SIM209

Workflow for Workflow's Sake

Or, how I stopped fearing organizational change and learned to love the HR events



Susan Keohan, MIT Lincoln Laboratory Wednesday, October 14, 2009





Agenda





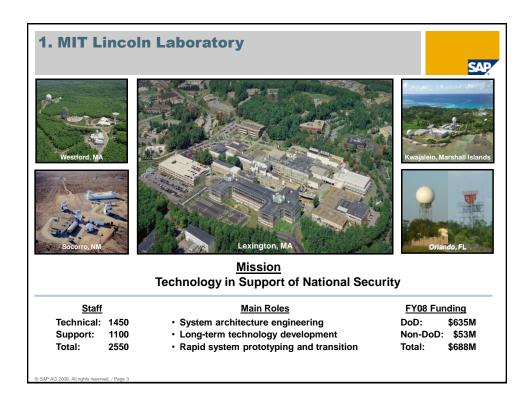
1. Introduction to MIT Lincoln Laboratory

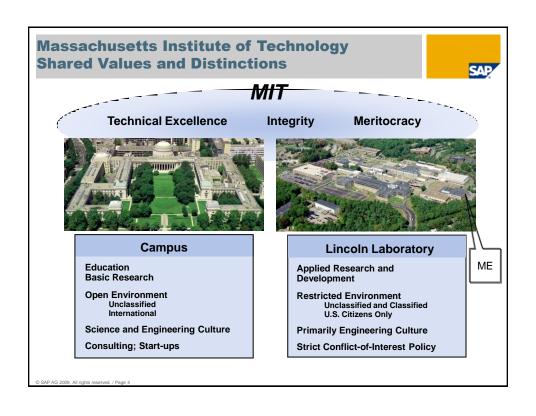
- Who we are, what we do
- MIT LL SAP Systems Landscape
- HR data, Basis Authorizations, Substitutes
- Risks
- Why Workflow?

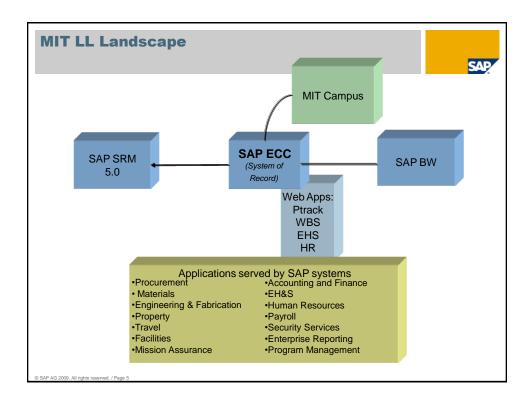
2. Technical info

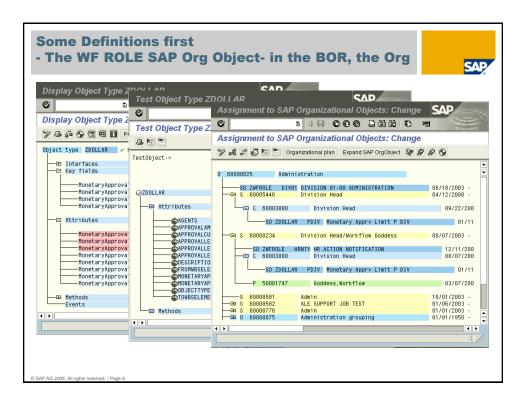
- Workflow Estimation Tool
- Triggering point, back-out option
- Workflow Estimation Tool
- Simple methods for simple minds
- Code Snippets for you to use too!

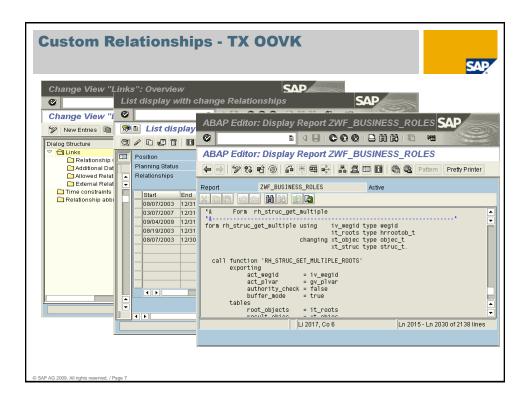
3. In real life (lessons learned)

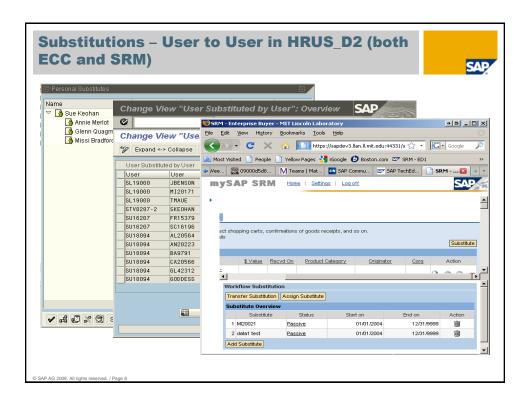


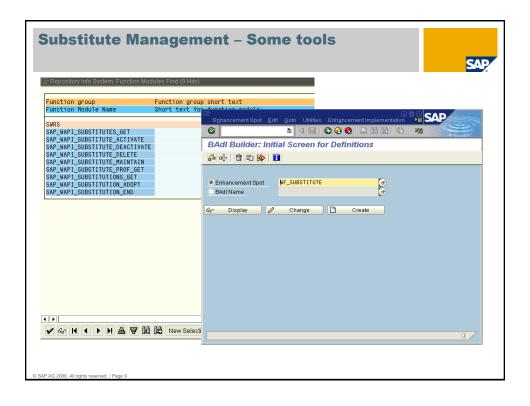


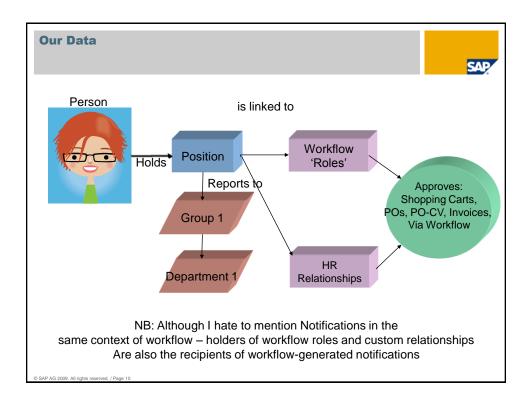


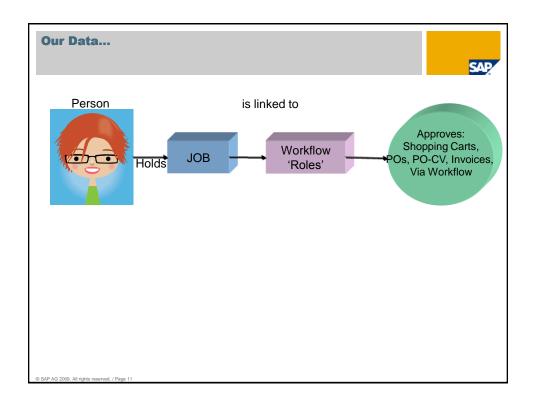


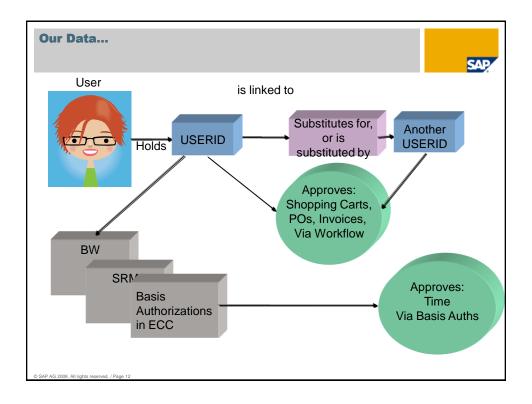












Our Data (well, not really)



Sample:

- Ryan works at the head office, and he designates Kelly as his substitute
- Michael works for Scranton Office. He approves Shopping Carts (via role assignment to his *Job*) and designates Jim as his substitute
- Jim can approve anything sent to Michael via Workflow because of substitution
- Dwight also can approve whatever Michael can approve via assignment of a Workflow 'role' to his *Position*
- Pam approves Time for Scranton via her **Basis authorizations**

So, what happens in a Real "Office"?

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Our Data, and what happens with it



- Michael leaves the office, but doesn't un-delegate his substitutes
- Jim transfers to NY, but still holds Michael's substitute authority
- Pam transfers to Sales, but can still approve Time via Basis Authorizations
- Ryan gets fired for drug abuse but Kelly gets very sad when she sees him on her list of substitutes.
- Dwight gets just plain upset because he sees who has invalid approvals and authorizations













Risks (simplified)





Jim can approve any purchases made for the Scranton Office, if Dwight doesn't approve it first. He can also finish any of Michael's 'leftover' workitems



Pam can approve the Time for anyone in the office, even though it is Kelly's new job



Kelly gets upset every time she tries to substitute for someone and sees Ryan's name



Dwight is furious because, well, he's Dwight

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Why Workflow?



We could have implemented a manual process – involving several teams.

HR Department

Basis Team

Workflow Team

Auditors?











Well then, whyever not???

Potential for dropping the ball

Tedious

Time/Resource consuming

Some sensitive data is better off with fewer hands

Why Workflow?



Could have implemented a background job to just sweep through delimited personnel numbers



But we also need to be able to audit the process – and provide a 'back door in the case where authorizations *needed* to be retained.

No Black Holes!

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Why Workflow?



Triggers automatically

Changes logged and easy to find



No Hand-offs

Opt-out controlled by HR

Using workflow (from a workflow developer's point of view) was a natural fit!

Assemble your Tribe...



Identify Stakeholders

HR was a natural fit – the triggering point involves their process(es)

Basis/Security Group too – they 'own' some of the data

The LL Business Owners needed representation - as this project would impact them the most

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Assemble your Tribe



Team Members

- Workflow Developer
- One ABAP Developer

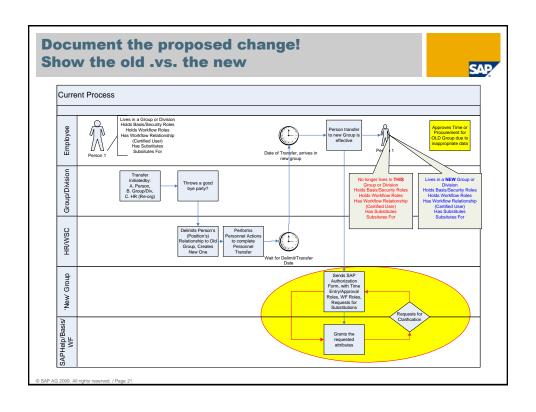


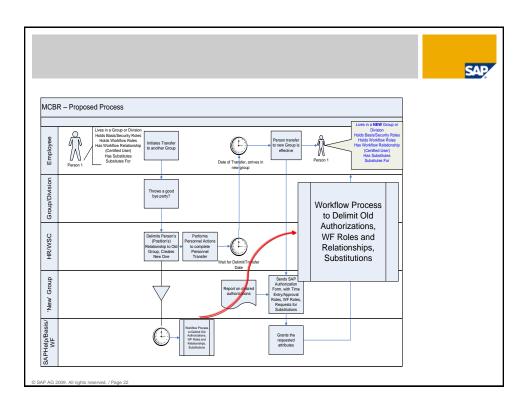
■ Basis Team

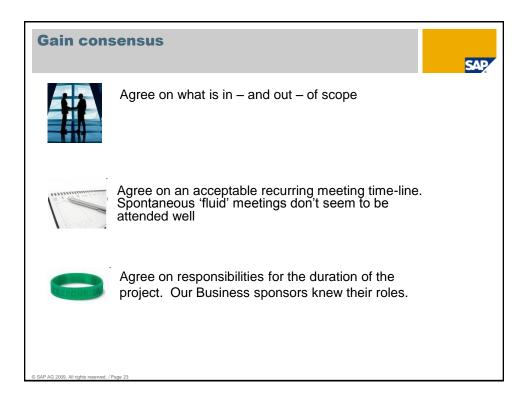


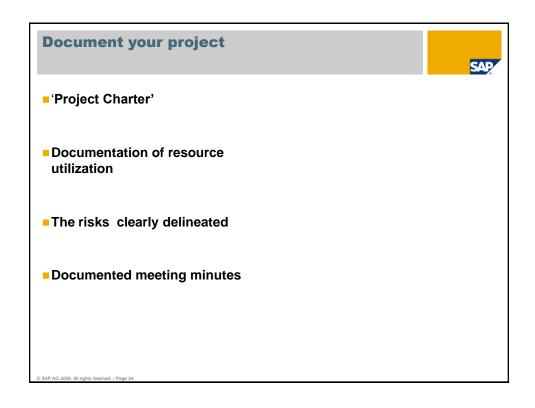
- Business Users
- HR/IS for testing and validation











2. Technical Info – the overview



- Delimiting Basis roles was easy we already had the hook
- A small workflow to delimit authorizations and substitution data was quickly developed and implemented
- The HR data (data related to a position) was more tricky...

Data, data – who owns the data?

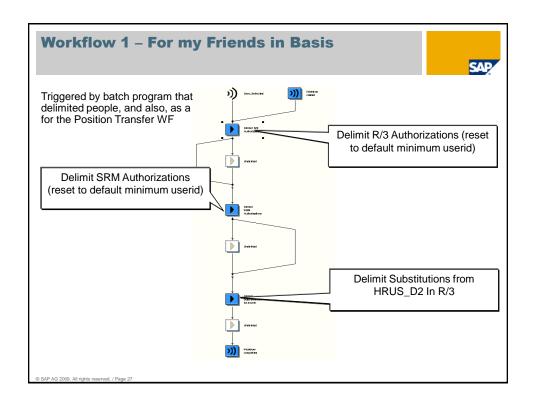
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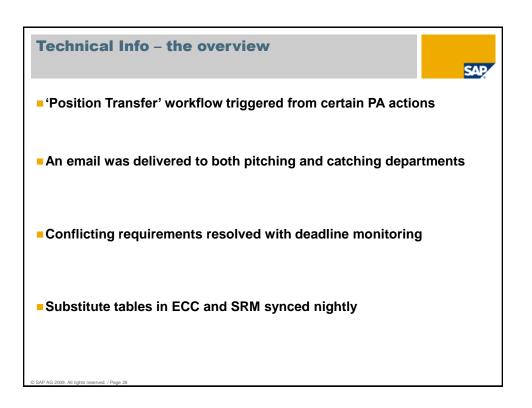
Business Object ZUSER

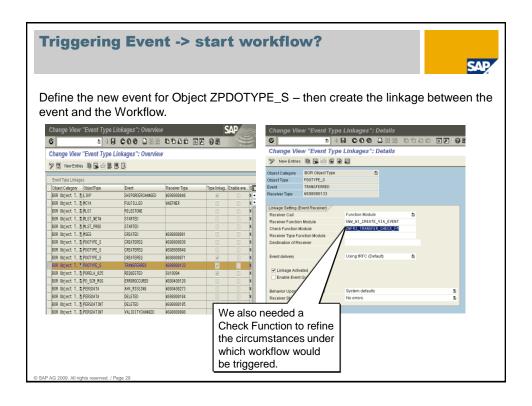


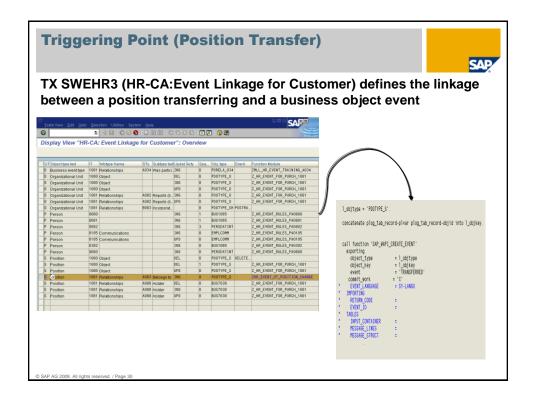
- Enhanced with a few new attribute
- Delegated from SAP object USER
- Instantiated from object ZPDOTYPE_S
- Code snippets here:











Check Function, please?



- Were events triggered by automated processes?
- Was this an 'empty' position that was being moved?
- Was this a new position that had no prior organizational relationship?
- Were the actions performed retroactively?

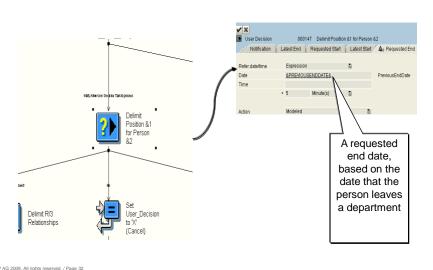


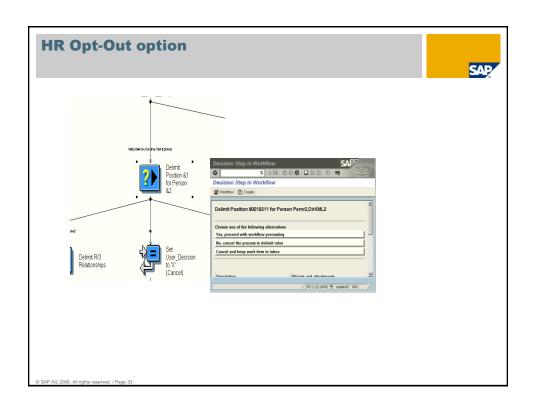
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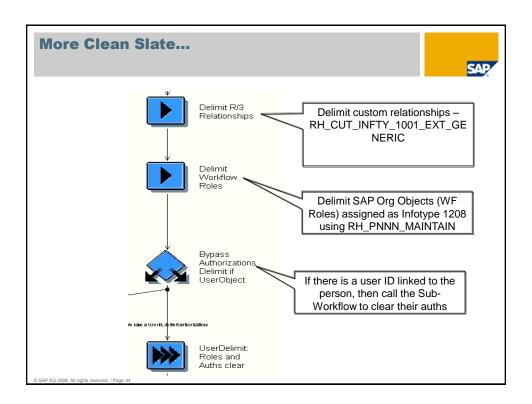
Workflow 2 - Clean Slate

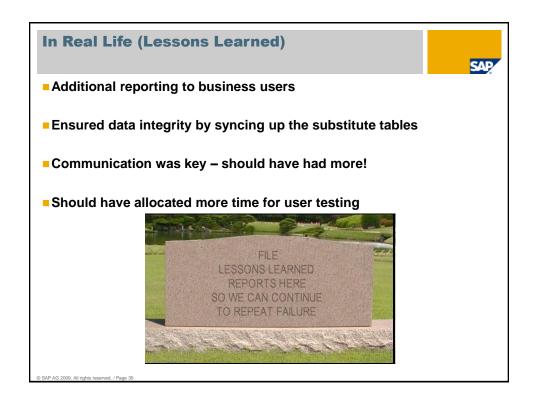


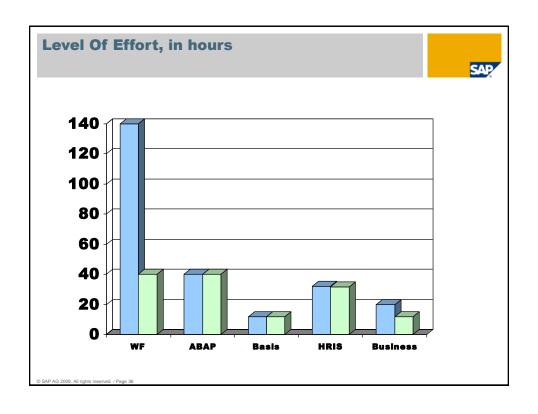
A little more complex because we wanted to *allow* HR to decide if they wanted the workflow to proceed – but we did not want to *make* them act on each one.

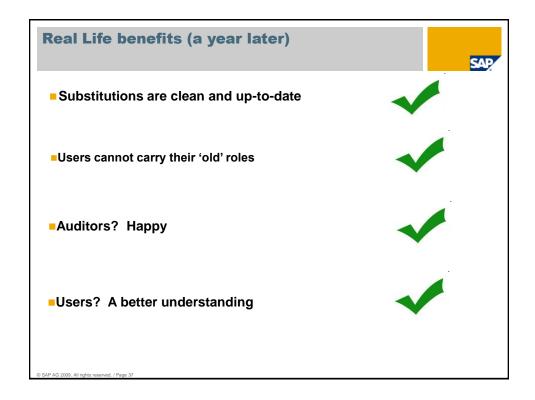


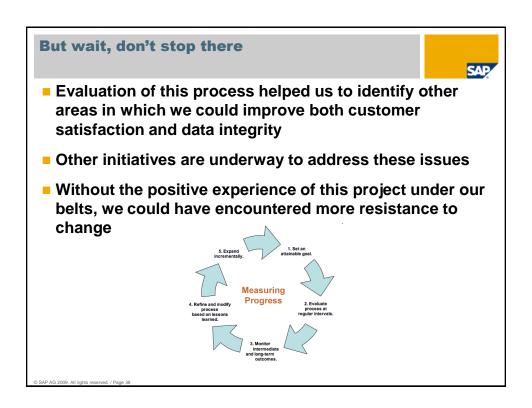












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→ SAP Public Web:

SAP Developer Network (SDN): www.sdn.sap.com
Business Process Expert (BPX) Community: www.bpx.sap.com
SAP BusinessObjects Community (BOC): www.boc.sap.com

Related Workshops/Lectures at SAP TechEd 2009

BI204 - Best Practices on Workflow Tools Usage for MDM Scenarios
BI211 - Implementing MDMusing Web Dynpro as UI and Guided
Procedures for Workflow

CD202 - Use Web Dynpro for ABAP, Workflow and the UWL to Revolutionize Decision Processing

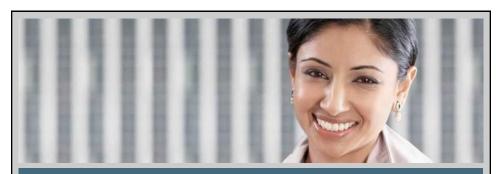
CD206 - Flexible Workflow-Base Solution for Journal Entry Approvals

SIM260 - Approval Workflows with SAP NetWeaver Identity Management 7.1

UP217 - Deploying Mobile SAP Systems and Business Workflow

UP266 - Customizing Allow: Exposing SAP Workflows to Lotus Notes

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