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# IT at the speed of business

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

agility  
made possible™



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

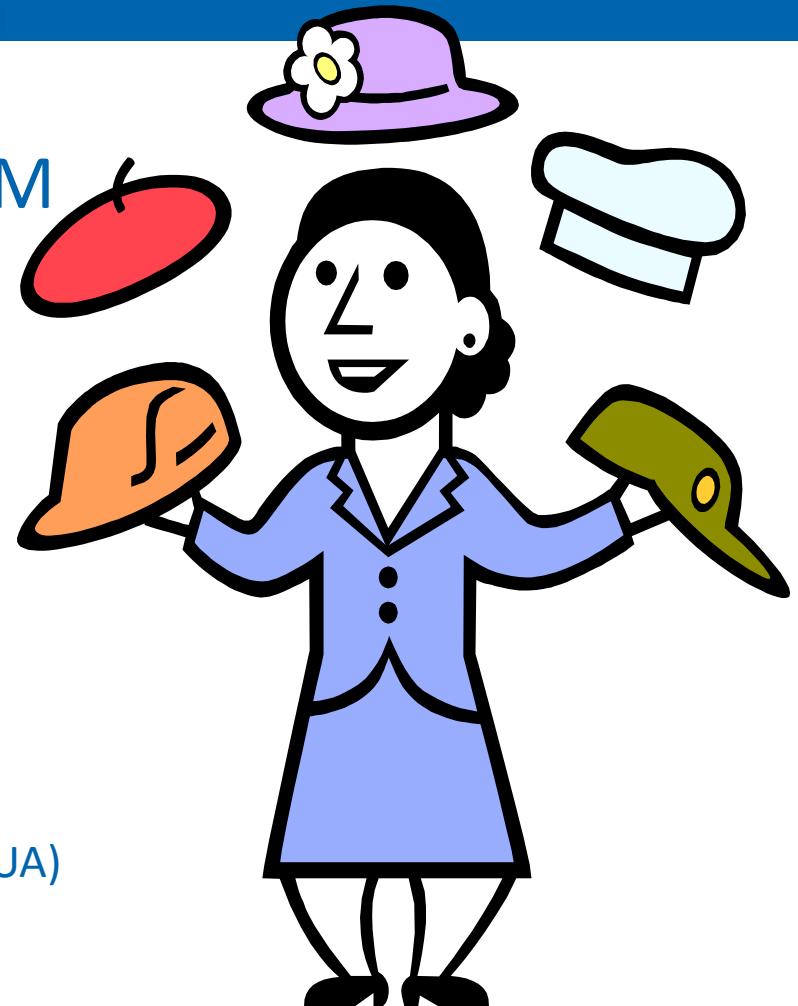
Linda J. Casey  
Run Right, LLC

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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.

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<http://www.linkedin.com/pub/linda-casey-pmp-csm-msed/1/311/b46>

# Agenda



What are you trying to accomplish?

Where are you now?

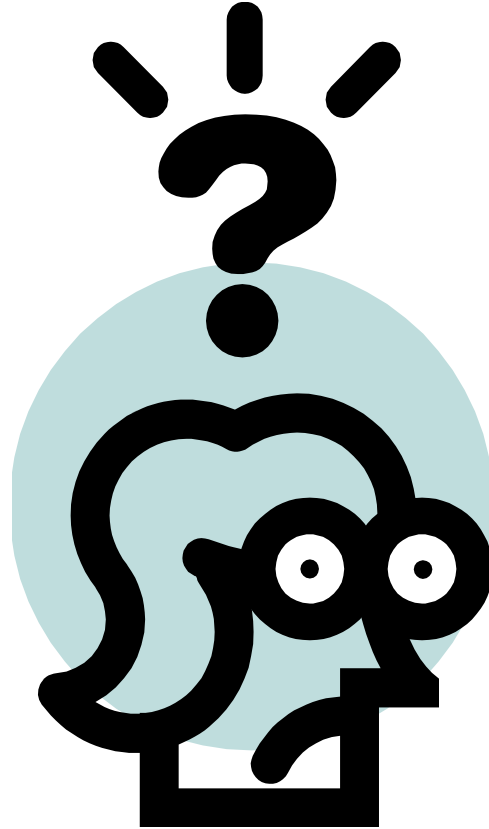
How do you get there?

A Practical Case Study

Things to ponder

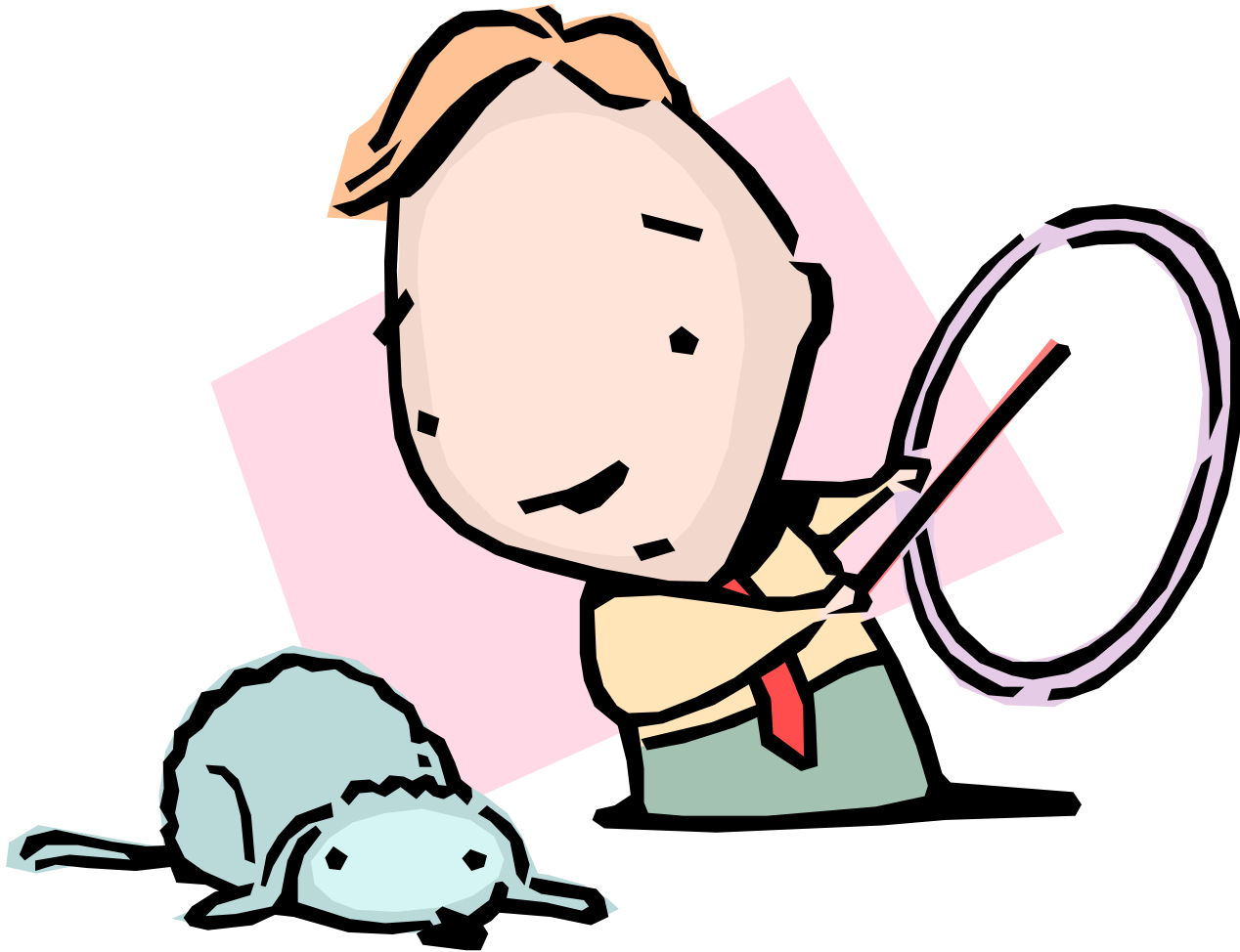
# What are you trying to accomplish?

Or defining your goals and objectives.....



## What does Modernization mean to you?

# Let's think about it another way....





# Why establish goals & objectives?

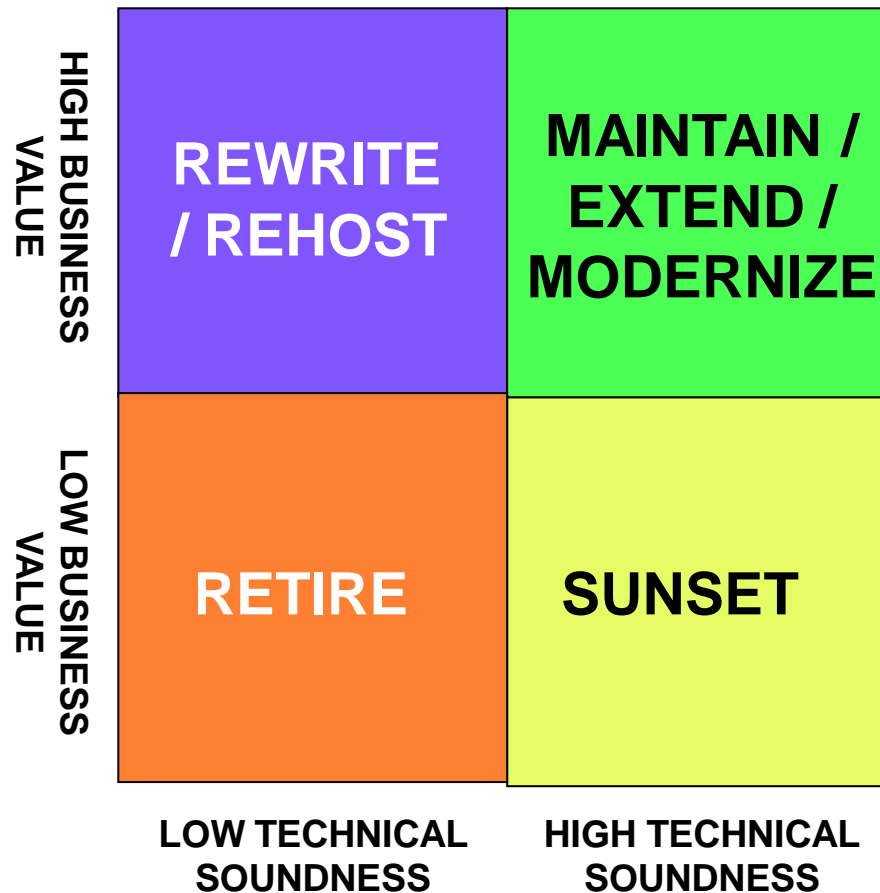


OR



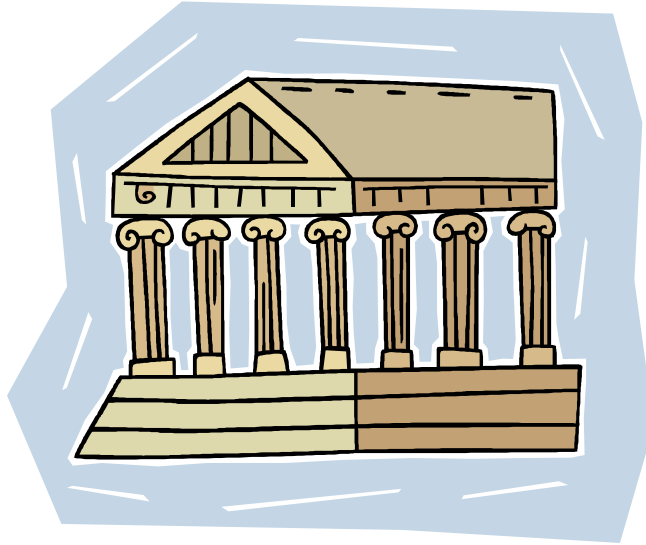


# Modernization feasibility matrix



after Gartner

# Where are you now?



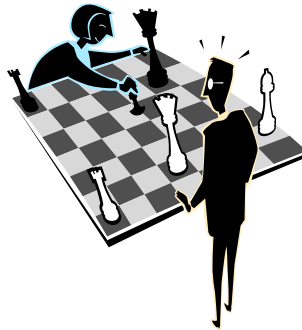
## “Know Thyself”

# Understanding the system's importance to the organization

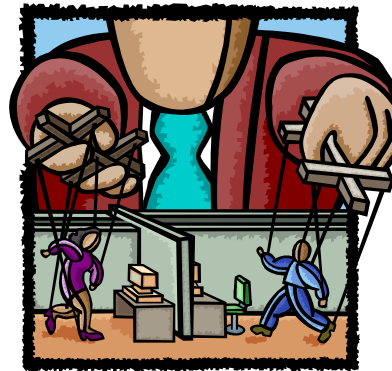
Historically



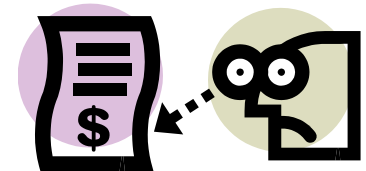
Strategically



Functionally at all layers of management



Bottom Line Contribution



# Understanding the system's functionality



Documentation

Original Developer/Designer



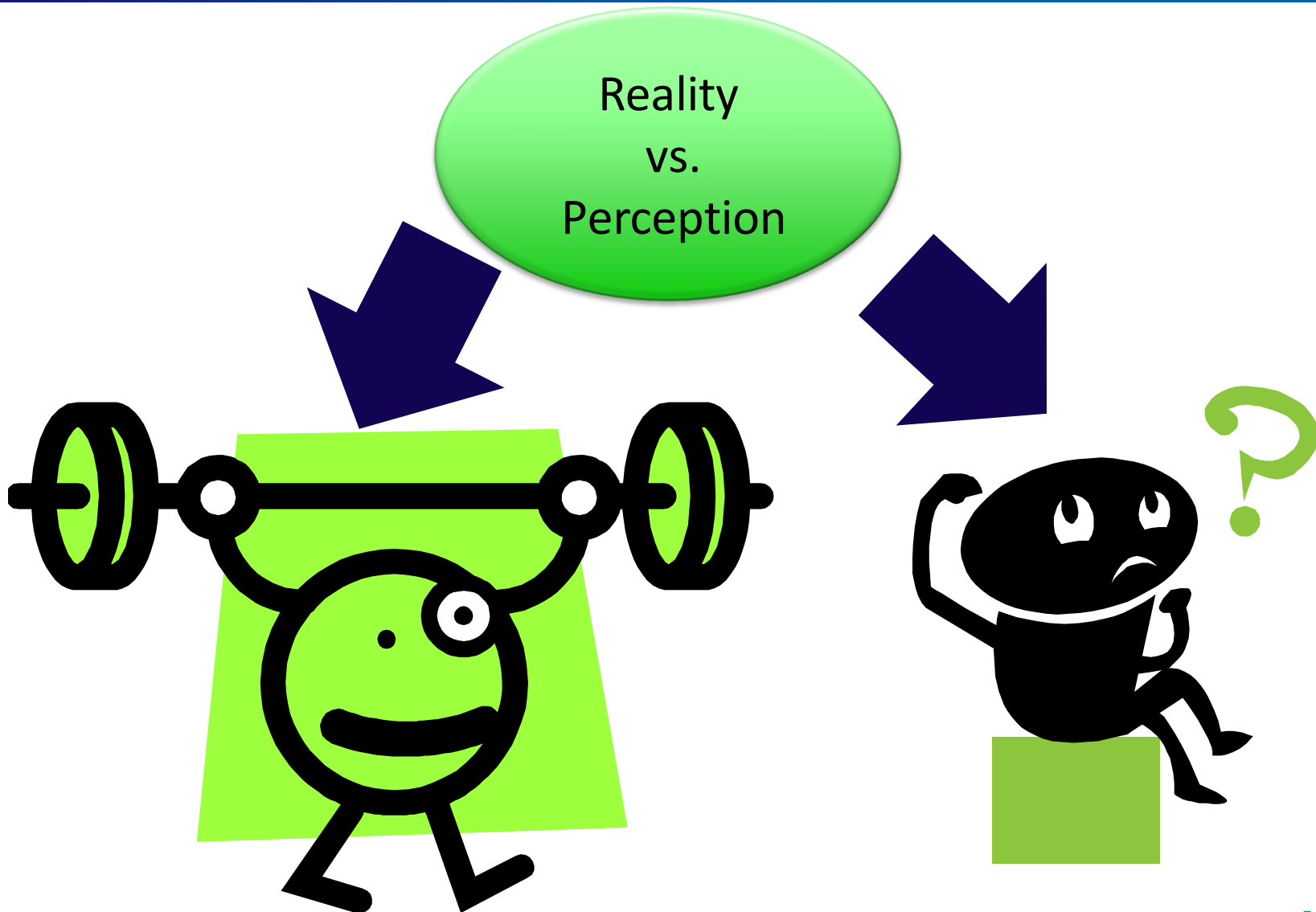
Business Rules



Discovery Tools



# What is the system's technical robustness?





# Why is an understanding of the current system important?



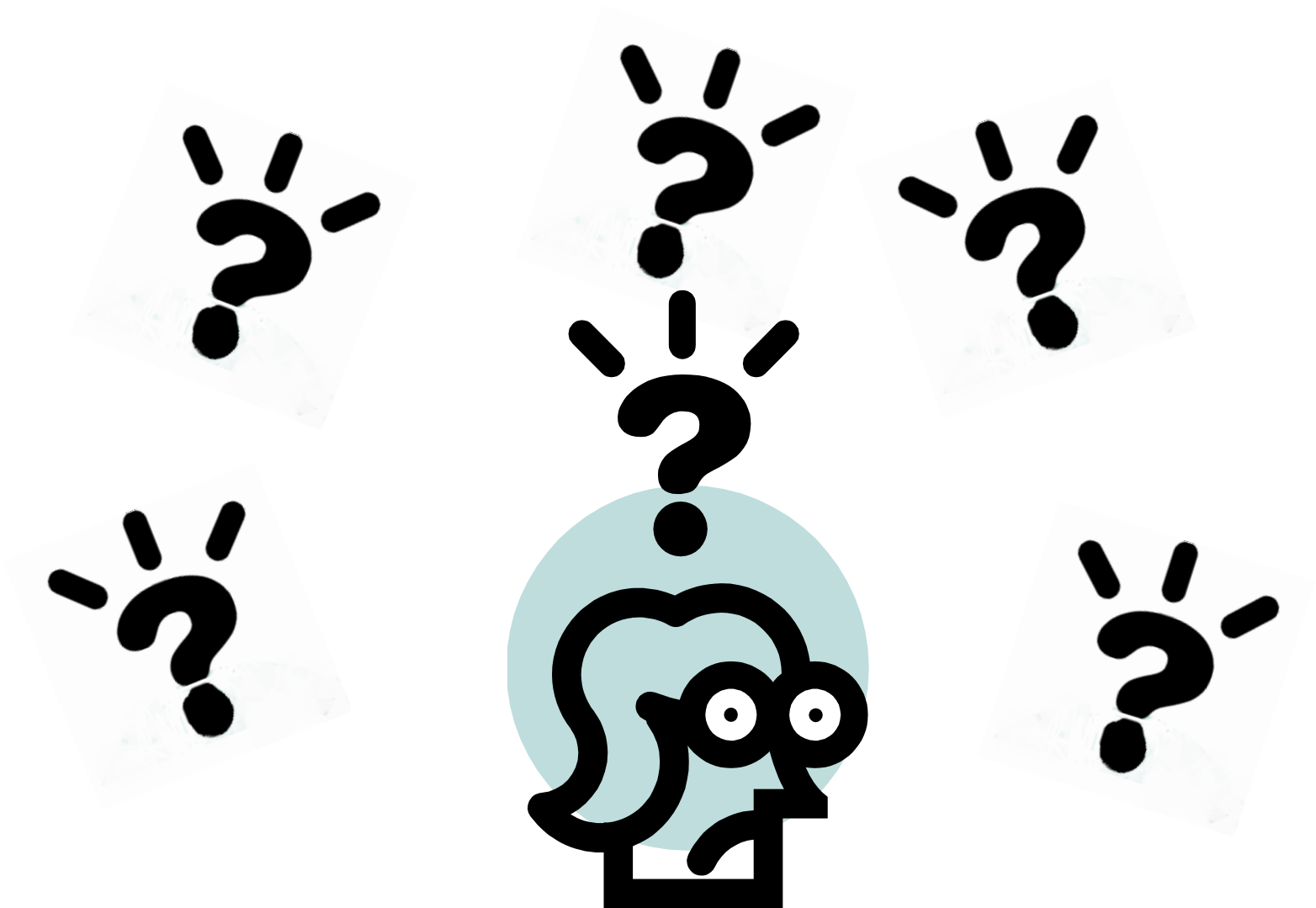
# How do you get there?

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



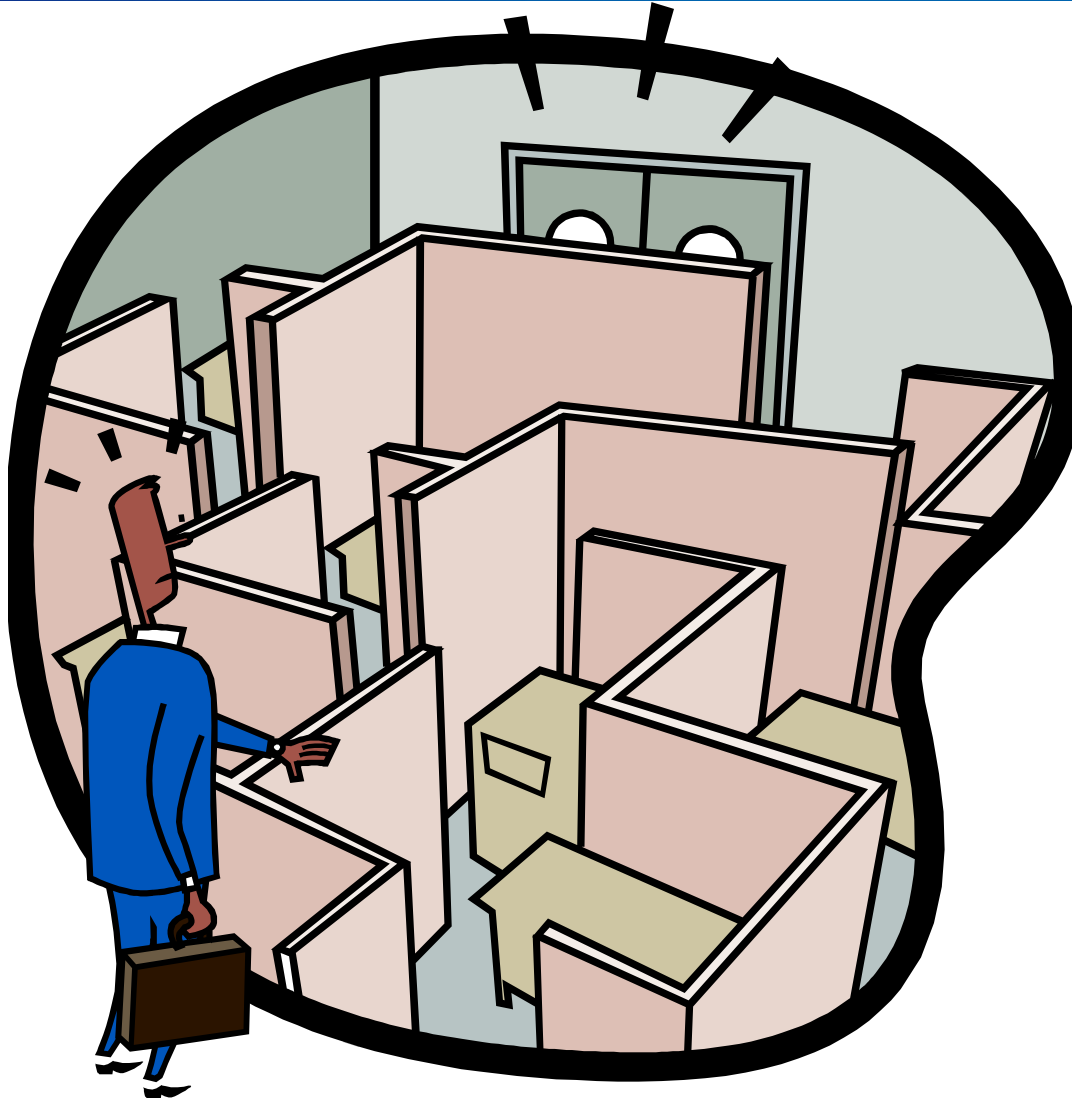
# What will our direction be?



# Management buy-in



# Still confused?



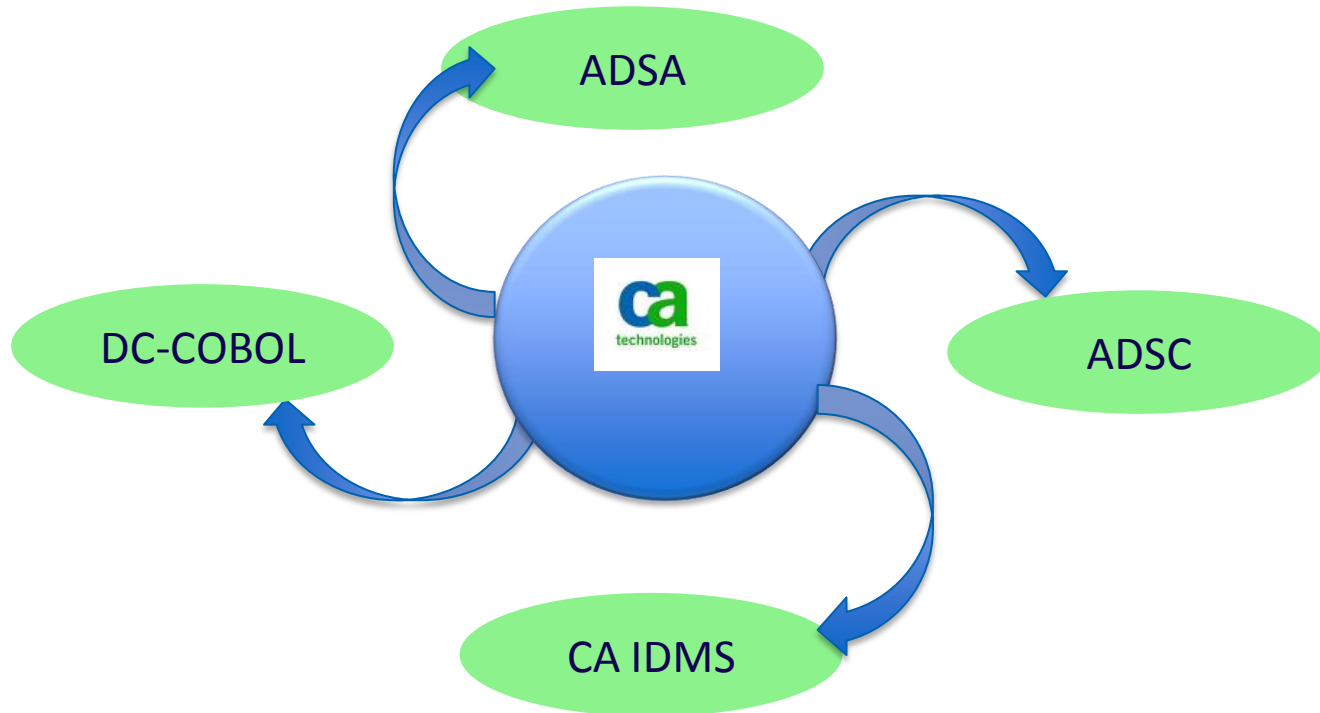
# A Case Study: Modernizing a Child Welfare Information System



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

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# The current system

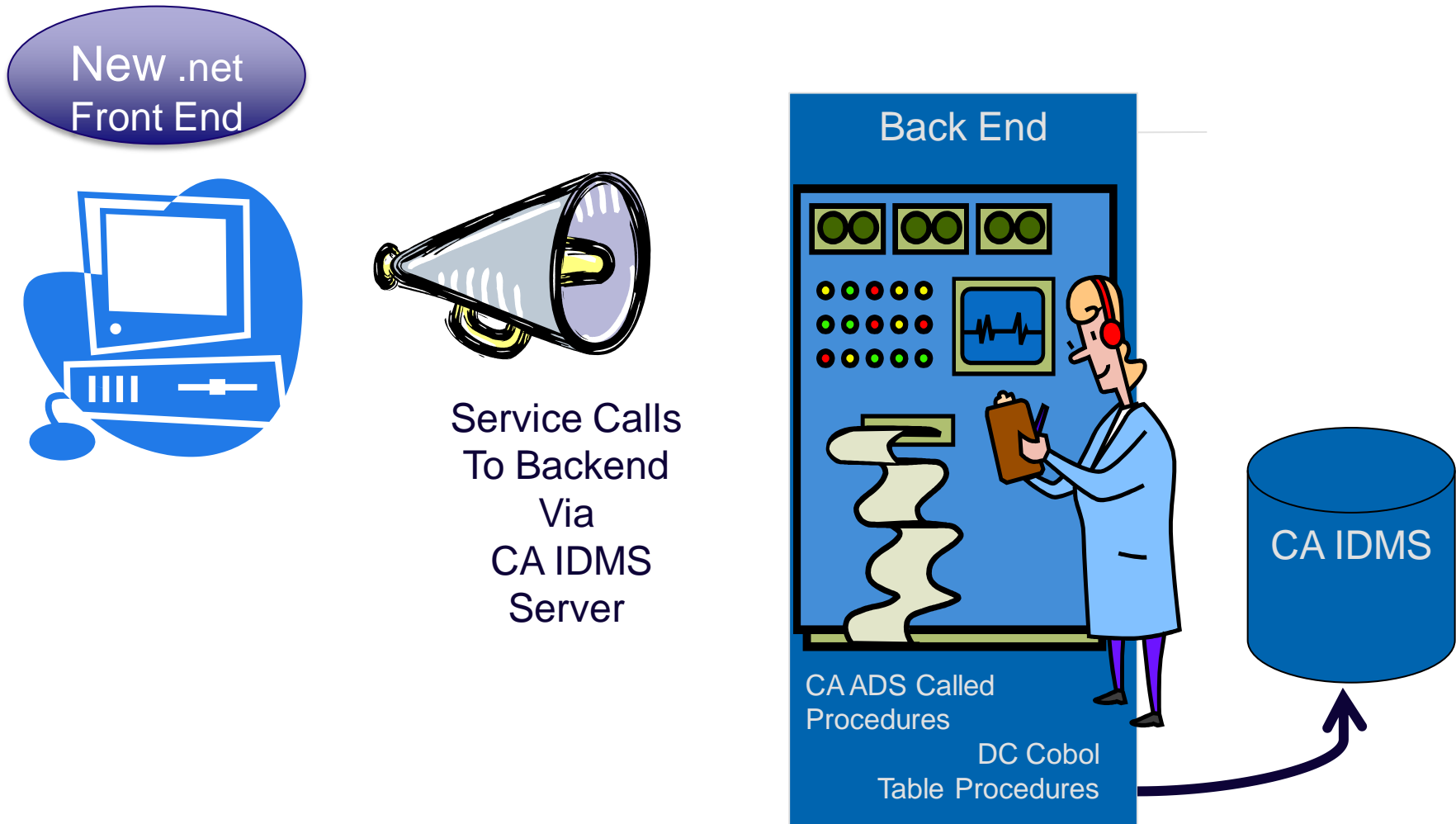




# The current system value

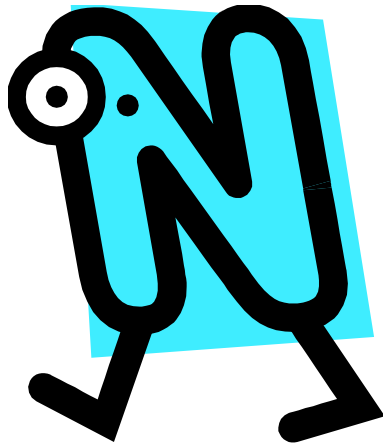


# The new system



# 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



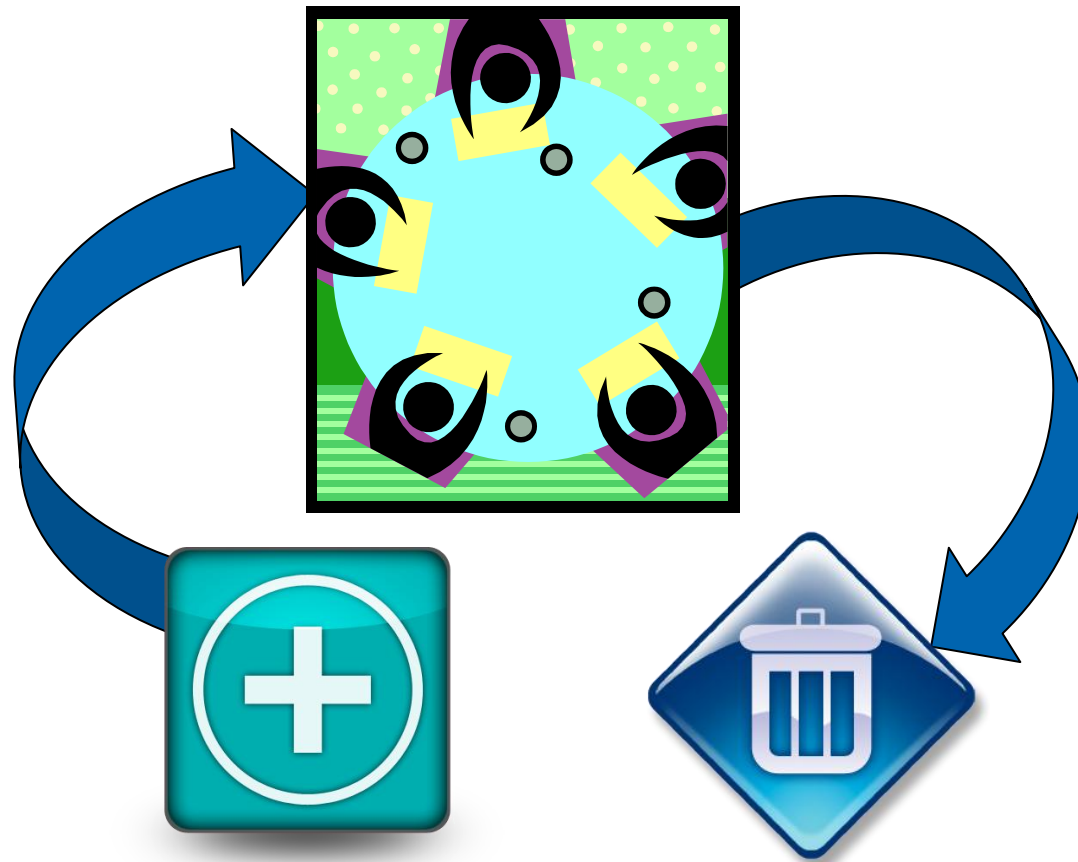
Field level behavior



Session Management/Pseudo-conversational

# The second requirement

Use of JAD\* meetings



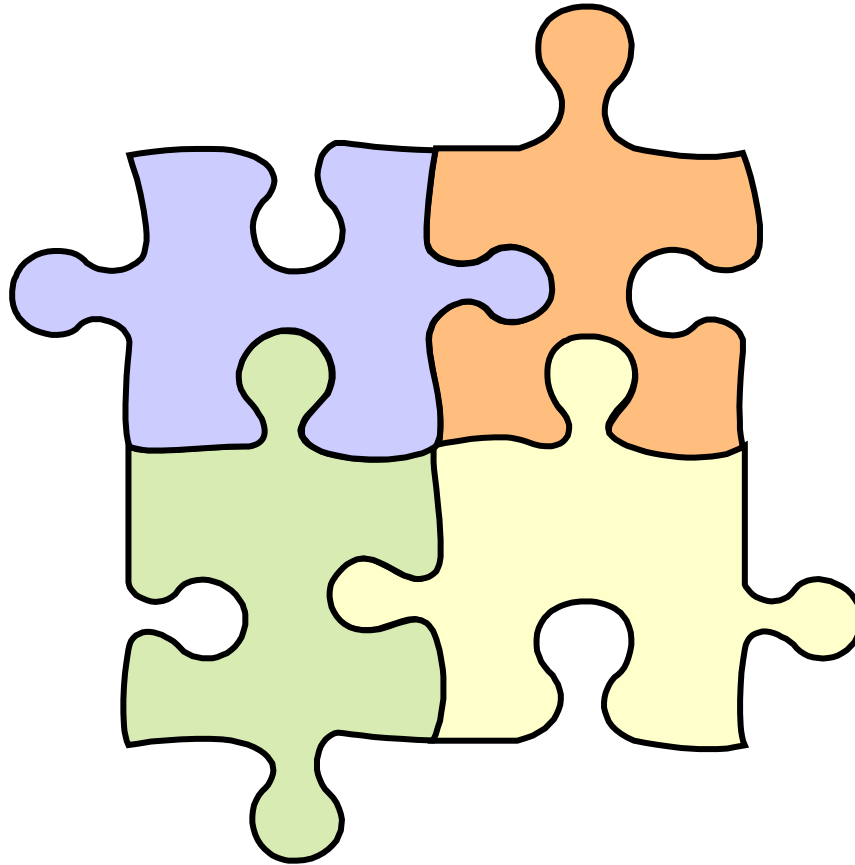
(\*Joint Application Development)



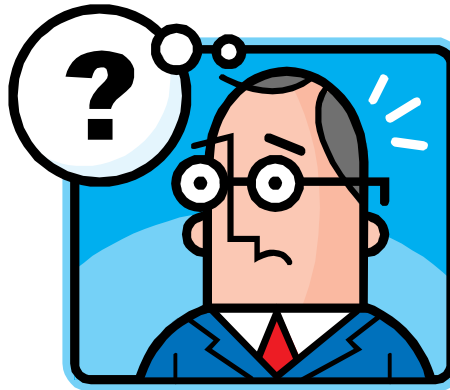
# Challenges faced



# 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?



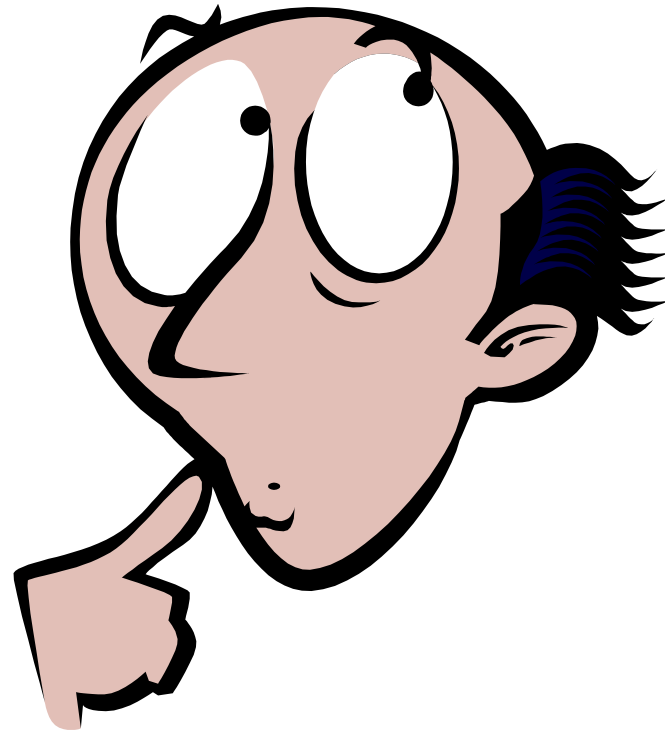
# If using ADSA, consider the effect of the following:



- 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?



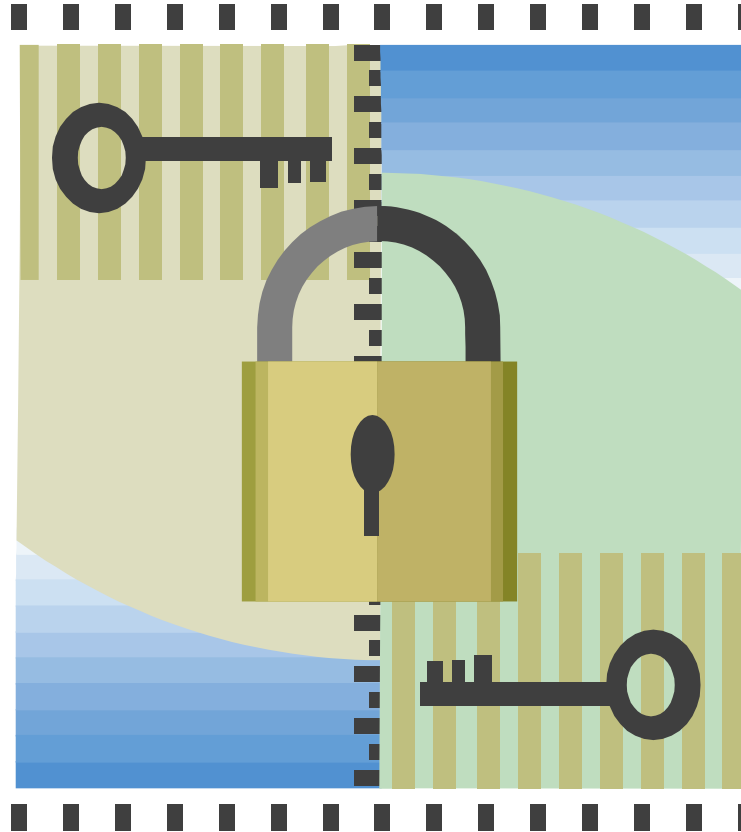
# Mapping



# Communicating with the outside world



# How is security implemented?



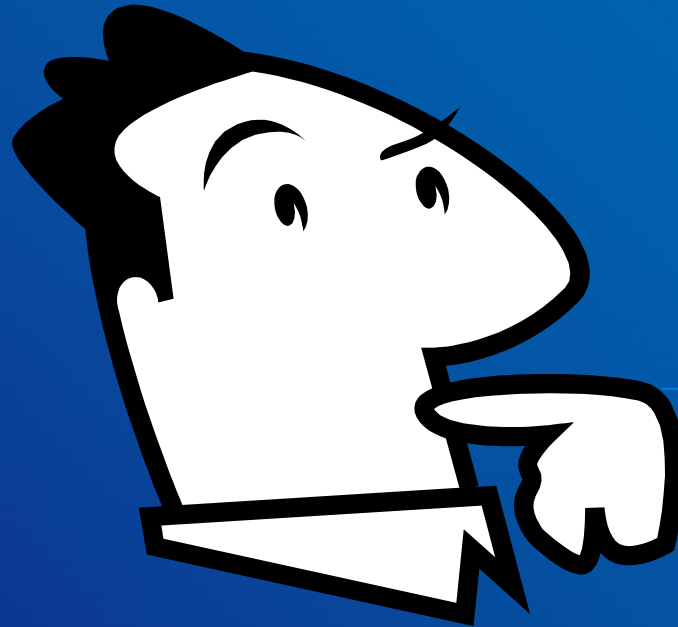
# Testing



# 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

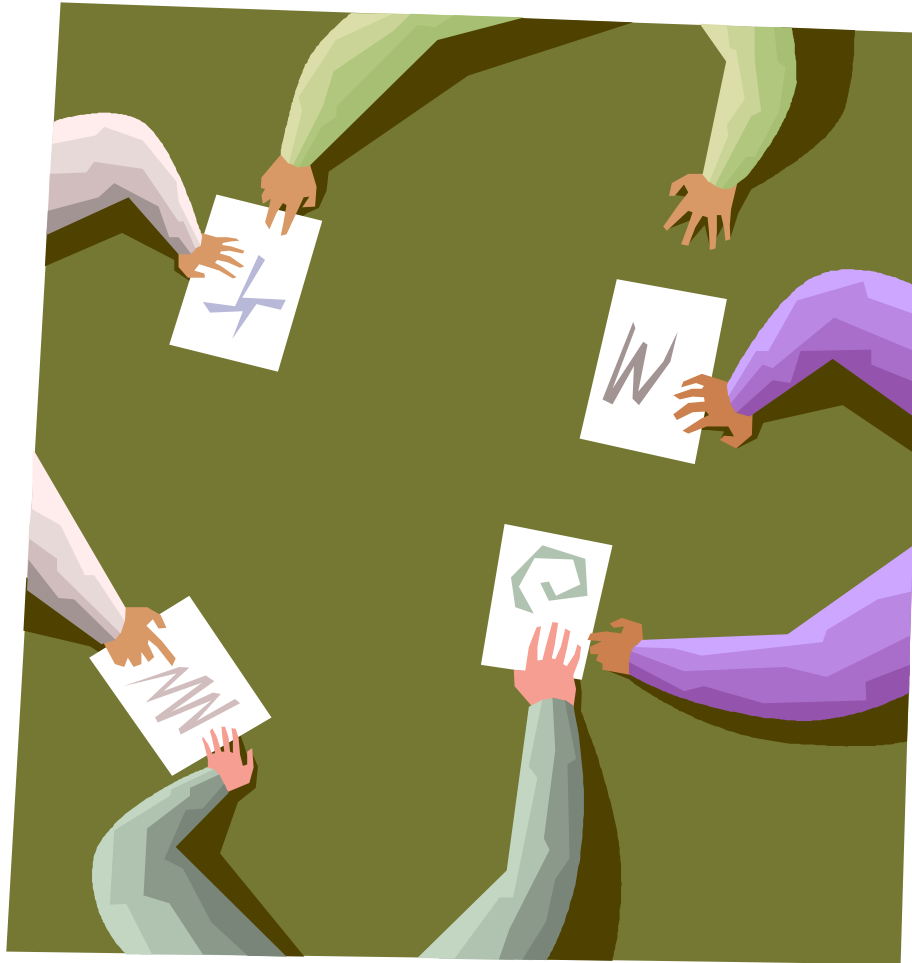
# Mixed modes



# CA IDMS™ SQL Quick Bridge anyone?



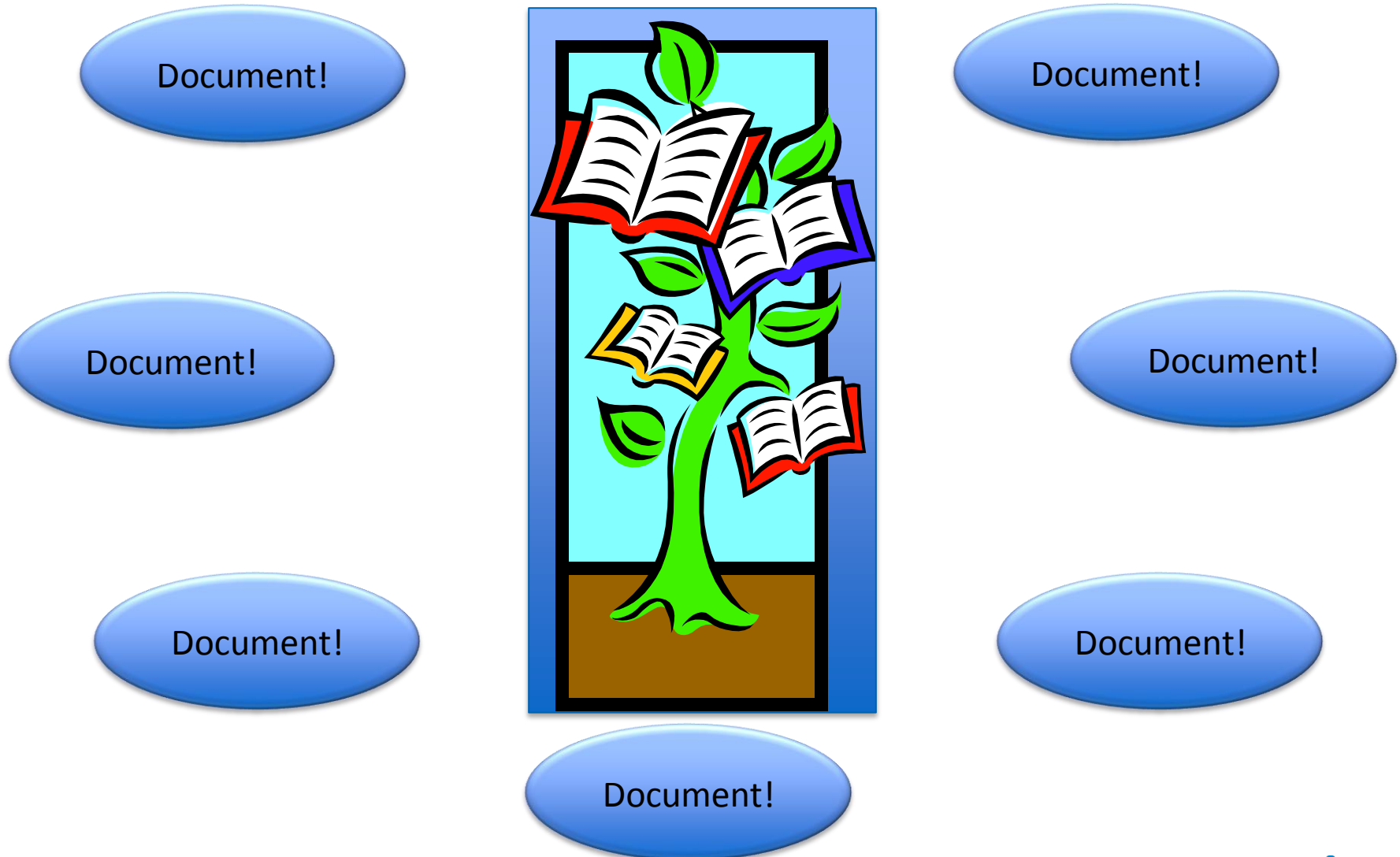
# Knowledge transfer



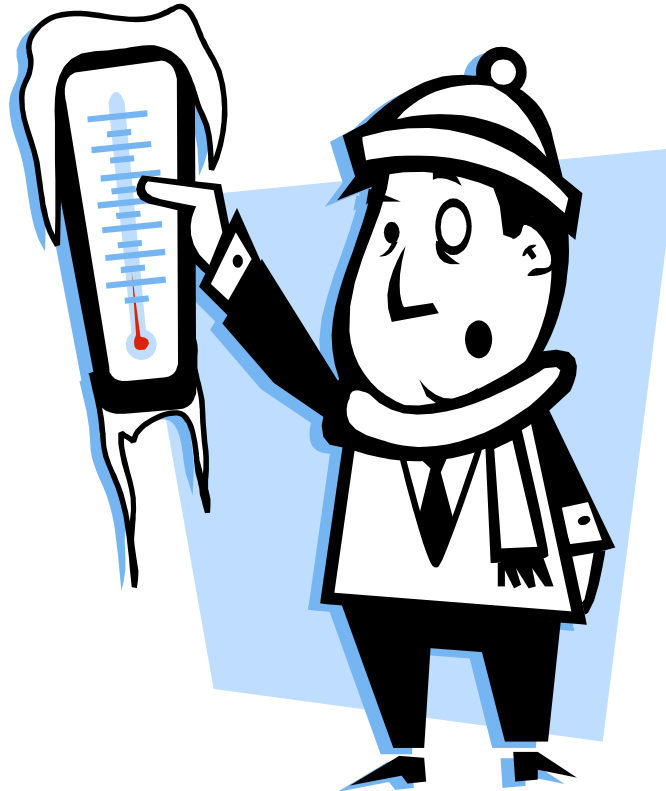
# Learning new skills



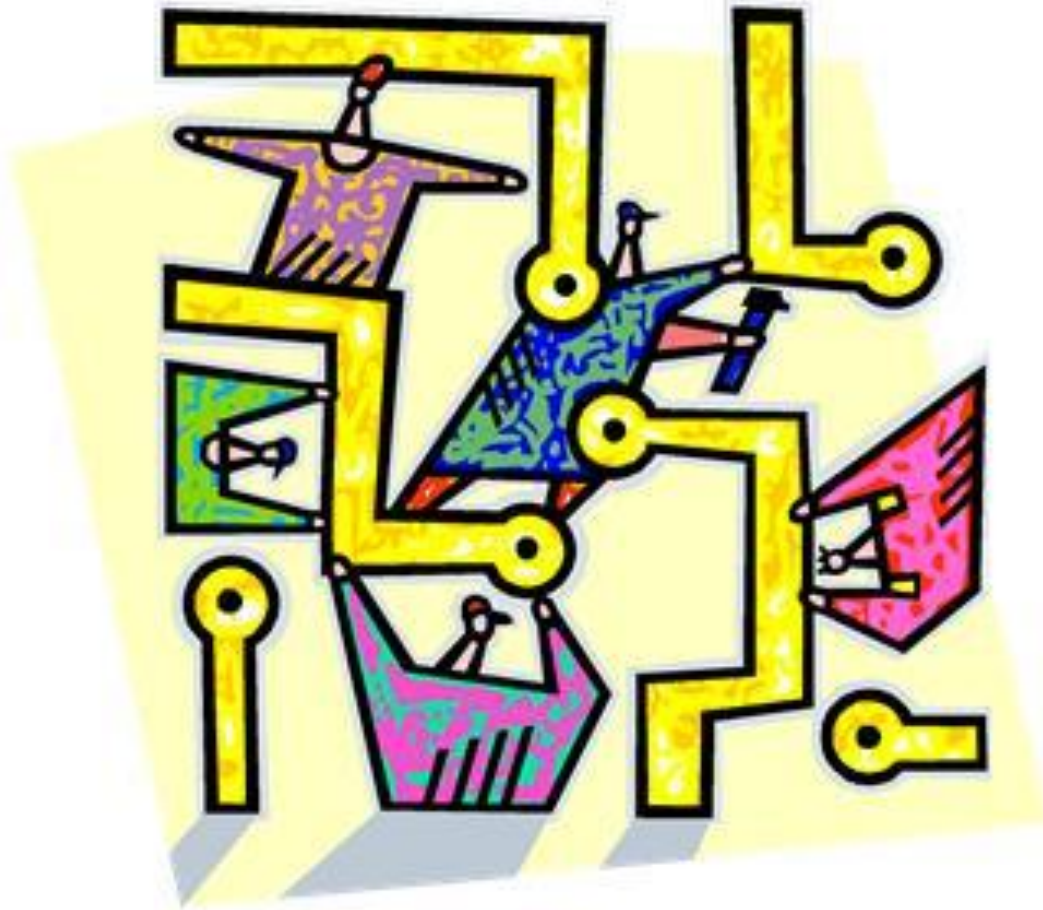
# Standards and conversion guidelines



# Change control and code freeze



# Project management

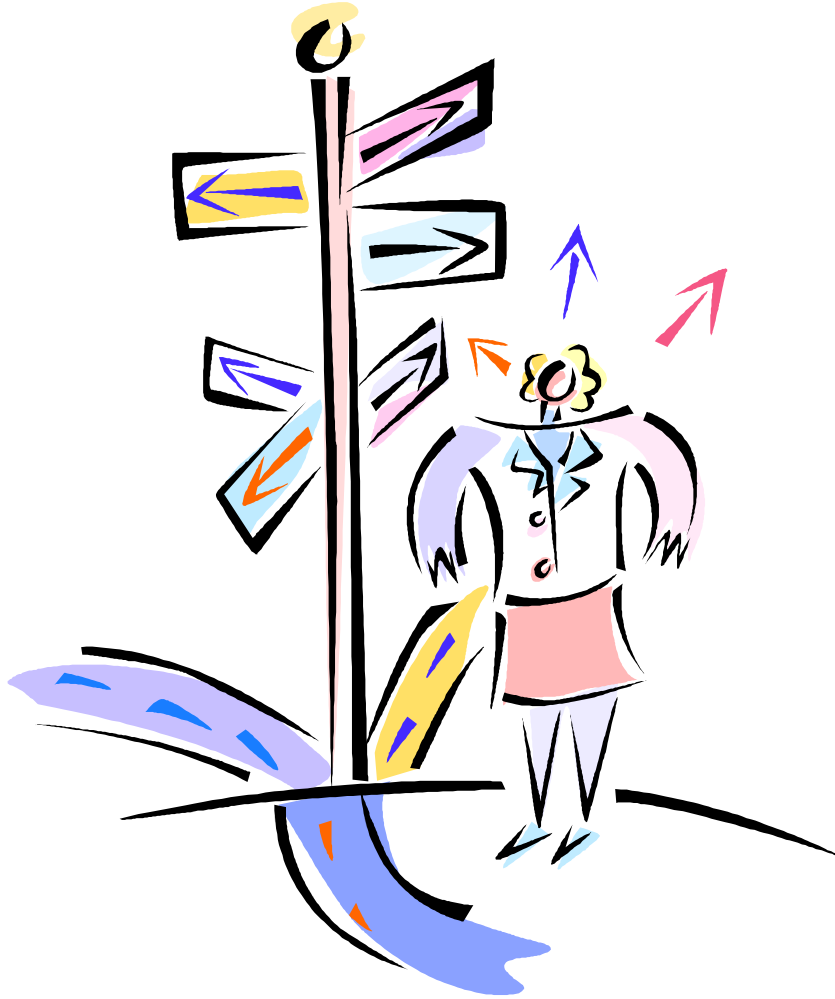




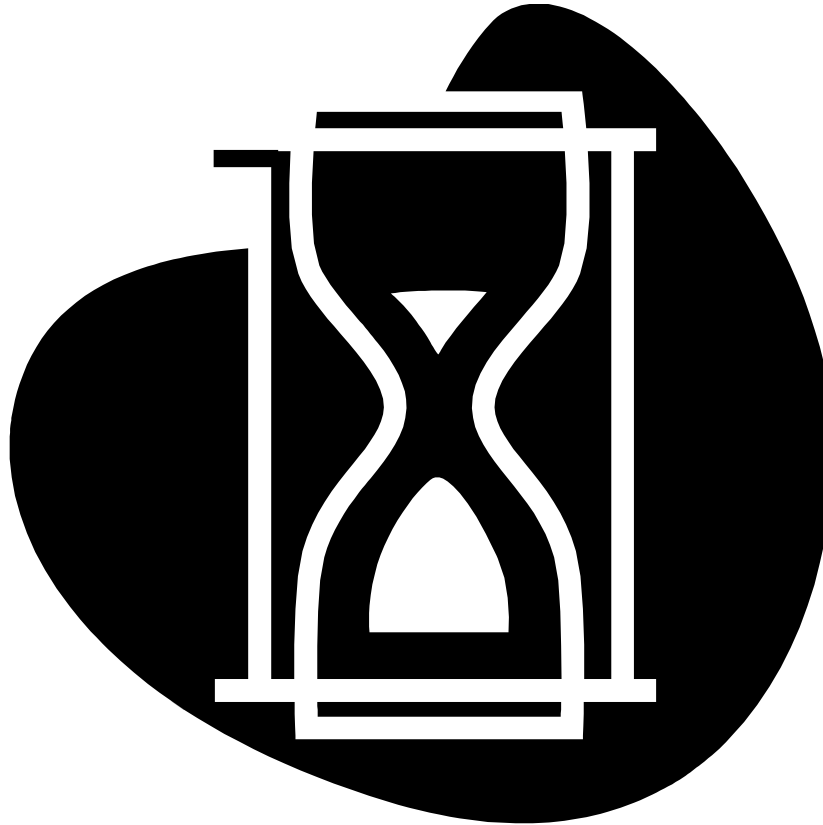
# Still think there's a silver bullet?



# So what will you do?



# Summary



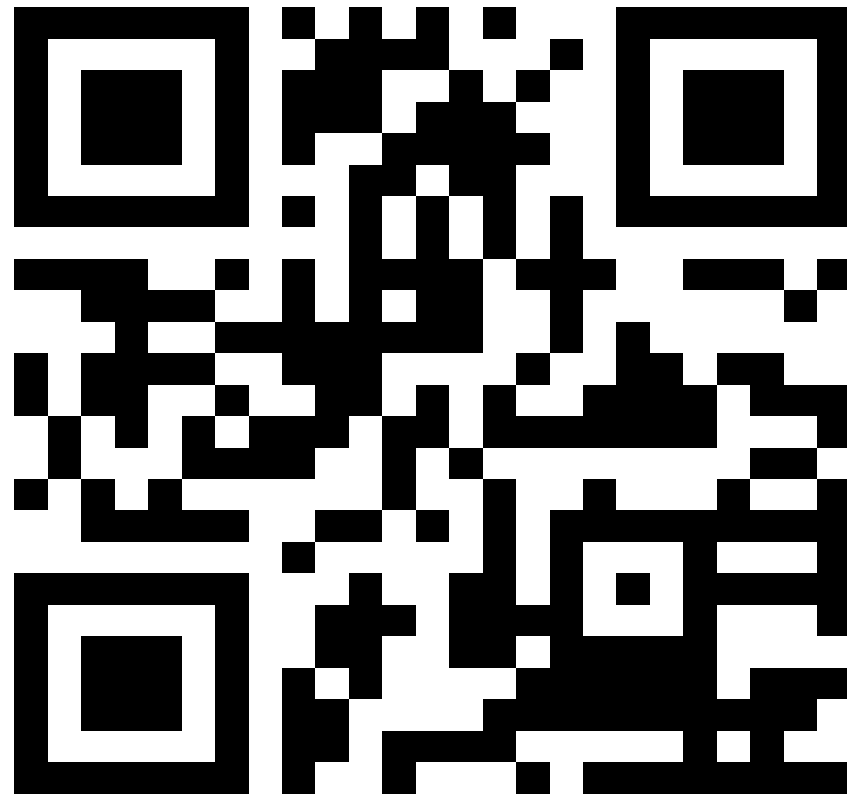
Q&A

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Thank You

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**Session # MI360SN**



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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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