# knowledge

May 7-10, 2018 Las Vegas

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## It's not you, it's me:

Implementing domain separation in an established ServiceNow® instance

Kourtney Brewster
ServiceNow® System Administrator
County of Monterey



### Agenda

Selecting Domain Separation

Monterey County's unique challenges

Planning, organizing, and automating

Lessons learned

What's next?



### Speaker introduction



Name: Kourtney Brewster

**Title:** Software Programmer Analyst

**Function:** ServiceNow® System Administrator

Company: County of Monterey



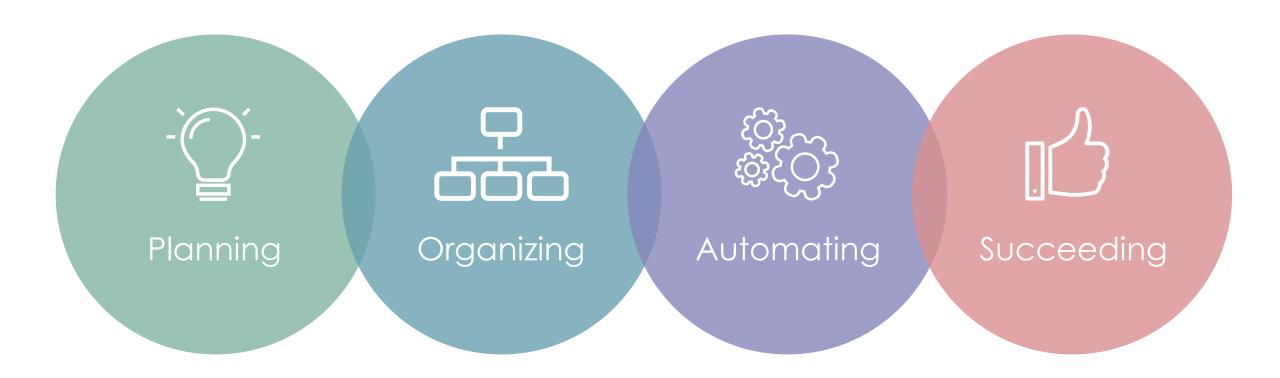
**Experience/Expertise:** Three years experience in ServiceNow<sup>®</sup>, Certified System Administrator and in-house trainer for ITIL users.

**Achievements:** Spearheaded PPM implementation, and key member of the team which successfully executed Domain Separation

**Current Projects:** Additional domain development, CMDB implementation, Kingston upgrade and CMS to Service Portal conversion

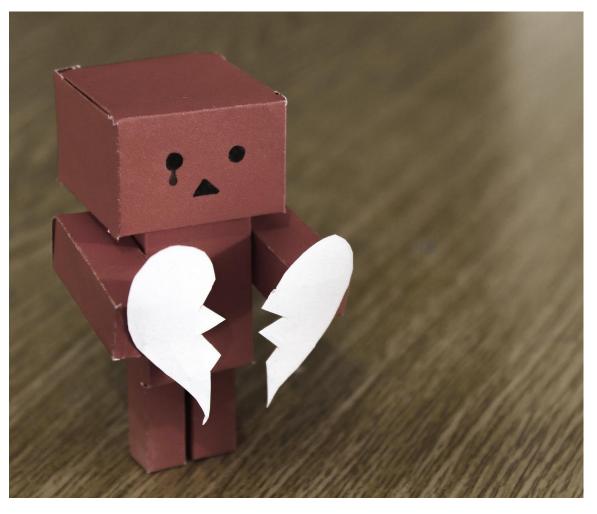


### What you will learn





### "It's not you, it's me"

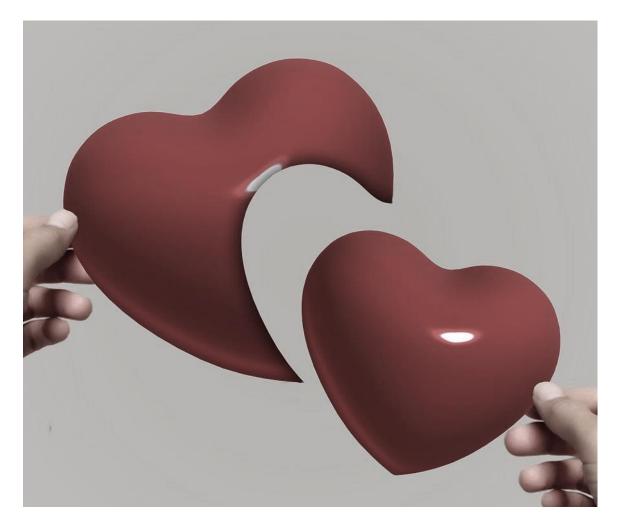


- Monterey County has a unique environment
  - Centralized IT department (ITD)
  - Multiple departmental level IT teams
- ServiceNow<sup>®</sup> acquired and configured for ITD use only
- Initiative to have ServiceNow® be an enterprise ITSM solution



### "I need some space"

- Getting buy-in
- Three years of data and customizations
  - Customizations made with only ITD in mind
  - Thousands of records across multiple tables
  - Ongoing development in an incomplete state
- Hybrid environment of segregated and shared data
  - Old records remain visible
  - New records created in correct domain
  - Existing records passable between domains



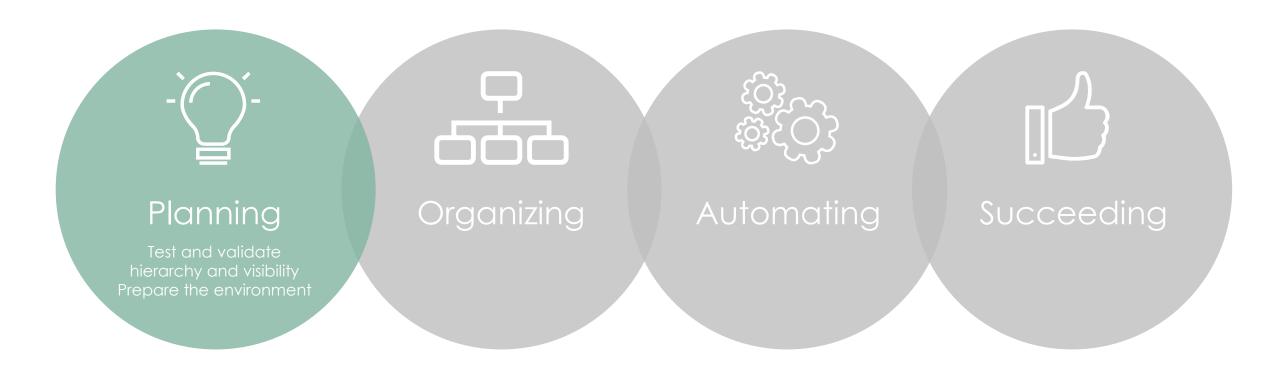


### Breaking up is hard to do





### Get your act together





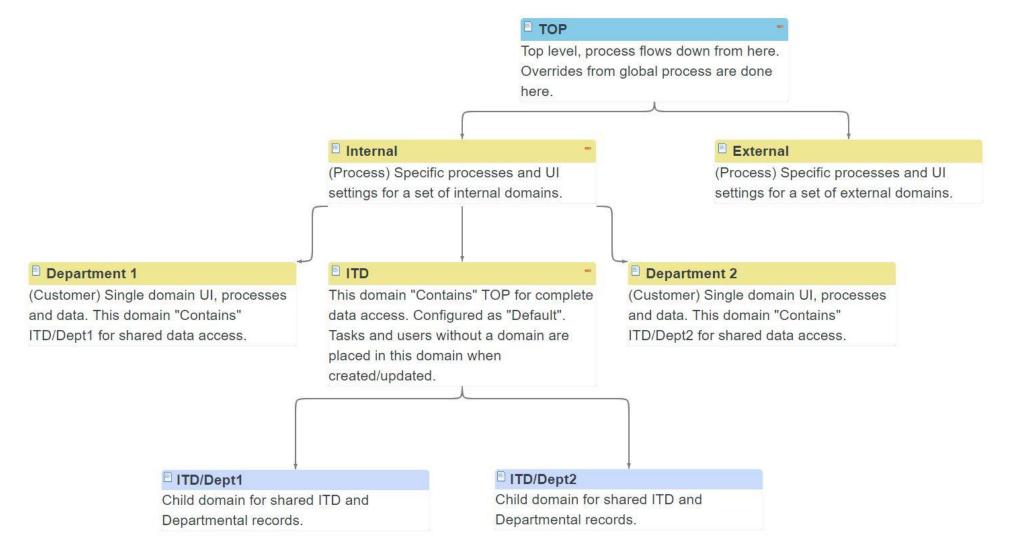
### Time to move on



- Deciding to use Domain Separation
- Taking the ServiceNow<sup>®</sup> Domain Separation training
  - Learn best practices and things to avoid
- Prepare the environment
- Draw out multiple domain hierarchy options
- Trial and error in development
  - Clone and activate plugin
  - Try out different domain structures

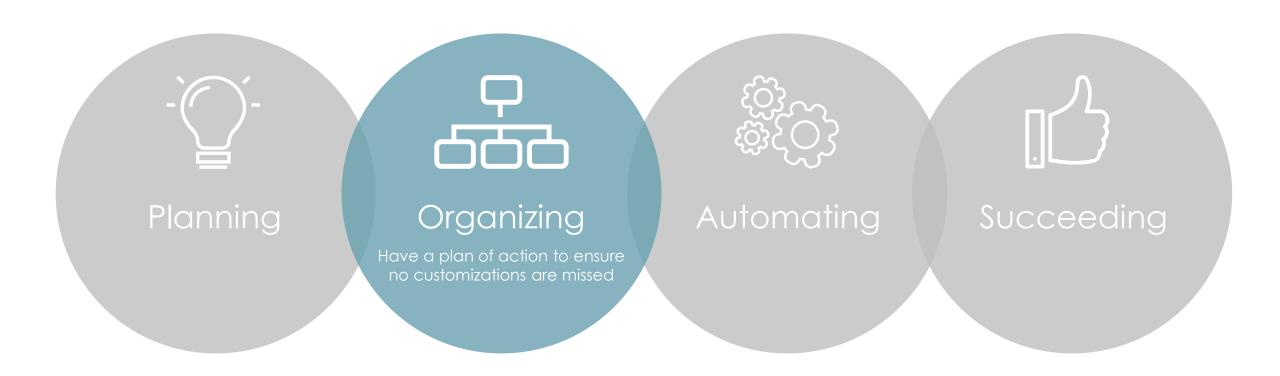


### "I want to find myself"





### Get your act together





- Use an organized approach for reviewing customizations
- One Excel file per table
  - One tab per type of customization

1	A	В	С	D	E	F	G	Н	1
1	Name	Active	Table	Type	Created	Created by	Updated	Updated by	Notes
2	Calculate Duration From End Date	TRUE	pm_project	onChange	2013-05-20 15:41:53	admin	2015-03-30 11:30:58	admin	Leave Alone
3	Calculate End Date From Duration	TRUE	pm_project	onChange	2013-05-13 09:37:08	admin	2016-04-21 04:32:18	admin	Leave Alone
4	Check Valid Nested Project Start Date	TRUE	pm_project	onChange	2013-04-08 14:26:17	admin	2015-04-06 03:37:23	admin	Leave Alone
5	CoM Set Customer Dept	TRUE	pm_project	onChange	2015-10-13 13:55:42	Kourtney	2015-11-03 15:14:14	Kourtney	Move to ITD
6	CoM Set Customer Dept	TRUE	pm_project	onChange	2015-10-22 15:34:37	Kourtney	2015-10-22 15:35:09	Kourtney	Move to ITD
7	Disable Calcualtion Type	FALSE	pm_project	onLoad	2014-11-19 14:32:59	admin	2015-03-30 11:30:06	Kourtney	Clone to ITD, Revert
8									
9									
10									
. 3	ACLS BR Client Scripts N	Notification	s UI Action	UI Policy	<b>(</b>	1 4			





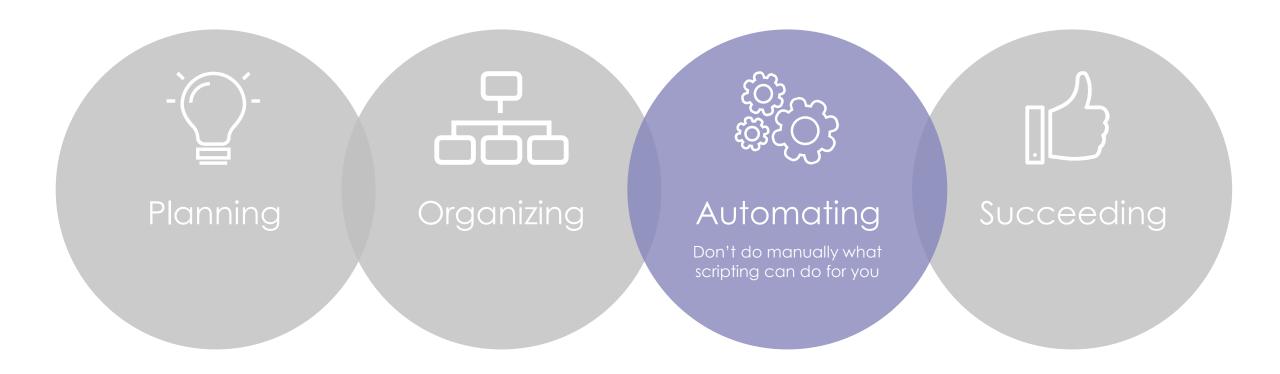
Items that need no action

Items that need to be moved

Items that need to be cloned and reverted in global

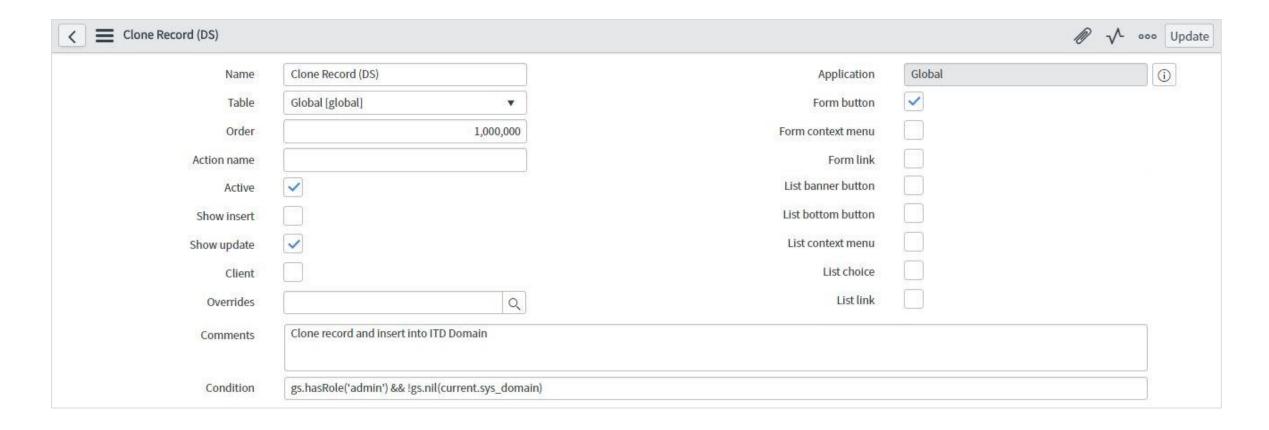


### Get your act together





UI action to clone and revert





Clone the record to the correct domain

```
var tblName = current.getTableName();
var gr = new GlideRecord( tblName );
gr.initialize();
gr.get( current.sys id );
gr.setDisplayValue( 'sys domain', 'ITD' );
gr.autoSysFields( false ); // Do not update sys updated by, sys updated on,
gr.insert();
gs.addInfoMessage( 'Record ' + current.sys id + ' has been cloned to ' +
gr.sys id + ' in table ' + tblName );
```



Revert the existing record

```
revertToStock();
function revertToStock() {
   var grRevert = new GlideRecord( 'sys upgrade history log' );
    grRevert.addQuery( 'file name', 'CONTAINS', current.sys id );
   grRevert.query();
   while ( grRevert.next() ) {
        var name = grRevert.file name;
       var grHead = GlideappUpdateVersion.getHeadVersion( name );
        if ( grHead.isValidRecord() ) {
            grRevert.payload = grHead.payload; }
        var grBaselineHead = GlideappUpdateVersion.getVersion( name, grRevert.upgrade history,
            'sys upgrade history', null );
        if ( grBaselineHead.isValidRecord() ) {
            var isSuccess = GlideappUpdateVersion().revert( grBaselineHead.sys id );
            if (isSuccess) {
                grRevert.disposition = '5';
                grRevert.update();}}}
```



Form button visible to revert any record once reviewed



Original reverted and customization cloned to correct domain







- Visibility of historical departmental records
  - Script to move historical records
- Creation of new records
  - Business Rules to ensure correct domain

### Forwarding the mail



- Passing of existing records
  - Business Rules to move to another domain
- Domain override on catalog items
  - Custom field and Business Rule to ensure correct domain

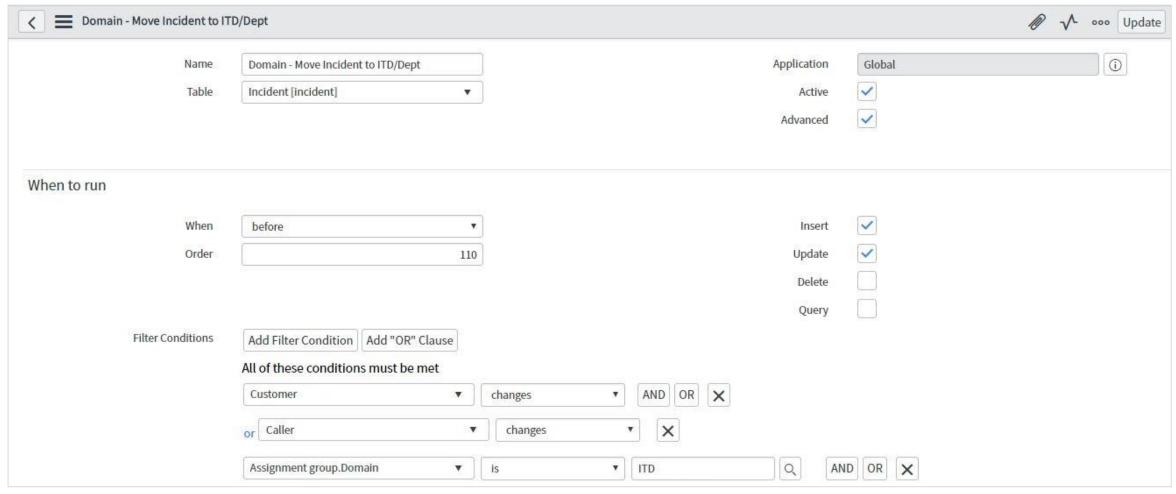


Scripting to move historical records

```
// Migrate Records to 'ITD'
// UPDATE 'sys_domain' on 'incident' WHERE ...
var gr = new GlideRecord( 'incident' );
gr.addQuery( 'caller_id.department', 'NOT IN', 'department1, department2' );
gr.addQuery( 'customer.department', 'NOT IN', 'department1, department2' );
gr.query();
gr.setDisplayValue( 'sys_domain', 'ITD' );
gr.setWorkflow( false ); // Do not run any other business rules
gr.autoSysFields( false ); // Do not update sys_updated_by, sys_updated_on,
sys_mod_count, sys_created_by, and sys_created_on
gr.updateMultiple();
```



Records created in correct domain





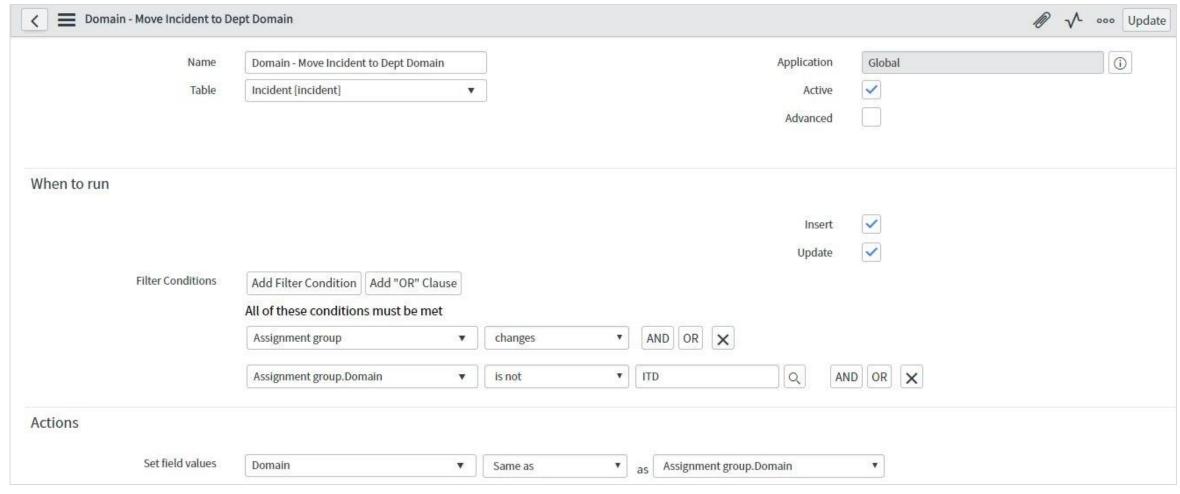
Records created in correct domain

```
var cust vis = current.customer.department.u visibility domain;
var caller vis = current.caller id.department.u visibility domain;
var domain;
if ((cust vis)) { //if visibility domain is set on customer's department, set domain
    domain = cust vis;
else if ((caller vis)) { //else if visibility domain is set on caller's department, set domain
    domain = caller vis;
else { //else visibility domain is not set for customer or caller, place in the ITD domain
    domain = 'ITD';
   (current.sys domain != domain) { //only update if the incident is not already in this domain
    current.sys domain = domain;
    gs.addInfoMessage('This Incident has been moved to the appropriate domain');
```



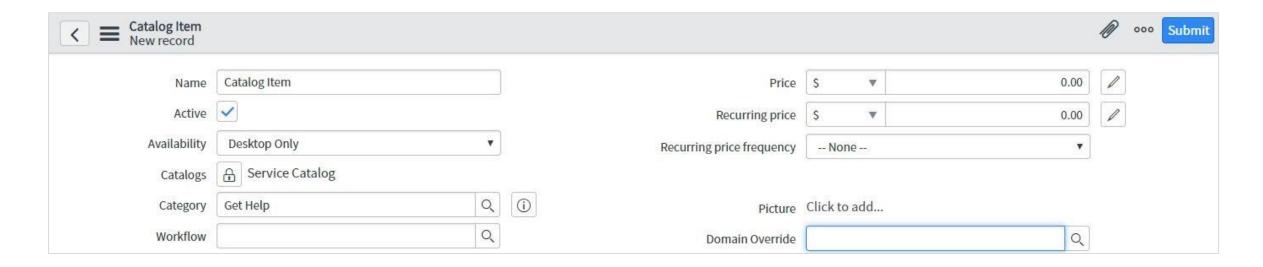
### Forwarding the mail

Reassigned records move to the correct domain





# Forwarding the mail Domain override field created for catalog items





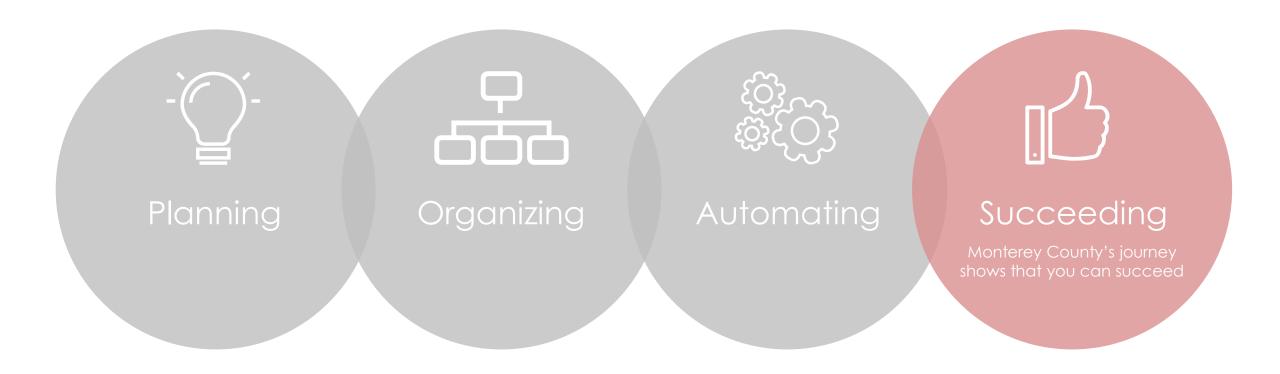
### Forwarding the mail

Business Rule to set domain to override field

```
var visibility = current.customer.department.u visibility domain;
var req = current.sys id;
var item = new GlideRecord('sc req item');
item.addQuery('request', req);
item.query();
while (item.next()) {
   //if override is populated, set to that domain
   if(item.cat item.u domain override) {
      current.sys domain = item.cat item.u domain override;
    else if(visibility) {
      current.sys domain = visibility;
```



### Get your act together





### "You aren't the same person anymore"



Client Scripts, Business Rules, ACLs, Notifications, Form and List Layouts, etc. Reverted or moved

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Customizations

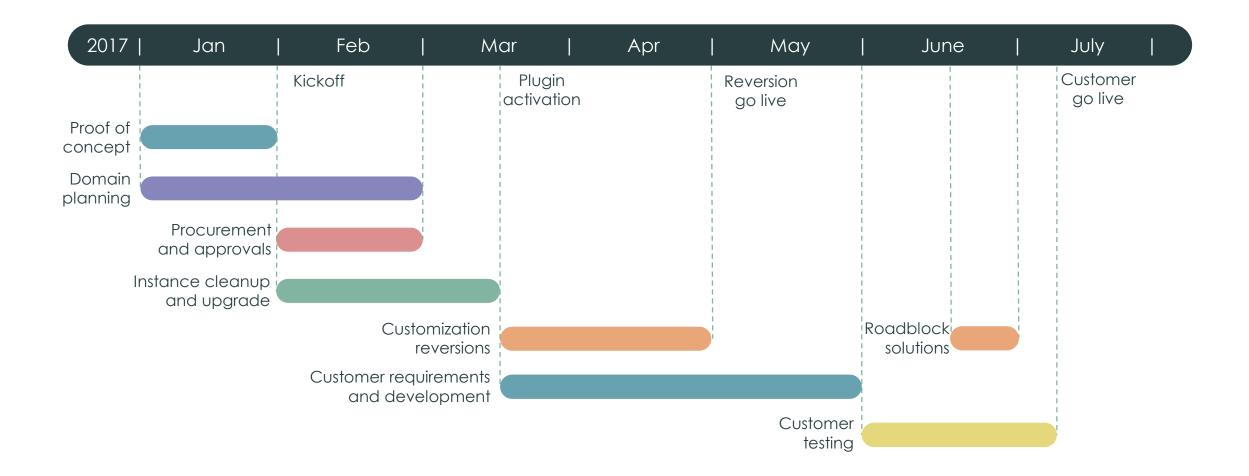
Customizations moved to TOP or MSP domain as needed, or cloned and reverted in Global



Existing records moved from Global to MSP and department domains



### "But I gave you three years of my life"





### "What did I do wrong?"

- Hindsight is 20/20
  - Knowing future paths helps planning
- Practice makes perfect
  - Plug-in activation timeline
- New challenges may mean revisiting old ones
  - Some resolutions are only a temporary fix





### Putting yourself back out there





- Introduction of Asset Management
  - Shared assets between domains
  - Reporting and billing benefits
  - Orchestration with SCCM
- Four new customer domains planned for FY18/19
  - New challenges to solve
- Upgrade to Kingston
- Convert our CMS to the new Service Portal



### Top takeaways

Take a planned and organized approach

Expect to hit some roadblocks

Think creatively: success is possible



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## Questions?

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# Thank you

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