

MSFC APPLICATION PORTFOLIO MANAGEMENT (APM)

MSFC Office of CIO

OVERARCHING STRATEGY AND OBJECTIVES



- **Strategy**

Provide continuous assessment of applications that are the responsibility of MSFC to guide decisions

- **Objectives**

- Invest in the right Apps. -- most critical to MSFC mission
- Eliminate old/vulnerable technologies & enable modernization
- Eliminate duplicative Apps. thru consolidation & reuse
- Leverage Agency tools, e.g., Windchill
- Application of assessment methodology for all Apps (established position for each one)
- Continuously improve process as assessments progress

PORTFOLIO MANAGEMENT DRIVERS



- **Problem Statements**

- Shrinking Budgets — **Imperative to spend strategically**
- Large amount of Apps with overlap and duplication
- Strategy needed due to limited resources, regulations, multi-organization IT budgets

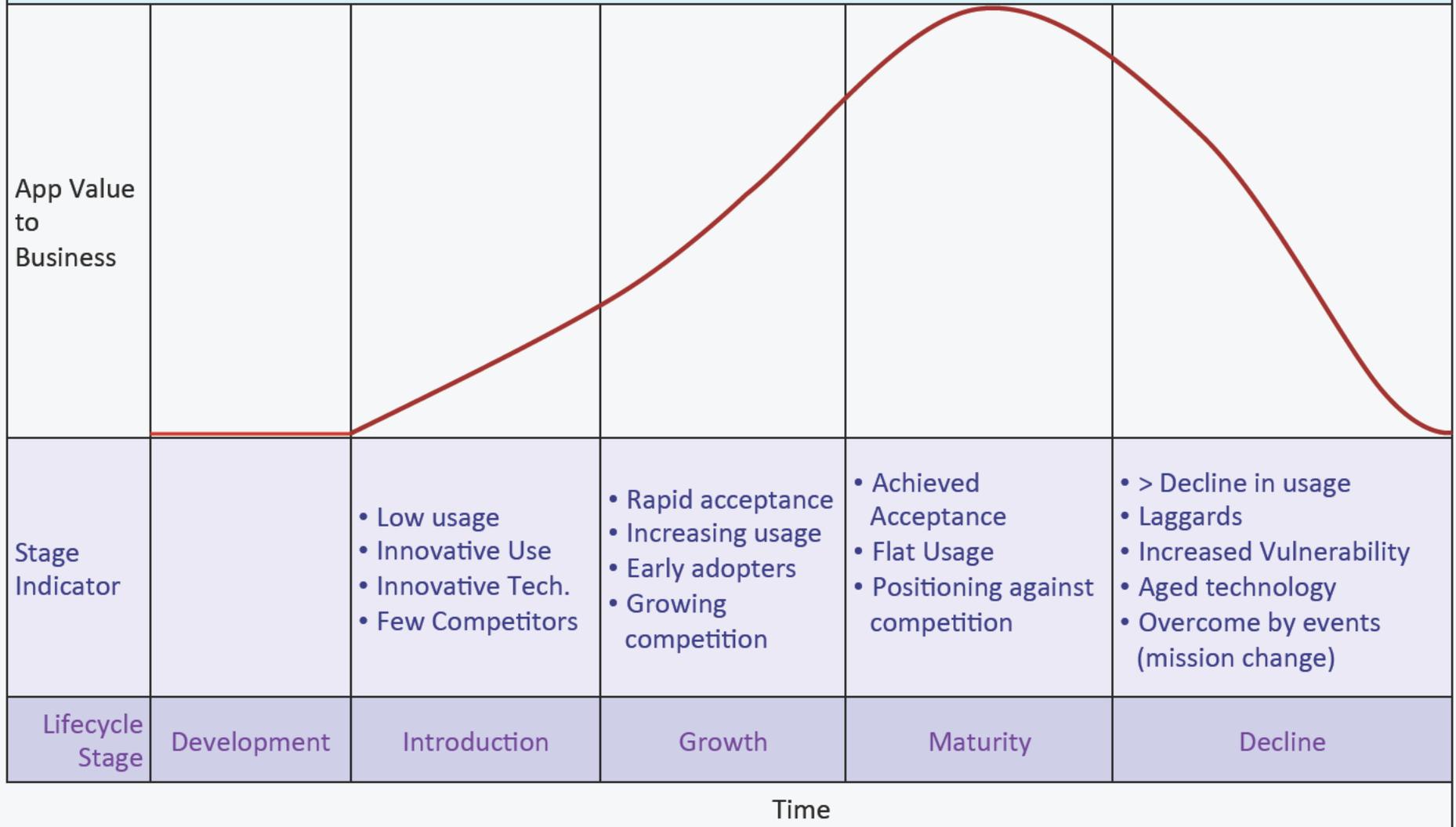
- **Portfolio Management Approach**

- Provides sound approach to optimizing IT investments and controlling cost by considering
 - Business Value/Cost
 - Technical Integrity
 - Functionality
 - Consolidation and Reuse
 - Risks
- Enables intelligent decisions to manage the portfolio

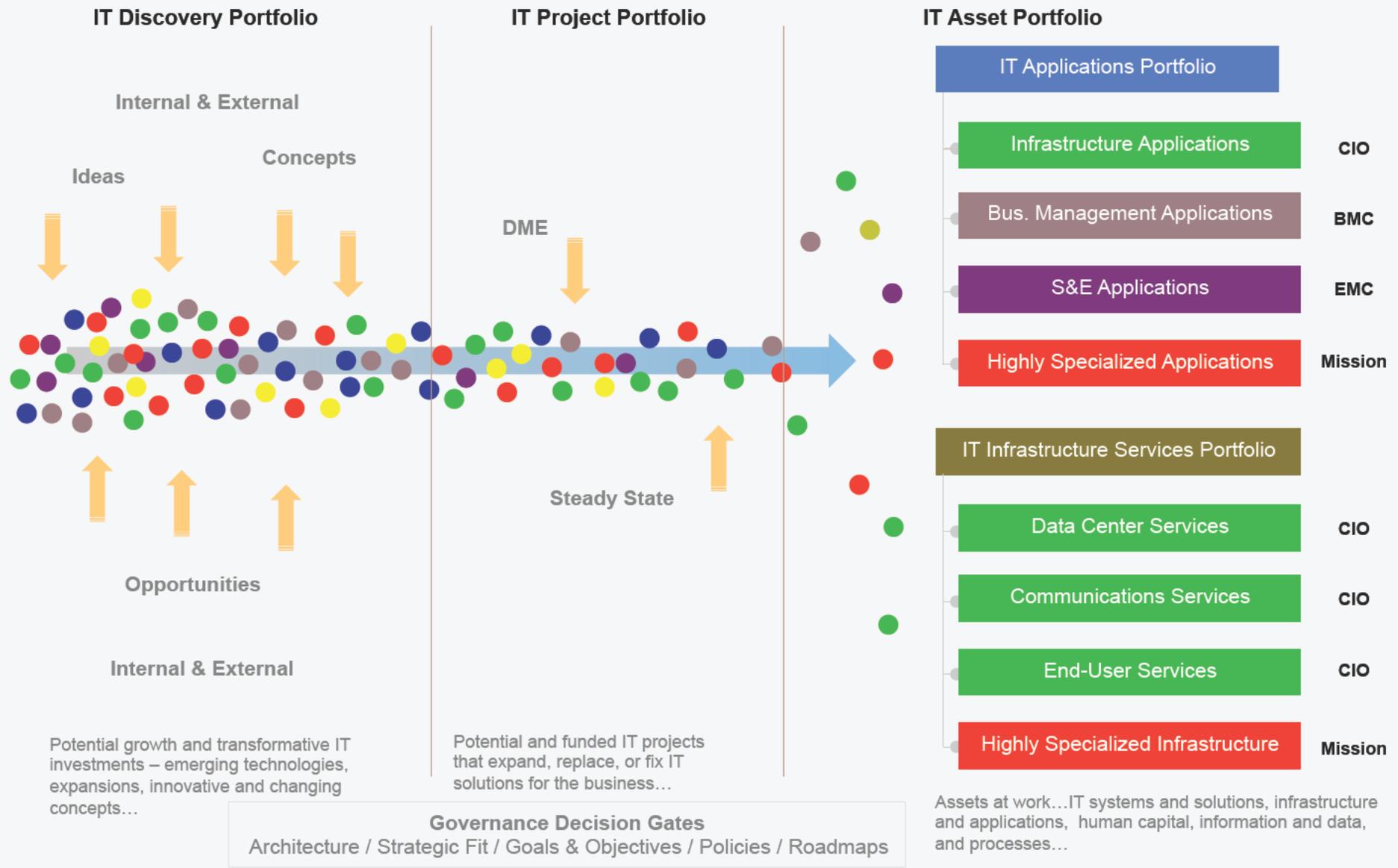
MATURITY CHART: VISUALIZE APPLICATION STRATEGY OVER TIME (ROADMAP)



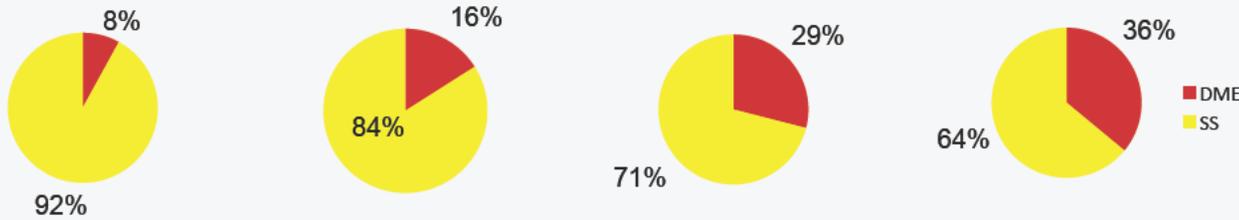
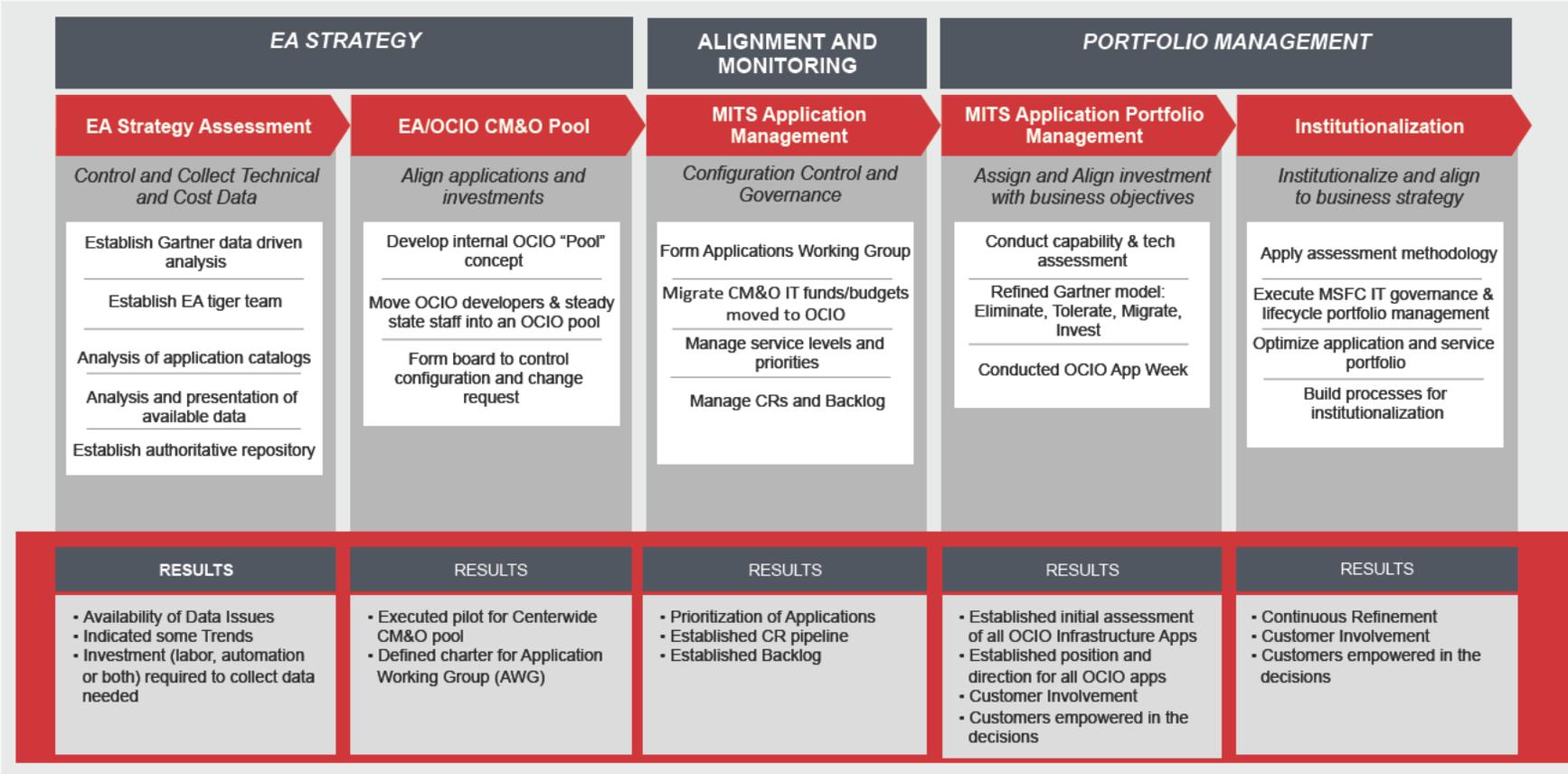
Value Metrics: Meets Mission Requirement; Cost; Customers/Usage; Security, Technology, Architecture



IT PORTFOLIO LIFECYCLE PHASES



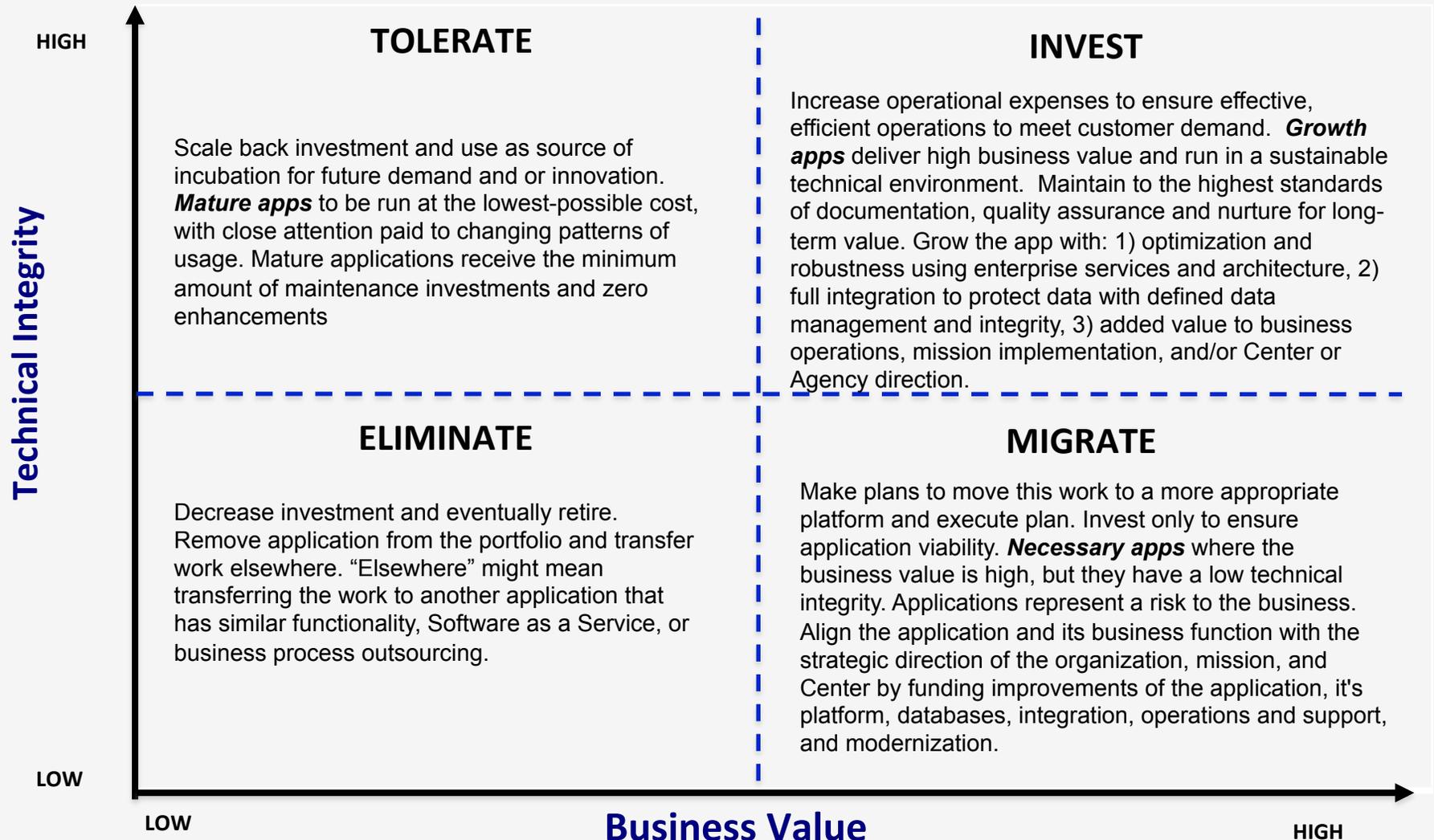
APM: CHRONOLOGY



APM: DECISION SUPPORT QUADRANTS



Provides a dimensional perspective of applications / web sites



Source: "Applications Overhaul: Rationalize, Standardize, Consolidate and Simplify", 2009 Gartner

APM: CURRENT STATE



- **Approach as Instituted**
 - Follow MSFC IT Governance & Lifecycle Portfolio Management
 - Follow established Application Architecture
 - SharePoint
 - Jive
 - Drupal
 - Documentum
 - Remedy/ITSM
 - Maximo
 - Custom Open Source: LAMP Stack preferred
 - Leverage Agency tools, e.g., Windchill
 - Institutionalize application of assessment methodology
 - Establish Position & Roadmaps (Master Plan) for All Apps/Capabilities By Science & Engineering (S&E)/Business Processes
 - Build & execute actionable tasks/projects
- **Completed Work**
 - Established Methodology: Assessed S&E/Business Value, & Technical Integrity
 - Retired 31 Apps to date (Business Processes Migrated or Eliminated)
- **Current Work**
 - Building Roadmaps
 - Building Guiding Principles for IT solutions, e.g., development tools, platforms
 - Building OI to institutionalize continuous assessments
 - Building Plans for near-term activities
 - Focus on consolidation to SharePoint, ExplorNet & Drupal

Tenets for Institutionalization

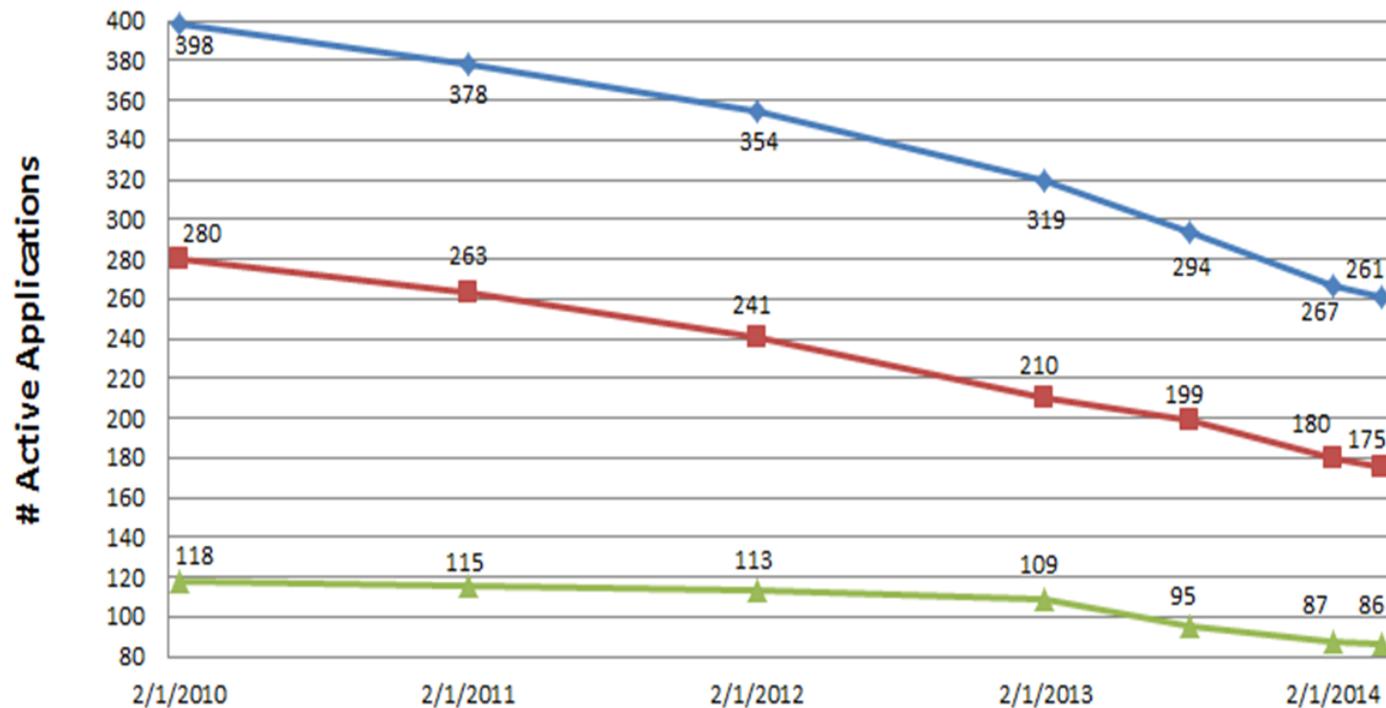


- Use Existing Governance Model
 - Propose to establish a MORR-Like Yearly Review Process for current Assets (Very Basic Business & Technical Questionnaire)
 - MEAAC performs initial assessment of all new apps approved for investment
 - Present application portfolio status to ITSIB regularly
 - Add DME & SS cost per application to SIBC data
- Clarification & involvement of roles to maintain roadmaps & manage change
- Update Tech Evaluation routinely
- Analyze change scenarios routinely as part of Roadmaps
- Raise situational awareness of APM (communications)
- Integrate into enterprise IT Asset Mgt. (when available)

APPLICATION INVENTORY RATIONALIZATION

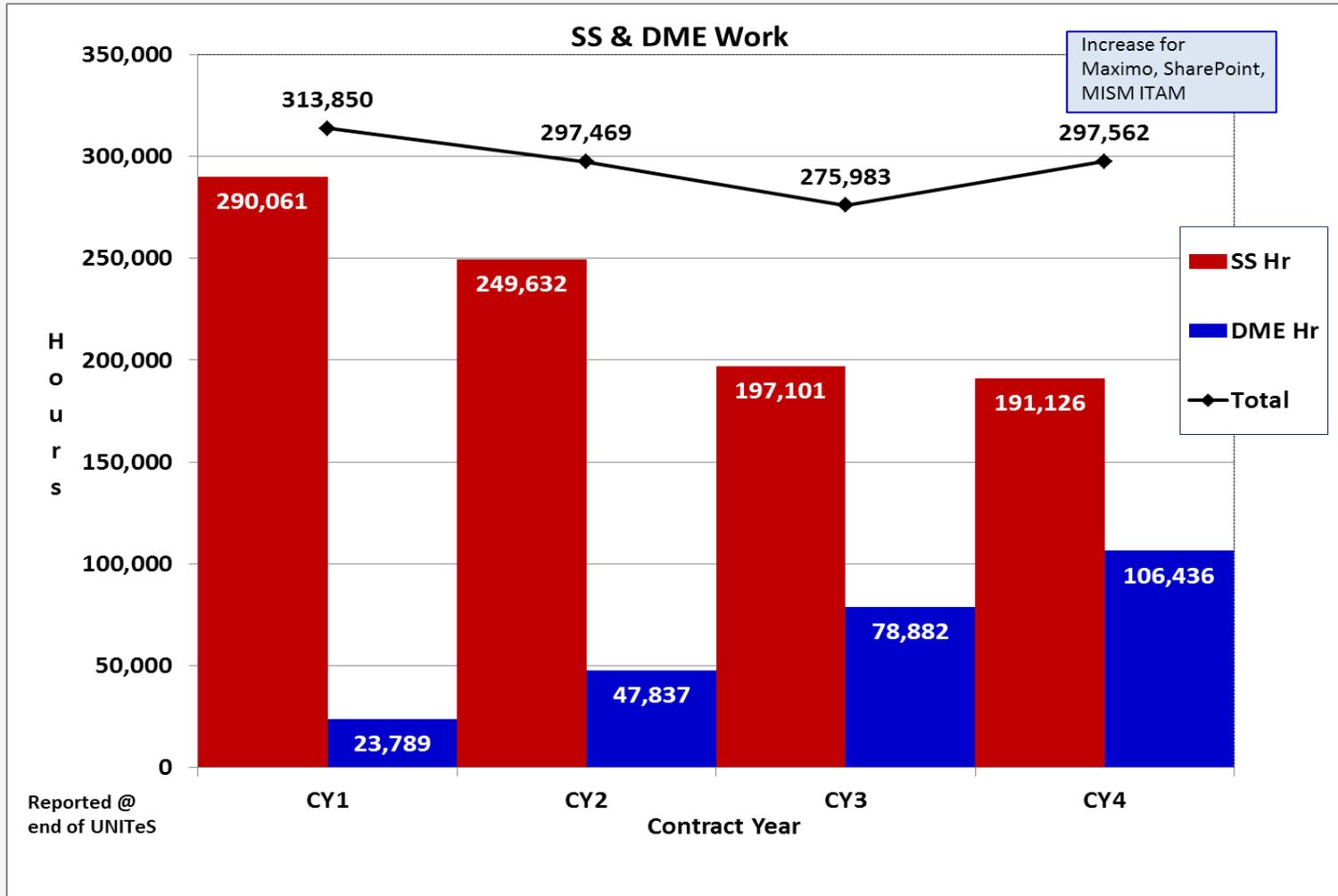


Active MSFC Apps in AIM Since Start of MITS Contract



	2/1/2010	2/1/2011	2/1/2012	2/1/2013	8/19/2013	2/1/2014	4/22/2014
◆ Total Active MSFC Apps	398	378	354	319	294	267	261
■ MITS Active MSFC Apps	280	263	241	210	199	180	175
▲ Non-MITS Active MSFC Apps	118	115	113	109	95	87	86

DME TO STEADY STATE RATIO



APM: CHALLENGES AND SUCCESSES



- **Top Challenges**

- Scheduling (Finding a time, Off-site location)
- Completing Assessments (mainly engineering)
- “Unknown” Apps, Apps not currently identified as part of the Inventory ~30
- How to deal with Agency apps hosted at MSFC and hosted on MITS-managed data center infrastructure
- Collecting technical data: Usage Metrics
- Keeping Assessments Continuous

- **Successes**

- Customer Engagement and Ownership
 - Active Customer Relationship Management
 - Establishment of Customer Relationship Model
 - Focused Customer Review Sessions
- Discovery of “Hidden” Servers and applications
- Continuing Consolidations into Data Centers



SUPPORTING INFORMATION

CURRENT ASSESSMENT STATUS



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Org. Assessments	Apps	Retired	Active	Quadrant				Assessed	
				E	T	M	I	Apps	Bal
AS - Center Ops.	34	8	26	4	8	17	5	34	0
CS - OSAC	18	1	17		7	7	4	18	0
DA - Center Director	6	0	6		4	2		6	0
ED - Engineering: Non-S&E	36	1	35	1	4		2	7	29
ED - Engineering: S&E	40		40						
FP - Flight Prog/ Partnerships	8	0	8		8			8	0
HS - Human Capital	17	2	15	1	3	11	2	17	0
IS - OCIO	47	14	33	13	17	9	8	47	0
LS - Chief Counsel	2	0	2			2		2	0
OS - Diversity & Equal Opportunity	3	0	3			3		3	0
PS - Procurement	4	0	4		1		3	4	0
QD - S&MA	33	5	28	6	6	8	13	33	0
RS - OCFO	6	0	6				4	4	2
XP - SLS	2	0	2			1	1	2	0
ZP - Science & Tech	33	0	33		32	1		33	0
Total Tracked	289	31	258	25	90	61	42	218	31
S&E Portfolio	40							88%	
Assessments	249							Complete	

Assessment Categories	Apps	Status
1-of-a-kind	19	Using Org Assessments
Tracking & Workflow	11	Complete
Asset & Configuration Mgt	9	Complete
Business Tools (BPAS)	23	Project underway to integrate & consolidate
File Mgt & Collaboration	18	Complete
Infrastructure Ops	14	Complete
MSFC Architecture, IT Utility	10	Complete
Public Affairs / Outreach	45	Aligning w/ architecture
Comm. (internal) / Outreach	28	Complete
Total*	177	

*72 in eliminate quads; ED; or Org. web sites not assessed