

Implementing Process Improvement in an Organization



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Agenda

1

Transformation Roadmap

2

Maintaining Momentum
and Energy Levels

3

Lessons Learnt

4

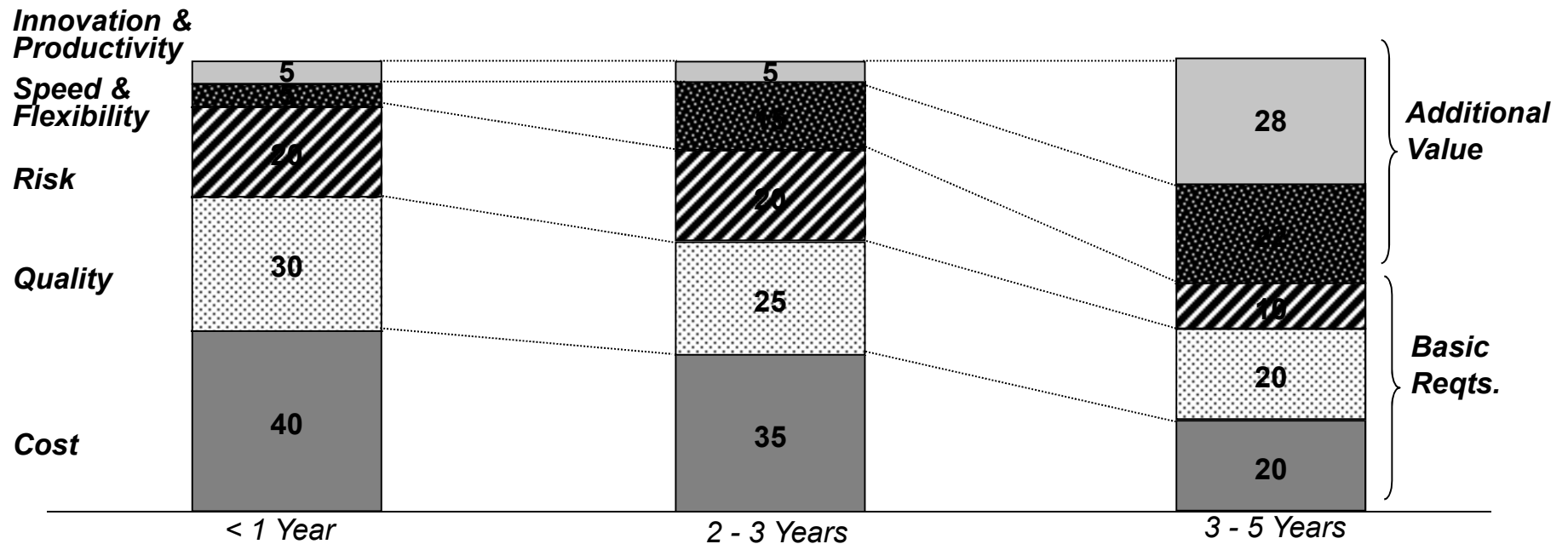
Statistical Applications
in Efficiency Programs

5

Conclusion



Shared Services- Needs of Customers are Evolving



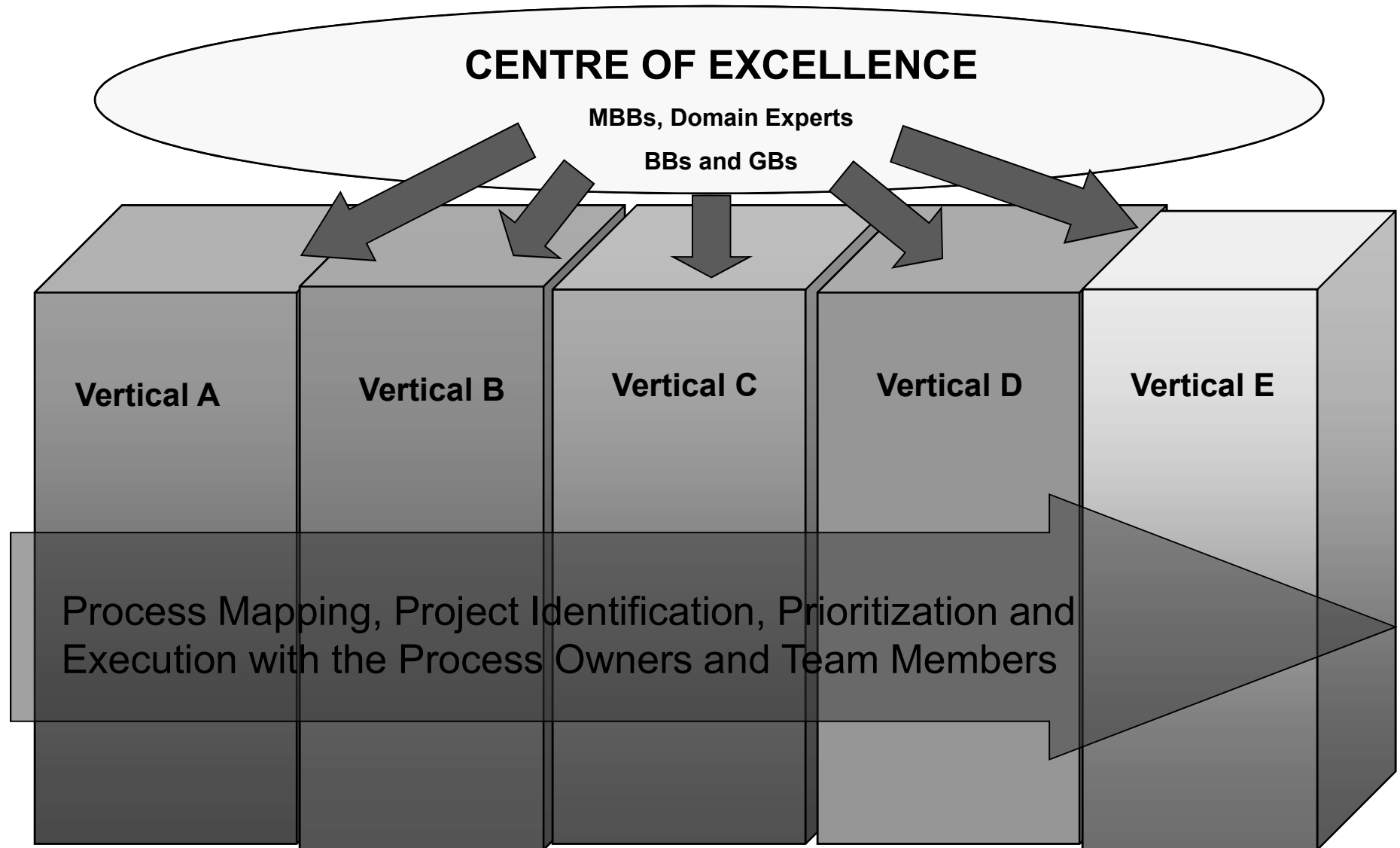
“I am currently most concerned about achieving the highest levels of quality at the lowest cost”
 - UK bank

“I would like the Indian Shared Services providers to focus on delivering higher levels of productivity every year” - US cards company

“I would like to have more focus on innovation and productivity”
 - US mortgage bank

Source: process 360 Deg. Benchmarking exercise, Nasscom – Mckinsey Report. 2005

Transformation Structure



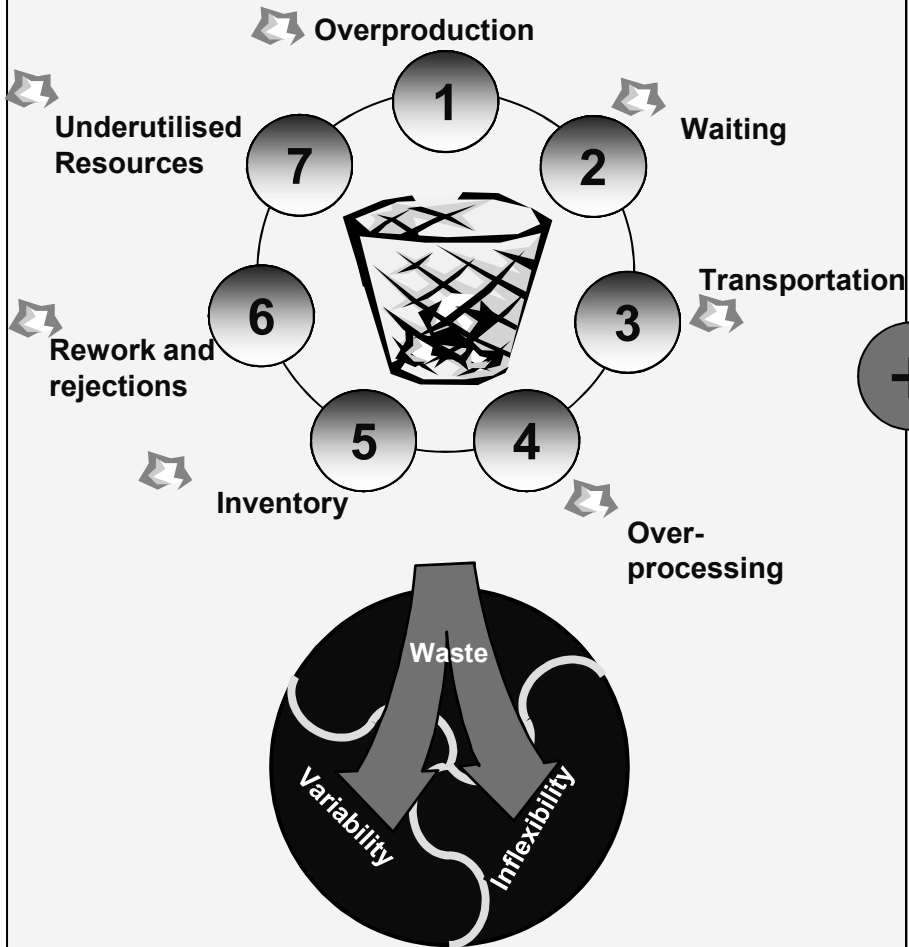
Companywide Efficiency Programs



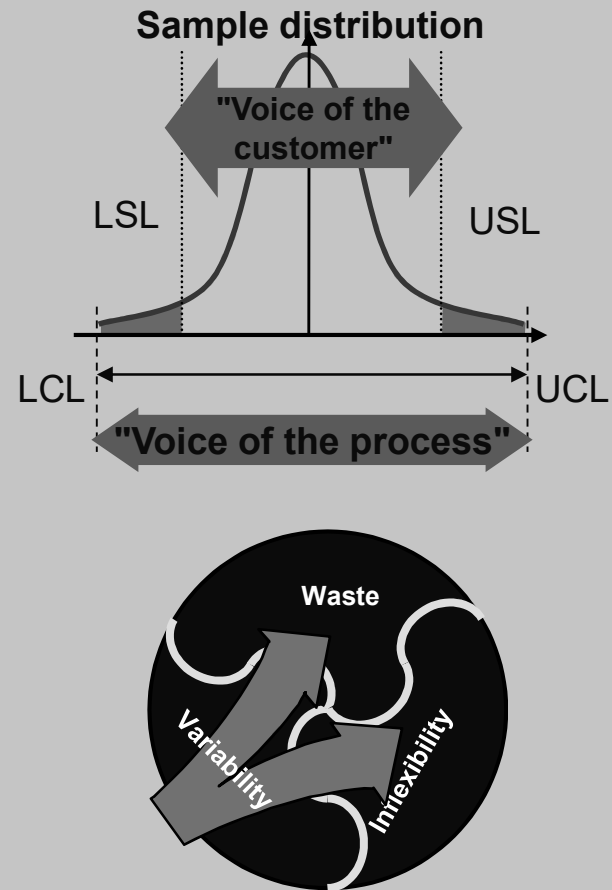
Nature of Project	Process Reengineering / Technology Change	Structured Process Improvements	Generic Improvements
Methodology Used*	<ul style="list-style-type: none"> • DMADV 	<ul style="list-style-type: none"> • DMAIC 	<ul style="list-style-type: none"> • Lean / Kaizen
Capability Building	<ul style="list-style-type: none"> • TRIZ • Six Sigma • Process Knowledge 	<ul style="list-style-type: none"> • Six Sigma • Lean • Structured Problem Solving Methodologies 	<ul style="list-style-type: none"> • Innovation • Creativity
Change Management	End to end	DBOI focussed	Localized teams
Project Management	<ul style="list-style-type: none"> • (15 - 20%) of effort • Requires higher level of project management • Completely customized to specific project 	<ul style="list-style-type: none"> • (5 - 10%) of effort • Project management handled by BB / MBB from Transformation team. GB / BB mentored on project management skills so that they are able to manage milestones, estimate sizing, use MS project, etc. • Some amount of customization (Multiple iterations like DMADMAIC, etc.) 	<ul style="list-style-type: none"> • No PM effort • Excel, Access based tool to capture benefits and communicate
Coverage	6 - 8 projects in a year	5 - 10% of employees	60 - 80% of employees

Lean and Six Sigma

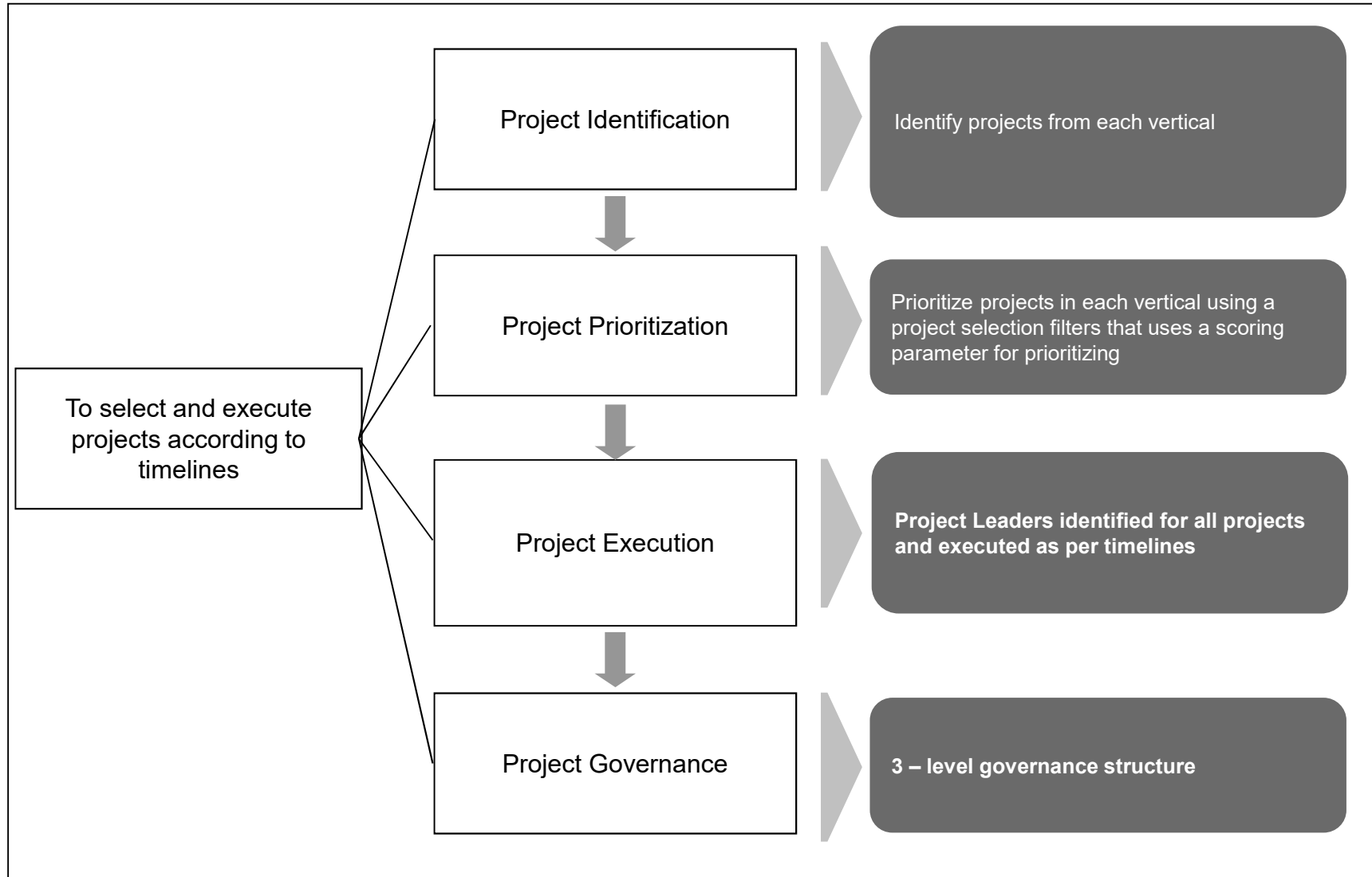
Typical primary Lean entry point: Reduce waste



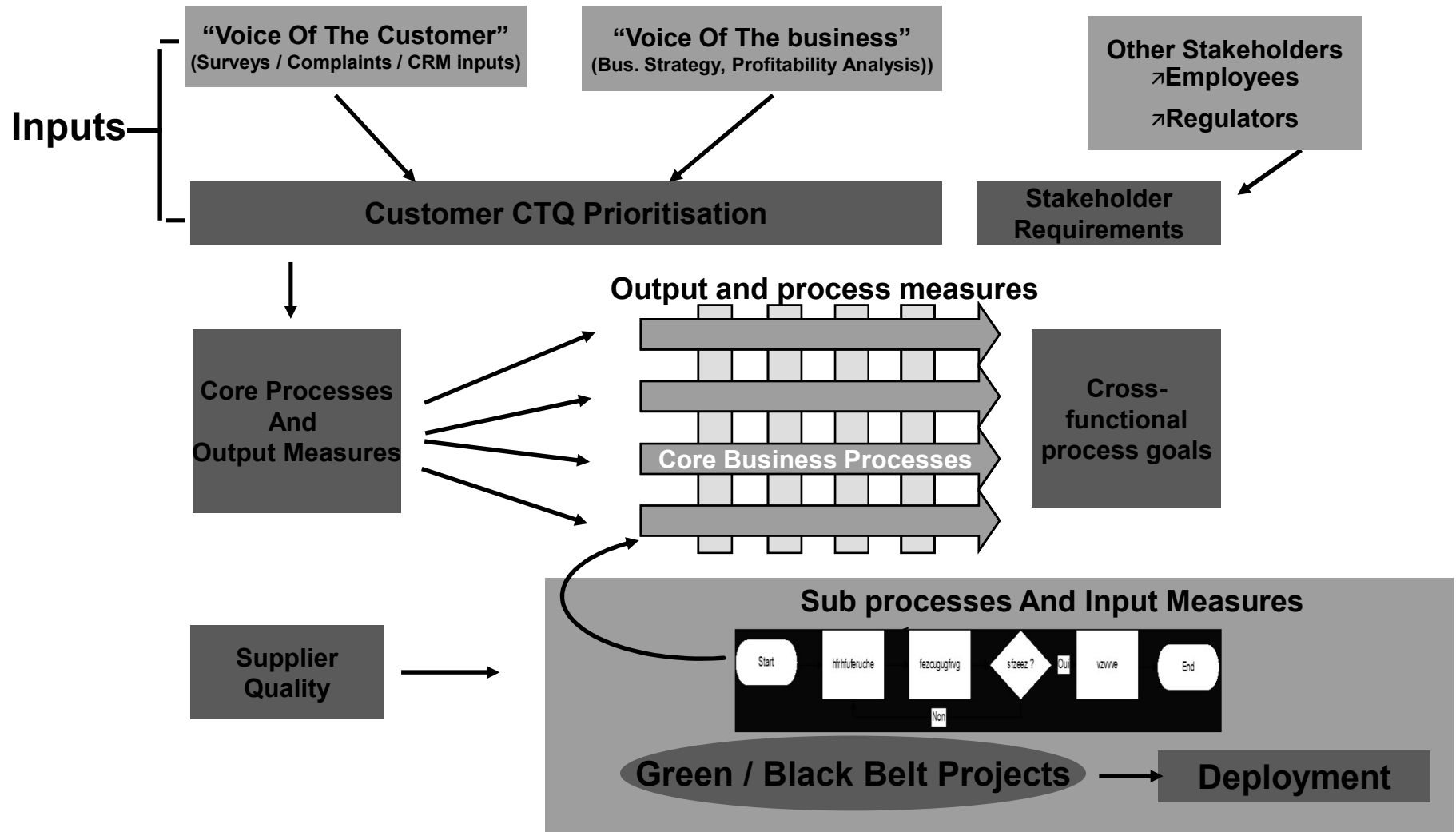
Typical primary Six-Sigma entry point: Reduce variability



Transformation Roadmap



Project Selection



Transformation Opportunity Document



Business Case	Type of Project
<p><i>Why is the project worth doing?</i></p> <p><i>Why is it important to do it now?</i></p> <p><i>What are the consequences of NOT doing the project?</i></p> <p><i>How does it fit with the business initiatives and target?</i></p> <p><i>What is the business impact of the project?</i></p> <p><i>What must the team deliver to be successful?</i></p> <p><i>Required deliverable dates</i></p>	<p>(Tick whatever is appropriate)</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Standardization</i> <input type="checkbox"/> <i>Value Addition</i> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Revenue Generation</i> <input type="checkbox"/> <i>Cost Reduction and avoidance</i> <input type="checkbox"/> <i>Customer Satisfaction</i> <input type="checkbox"/> <i>Risk Mitigation</i> <input type="checkbox"/> <i>People Development</i> <p>Contact Person</p> <p><i>Sponsor/Reviewer – Who is the owner of the project/process from Business?</i></p> <p><i>SME – Who are the subject matter experts on the process?</i></p>
Scope	
<p><i>Which are the processes team will focus on?</i></p>	<p><i>What is off limits (in-scope / out-of-scope)?</i></p>

Calculate Sigma Value of Processes



Output Sigma ***Understanding the Capability of the process***

Double click on the spreadsheet and enter data in the the shaded cells.

Define the following

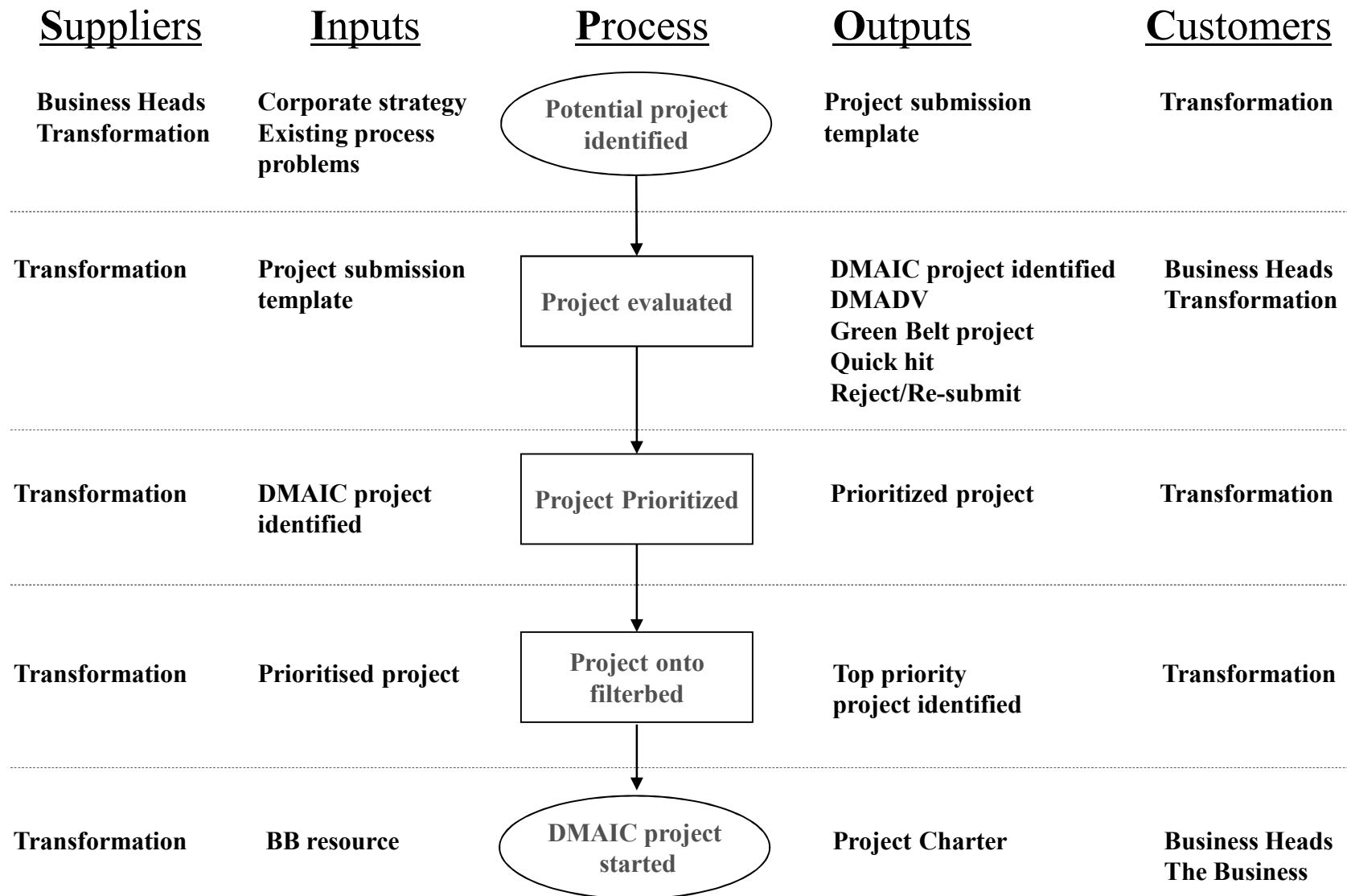
- CTQ:** Your CTQ
Target: Your customer required target
Defect: Describe here how you would identify a defect
Unit: How do you define a unit
Opportunity: What is the rationale behind the # of opportunities

DPMO

1 Number Of Units Processed	N=	100
2 Total Number Of Defects Made (Include Defects Made And Later Fixed)	D=	30
3 Number Of Defect Opportunities Per Unit	O=	1
4 Solve For Defects Per Million Opportunities		300000
5 Sigma will calculate	Sigma=	2.02

You may need to do more than one sheet (or consolidate in a table) to show other Baseline calculations or summary sigma. Explain any sampling as appropriate. Hint: Update your problem and goal statements. Did they change based on your findings?

Project Selection - SIPOC



Selection Process Overview



**DBOI OpCo
Performance Review Boards
Business Verticals
Six Sigma Black Belts**

- Ensure we're tackling the best projects for the Business
- Insufficient resource to tackle every issue
- Prioritization will occur to ensure we are working on the right projects for business impact

Potential Projects

Categorise by Business Area

Quick hit

Light re-engineering

Heavy re-engineering

Executive responsible engaged

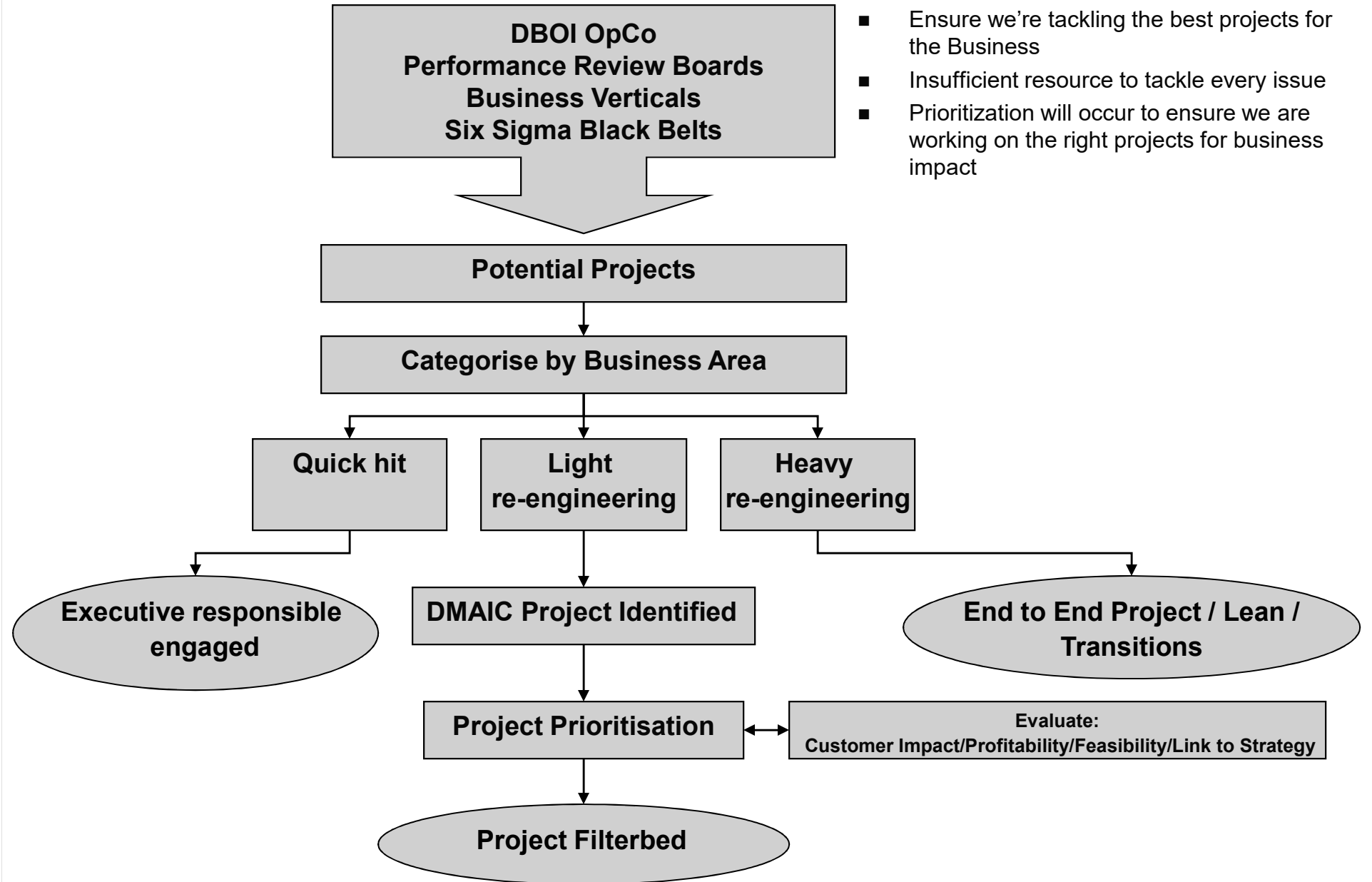
DMAIC Project Identified

End to End Project / Lean / Transitions

Project Prioritisation

**Evaluate:
Customer Impact/Profitability/Feasibility/Link to Strategy**

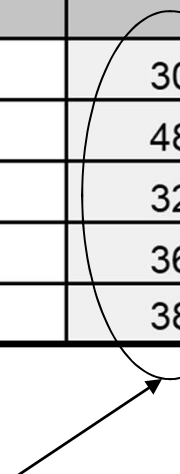
Project Filterbed



Project Prioritization Matrix



Criteria	Return On Investment	Contribution to Strategic Business Objectives	Addresses Voice of the Customer	Change Management Effort	Overall Rating
Weighting	4	3	2	1	
Scoring Guidelines	> 50% = 5 50% – 20% = 3 < 20% = 1	High = 5 Medium = 3 Low = 1	Yes = 5 Some = 3 No = 1	Easy = 5 Moderate = 3 Hard = 1	
Project 1	3	5	1	1	30
Project 2	5	5	5	3	48
Project 3	5	1	3	3	32
Project 4	5	3	1	5	36
Project 5	3	5	5	1	38



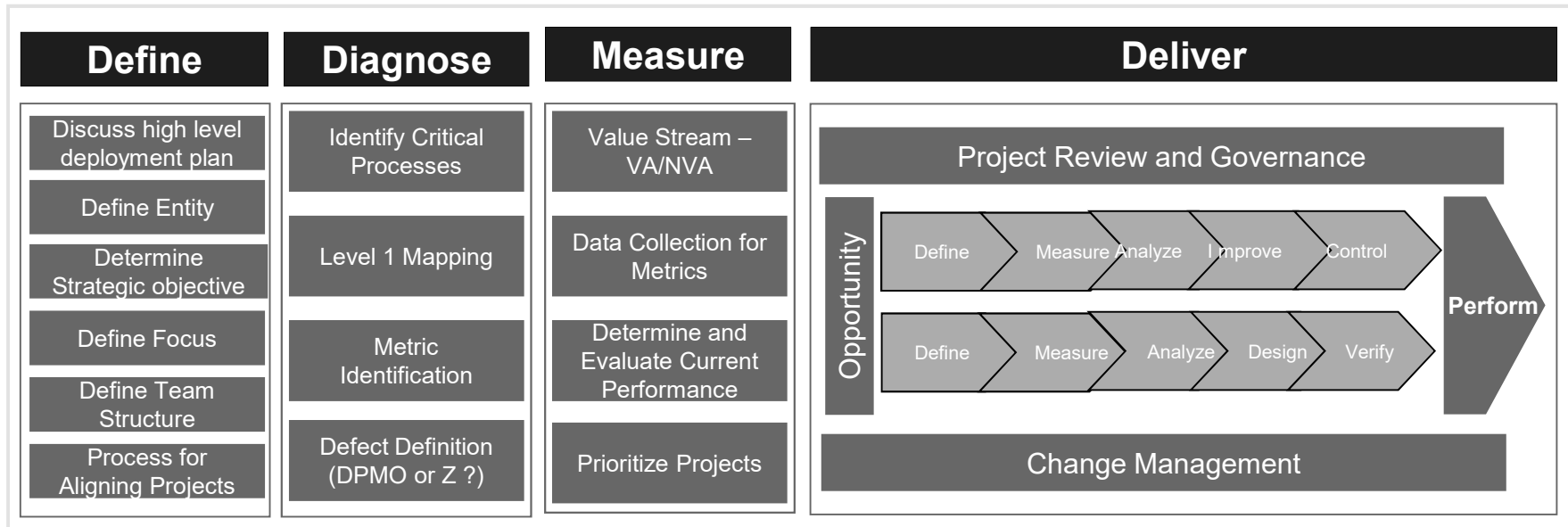
Projects with highest scores addressed on a priority

$$O = C \times F$$

O : Opportunity
C : Condition
F : Favorability

Approach

From Myth to Facts... Using the best of Six Sigma, Lean and Market Best Practices



DMAIC Overview

A Robust, Scalable and Fact Based Approach

Key Outcomes and Levers



Y *outputs*

=

f ($X_{process}$, X_{inputs})

Return on investment (\$ ROI)

Improved operational performance

(e.g. capacity, productivity)

Enhanced client experience

(e.g. satisfaction)

Increased process transparency

(e.g. performance metrics)

Resources

- Engaged process owners / champions
- Fully committed project leaders
- Sufficient access to process experts & technical advice
- Developing process excellence skills across the organisation

Project management

- Clear alignment to desired strategic outcomes
- Establish early project wins to gain momentum
- Focus on improving operational performance to subsequently achieve financial or client experience outcomes

Decision making

- Data driven decisions & problem solving
- Ready access to empowered leadership
- Stakeholder 'buy-in' regarding key process decisions

Accountability

- Verifiable operational & financial results
- Clearly communicated project timelines
- Champions & process owners accountable for process improvement outcomes
- Measured sustainability of change

Example of 3 Years Plan : 2008 - 2010

	2008	2009	2010
	Gen I – Initiate Continuous Improvement Culture	Gen II – End to End Process Improvements	Gen III – Organizational Excellence
Vision	<ul style="list-style-type: none"> ■ Establish process framework for critical processes ■ Seed the process improvement culture within Riyadh Bank. ■ Lean Six Sigma as a basis for quick wins 	<ul style="list-style-type: none"> ■ Six Sigma culture to be spread across all branches ■ Big cross functional projects leading to substantial positive impact on the profits of the bank 	<ul style="list-style-type: none"> ■ Weaving innovation and re-engineering yielding breakthrough improvements ■ Lean Six Sigma as a ‘way of doing business’ ■ All critical Processes exceeding customer and business expectations
Focus	<ul style="list-style-type: none"> ■ Lean Six Sigma Green Belt Training and awareness training (Yellow Belt) ■ Establish and measure key performance indices and initiate process mapping. ■ Project engagement with various divisions and Departments 	<ul style="list-style-type: none"> ■ End to end process mapping of critical processes in various business areas,. ■ Project selection based on <ul style="list-style-type: none"> • Performance of critical processes • Pain areas ■ Project focused training 	<ul style="list-style-type: none"> ■ Building resilience ■ Improvement projects driven by core process leaders ■ Designing the new processes using six sigma tools
Measures	<ul style="list-style-type: none"> ■ 30 fully trained Green Belts & 200 Yellow Belts ■ Deliver critical LSS infrastructure support in select product / process groups (e.g. Retail Banking, Consumer Finance, Operations etc.) ■ Benefits associated with initial six sigma improvement projects 	<ul style="list-style-type: none"> ■ SAR XX m annualized benefits achieved ■ Fully trained 15 Black Belts, 90 Green Belts and 1000 Yellow belts ■ KPI dashboards deployed across critical processes 	<ul style="list-style-type: none"> ■ SAR XX m annualized benefits achieved ■ Breakthrough results from end to end process analysis leading to breakthrough improvement. ■ Completely redesigning the processes to achieve maximum utilization of resources and facilities. ■ Performance dashboards deployed across 100% of core transaction processes ■ Every employee trained as Yellow Belt

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Maintaining Momentum and Energy Levels



- Quick wins through process mapping and automation
- Companywide involvement
- Efficient project governance and reviews
- Project duration under control
- Roadmap created for at least next 3 years
- Efficient training programs and enthusiastic trainers
- Certifications and importance attached to them
- Six Sigma and Best Practices Forum as periodic events
- Publicizing Success
- Updating Senior Management on the results of efficiency programs
- Ensuring that adequate resources are available
- Measuring Benefits
- Statistical applications to process improvement programs

Quick Wins through Process Mapping



Start with all critical processes

Why only Critical Processes ?

Based on empirical experience, it is expected that 20 – 30 % of processes will contribute towards bulk of business value. We should focus on these processes.

How do we know, if a process is critical ?

This should be a joint decision driven by the Process Owners, Six Sigma Transformation Team and Business representatives.

Processes identified will be evaluated against its impact on customer value and business value for that business division.

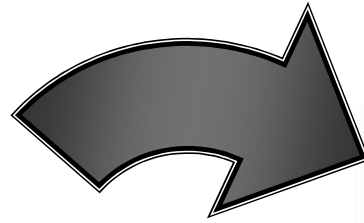
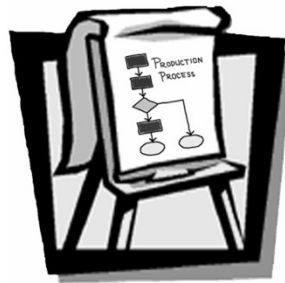
Outsourced processes to 3rd parties.

Review SLAs, identify critical processes and determine process capabilities using SLA metrics/ updated CT tree.

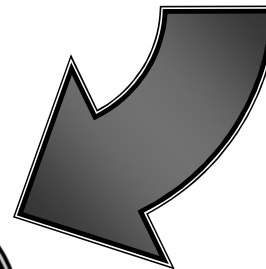
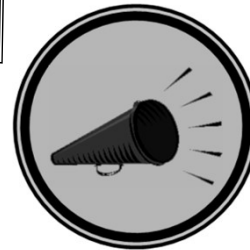
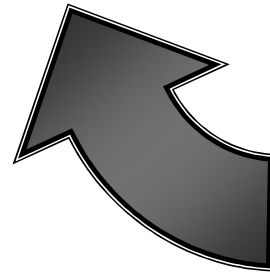
Process Mapping



VISUALIZE



ANALYZE



COMMUNICATE

Process Mapping – Shared Services Context

Efficient Process Mapping means:

- All Processes mapped on system
- Linkage shown between similar :
 - Process steps
 - Roles
 - Activities
 - Resources
 - Applications
 - Skill levels
 - Information consumption
- Linkages amongst resources, applications and activities
- Trend analysis of the operating parameters
- KPIs mapped with processes
- Simulation of processes for optimization
- Linkages of the processes to the objectives
- All the above published on web for global accessibility

$$U = (T - K) / T$$

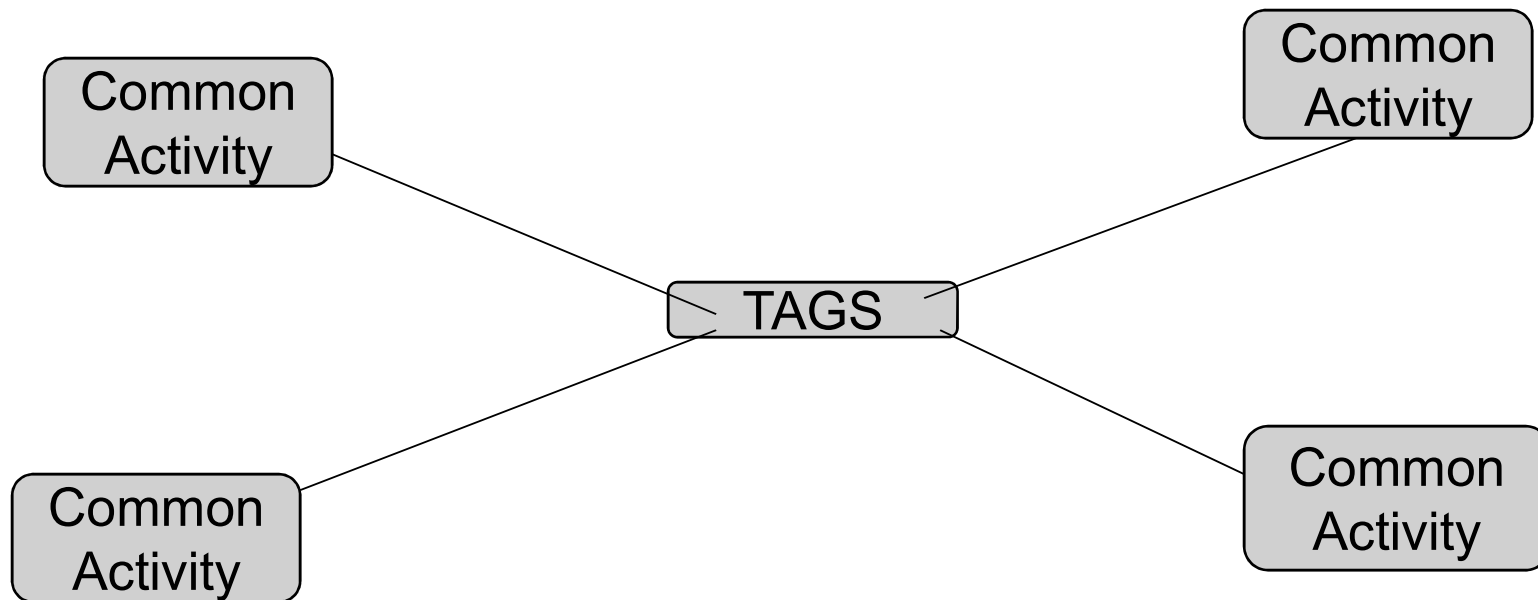
U : Uncertainty

T : Total

K : Known

Approach for Spotting : TAGGING

- A Common Tag which is placed to all the similar Processes.
- The Tag name is kept in a layer of abstraction or based on a common thread of the process definition.
- Each activity definition has a property called TAG where there is a facility to link the activity to one or Multiple TAGS.



Spotting

SA System Architect - Local Server INDTAACLOGICSA(BD)

Model Object - BPMN Process - Submit folder for approval

Name: Submit folder for approval

Analysis | Execution | Sim Definition | Sim Process | Activity Based Costing (ABC) | DB | Spotting | Referenc

TAG ID: []

TAG

- "Submit folder for approval" [Add]
- "Submit folder for approval" [Modify]
- [Remove]

[Define] [Check] [Choices...]

OK Cancel Spell Delete Apply

Numeric Len: 4

All Methods All View Operational View
System View Technology View DOORS

Process: Submit folder for approval

7.37", 5.62" 1.25" x 0.75" indtaac

10:33 AM

The screenshot displays the SA System Architect interface. On the left, a 'Model Object' window is open for the process 'Submit folder for approval'. It shows a list of tags with 'Submit folder for approval' selected. The main workspace shows a BPMN diagram for 'Full Call (Busin...)' with swimlanes for PIMS, CA Agent, and Supervisor. The process flow includes: 'Enter Full Call details' (PIMS) -> 'Save the Full call details' (PIMS) -> 'Access CA in PIMS' (CA Agent) -> 'Print the updated Call details' (CA Agent) -> 'Print Holdings, transaction entry details and MVR Test' (CA Agent) -> 'Submit folder for approval' (CA Agent) -> 'Check paper work for accuracy' (Supervisor) -> 'Post and correct?' (Decision) -> 'Approve the entry details' (Supervisor) -> 'End 1'.

Exploring the Interrelationships

KPI

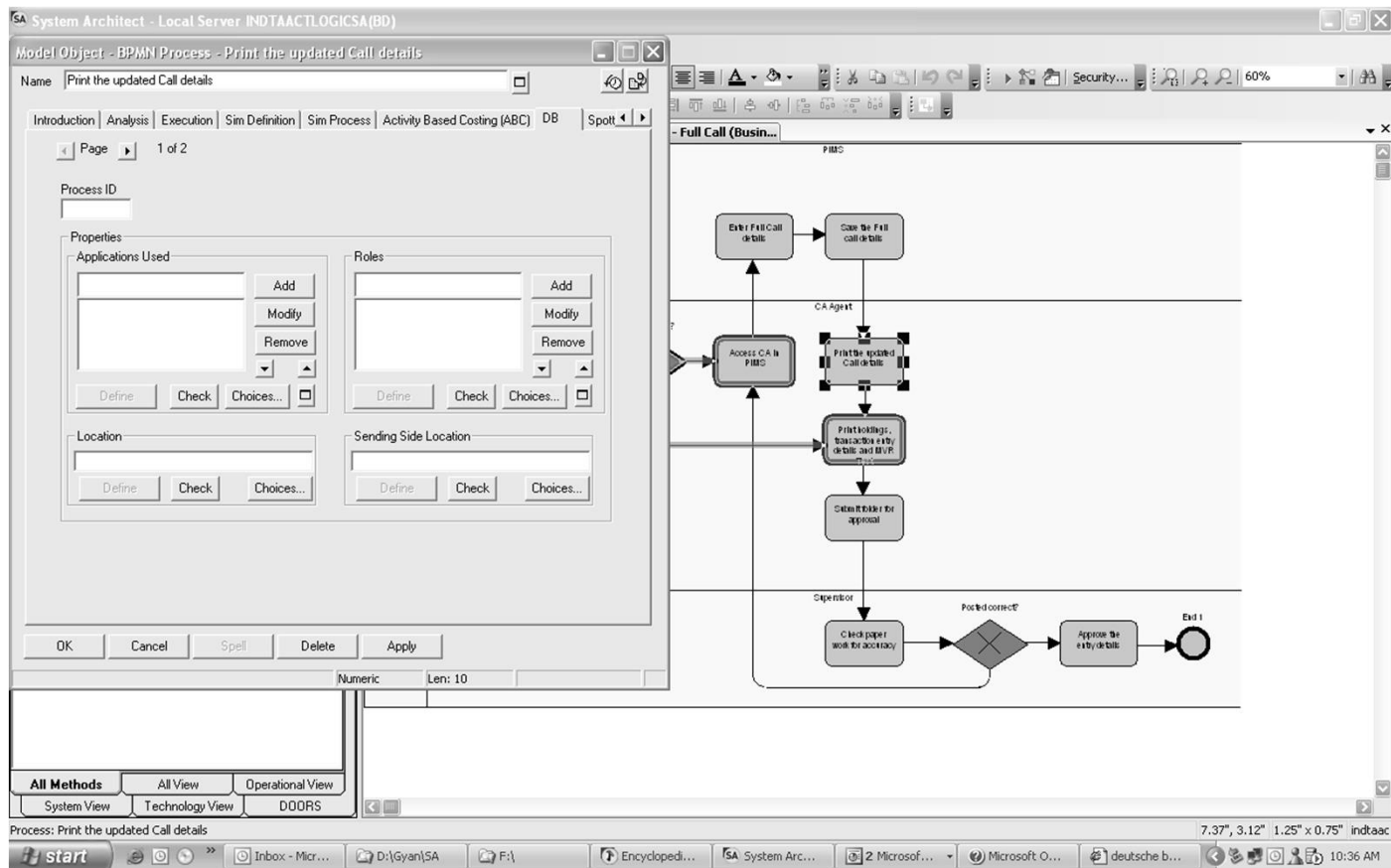
Common Applications used by all e.g. Bloomberg

Common data sources

Roles and skill levels

Policies

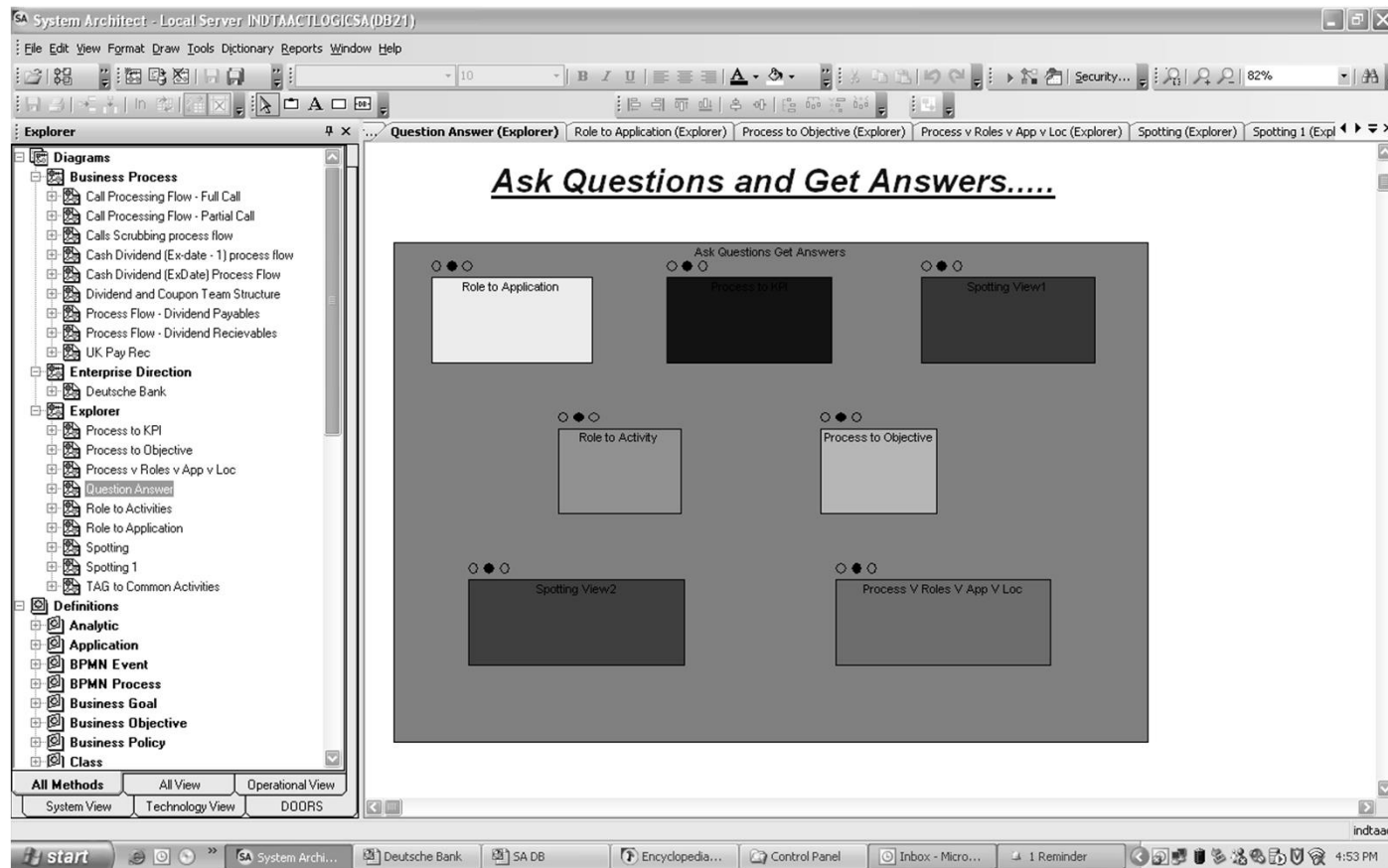
Organization and Process Objectives



Decision Support System

Common activity Identification
Activity to Application relation
Roles to Skill relationship
Org Goal to Process relationships etc.

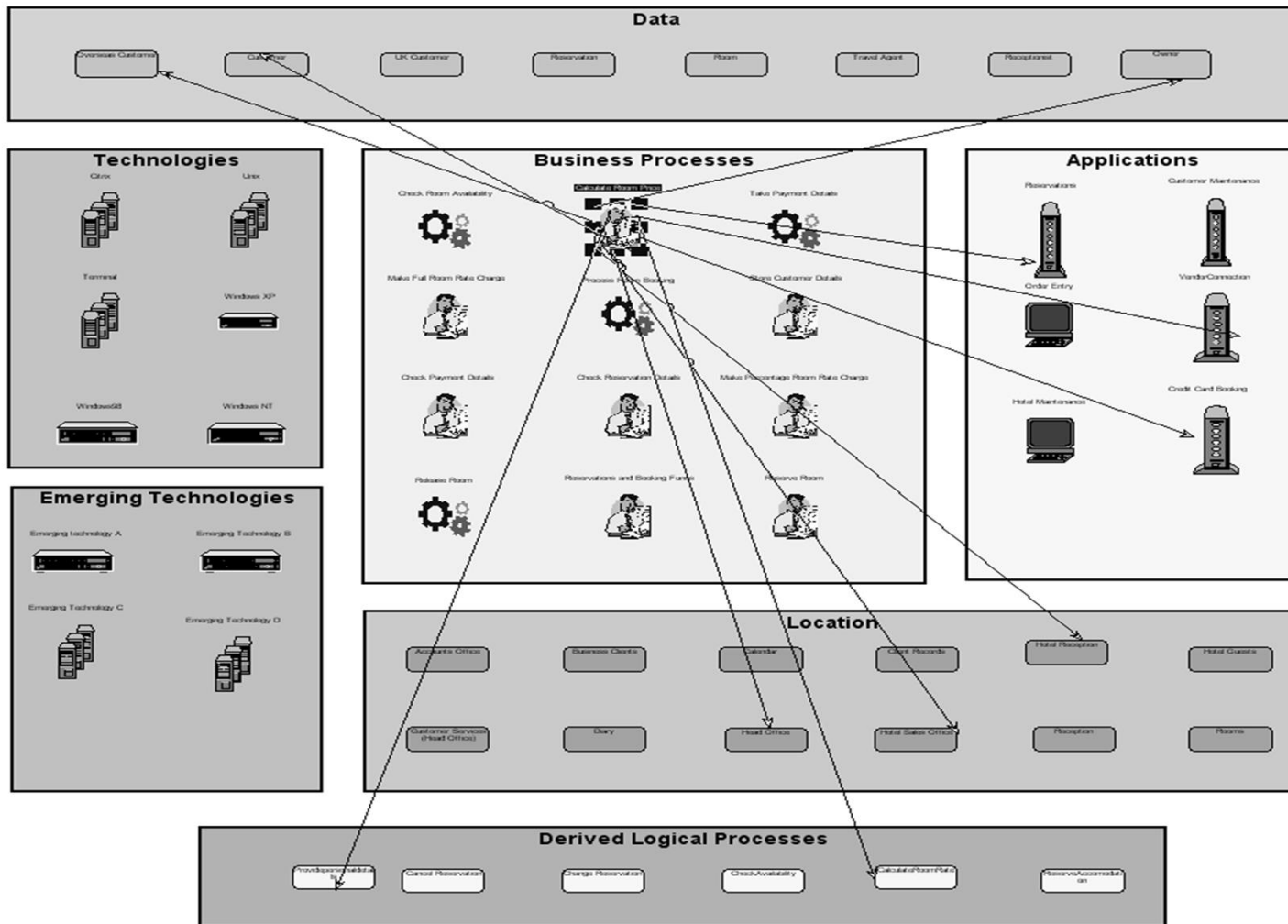
Process - Activity relationship
Role to Activity relationship
Process to KPI relationship



Analyzing Change to Processes

What Happens If....?

Discover the Impact of Change

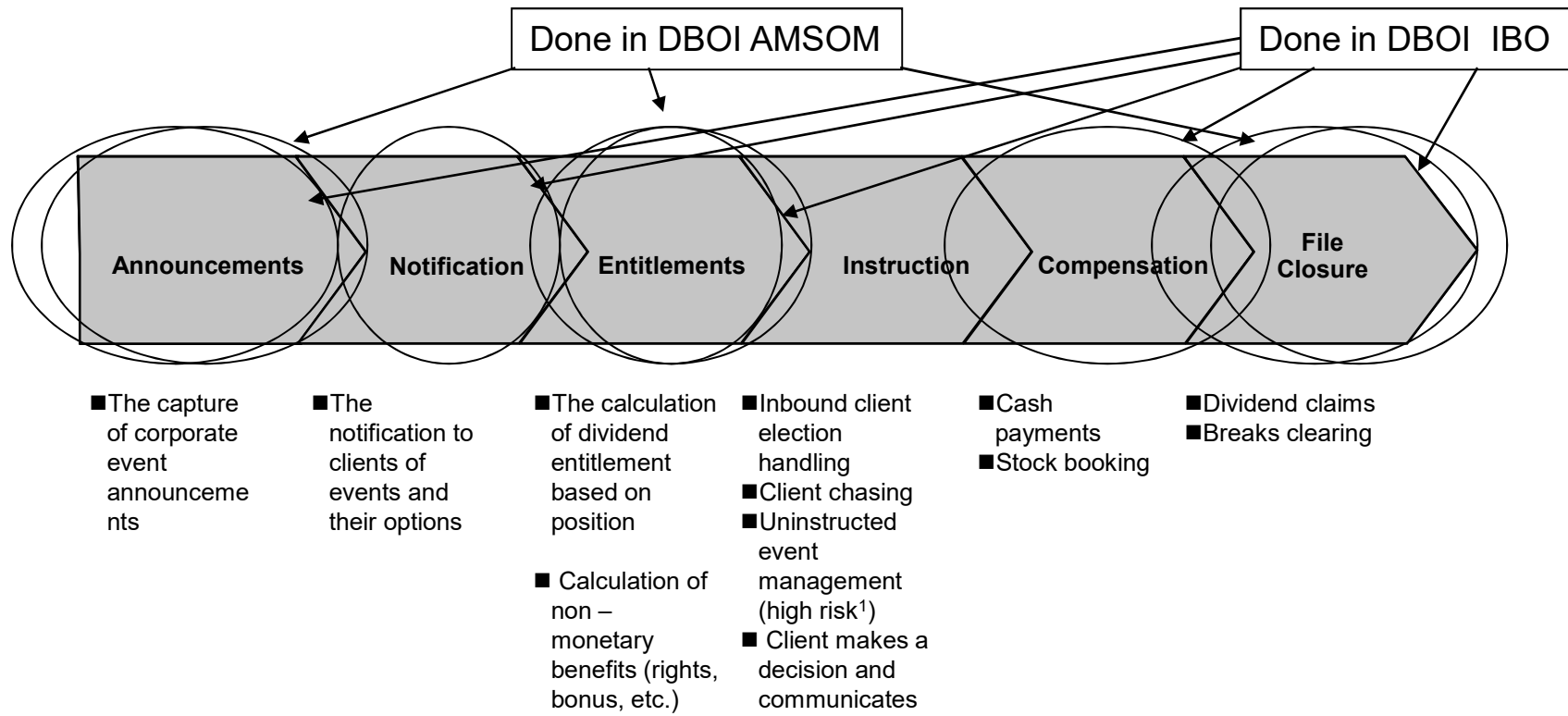


Process among different verticals

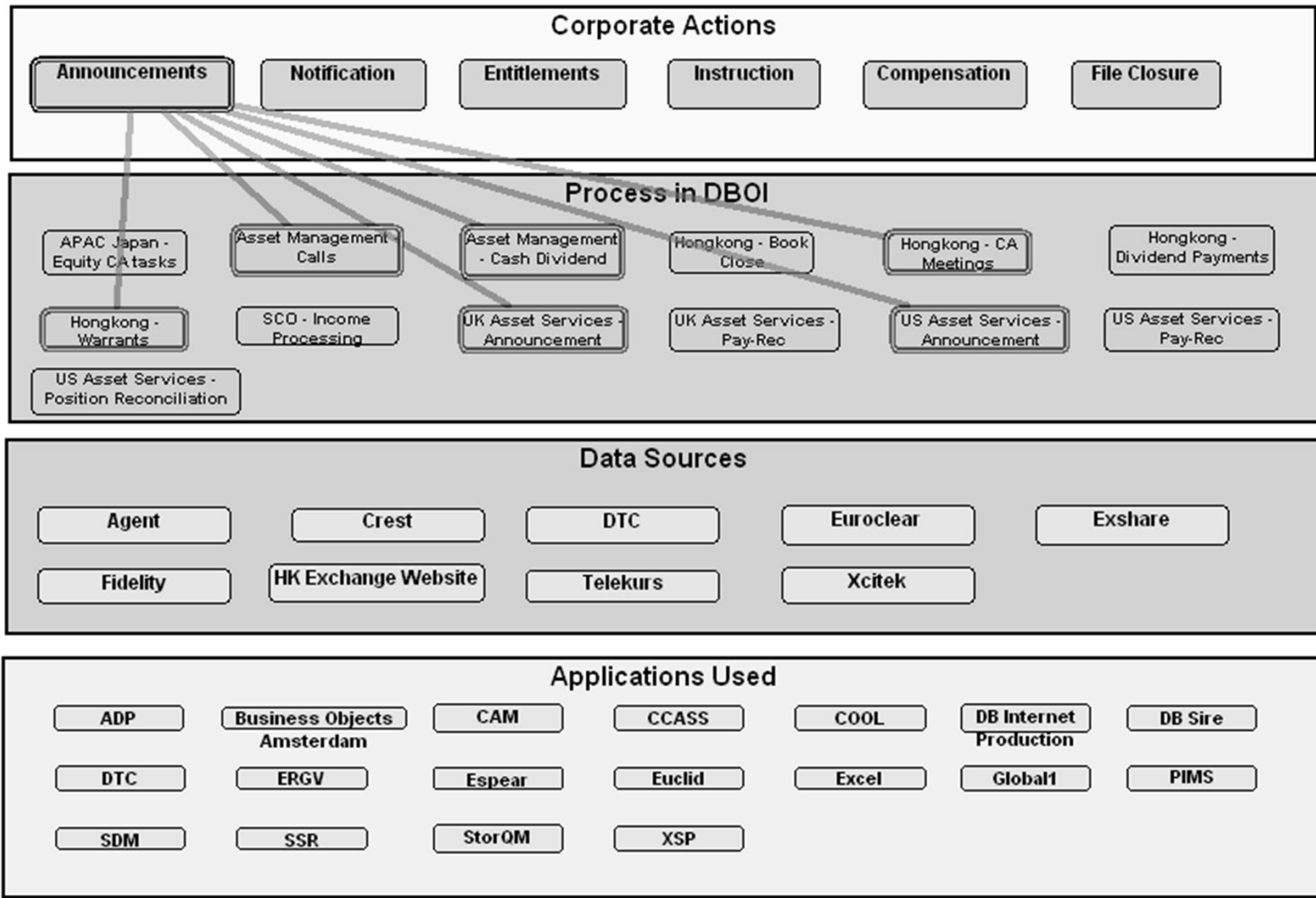
Asset Management	Capture Event Notification	Consolidate and scrub	Post to system	Reconciliation and resolution of breaks	
Securities Ops - Hong Kong	Download information	Email notification		Verify dividend details	Dividend advise sent
UK Asset Services	Capture Data	Scrub data	Enrich data	Pay / Receive dividends	
US Asset Services	Receive Information	Validate data	Pay / Receive dividends	Position Reconciliation	Resolution of breaks
SCO Income Processing	Determine Payment type	Reconcile for cash dividend	Queue for validation and payment		
Sec Ops - Japan	Receive dividend file	Verify dividend entries	Send dividend advice		

- Different terminologies across different functions for similar activities
- Spotting is difficult
- Need for a Standard process definition

Corporate Actions – End to End*



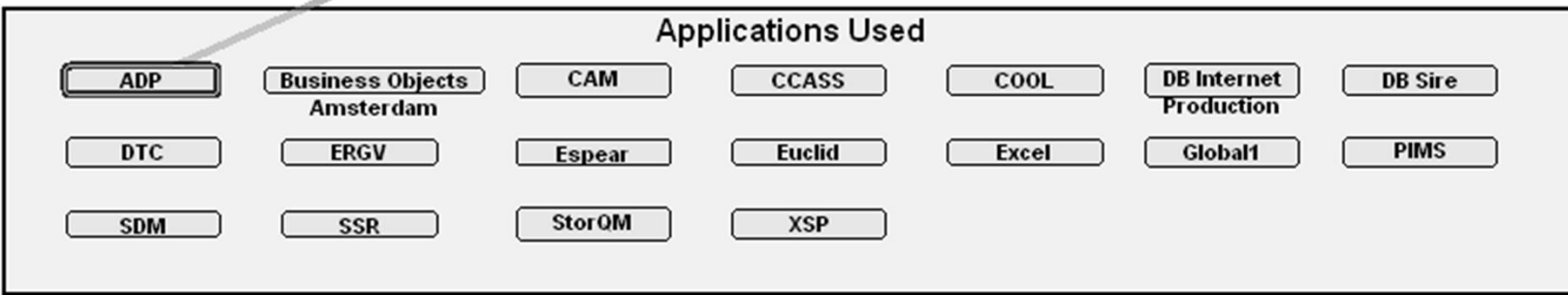
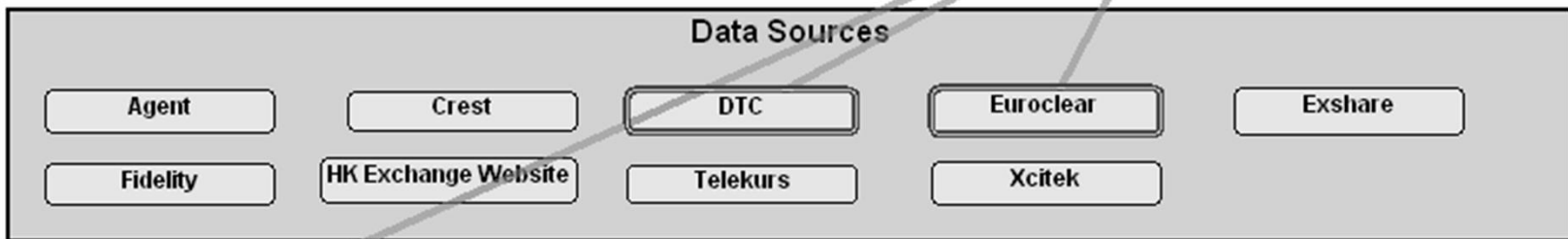
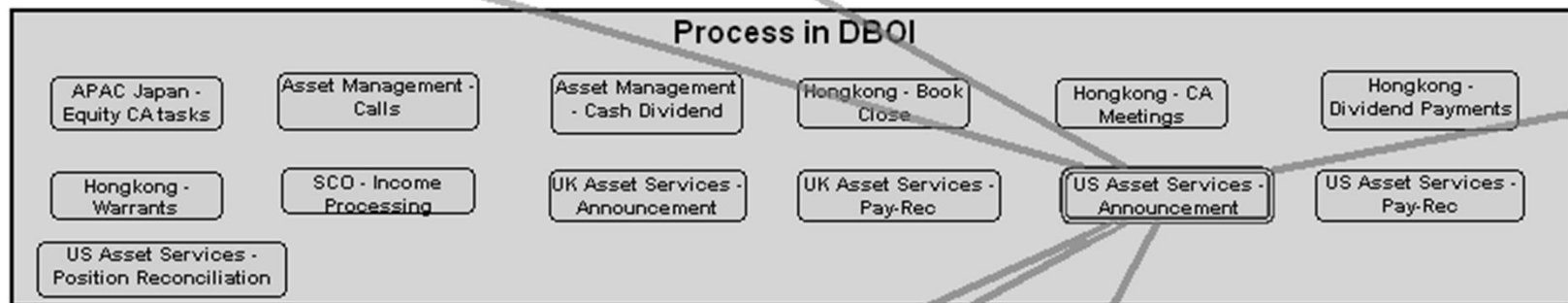
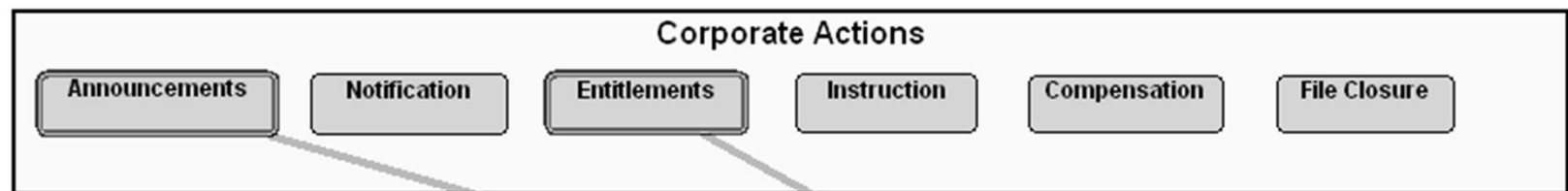
* From Asset Servicing Utility

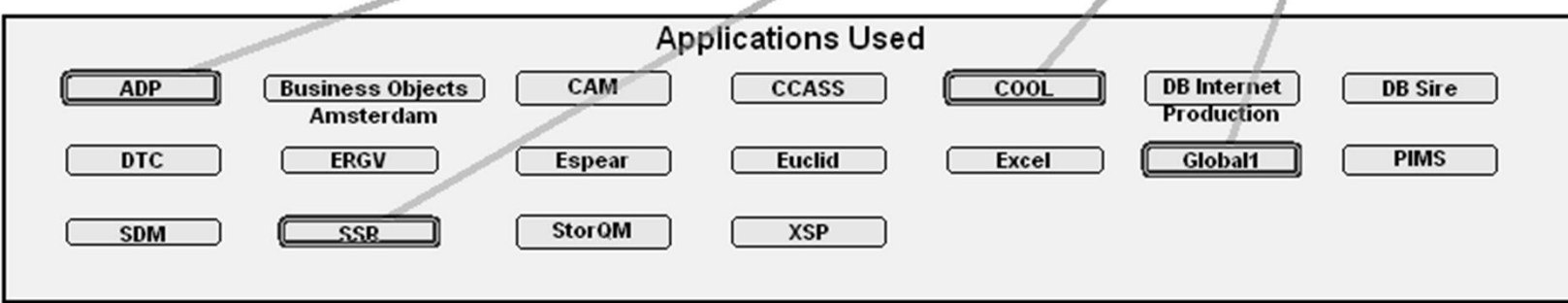
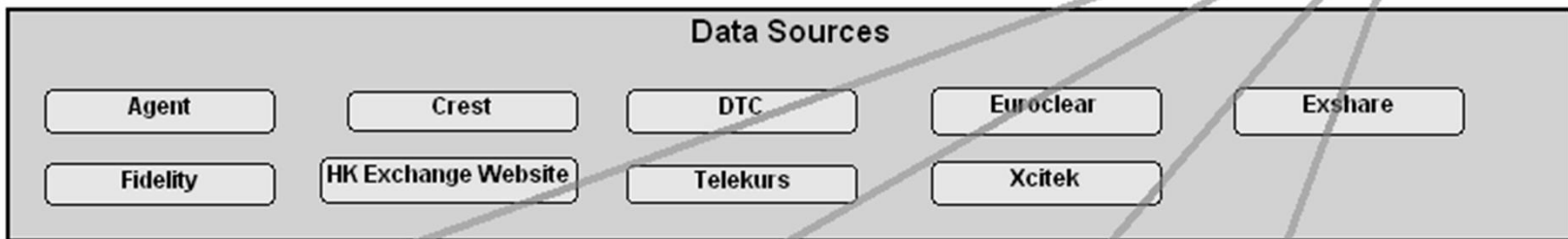
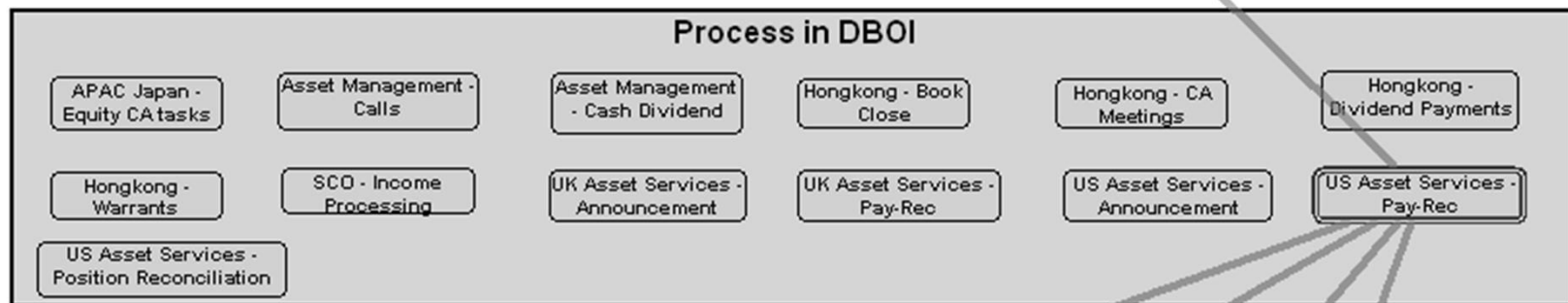


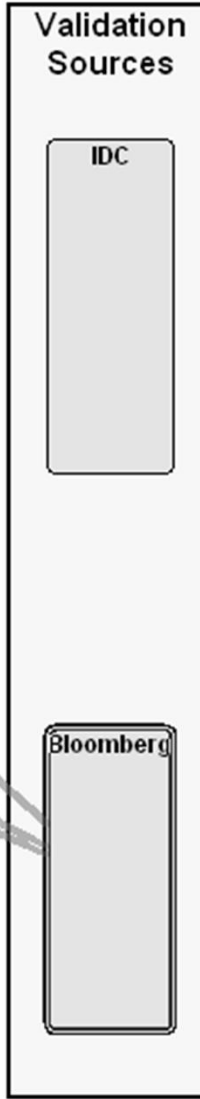
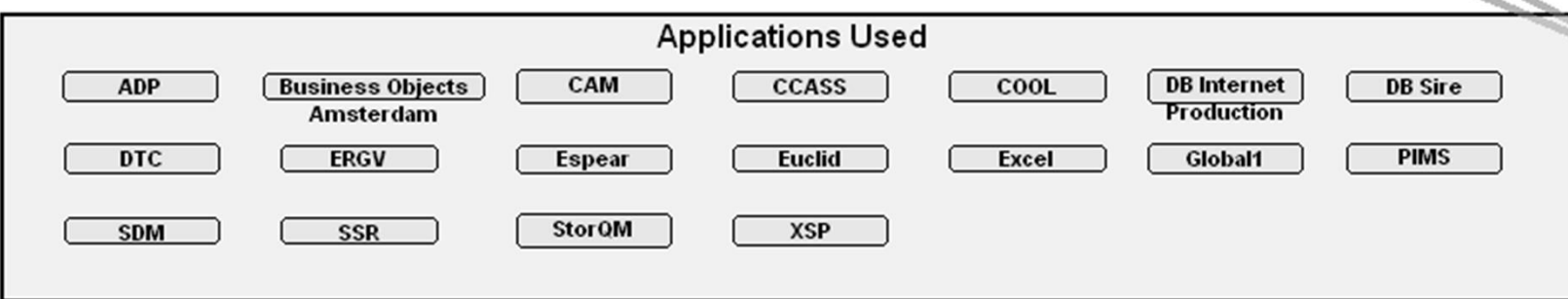
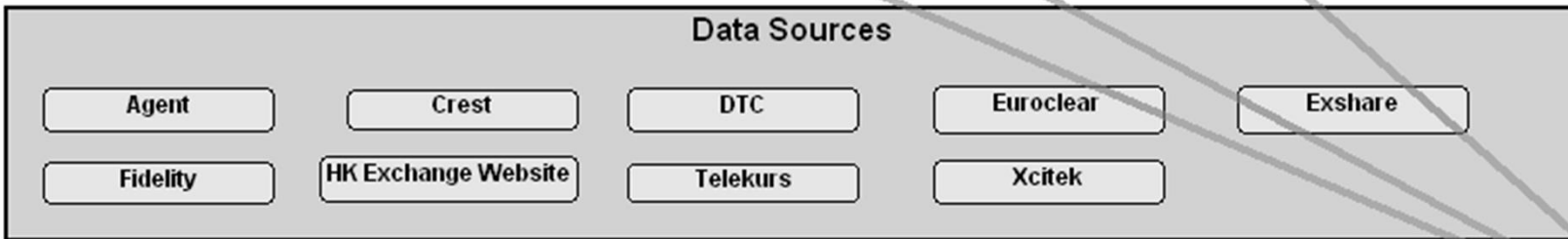
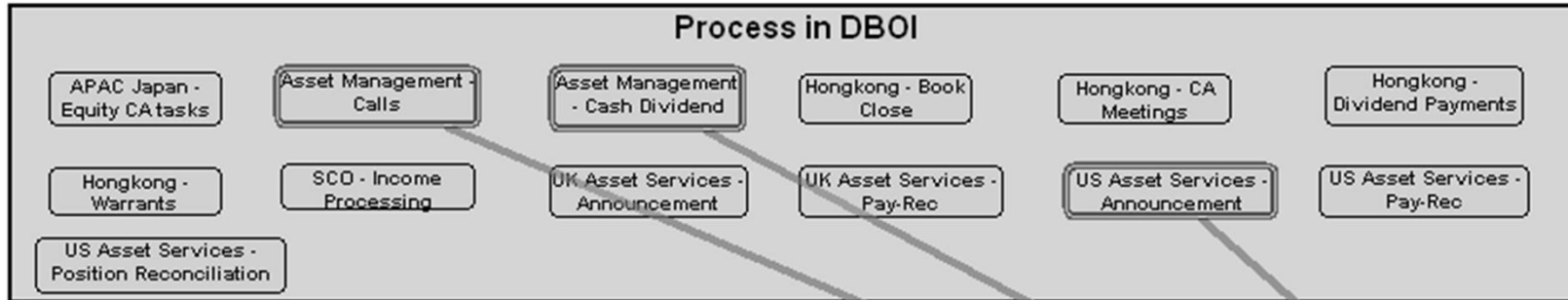
Validation Sources

Bloomberg

IDC





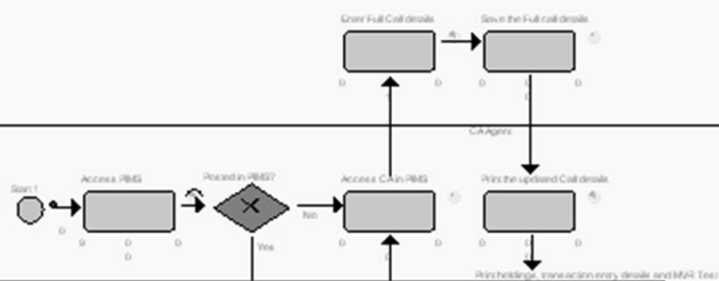


Select Drawing

del Assistants Both

- Simulation
- Type

AMSOM Call Process (40%)



Dashboard Summary

Summary Results for : All

Total Profit or Cost	USD	17287.08	
Profit / Cost Per entity		1016.89	
Throughput		17	
Average Resource Utilization %		50.17	
Service Level Achievement %		58.82	
Six Sigma Quality Rating		6.00	
Six Sigma Service Level Rating		1.72	
Queue Statistical Report			



Time

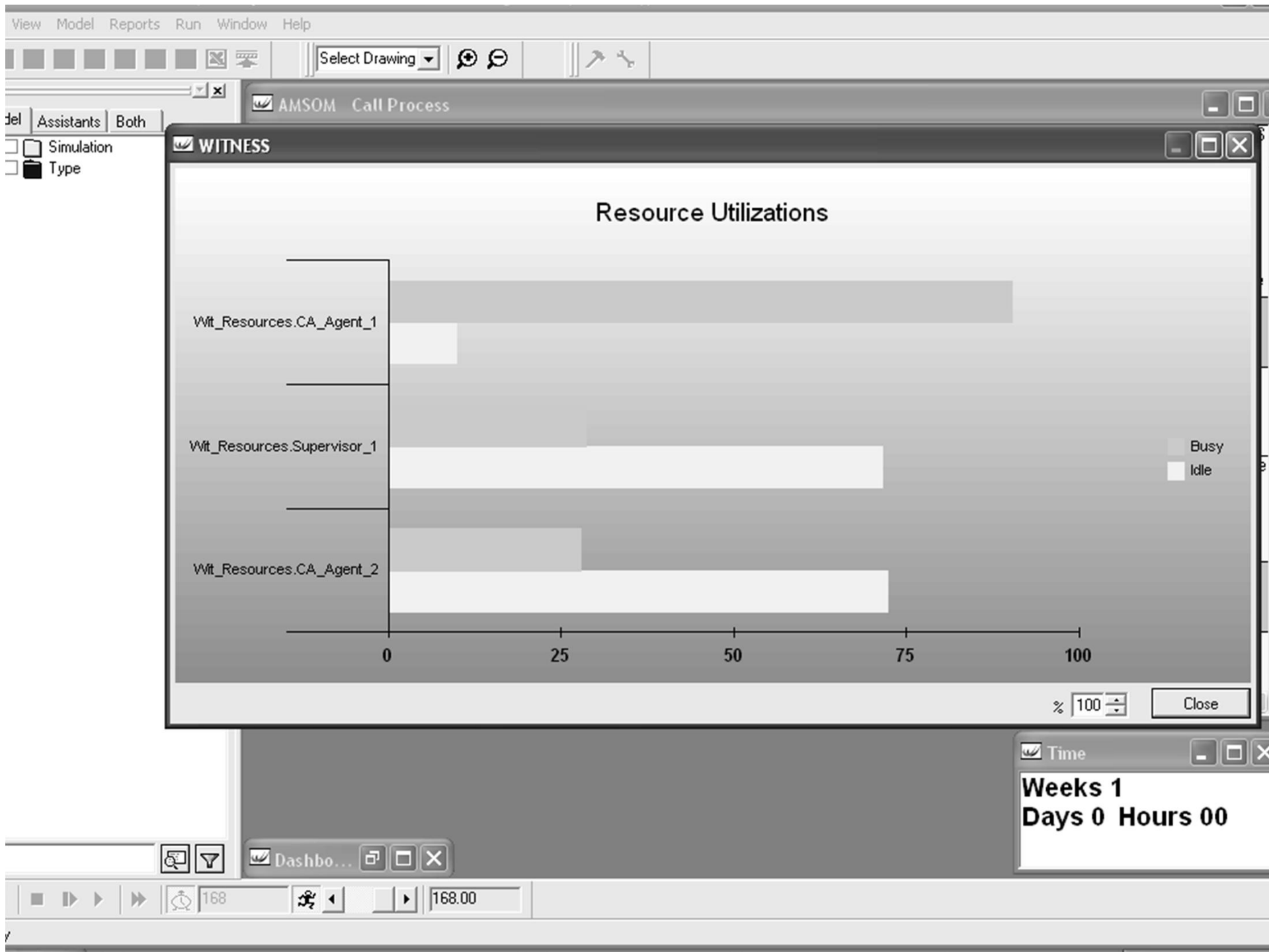
Weeks 0
Days 0 Hours 12



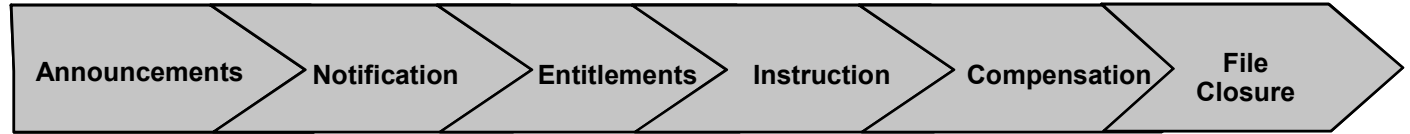
168




12.60




Processes in DBOI - Summary



	Announcements	Notification	Entitlements	Instruction	Compensation	File Closure
UK Asset Services						
Dividend Payments	Complete				Complete	Complete
APAC Japan						
Equity CA Tasks			Part			
US Asset Services						
Dividend Payments	Complete		Part		Complete	Complete
Hong Kong						
Warrants	Complete	Part				
Book Close		Complete				
CA meetings	Complete	Complete				
Dividend Payments			Part			
SCO						
Income Processing					Complete	Complete
Asset Management						
Cash Dividend	Complete		Part		Not Needed	Complete
Calls	Complete		Part		Not Needed	Complete

 Complete process being carried out

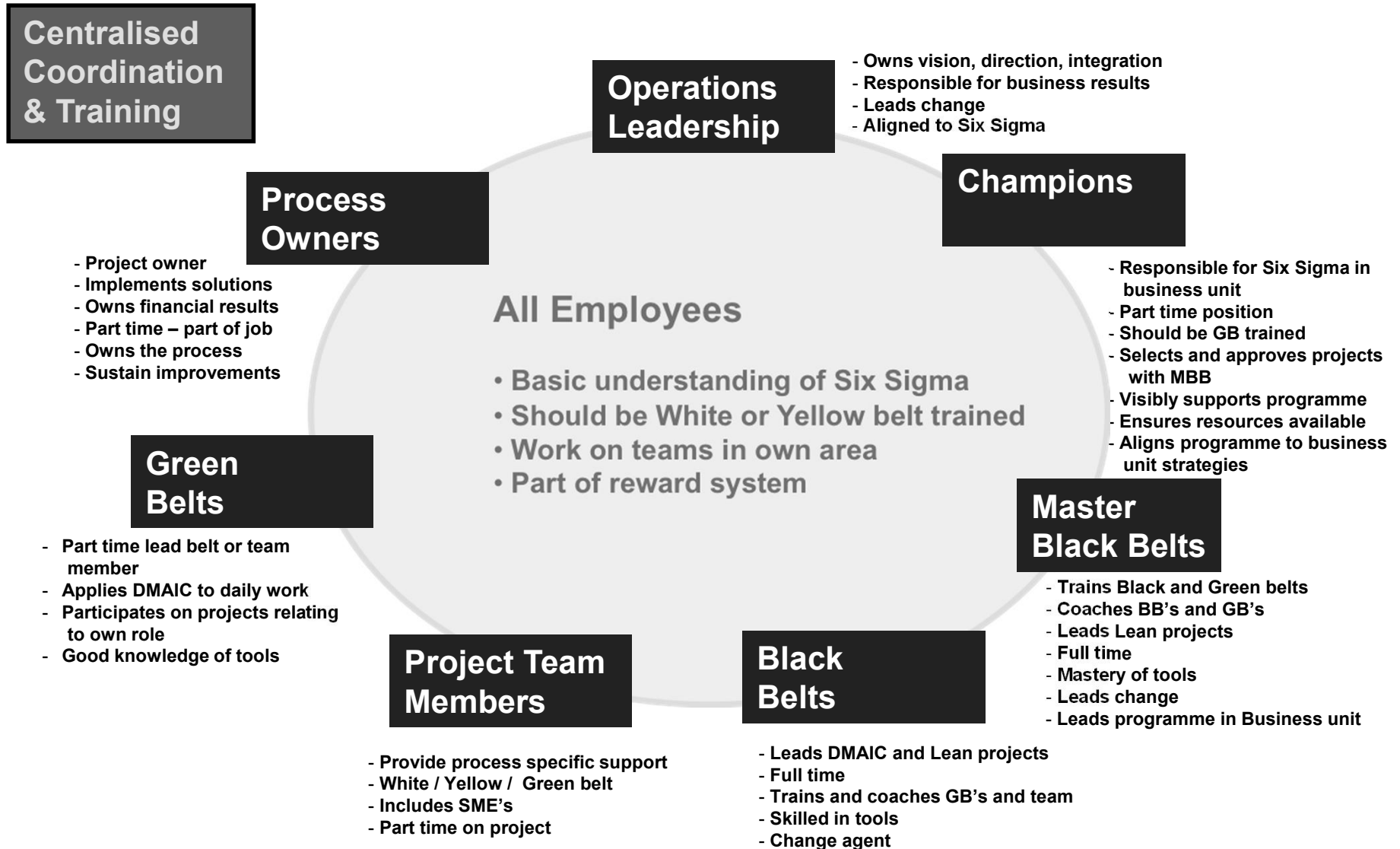
 A part of the process being carried out

Infrastructure Summary



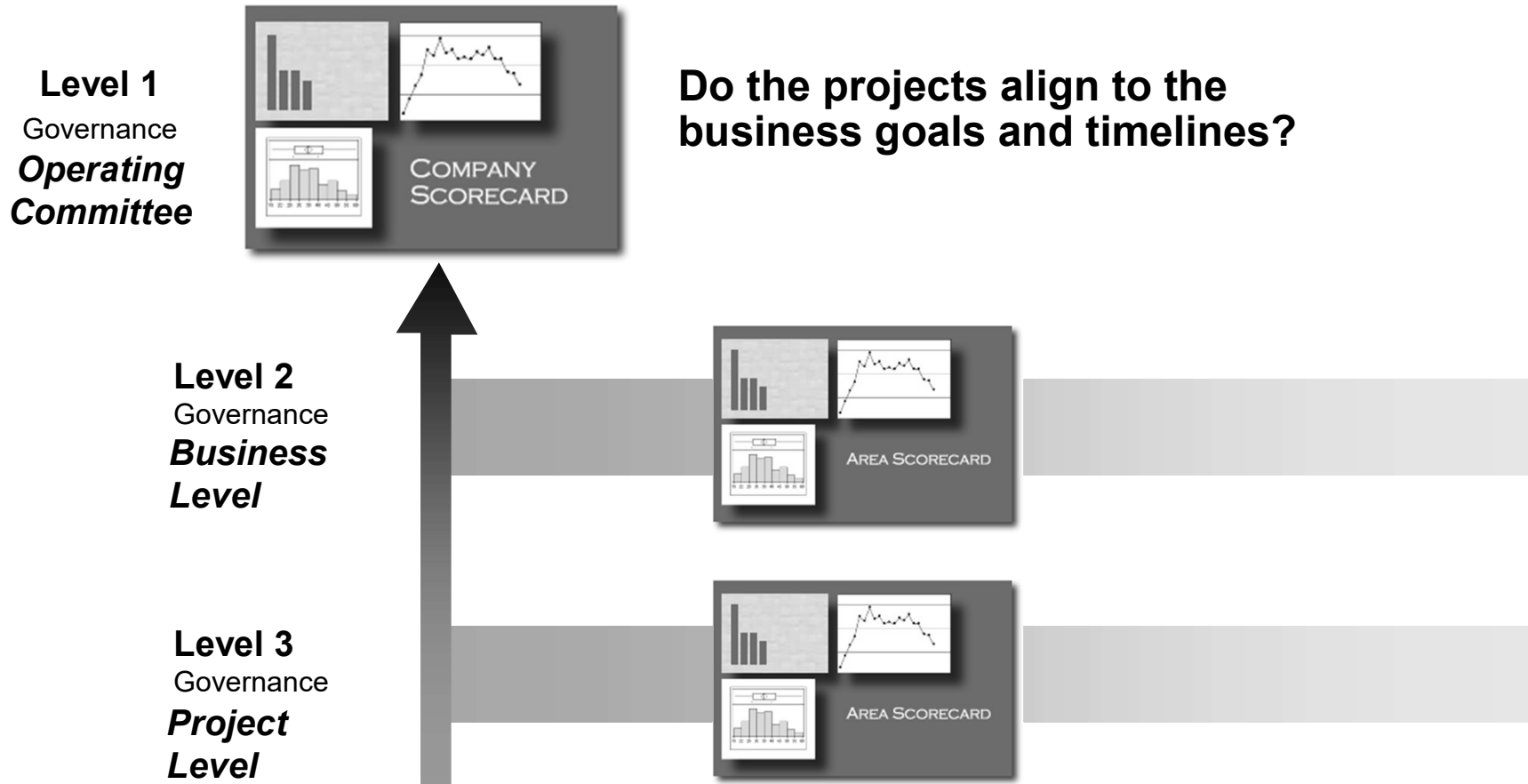
	Market Data Sources	Validation Sources	Applications
UK Asset Services			
Dividend Payments	Crest, Fidelity, Agent		SDM, CAM, E Spear
APAC Japan			
Equity CA Tasks	NA	NA	Excel
US Asset Services			
Dividend Payments	Euroclear, DTC	Bloomberg	ADP, DTC, Global1, SSR, COOL
Hong Kong			
Warrants	Hong Kong Exchange Website	Not Needed	E Spear, CCASS
Book Close	NA	NA	E Spear, CCASS
CA meetings	Hong Kong Exchange Website	Not Needed	E Spear, CCASS
Dividend Payments	NA	NA	Excel
SCO			
Income Processing	NA	NA	StorQM, ERGV, EUCLID, DB Sire, DB Internet Production, Business Objects Amsterdam
Asset Management			
Cash Dividend			
Calls	DTC, Exshare, Telekurs, Xcitek	Bloomberg, IDC	XSP, PIMS, SSR

Success needs company-wide involvement



Process Governance

3 – Level Governance Structure



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10 Lessons Learnt in Six Sigma Implementation

- 1. Project Duration**
- 2. Publicizing Success**
- 3. Role Definition**
- 4. Complexity of Six Sigma**
- 5. Resource Availability**
- 6. Measurement System Analysis**
- 7. Link with Strategic Objectives**
- 8. Middle Management Resistance**
- 9. Buy-in from Senior Management**
- 10. Validation of Savings**





Some projects take too long, scope of projects is too broad. Six Sigma has developed a reputation for taking too long, being too complex for the value it adds

$$M = O \times S$$

M : Measurement

O : Observation

S : Scale

- **Desire to do too much – solve all problems at once**
- **Some projects are “hijacked” and become vehicle for managers to pursue personal agenda**
- **Confusion over difference between improvement projects and process management**

Maintaining the energy levels

- **Focus on project charter – make sure it is always up to date and reflects reality**
- **Do not let new tasks to be included into the project unless they are fully reflected in the project mission, scope, timetable and financial effects**
- **Make sure any new tasks are related to the project and are explicitly approved by the Business Quality Council**
- **Check project presentations to make sure they focus just on the project**



It is observed that the success of an improvement program is not adequately publicized in organizations

$$U = (T - K) / T$$

U : Uncertainty

T : Total

K : Known

- Failure to identify and “package” the success of each individual project
- Too rarely do BBs stop and take stock of what they have accomplished
- When the workload increases, publicity seems like a “nice to have” when it is really a “must have”
- No full use of Communications/PR function

Maintaining the Momentum

- Monitor awareness of how the program is doing – use opinion surveys or conduct discussions with groups of employees.
- Pay attention to signals that people are unaware of what you are doing or have false understanding of what you are doing
- Publicize all successes – even small ones

Capture the Benefits

Projects should be evaluated for their impact before they are approved i.e. you are making a business decision on how to spend company resources, so you should understand the cost/benefit of the project

- Monetary** {
 - A – Impacts Income Statement or Cash Flow
 - B – Impacts the Balance Sheet (Working Capital)
- Non monetary** {
 - C – Avoid expense (or investment) due to known events that will occur in the future
 - D – Risk Management/Insurance projects which reduce/prevent severity of unpredictable events (also may include the ability to capitalize on a market opportunity)

***Measuring benefits objectively helps sustain the momentum .
Tangible benefits 'energize' the initiatives.***

Agenda

1

Transformation Roadmap

2

Maintaining Momentum and Energy Levels

3

Lessons Learnt

4

Statistical Applications in Efficiency Programs

5

Conclusion



Impact of Project Review

A survey was conducted with 5 participating shared services organizations to study the impact of time spent on reviews on the performance of improvement projects.

The data collected is displayed:

Review time per Week	PROJECT PERFORMANCE		
	Low	Medium	High
<u>HOURS</u>			
< 0.1	17	21	12
0.1 - 1	31	53	21
> 1	17	42	71

Chi-Square test conducted to test if review time is related to project performance.

Null Hypothesis : Project performance is independent of review time, i.e. not related to time spent on reviews

Alternate Hypothesis : Project performance is related to time spent on reviews

Project Review



Chi-Square Test: Low, Medium, High

Expected counts are printed below observed counts

	Low	Medium	High	Total
1	17 11.40	21 20.35	12 18.25	50
2	31 23.95	53 42.74	21 38.32	105
3	17 29.65	42 52.91	71 47.44	130
Total	65	116	104	285

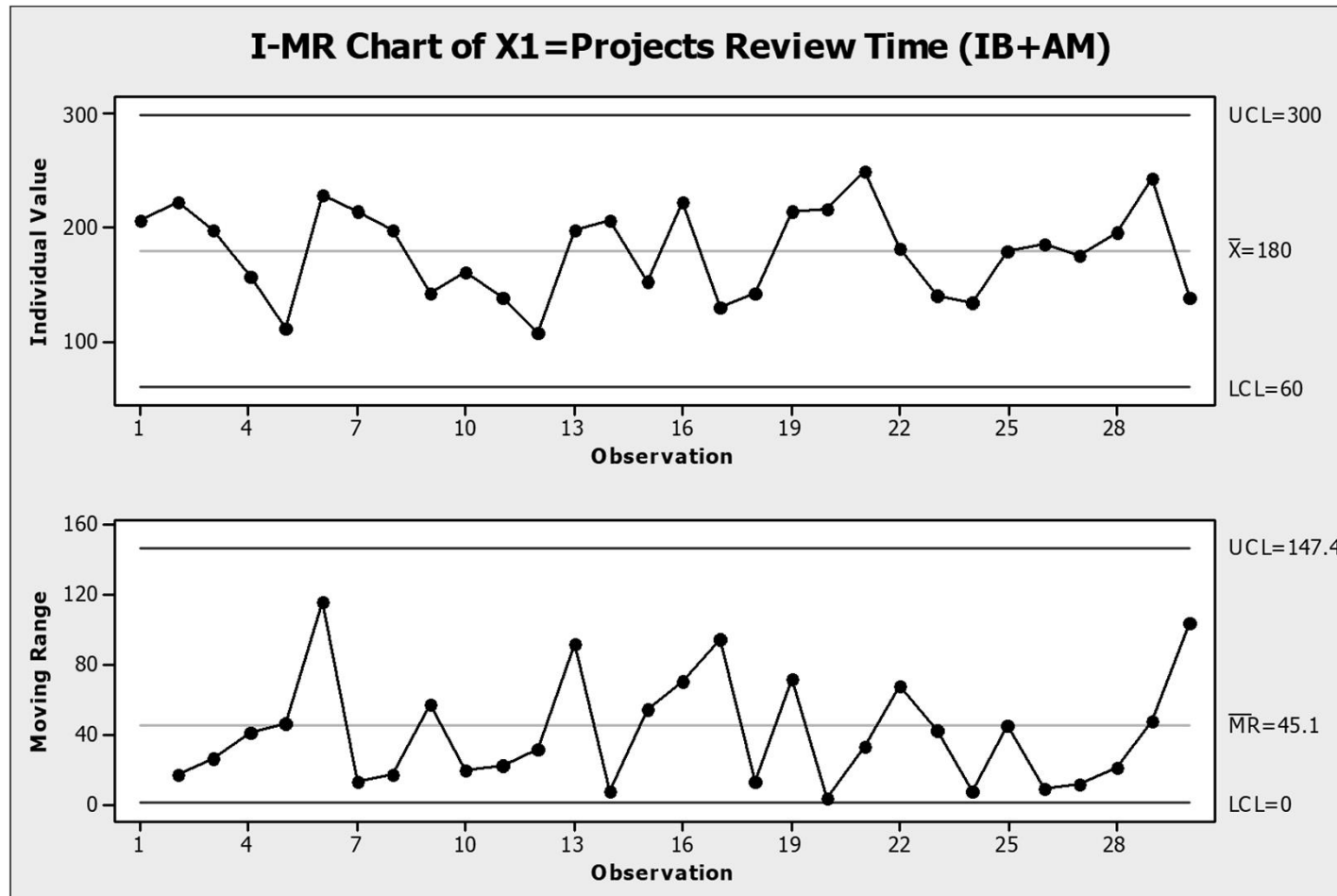
$$\text{Chi-Sq} = 2.747 + 0.021 + 2.138 + 2.077 + 2.465 + 7.825 + 5.396 + 2.250 + 11.702 = 36.622$$

$$\text{DF} = 4, \text{ P-Value} = 0.000$$

Interpretation:

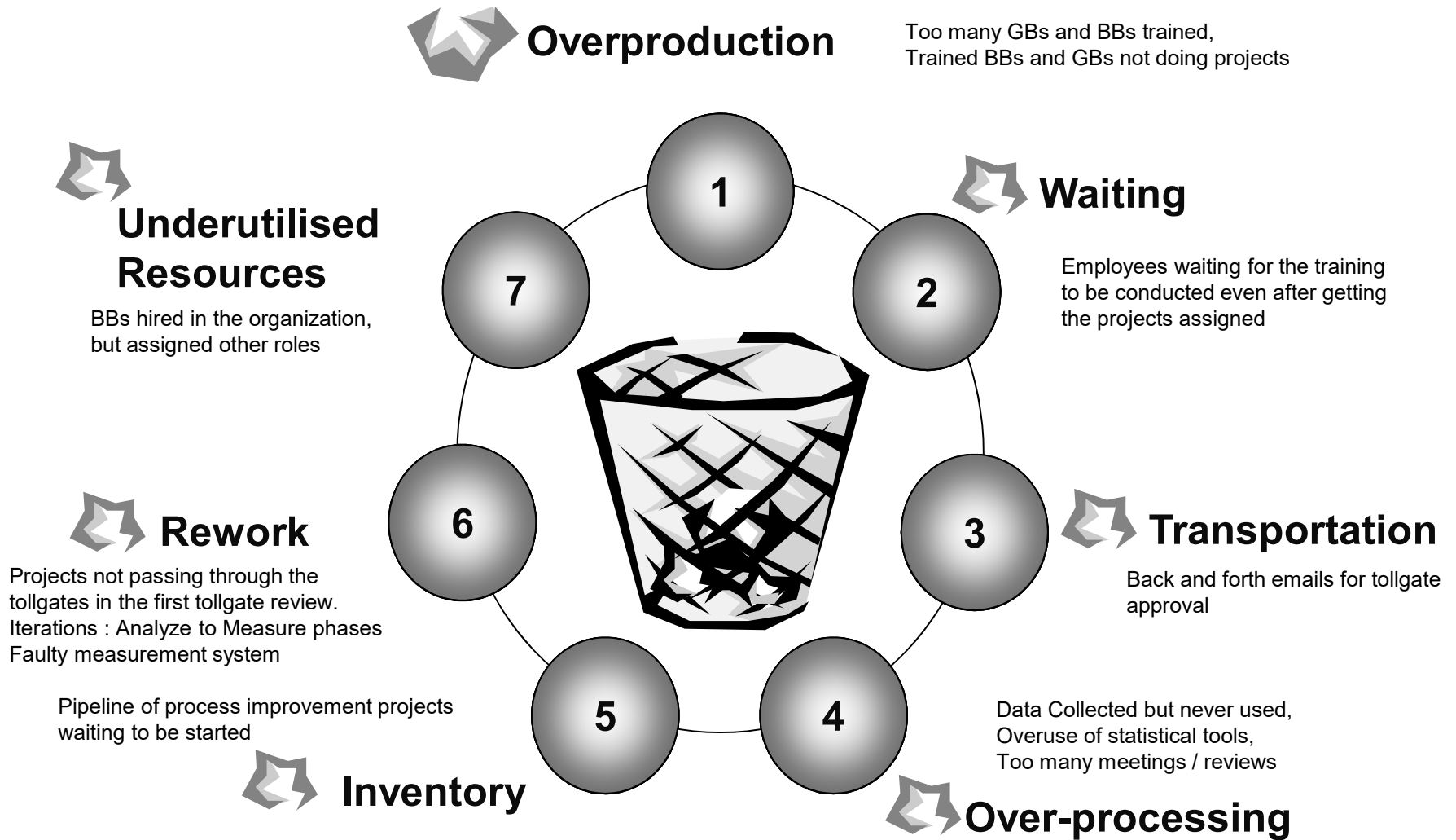
- p-value = 0.000
- p-value < α -risk (0.05): reject H_0
- Infer H_a : Sufficient evidence that process improvement project performance and and time spent on reviews are dependent

Control Charts for Review Time



- Minutes spent of project review in IB Ops and Asset Management Ops are collected on weekly basis
- The values are added to get number of minutes spent on review in DBOI
- These values are plotted on I-MR chart
- Special causes are investigated and acted upon
- Out of Control points are indicative of potential failure of improvement initiative

Muda – The Seven Wastes



Wastes can be identified in the Continuous Process Improvement Efforts

PNI and ROI Ratings

Regression Analysis: PNI versus ROI Rating

The regression equation is
 $PNI = -20555 + 35528 \text{ ROI Rating}$

Predictor	Coef	SE Coef	T	P
Constant	-20555	9627	-2.14	0.047
ROI Rating	35528	2903	12.24	0.000

S = 18358.6 R-Sq = 89.3% R-Sq(adj) = 88.7%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	50488130250	50488130250	149.80	0.000
Residual Error	18	6066657125	337036507		
Total	19	56554787375			

Unusual Observations

ROI
Obs Rating PNI Fit SE Fit Residual St Resid
10 5.00 201550 157083 7110 44468 2.63R

- Data for PNI and the ROI rating given before starting the projects collected for 2006 (Slide 38)
- Regression done to check if the project net income is related to the ROI ratings given initially
- High R-Sq indicates that the two values are related
- The equation used to predict the estimated PNI for 2007 projects in the pipeline
- New guideline is proposed to give rating based on the estimated PNI instead of ROI
- Regression also carried out for PNI and project completion time and it was found that they were not correlated

Multiple Regression

PNI	Overall Rating	Location	Mumbai	Bangalore
201500	49	Mumbai	1	0
183500	46	Bangalore	0	1
171300	42	Mumbai	1	0
136350	38	Mumbai	1	0
132060	34	Mumbai	1	0
22000	30	Bangalore	0	1
108500	31	Bangalore	0	1
99500	27	Bangalore	0	1
23560	16	Bangalore	0	1
37000	10	Bangalore	0	1
137500	35	Mumbai	1	0
98950	26	Mumbai	1	0
116500	29	Mumbai	1	0
173450	49	Bangalore	0	1
178000	43	Mumbai	1	0

- Data for PNI collected for projects with tangible benefits completed in 2006
- Multiple Regression performed to correlate PNI with Overall Ratings and Location
- As location is Attribute data, indicator variables created for Mumbai and Bangalore

PNI and ROI Ratings

Regression Analysis: PNI versus Overall Rating, Bangalore

The regression equation is

$$\text{PNI} = -9304 + 4211 \text{ Overall Rating} - 23937 \text{ Bangalore}$$

Predictor	Coef	SE Coef	T	P	VIF
Constant	-9304	24204	-0.38	0.707	
Overall Rating	4211.5	610.4	6.90	0.000	1.1
Bangalore	-23937	13467	-1.78	0.101	1.1

S = 24619.6 R-Sq = 84.5% R-Sq(adj) = 82.0%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	2	39748366662	19874183331	32.79	0.000
Residual Error	12	7273474111	606122843		
Total	14	47021840773			

- Multicollinearity checked and found ok (All VIF values are less than 5)
- High R-Sq indicates that the PNI can be expressed in terms of overall rating and the location
- The equation indicates that projects completed in Mumbai give a higher PNI of approx USD 24,000
- The equation used to predict the estimated PNI for 2007 projects in the pipeline based on location as well

Conclusion



- A process improvement program should be designed such that it caters to the strategic objectives of the organization
- Value Stream Mapping, elimination / reduction of NVAs and spotting of similar processes delivers quick successes, which energize the transformation initiatives
- Efficient governance model is essential for transparency, timeliness and sustainability. Reviews are necessary to maintain momentum.
- Project duration should be monitored to avoid negative impact on the program due to delays
- Measuring the benefits and publicizing successes helps the initiative
- Statistical tools can be applied to continuous improvement process

Conclusion

Know where you are going!



Always Stay Focused

Thank You!

Questions?

**Example of a
Strategy
Document**