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5 Things You Need to Know for Leading a Successful Large IT Modernization Project

Stephany Bellomo
Felix Bachmann

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA  15213
Polling Question 2

Have you ever been involved in a modernization effort?

a) Yes
b) No
Polling Question 3

On a scale of 1 to 5 can you rate the success of that effort? (5 being most successful)

a) 1
b) 2
c) 3
d) 4
e) 5
Data Collection

- Know where you want to be - “Realistically”
- Know where you are - “Honestly”
- Know what you need - “Affordably”
- Know how to move forward - “Cautiously”
Data Collection

- Know where you want to be
  - “Realistically”
- Know where you are
  - “Honestly”
- Know what you need
  - “Affordably”
- Know how to move forward
  - “Cautiously”
Know where you want to be

It is easy to list all the great cool things you want to use in the future

- Introducing new technologies. Such as service oriented or perhaps micro services
- Utilizing new hardware, such a multi core
- Ability to support fast and agile feature development

What factors hindered you in the past to always get what you needed?

- New technologies come have a learning curve
- Is there an agreement on the requirements
- Will modernized system require the business processes to change
Know where you are

Determine which of the implemented solutions caused you to do the modernization.

- Old design principles, such as let the database run everything?
- Plethora of outdated technologies?
- Dependencies that inhibit scaling?

What went wrong in your organization that led to these issues?

- Skill set of your employees?
- Competition between “siloed organizations”? 
- Prioritized funding decisions favoring new features?

Conway’s Law
Organizations which design systems … are constrained to produce designs which are copies of the communication structures of these organizations

Know what you need

For the endeavor to be successful you need tool support and adjusted processes.

- Automated regression testing?
- Appropriate documentation / models?
- Synchronization of old data model with new data model

If you do not have that support now, what were the reasons?

- Right skill set of the people doing the modernization
- Necessary training in place
- Right contractors selection?
- Enforcement of essential principles?
Know how to move forward

Technical Roadmap

- Use of new technologies is risky.
  - plan for feasibility studies / Prototypes
  - off-the-shelf product integration
- Plan for backing out off a technology in case it shows to be inappropriate

Strategic roadmap supporting technical roadmap.

- Set up a steering group
- Set up the funding model
- Set up review boards
- Set up investment management
Iteratively move forward
Periodically Re-evaluate Roadmap

Roadmap defined

Revalidation of Roadmap
Periodically Re-evaluate Roadmap

Revalidation of Roadmap
Periodically Re-evaluate Roadmap
Continuously Update the Modernization Artifacts

Adjust Activities as needed