

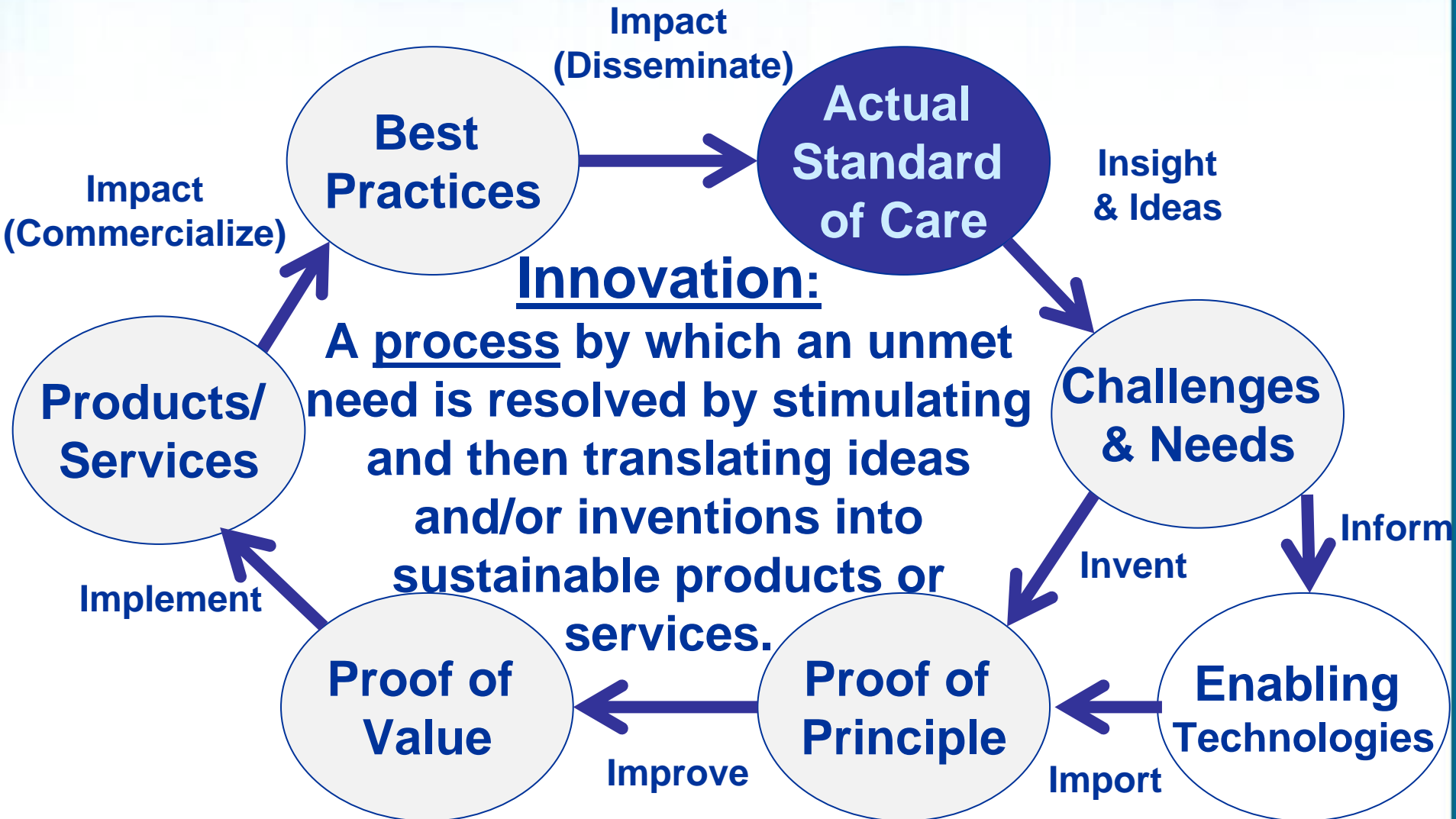
An innovator starts on a challenging journey that:

- Requires many steps
- Encounters many barriers
- Requires dispersed expertise
- Deals with different and misaligned “cultures”, and then

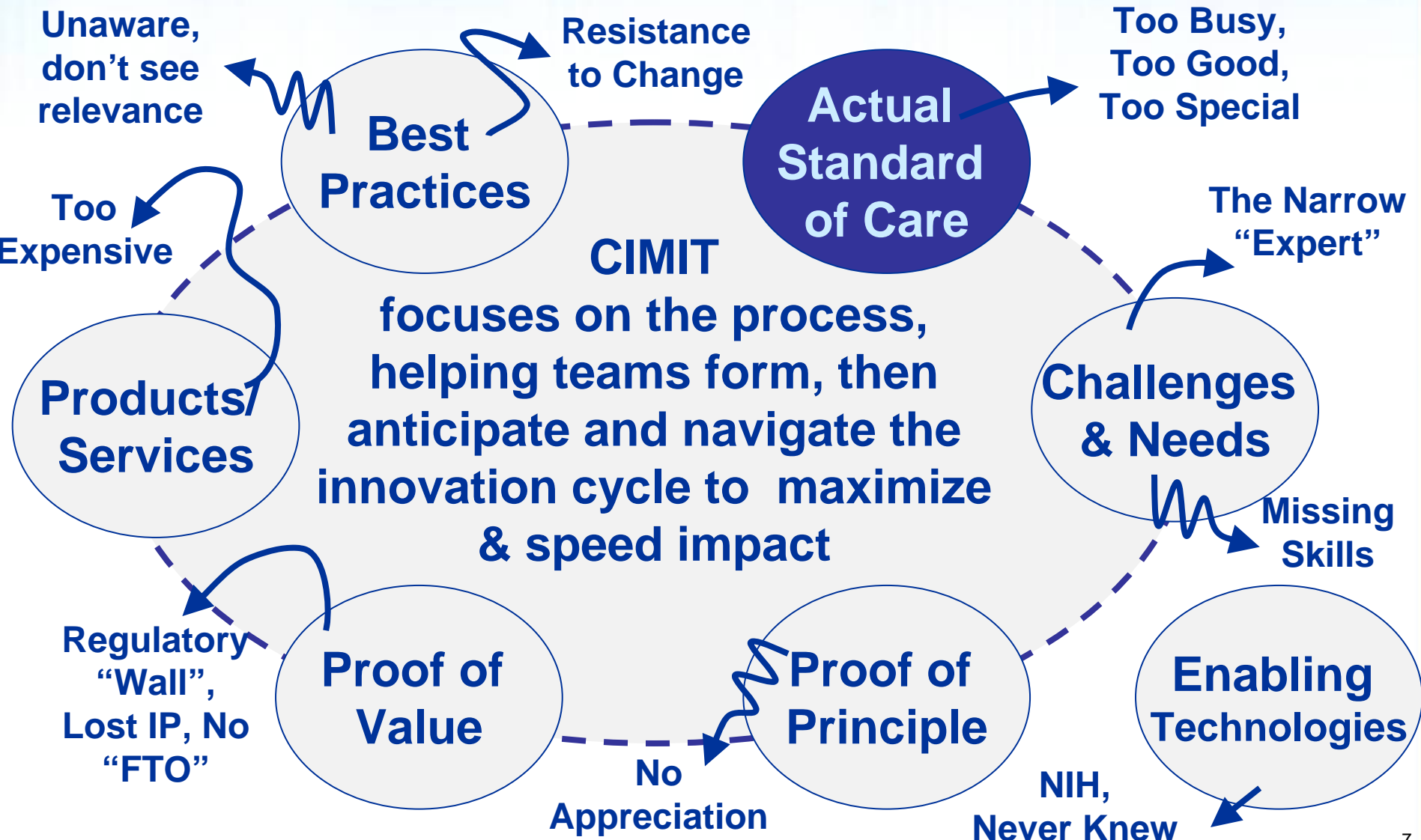


... changes the world!

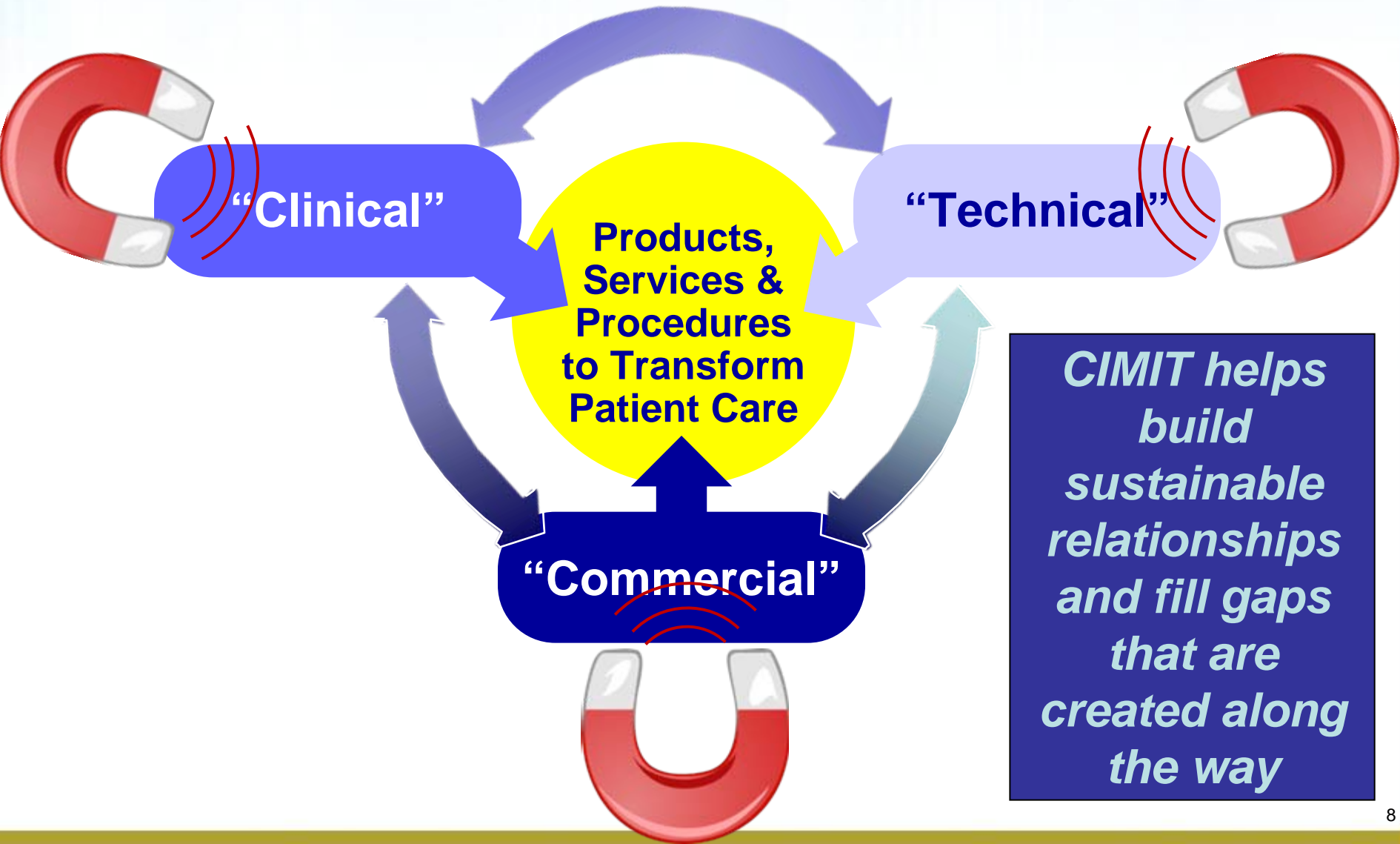
Healthcare Innovation Cycle



Healthcare Innovation Cycle

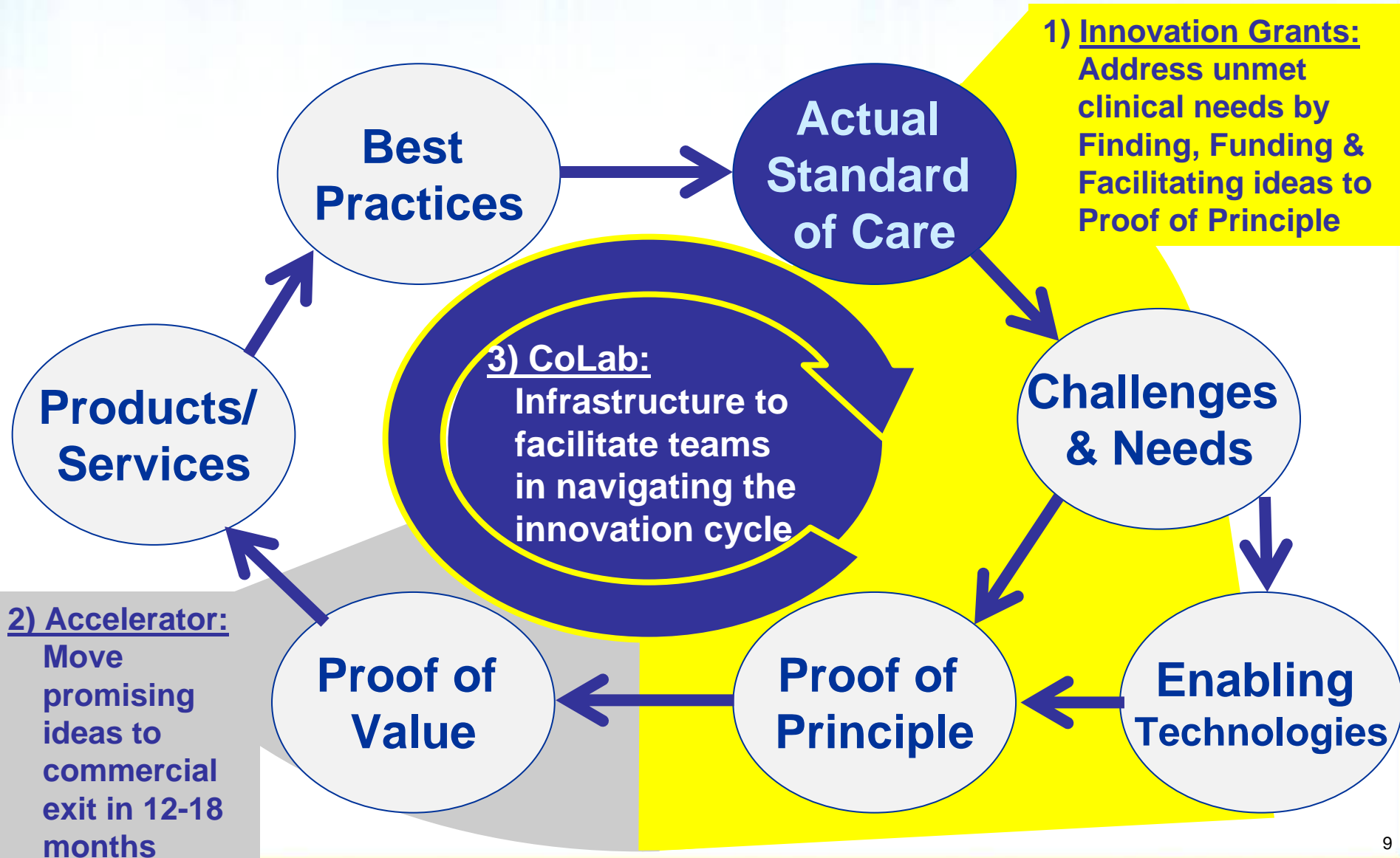


Challenge: Sustaining Collaborations



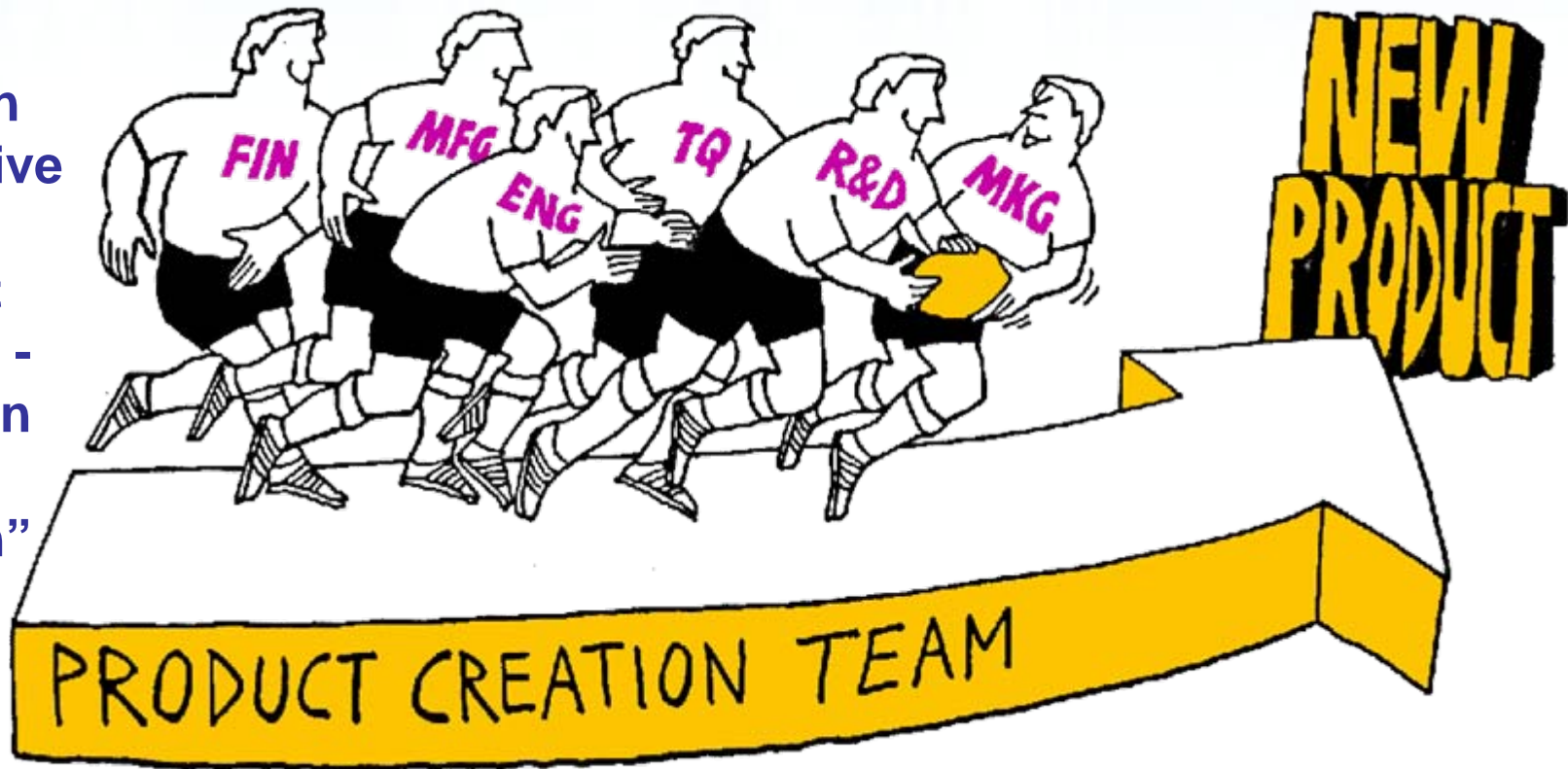
CIMIT helps build sustainable relationships and fill gaps that are created along the way

CIMIT's Strategic Priorities:



CoLab: Supporting Open Innovation Teams

Companies have long focused on collaborative teams to implement processes - and now on “Open Innovation”



Healthcare investigators have long practiced “Open Innovation”, but they must be supported in the journey.

CoLab: A Collaboration Platform

Know-How



**Scalable
Technologies**

Process/Models

- CIMIT Model
- “Open Innovation”
- “Lead Users”
- “Jobs-to-be-Done”
- Etc.

Available

- Data Bases
- Social Media
- Web 2.0
- Etc.

Knowledge in...

- People
- Networks
- Working Content
- Publications
- Etc.



Powered by:

Induct

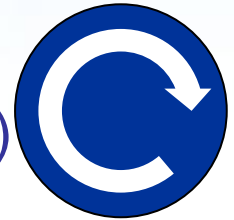
Enabling

- User Configurable Workflows
- Dynamic Networks
- Smart Search

CoLab: Product Architecture

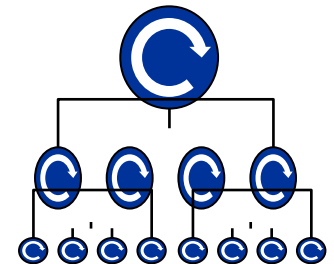
1) **Solutions:** A suite of tools to facilitate/manage at least part of the innovation cycle for an organization or group

- Includes pre-configured Modules (i.e. “functionality”)
- Users can re-configure or create own Modules
- Fees base on size and functionality



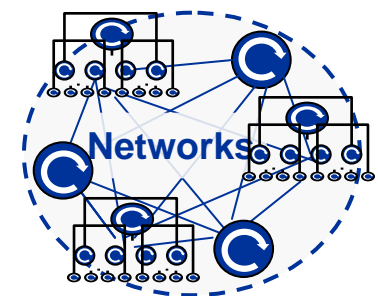
2) **Enterprise:** Linking and coordinating collaboration and innovation activities for an organization

- Reporting and sharing requirements established
- Flexibility for each group to go beyond base req's
- Discounts based on number of Solutions



3) **Networks:** Solutions and/or Enterprises that choose to coordinate, share and collaborate.

- Accessible by any invited Solution or Enterprise
- Voluntary sharing rules
- No incremental fees



CoLab: Pre-Configured Modules

Solicitation Coordinator

- ✓ Needs & Ideas Capture
- ✓ Proposal Process Manager
- ✓ Impact Planner
- Campaign Manager

Knowledge Curator

- ✓ Workgroups
- Connector
- Content Curator
- Funding Finder
- Regulatory Master Filer

Portfolio & Impact Tracker

- ✓ Portfolio Manager
- Project Tracker
- Impact Register

IP Facilitator

- Intellectual Property Curator
- IP Bus. Dev. Manager
- IP Licensing & Ops Manager

Innovation Disseminator

- Best Practices Curator
- Procurement Facilitator

Enterprise Director

- Sharing Rules Manager
- ✓ Report Creator

✓ Indicates part of base Solution (others still in development)

CoLab: Challenge & Idea Example

Focus area:

[Volver a la página principal](#)

Show: (18)

Más eficaz en su trabajo?
¿Qué innovaciones podrían importar de otros sectores?

Número de votos positivo: 1

Número de votos negativos: 1

| | | | |
|---|--|---|---|
| <p>¿Es una urgencia?</p> <p>Marina Llobet Garcés</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> <p style="text-align: center;">Quitar el voto</p> | <p>Check-in hospitalario vs Check- in Hotelero</p> <p>Xavier Sole Saez</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>child-net</p> <p>Joan Ras</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>El libro de la cultura de Zappos</p> <p>Jorge Juan Fernandez Garcia</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> <p style="text-align: center;">Quitar el voto</p> |
| <p>Empoderar al paciente con técnicas de coaching</p> <p>Maite Sanchez-Mora</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>espacios telemáticos de interconsulta primaria - especializada</p> <p>rosar valverde perez</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>Gestió Activa del Espacio-Tiempo en Salas de Espera</p> <p>Xavier Sole Saez</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>Introducción de códigos QR o NFC en ámbito del hospital</p> <p>Santiago Garcia-Tomei</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> |
| <p>LA SILLA VACÍA</p> <p>Marta Segura</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>Máquinas de extracción de sangre tipo cabina de fotos o quiosco</p> <p>Pierfederico Briani</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>Mejora de relaciones entre servicios</p> <p>Montserrat Serrano Bolumar</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> | <p>Mejora en la atención del cliente.</p> <p>Montserrat Serrano Bolumar</p> <p style="text-align: right;">Leer más y comentarios</p> <p style="text-align: center;"> </p> |
| <p>Plataforma de Benchmarking de Indiadores</p> | <p>Realidad aumentada: 1 apuesta para hospitales liquidos</p> | <p>Salas de reuniones al estilo cibercafé</p> | <p>SCRUM</p> |

CoLab: Proposal Process Example

Overview
Tasks (0)
Documents
Team
Process
Scorecard
Log
Settings

This document belongs to the task

Complete Idea Capture Form
Felice Espiritu
- Not solved

Innovation Challenge Idea Capture Form

Revision: 1 (Friday, June 22, 2012) [Export this page to pdf](#)

Note: To add collaborators to your team, please go to the team tab above

1. What is the issue or problem you want to solve? (100 word max)

test

Edit

2. What is your innovation/idea/ proposed solution? What is the hypothesis you want to test through a proof of concept, and why do you think it may work? (100 word max)

Required

Edit

3. How will you determine success? What resources are needed? (100 word max)

Required

Edit

4. What is technologically innovative about your proposal? (100 word max)

Required

Edit

Create new web document

Upload file

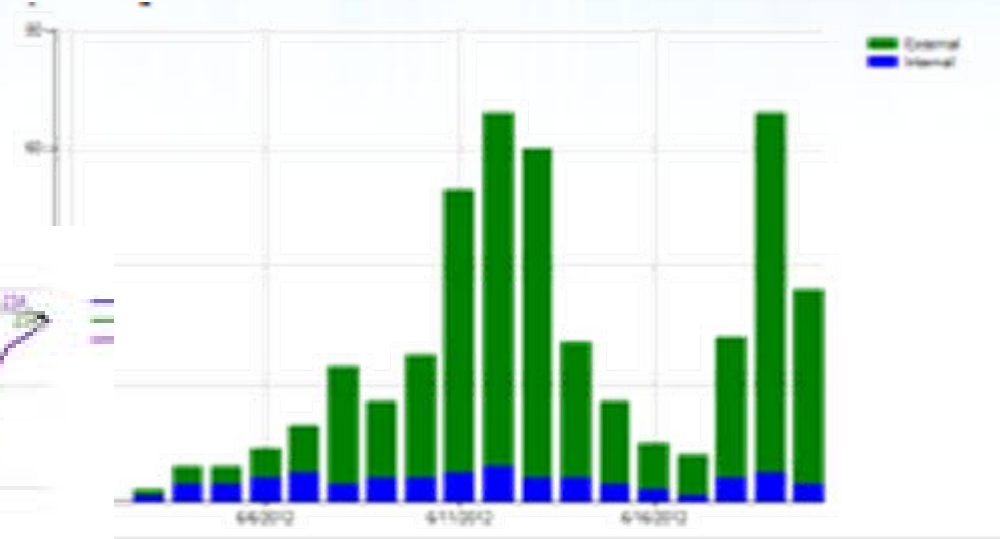
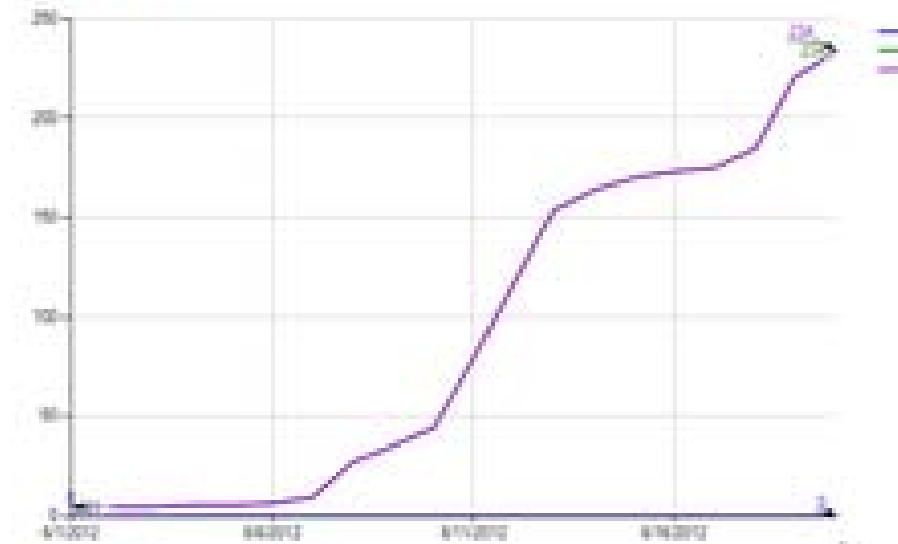
Innovation Challenge Idea Capture Form

Document Tab Instructions

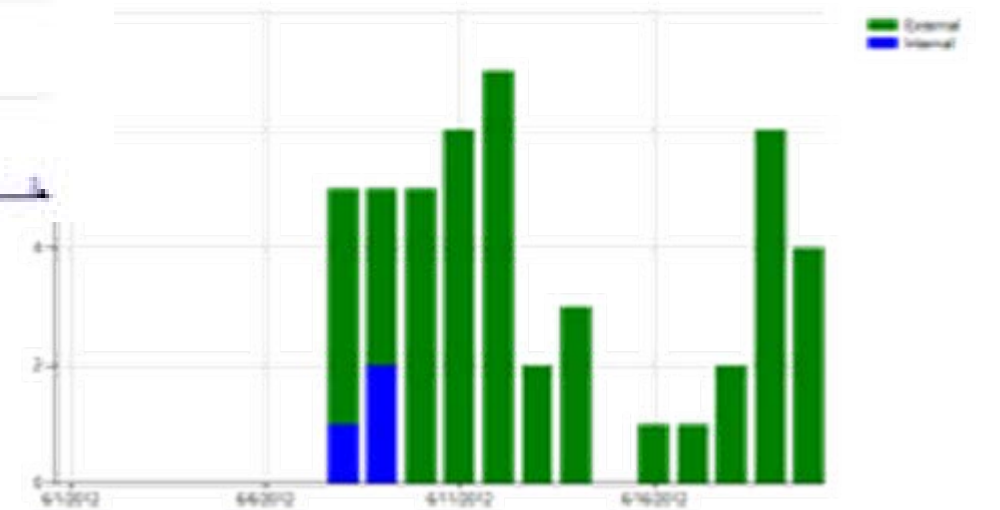
Idea Overview Form

CoLab: Usage Reporting Example








Registered Users



x who has registered initiatives



CoLab: Portfolio Management Example

-  Ideas
-  Proposals
-  Info per focus area
-  **Innovation funnel**
-  Decision quadrant
-  Idea selection
-  Statistics

Innovation pipeline

Choose initiative type:

Proposals ▾

Choose type of innovation:

Accelerator Program ▾

| Status | Expression of | Eol Review | Define Impact | Final Review | Implementation |
|---------------|---------------|------------|---------------|--------------|----------------|
| Active | 5 | 5 | 3 | 0 | 2 |
| On hold | 0 | 0 | 0 | 0 | 0 |
| Stopped | 0 | 0 | 0 | 0 | 0 |
| Total: | 5 | 5 | 3 | 0 | 2 |

The cell number does not necessarily equal the items available in the drill down, due to different access levels.



[Organ Solutions](#)

Updated at 3/19/2012. Created by Mike Dempsey



[Hand Hygiene](#)

Updated at 3/22/2012. Created by John Collins

CoLab: Clinical Impact Registry



Test Impact Registry

Tor Andre Johansen

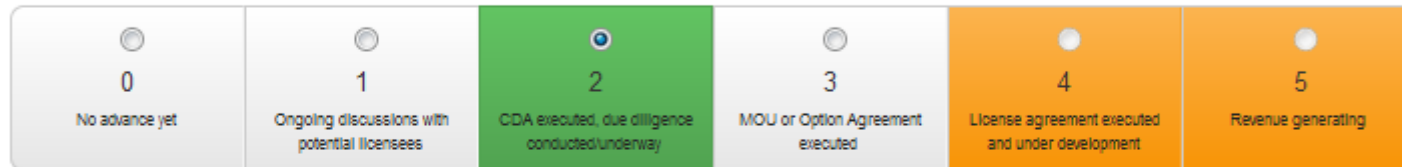
Current stage: Kladd

- Overview
- Tasks (0)
- Documents
- Team
- Process
- Scorecard
- Impact Registry
- Log
- Settings

Output Metrics

Clinical Adoption Score: 2.5 ▶

Commercialization Score: 2 ▼



Inputs needed to be able to score above 3

Commercial Investment

Revenue created

Number of Jobs created

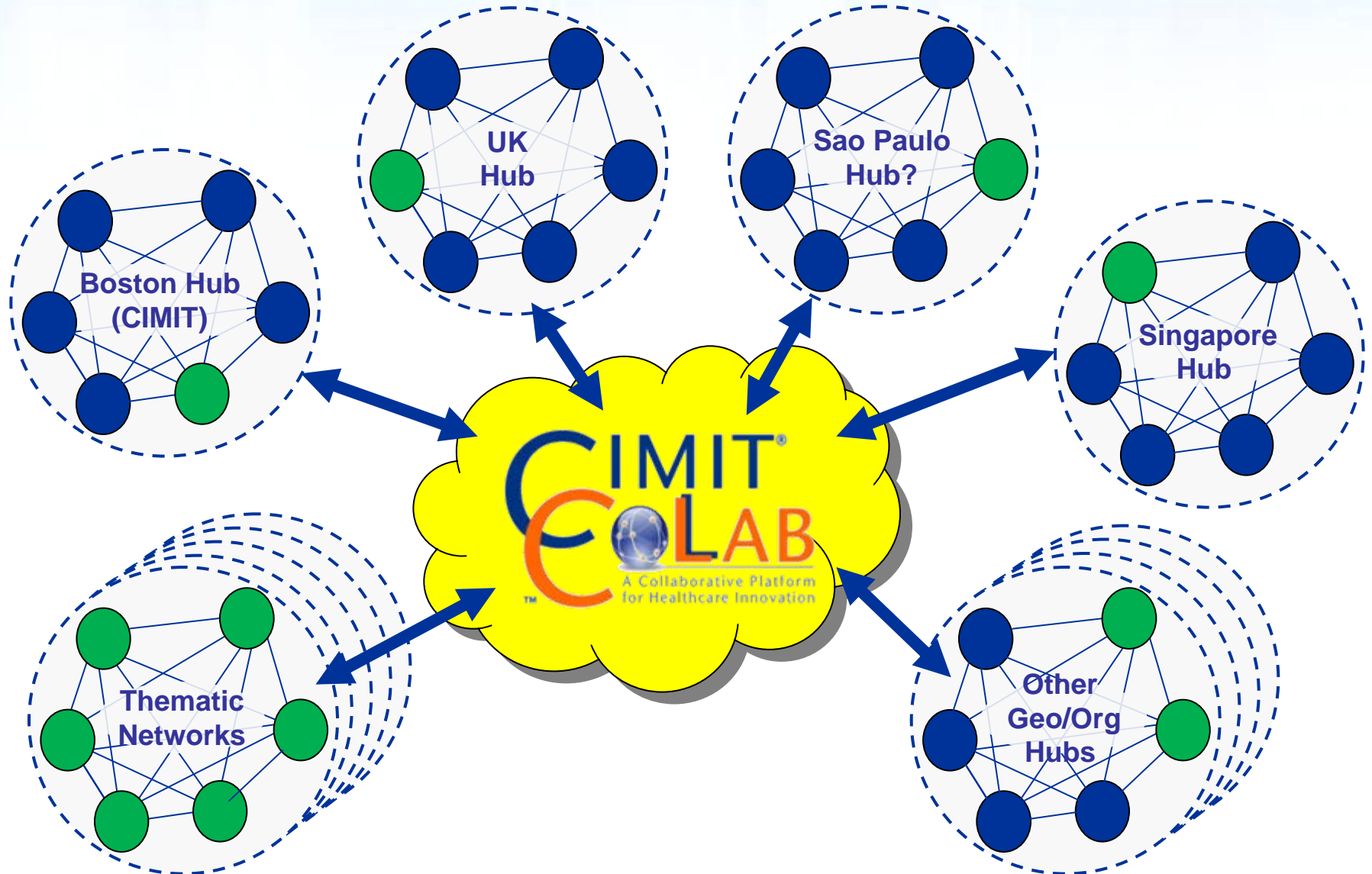
Save values

Special Interest Group Impact Score: 1 ▶

Intellectual Property Score: ▶

Publications Score: 2 ▶

Vision: Collaborative Network of Networks



Key Points:

- **Innovation in healthcare is:**
 - Inherently “Open”, but often based on individual investigators/labs who are not prepared for the journey
 - A process like any other, it:
 - Requires expertise in addition to content expertise
 - Can be practiced, measured and improved
- **Support navigating the healthcare innovation process is critical, tools to help should be:**
 - Dynamically secure in connecting people/resources.
 - Easy to use by clinicians, patients and other stakeholders
 - Simple to configure by “process owners” and leverage proven experiences.