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IT at the speed of business

**Managing, Architecting, and
Planning an Application
Modernization Project**

agility
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Next-Generation Mainframe Management

MI360SN

Managing, Architecting, and Planning an Application Modernization Project ...Or how not to throw the baby away with the bath water

Linda J. Casey
Run Right, LLC

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- In this session we cover the big picture and architectural issues involved with modernizing online CA IDMS™ applications into web-enabled apps. We look at the concepts, goals, risks, costs and ROI from a management and practical perspective. Also included are various methodologies used for transforming and extending existing systems for years ahead. This session is relevant for both CA IDMS technical staff as well as management and architects.

Linda J. Casey, PMP, MS Ed, CSM



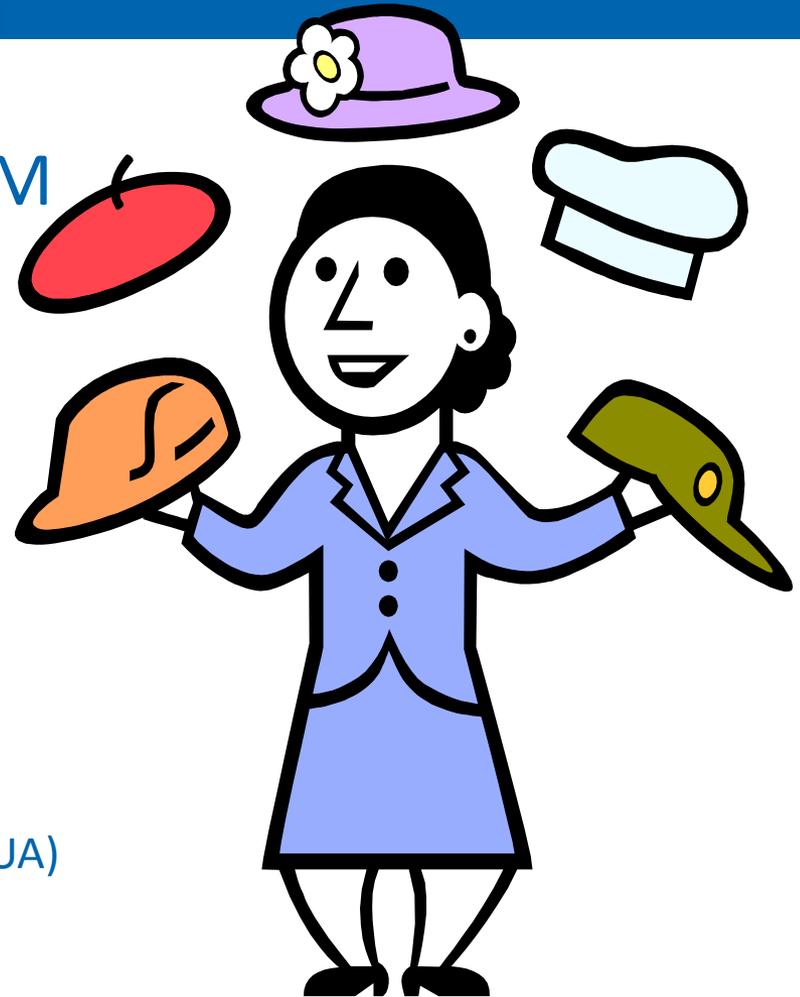
Managing Member, Run Right, LLC.

International Chair, IDMS User Association (IUA)

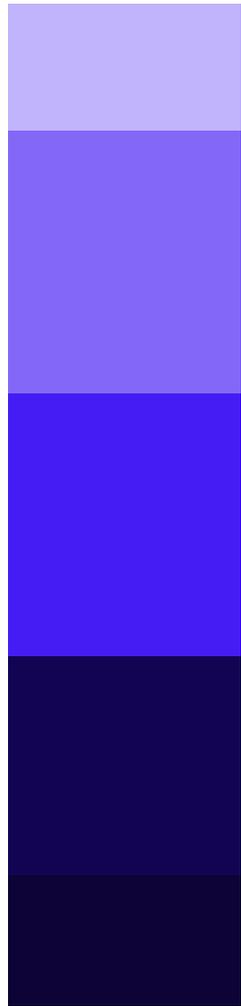
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Agenda



What are you trying to accomplish?

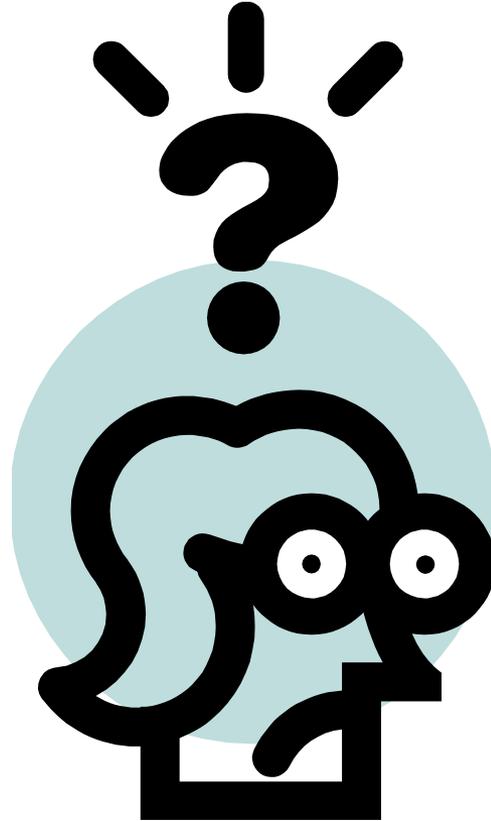
Where are you now?

How do you get there?

A Practical Case Study

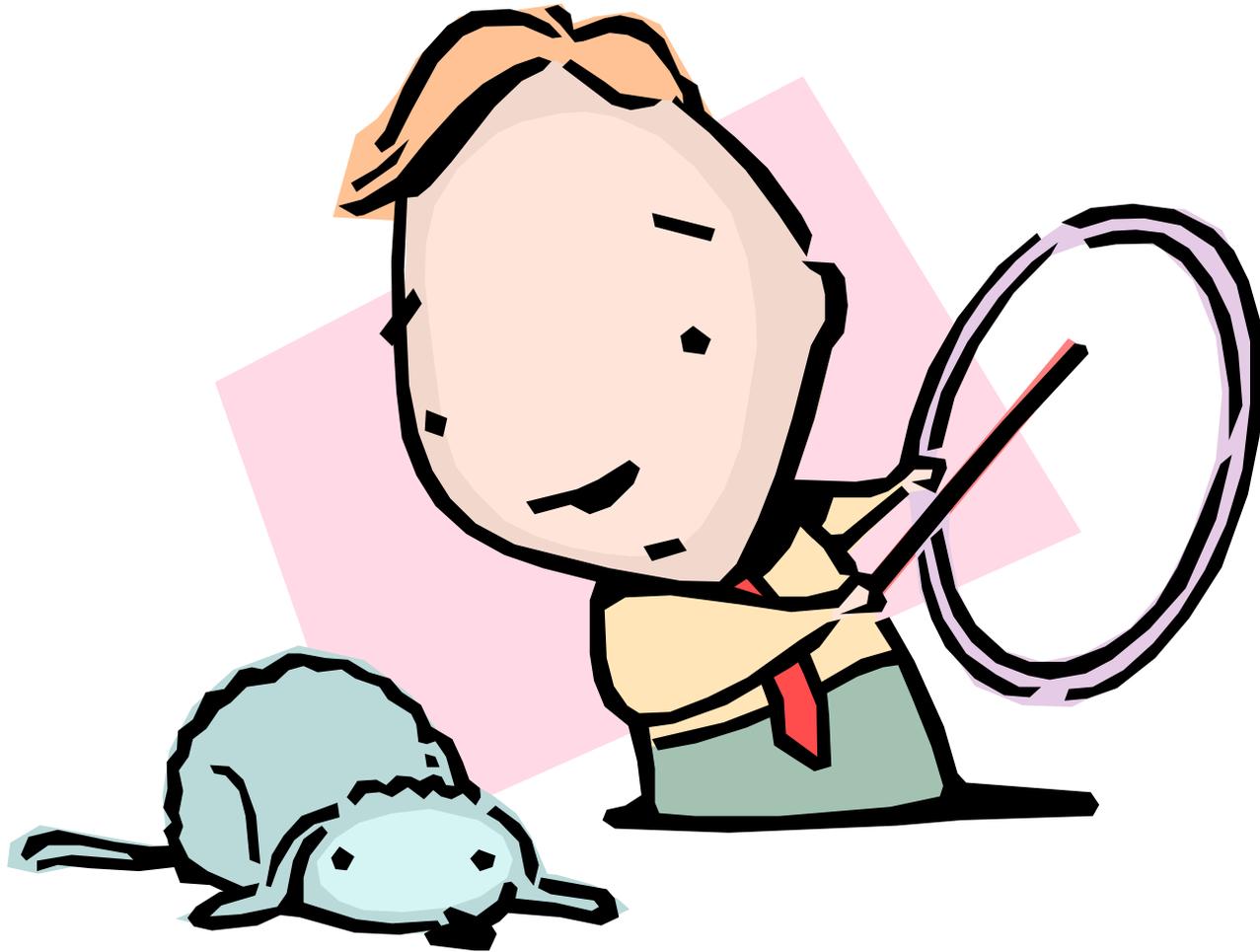
Things to ponder

What are you trying to accomplish? Or defining your goals and objectives.....



What does Modernization mean to you?

Let's think about it another way...



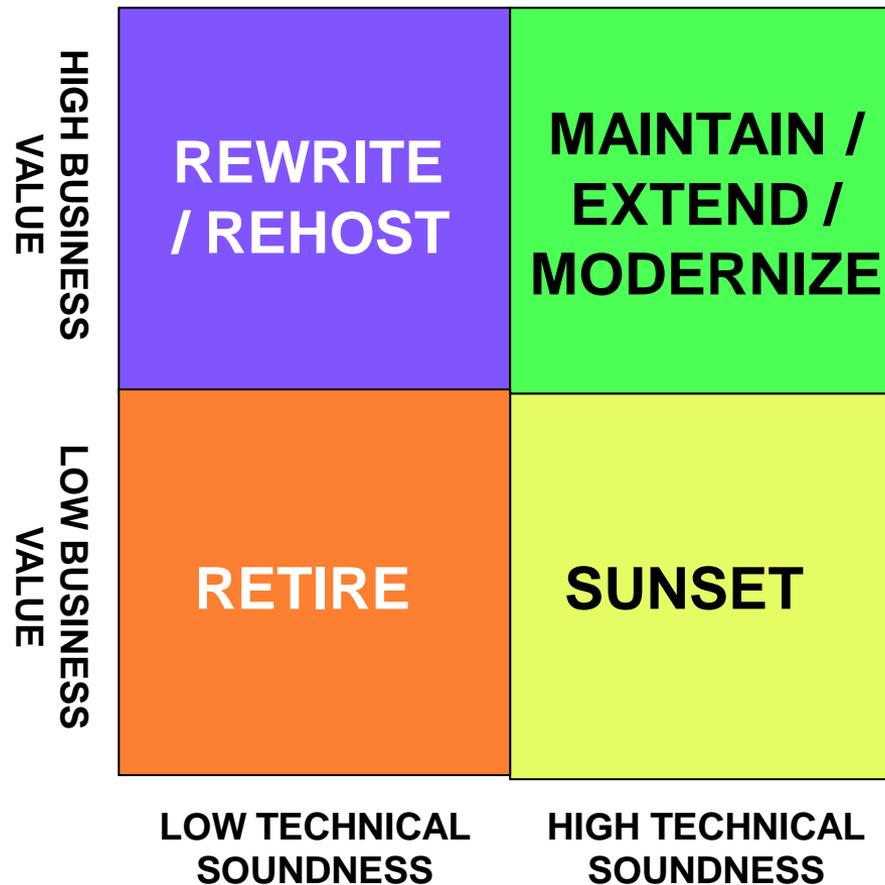
Why establish goals & objectives?



OR

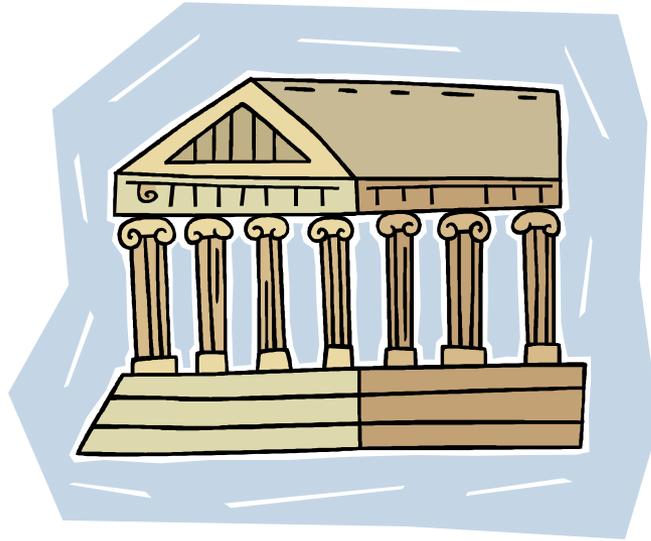


Modernization feasibility matrix



after Gartner

Where are you now?



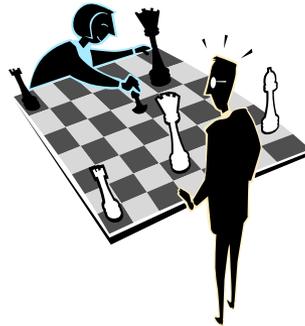
“Know Thyself”

Understanding the system's importance to the organization

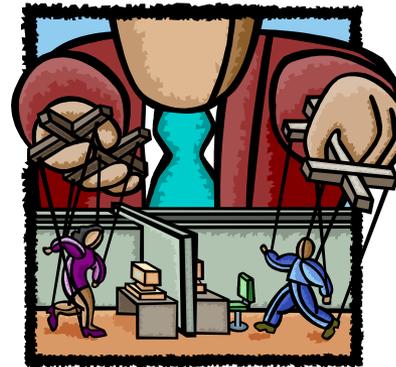
Historically



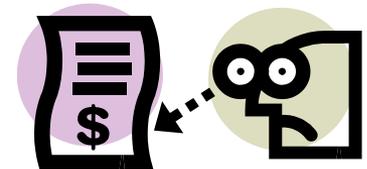
Strategically



Functionally at all layers of management



Bottom Line Contribution



Understanding the system's functionality



Documentation

Original Developer/Designer

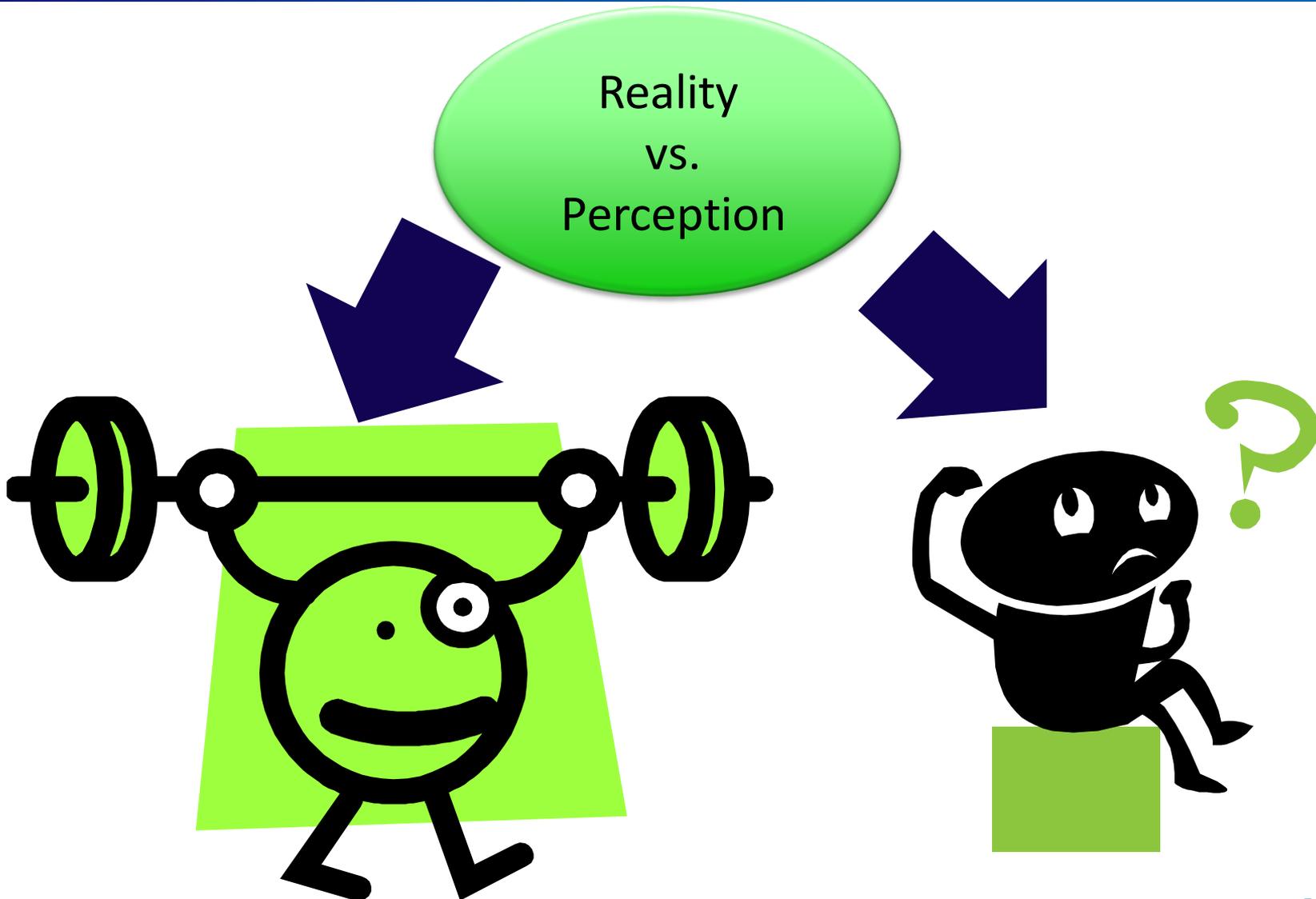


Business Rules

Discovery Tools



What is the system's technical robustness?



Why is an understanding of the current system important?



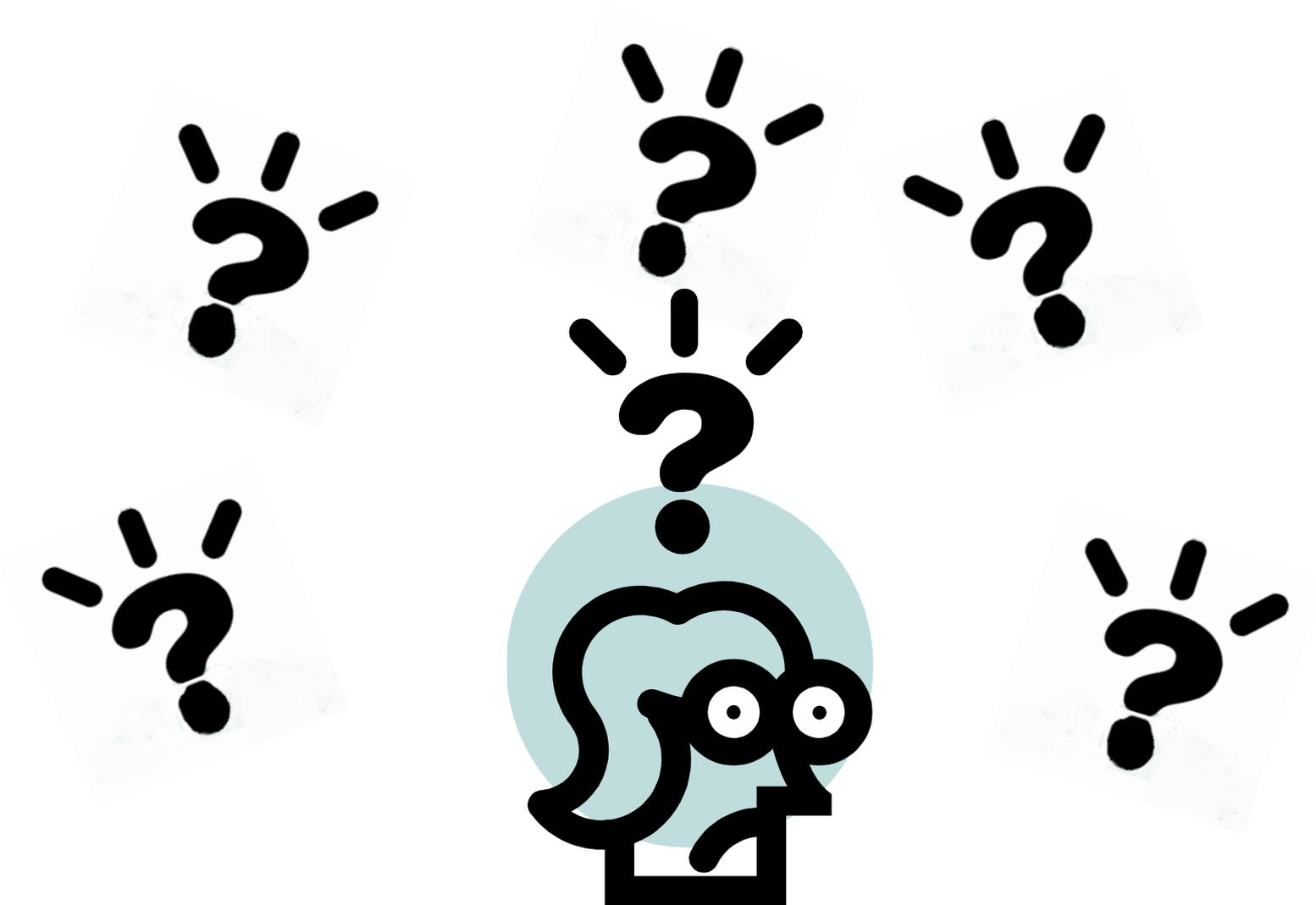
How do you get there?

Plotting,
Planning and
Selling.....



Or how do you get your modernization project
from conception to project kickoff?

What options do we have to choose from?



Data and logic



What options do we have to choose from?



- ODBC/JDBC
- Procedures
- TCP/IP with Sockets
- Screen Scraping
- Third Party Products

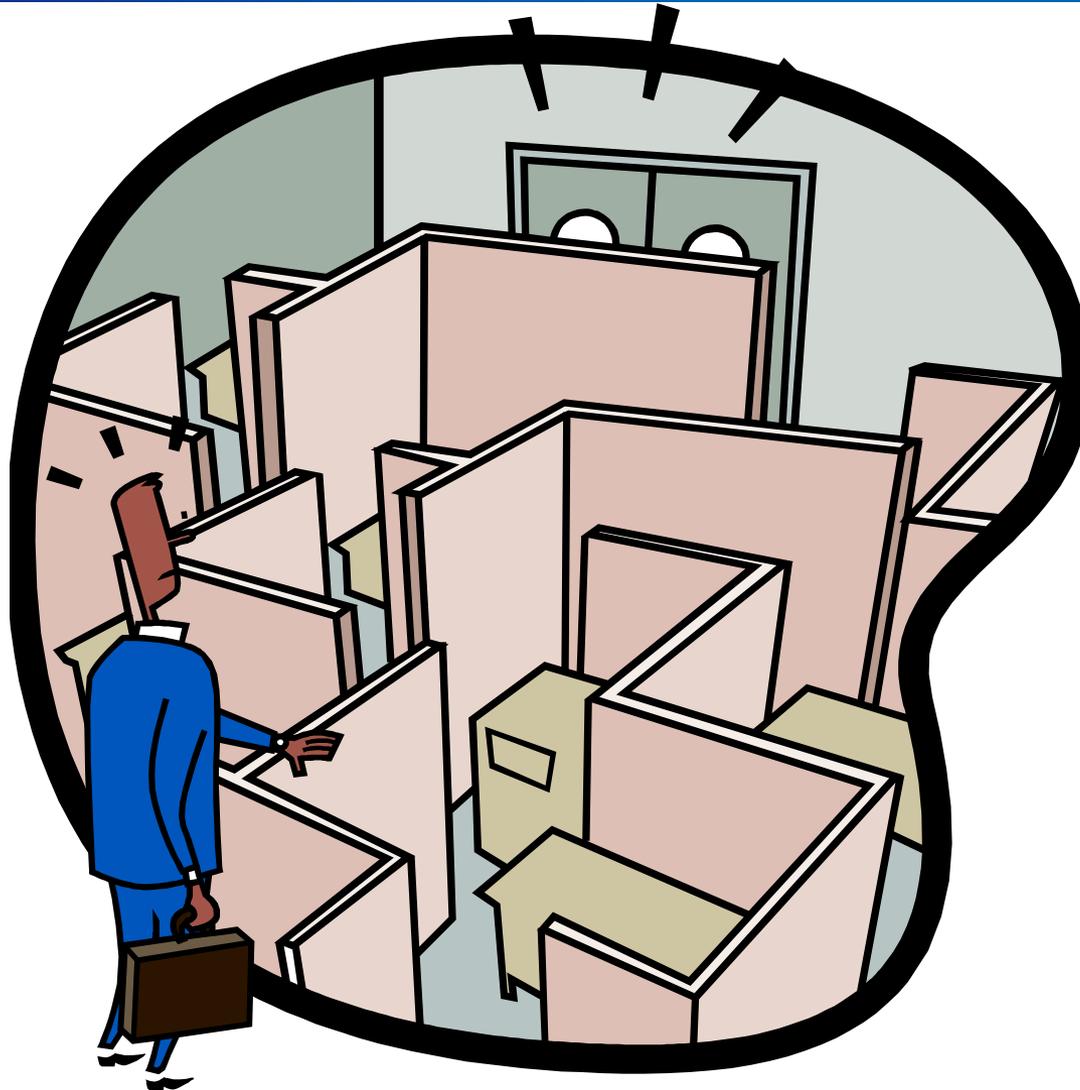
What will our direction be?



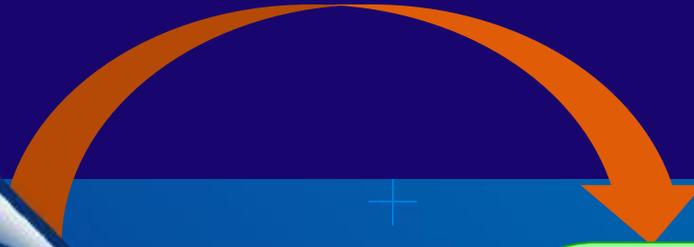
Management buy-in



Still confused?



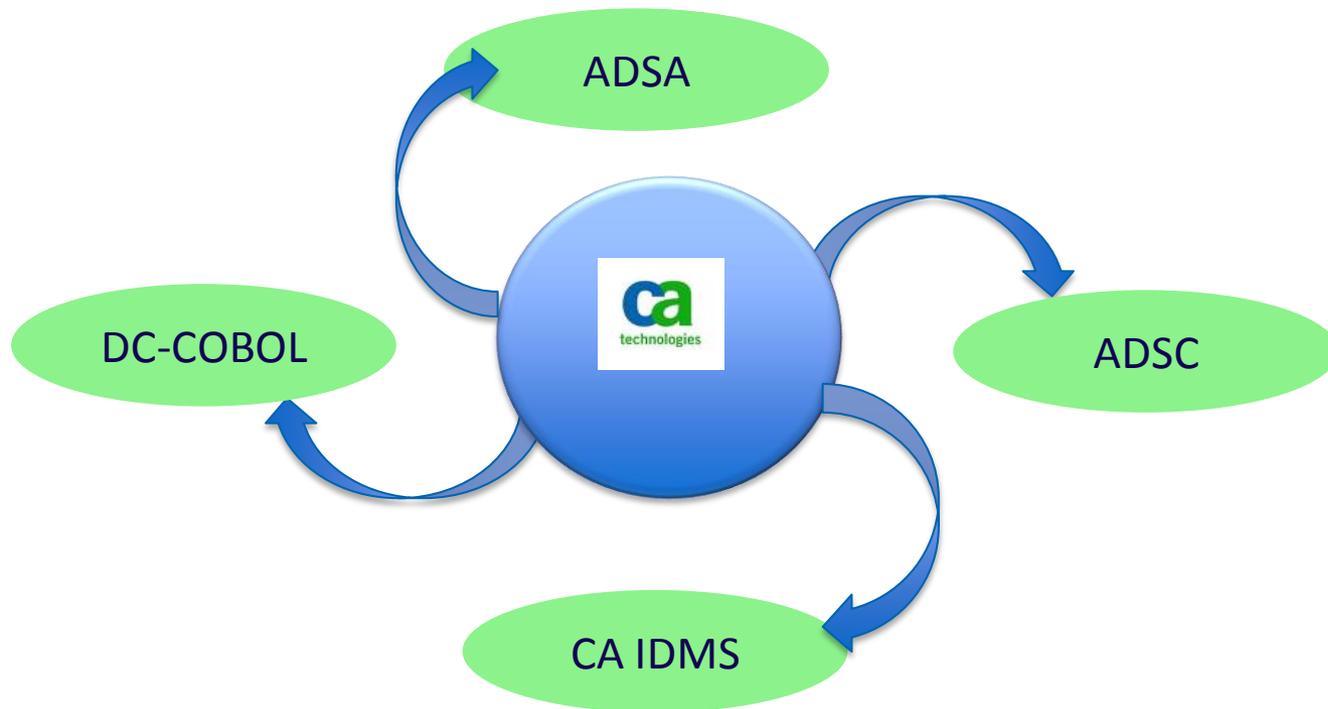
A Case Study: Modernizing a Child Welfare Information System



Or
How not to
throw the baby
away with the
bath water

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The current system

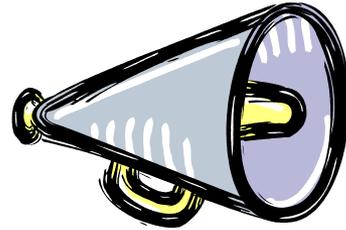


The current system value

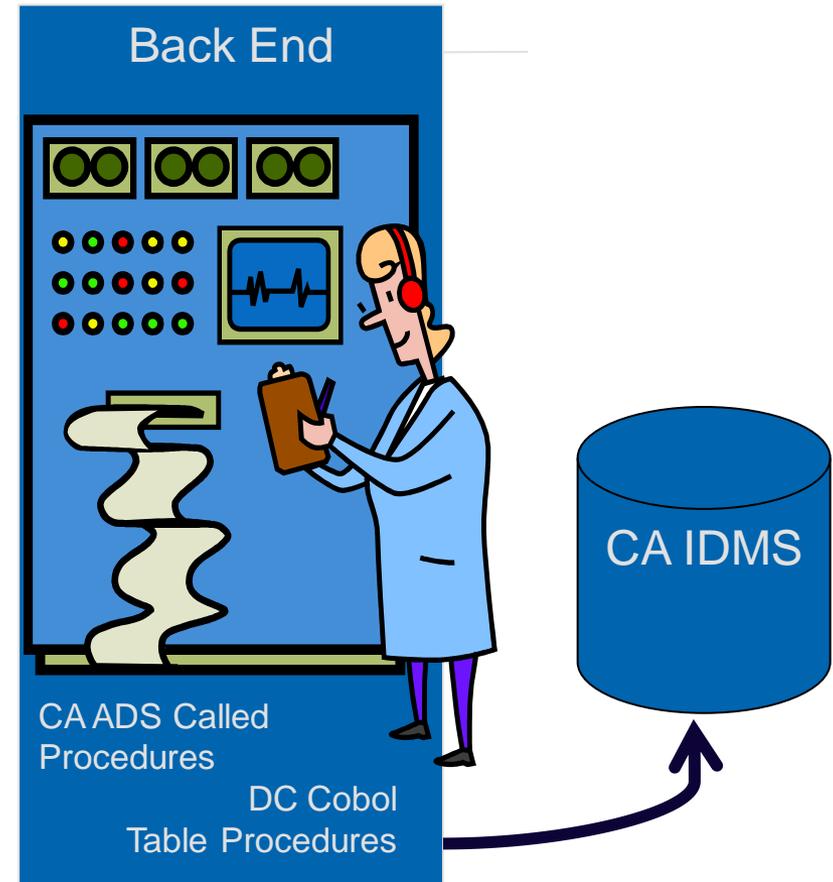


The new system

New .net
Front End

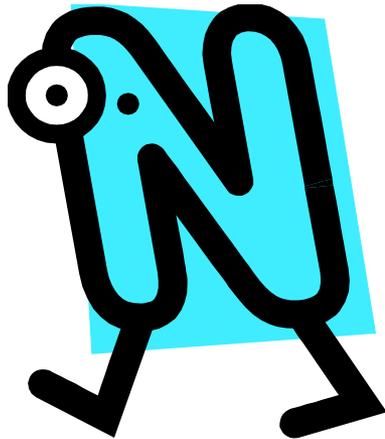


Service Calls
To Backend
Via
CA IDMS
Server

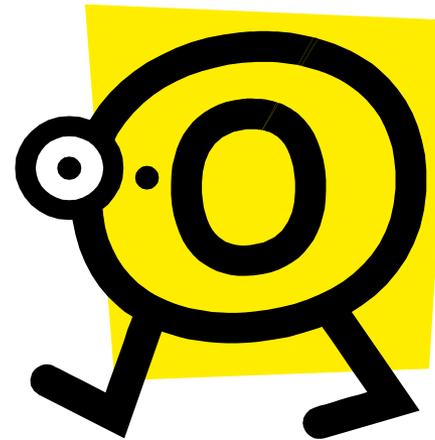


The first requirement

must have all the same functionality and usability



=



new .NET application

old ADSA application

Sound simple?

But not just business functionality



Flow of Control/Navigation



Security



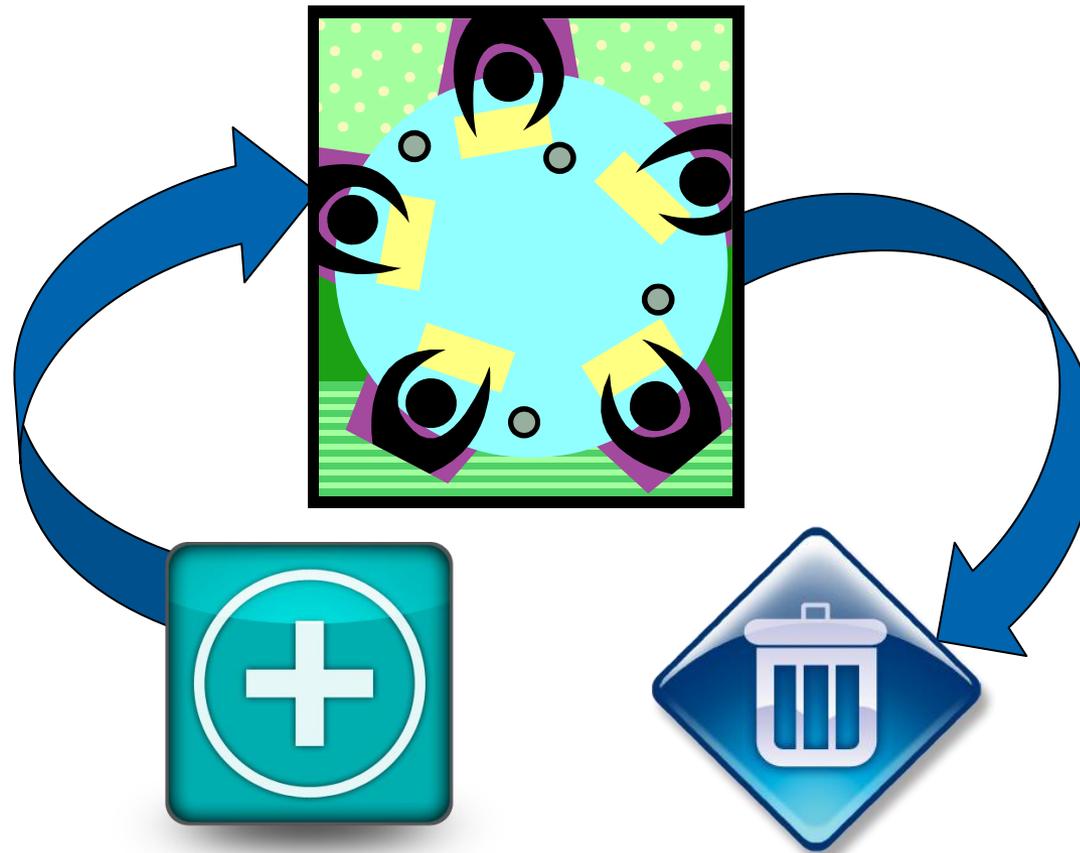
Field level behavior



Session Management/Pseudo-conversational

The second requirement

Use of JAD* meetings

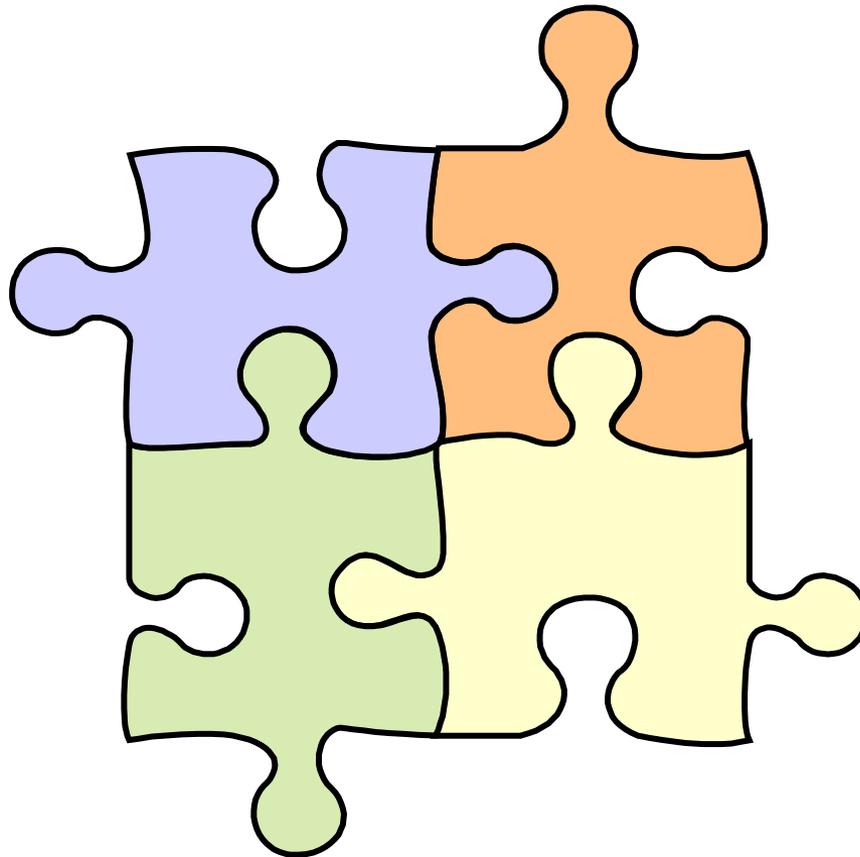


(*Joint Application Development)

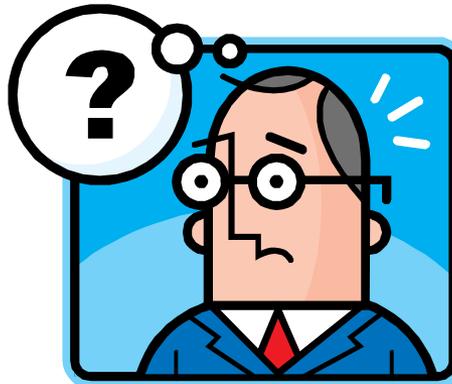
Challenges faced



How these requirements drove us to the new design



How this translates generically for modernization. . . .



Questions to ask yourself

How old is the application?



How was the application built?



If using ADSA, consider the effect of the following:



- Using Global Records
- Using Work Records
- Currency
- Response level security
- Custom Tailoring Menus
- Flow of control

If the application is written in CA ADS, consider the following:

- BIF
- Flow of control
- Map logic
 - Brighten/Darken
 - (hidden fields)
 - Protected/Unprotected



Now that the pseudo-converse is gone, what do you do?

Record Locking?



Currency?



Is paging done?



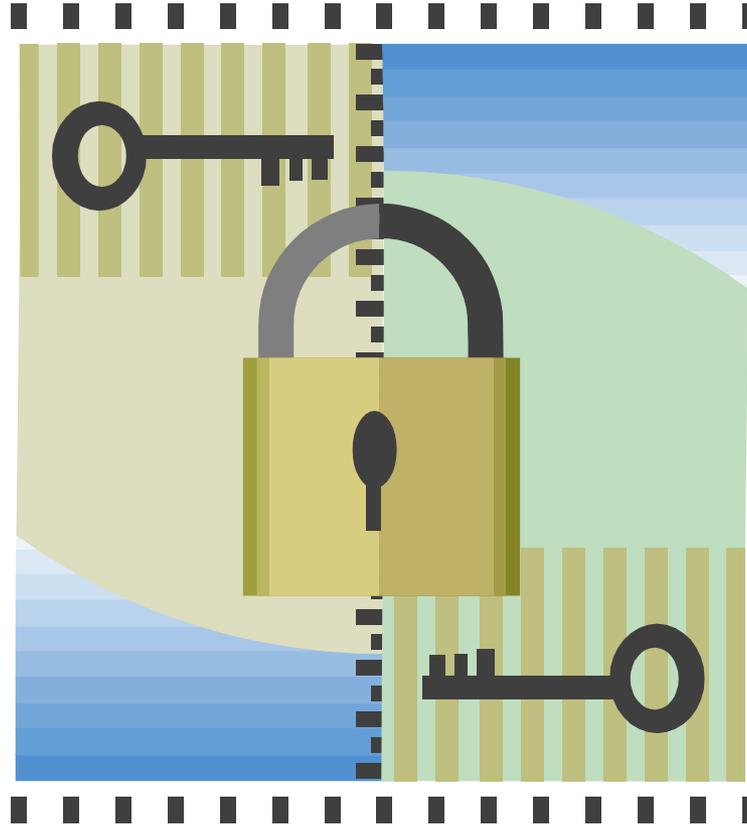
Mapping



Communicating with the outside world



How is security implemented?



Testing



Track conversion anomalies



A few more things to ponder...



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Will functional application changes be allowed during modernization?



Shakespeare

**To change
or not to
change,
that is the
question**

Proof of concept

CRUCIAL!



DO NOT SKIP THIS STEP

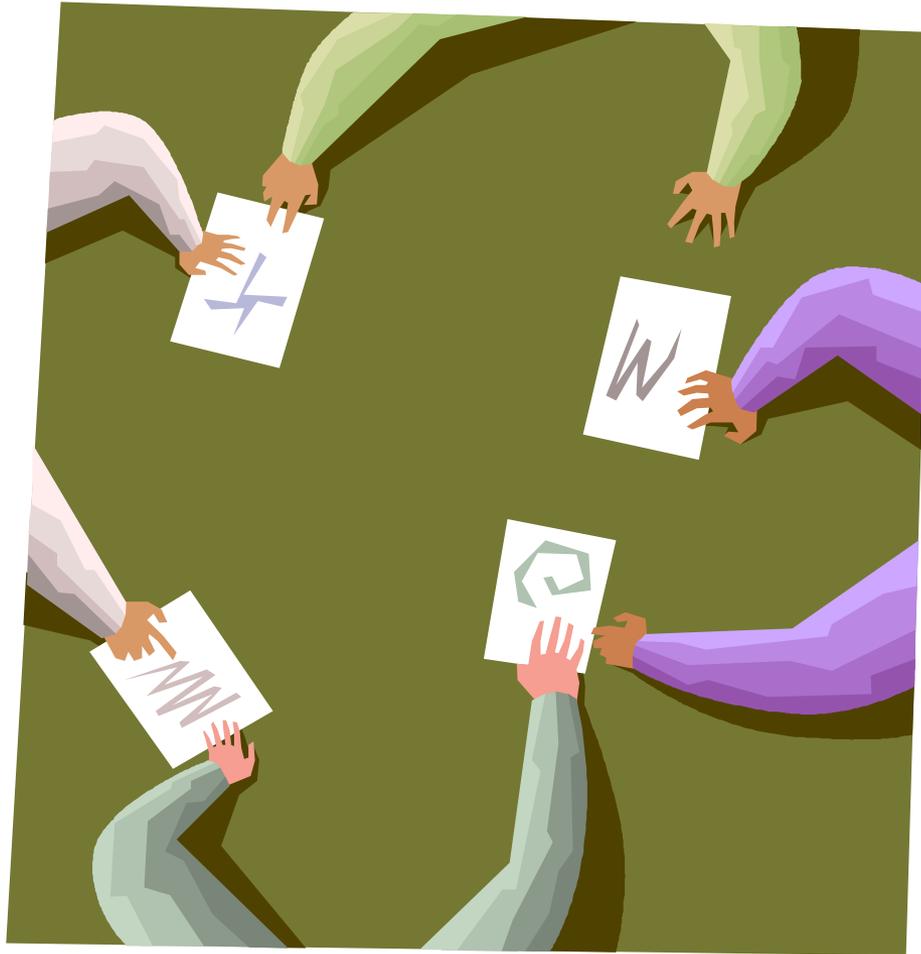
Mixed modes



CA IDMS™ SQL Quick Bridge anyone?



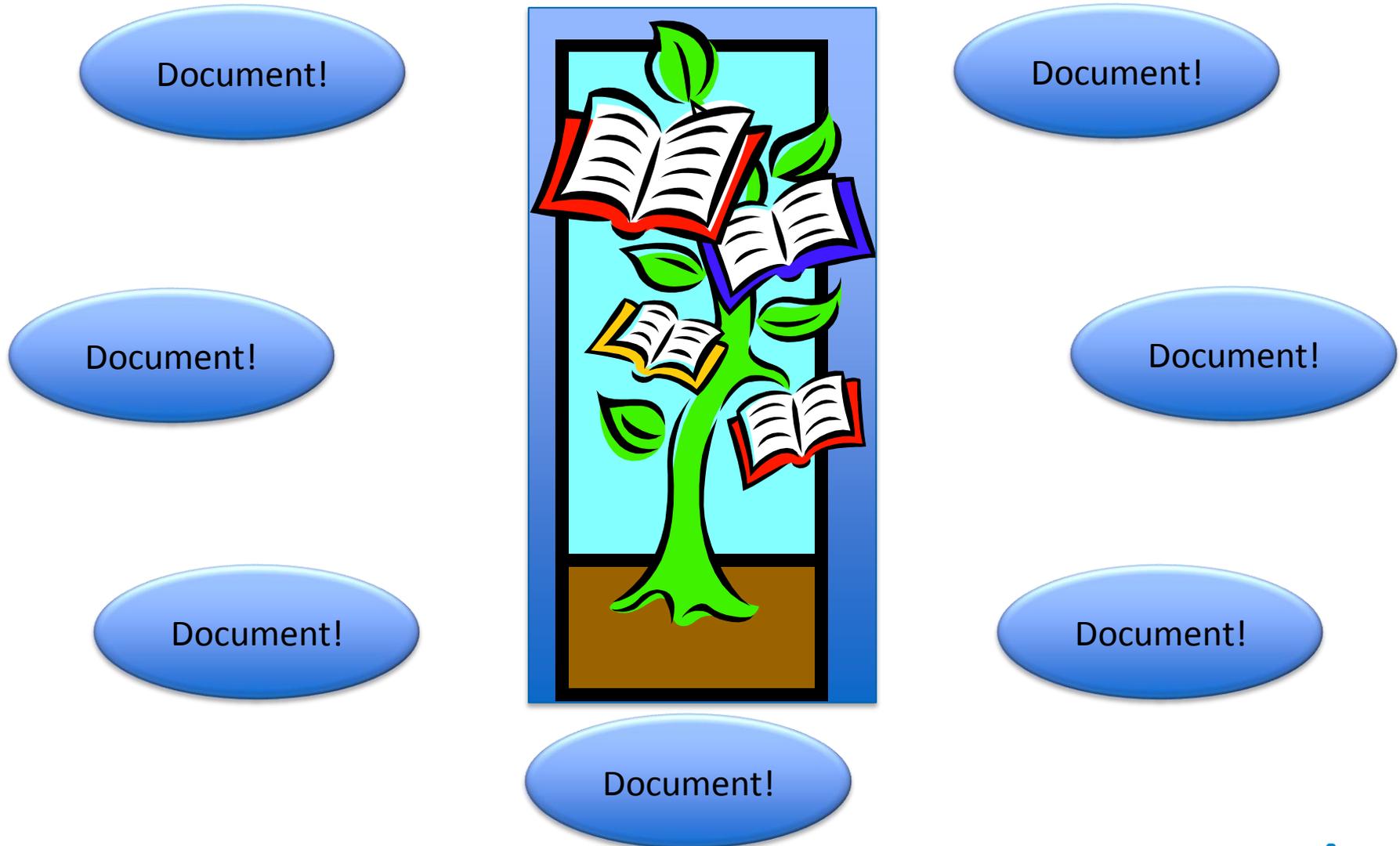
Knowledge transfer



Learning new skills



Standards and conversion guidelines



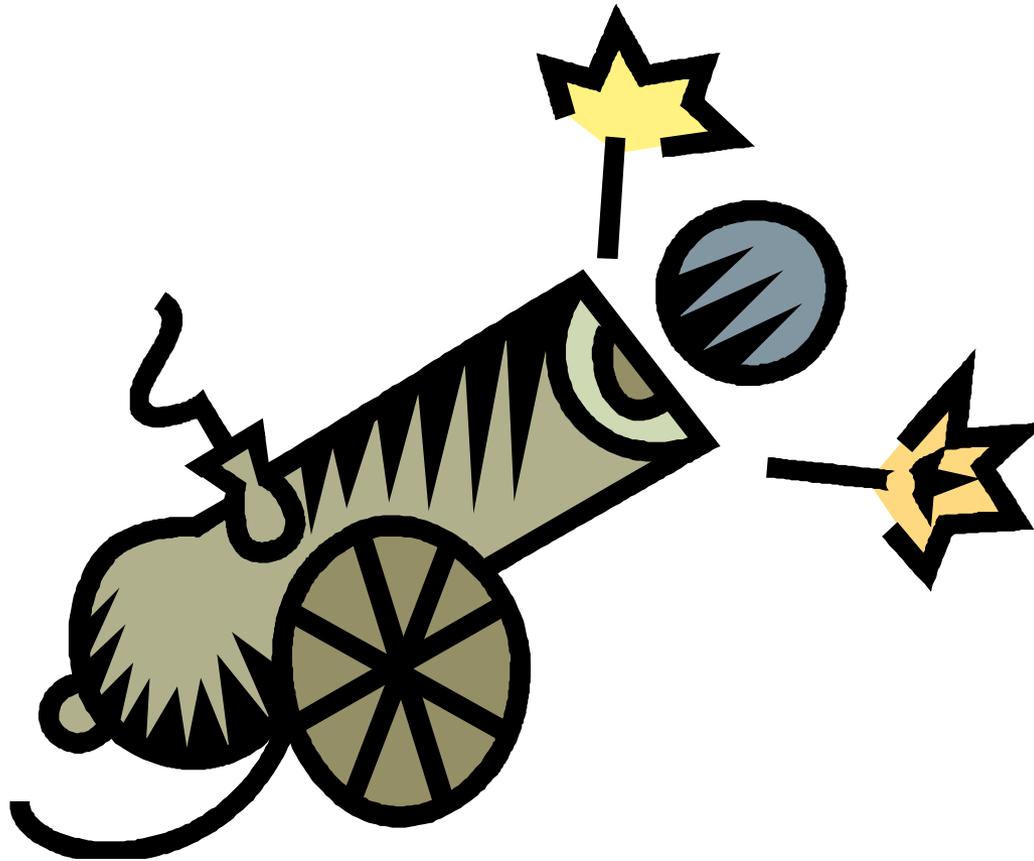
Change control and code freeze



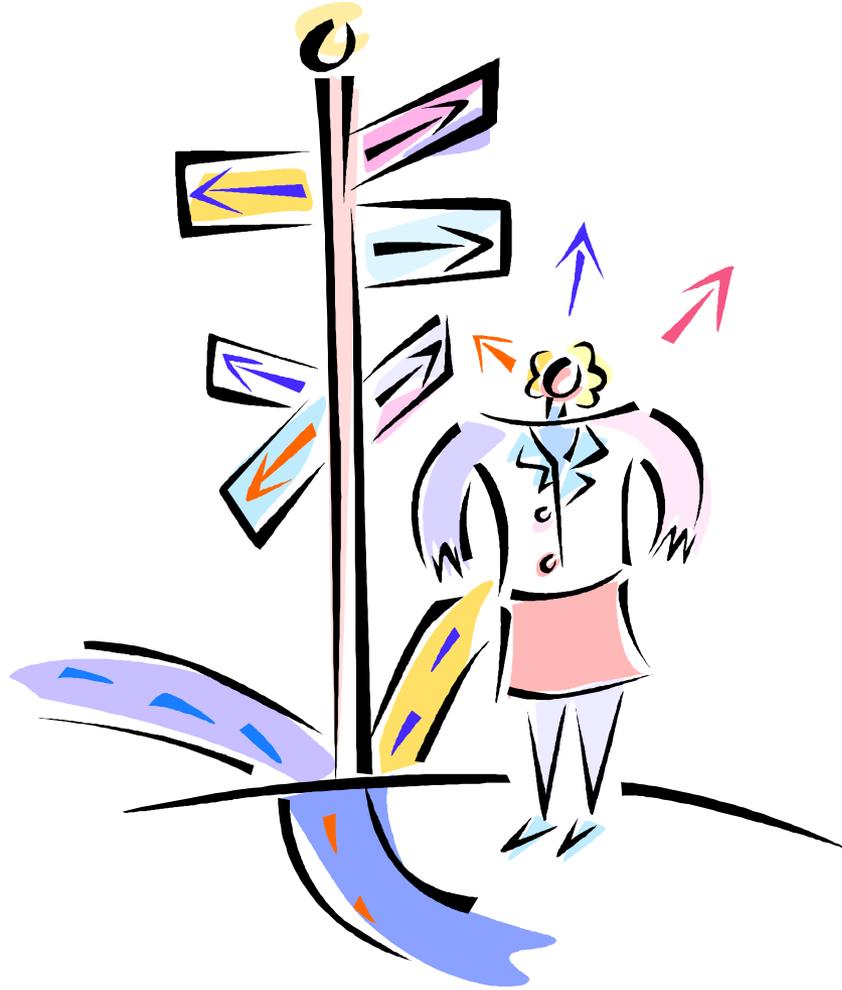
Project management



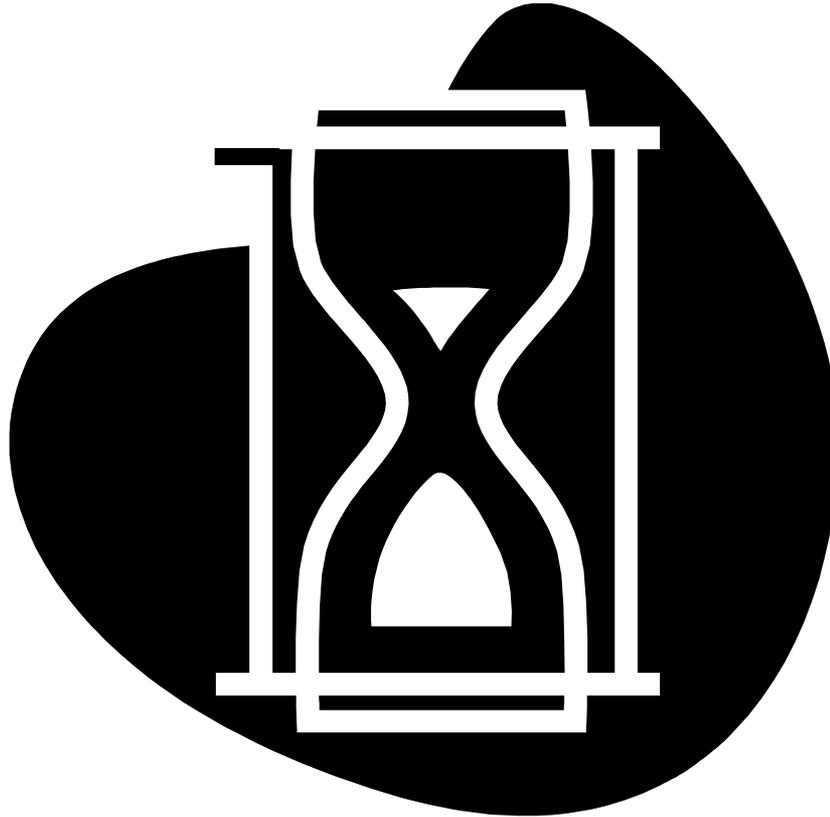
Still think there's a silver bullet?



So what will you do?



Summary



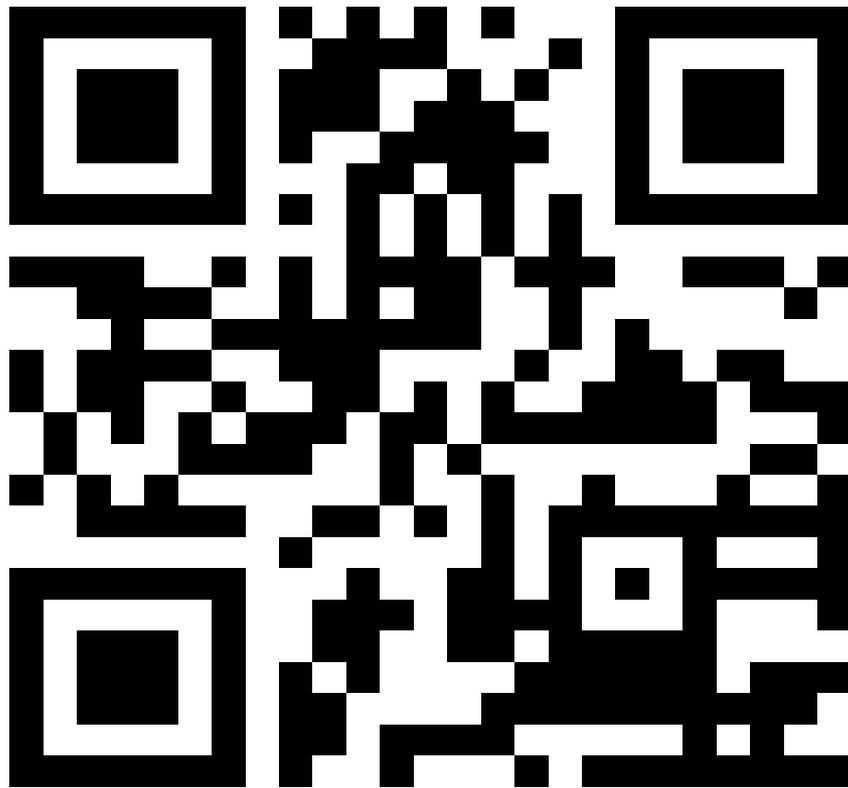
Q&A

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Thank You

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Session # MI360SN



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image to fill in
your session
survey on a
mobile device or
complete a hard
copy session
evaluation form**

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Mainframe networking lunch

Engage in CA solution discussion with your peers and
CA experts

Where: Exhibition Center

When: Tuesday and Wednesday

Time: 12:00pm – 1:15pm



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