

A detailed technical drawing of a mechanical assembly, rendered in white lines on a dark blue background with a grid pattern. The drawing shows various components of a machine, including a large cylindrical part, a smaller cylindrical part, and several curved, semi-circular components. Dashed lines and arrows indicate the assembly process and the relationship between different parts. The drawing is a perspective view, showing the three-dimensional nature of the components.

# New Technology that Improves Business Efficiency in the Laboratory Environment

March 29, 2012

The logo for CABEM TECHNOLOGIES. It features the word "CABEM" in a large, serif font, with a small starburst symbol above the letter "A". Below "CABEM" is the word "TECHNOLOGIES" in a smaller, sans-serif font. The entire logo is white and positioned in the bottom right corner of the slide.

**CABEM**  
TECHNOLOGIES

## Goals for the Discussion

- ★ New Information Technology Trends
- ★ Case History: What is NTS Doing
- ★ Demo vLabs: Embracing New Technology
- ★ Open discussion and Questions

*We hope to encourage lively and detailed discussions  
On IT topics of interest for Laboratory Environments*

## About CABEM and NTS

**CABEM Technologies** a small business with a core heritage in custom software development, provides sophisticated software products, solutions and technology services to a discerning client base.

**National Technical Systems** a diversified engineering services company, providing a wide range of product design consulting services, testing and certifications, and supply chain management solutions

*Been working together since 2002!*

## About The Presenters

**Old: Art Villa** is the CIO at National Technical Systems  
(25 years Test and Software experience)

**Older: Brian Matthews** is the CIO and Co-Founder at  
CABEM (30 years Software Developer experience)

**Oldest: Jay Fredkin** is The President and Co-Founder  
of CABEM (30 years Test and Software experience)

*Been working together since 2002!*

## What does New Technology Mean?

- ★ Tools of the trade are changing
- ★ Extrinsic Change is Ongoing
- ★ **Intrinsic Human Behavior stays the same**

Its not Going away!!!

What do you do with it?

How can you embrace it in a productive manner???

## Technology Areas of Interest

- ★ Cloud
- ★ Mobile applications
- ★ Next Gen Business analytics and intelligence
- ★ Social Communications
- ★ Video
- ★ Ubiquitous computing

*“state of the market” areas of interest in 2011 according to Tiffani Bovi of Gartner*

## What Gartner doesn't Talk About

- ✦ Best Practices and Workflow
- ✦ Continuity of Information (and Processes)
- ✦ Planning and Anticipating Change

*Half of information technology is figuring out what you want to do, the other half is doing it*

## Social Communications(#1)

- ✦ Game Changing Communication and Interaction
- ✦ Workflow and Best Practices
- ✦ Participant and Organizational Process Control, Collaboration and Integration

*Collaboration for cost savings  
and innovation*



## Mobile (#2)

- ✦ Constantly Increasing Use
- ✦ Replacing Desktops, Laptops
- ✦ Applications can be Browser or Native (Android, IPAD),
- ✦ Will evolve at an even faster pace

*Whose not using their mobile to get contacts, check schedules, access the news, make payments or turn up their heat?*

## Business Analytics (#3)

- ✦ Focuses on interactive investigation by users)
- ✦ As opposed to Business Intelligence (dashboard and predefined reports)
- ✦ An area of Uniqueness and Creativity for Businesses

*Requires continuity of information – and then query interactively by comparing and contrasting info you want to see*

## Ubiquitous Computing (#4)

- ✦ Computations anywhere
- ✦ Multiple computers providing the solution (unknown to user)
- ✦ Mobile needs (traditional Interfaces obsoleted)
- ✦ Test Labs can remotely access and manage their business

*Getting computer power when, where, and how the user wants*

## Cloud (#5)

- ✦ Storage of Information
- ✦ Software as a Services (SAAS)
- ✦ Quickly Scalable
- ✦ Lets someone else worry about Infrastructure

*You are using the cloud already,  
and you can expect to be using it  
more.*

## Video (#6)

- ✦ Constantly Changing
- ✦ The New Way of Documenting
- ✦ Recorders used from Mobile to sophisticated robotic deployments

*The use of video recording and viewing is exploding, it is being used to document every part of society*

## What About Security

- ★ The good news your info is available – the bad news your info is available
- ★ Infrastructure , Systems and Hardware are affected
- ★ Software and Applications are affected
- ★ Personnel are affected
- ★ Your Business can be adversely affected

*Security is a dynamic process,  
the bad guy doesn't stop trying*



# vLabs: Game Changer

*Finally* an IT solution built for the Equipment Test Industry.

Whether you are a Laboratory or a Manufacturer, big or small, if you are involved in equipment testing, you need to check out vLabs because...

*It's designed for you!*



(508) 541-3123 ✪ FRANKLIN, MA ✪ [WWW.CABEM.COM](http://WWW.CABEM.COM)

## Gartner's Market Areas of Interest

- ★ Cloud
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- ★ Video
- ★ Ubiquitous computing

**CABEM Livia\_vLab**  
powered by CABEM

*vLabs has components that include all market areas of interest listed by Gartner*



## vLab Capabilities and Components:

- **Project View:** Manage, Schedule and Communicate
- **Lab View:** Manage Equipment, Labor, and Costs
- **Supply Chain:** Manage Test Labs, Manage Suppliers
- **Teams:** Organize and Collaborate, Chat Live
- **Schedule:** Lab Equipment, Material & Labor
- **Remote Witness:** See the Test, Spec, and Data Live
- **Record:** Save and Witness with Next Day Replay
- **Test Data:** Network, Save, and Publish Lab Data
- **Documents:** Organize, Publish, and View Information
- **Reports:** Build and Publish Reports
- **Workflow:** Built In; Plus Custom Capability
- **Remote Control:** Operate Test Equipment Virtually
- **Metrics:** Access Trends and Usage Patterns
- **Integrate:** Built in Financial and ERP Touch Points
- **Backup:** Automated Laboratory Backup System
- **Security:** Uses Authentication, SSL, and Encryption
- **Hardware:** Servers, Cameras, Appliances