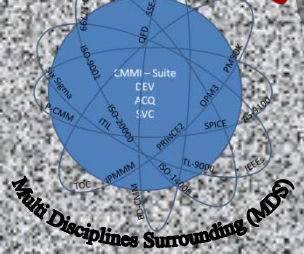


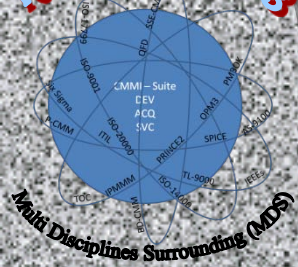
# Lesson Learned from Pilot Implementation of Organizational Performance Management (OPM) Process Area

Monday Half-Day Tutorial



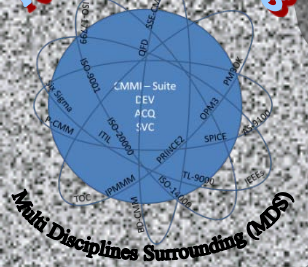
# Specific Goal and Practice Summary

- SG 1 Manage Business Performance
  - SP 1.1 Maintain Business Objectives
  - SP 1.2 Analyze **Process Performance** Data
  - SP 1.3 Identify Potential Areas for Improvement
- SG 2 Select Improvements
  - SP 2.1 Elicit **Suggested Improvements**
  - SP 2.2 Analyze Suggested Improvements
  - SP 2.3 Validate Improvements
  - SP 2.4 Select and **Implement Improvements** for Deployment
- SG 3 Deploy Improvements
  - SP 3.1 Plan the Deployment
  - SP 3.2 **Manage the Deployment**
  - SP 3.3 **Evaluate Improvement Effects**



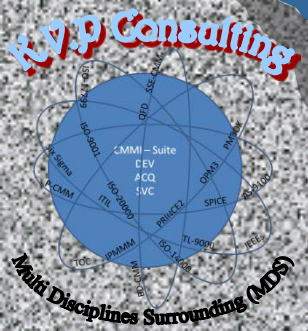
# Tutorial Leading Concept

**Organizational Performance Management (OPM)** purpose is to **proactively manage** the organization's performance to meet its **business objectives**. In Maturity Level 5 the organization is expected to **continually improve its processes** (methods) and **deliverables** (systems, software, services and acquisitions) **based on a quantitative** understanding of its business objectives and performance needs.



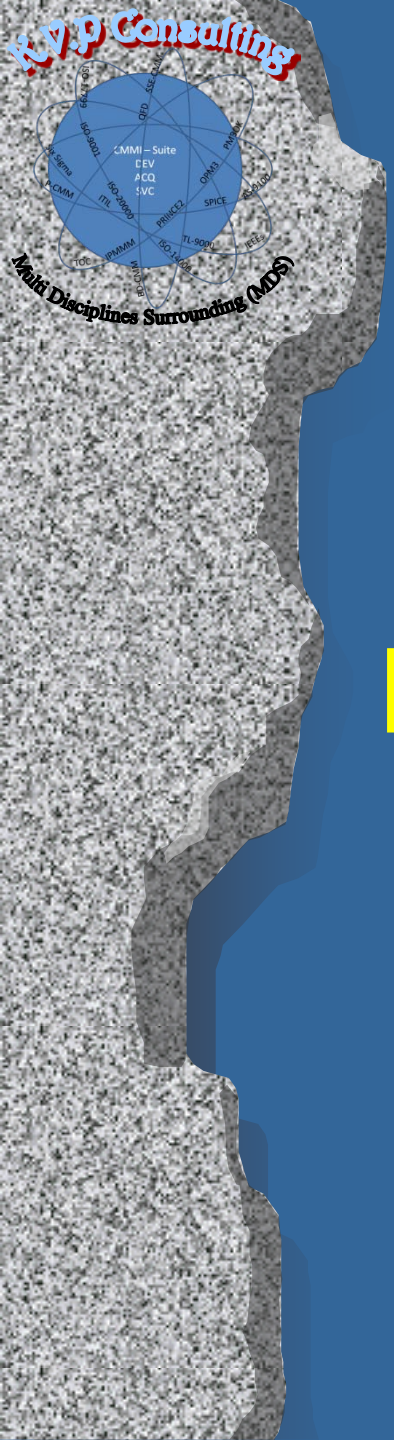
# Some Questions (from first case study)

- Can we justify a tool with OPM
- How to do it



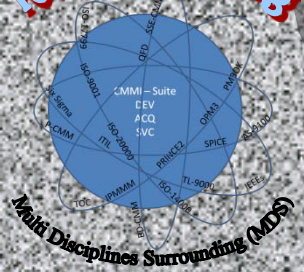
# Some Questions (from second case study)

- We have only financial **business objectives**
- Our PPMs dose not provide PMs practical insights
- We are lacking a system level insights
- We don't know how to map and connect our objectives to **quantitative targets** at process / deliverable level



# Case Study #1

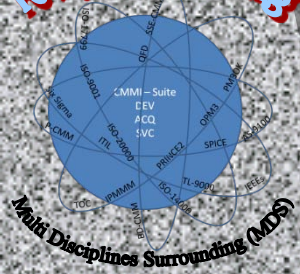
## Requirements Analysis and Management



# Process ROI

## Project Idea and Proposal Preposition Development

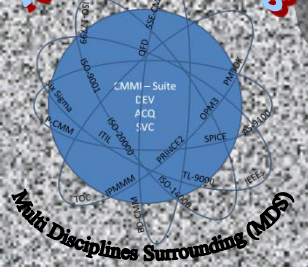
- If an average developer day cost is ~7000
- The total Program effort was 10220 day (100%)
- The testing phase was 1480 day (14.5%)
- Defect that are the result of documentation are 69% of all defects
  
- If we will assume the to correct 69% of all defects will take around 40% of the testing duration; ↵ means that:
  - that will be 740 day
  - With the overall cost of 518000
- However to add 100 review days in the static tests and another 20 of code inspection will end with the cost of 2100000
  
- And still we have saved at least 3080000 (440 days)
- Means that we ware able to reduce 4.5% of the project time



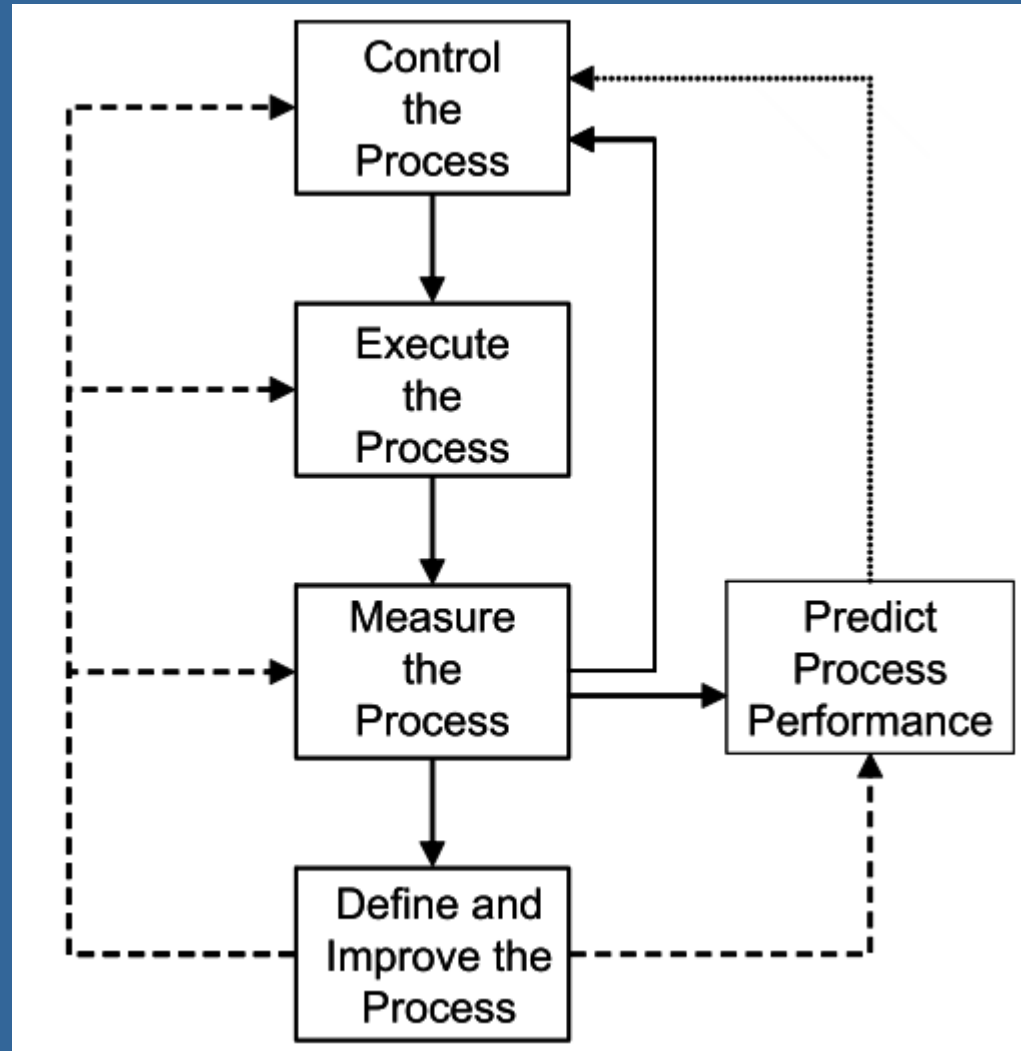
# Definition of Process

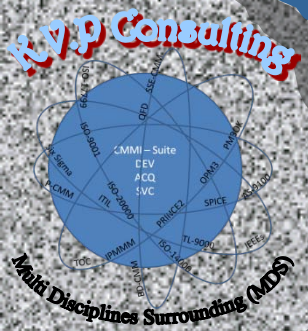
- A set of interrelated activities, which transform inputs into outputs, to achieve a given purpose.





# Process Control

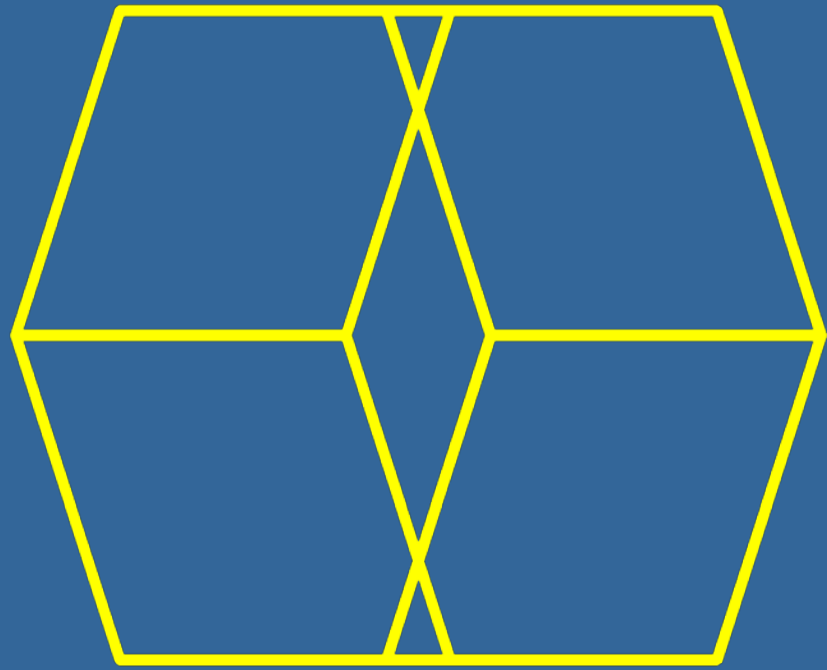


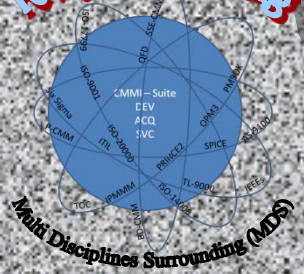


# Process Levels and Dimensions

## Architected and Improved Process

- Objectives
- Structured
- Monitored / Measured
- Effective / Efficient
- Process Interfaces and Integration in Lifecycle
- Prioritize and Balance Resource Utilization within Larger Context

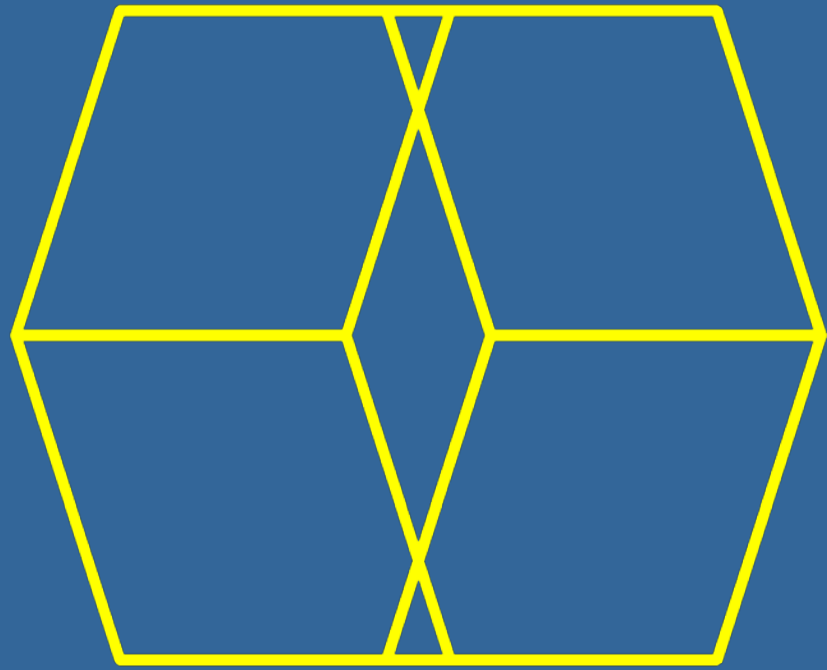


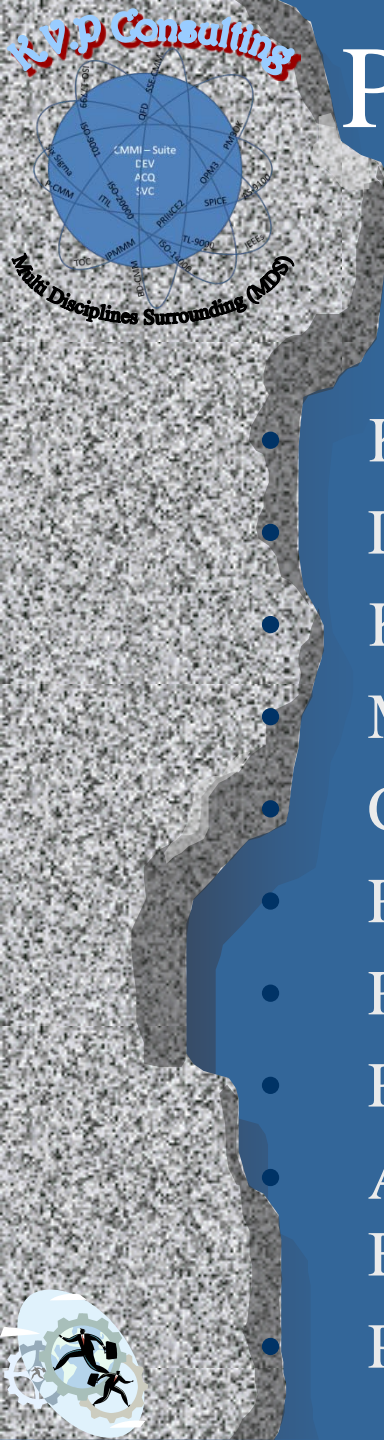


# Suggested Measures

## Architected and Improved Process

- Process productivity
- Process resources utilization effectiveness
- Process resources utilization efficiency
- Meeting the process objectives
- Other processes interfaces efficiency
- Process related defects density

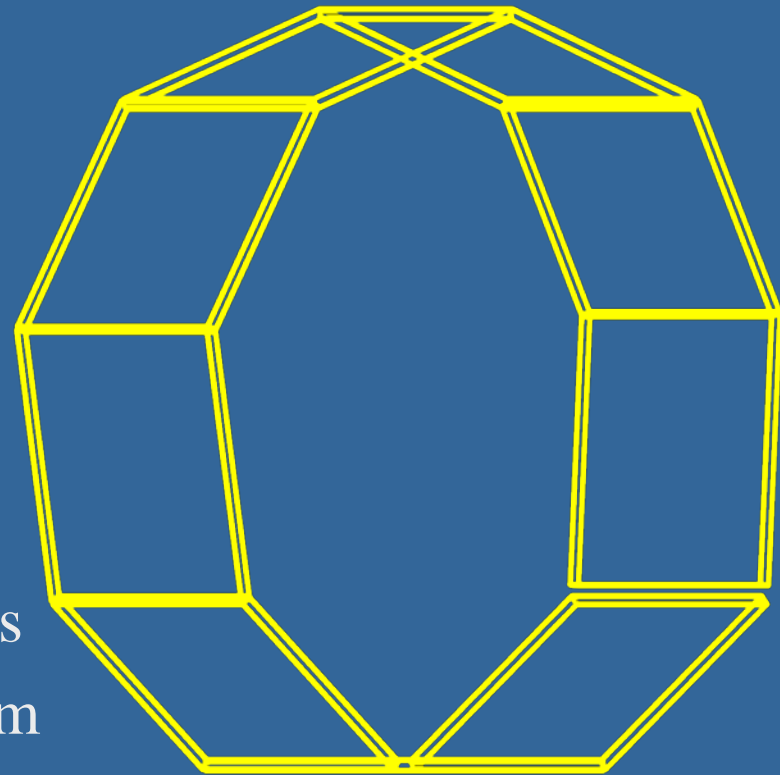


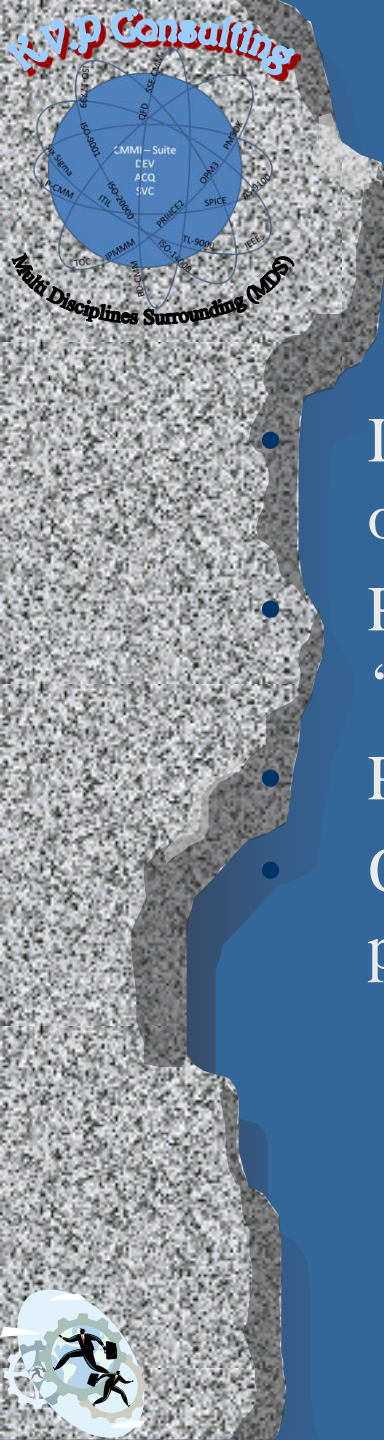


# Process Levels and Dimensions

## Operationally Optimized Process

- Known Capability and Stable
- Defined Ingredients
- Known Critical Elements
- Meeting Objectives
- Controlled Interfaces
- Responsive / Modifiable
- Resilience / “Agile”
- Relevant ‘What If’s Scenarios
- Accepted Tolerance / Freedom Boundaries
- Predictable Outcomes

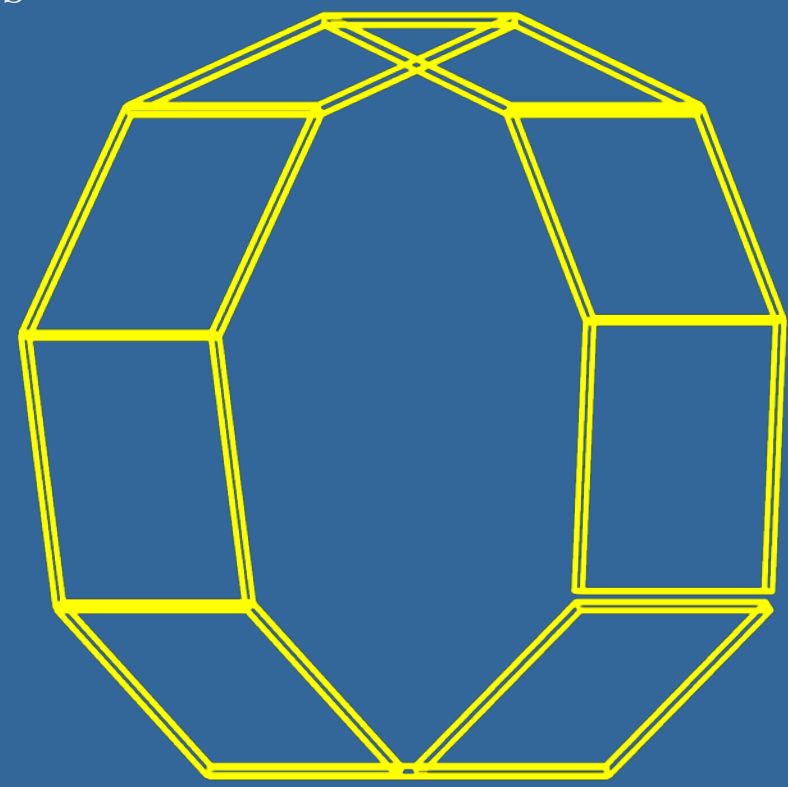


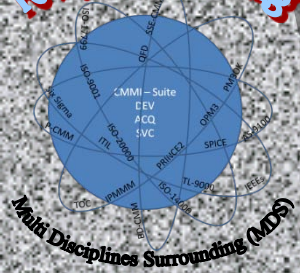


# Suggested Measures

## Operationally Optimized Process

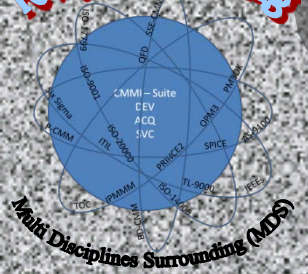
- Influence of Critical Elements on process output
- Process resources utilization  
‘What If’s Scenarios
- Process elements capability
- Quantitative definition of process ingredients





# Measuring Process Performance

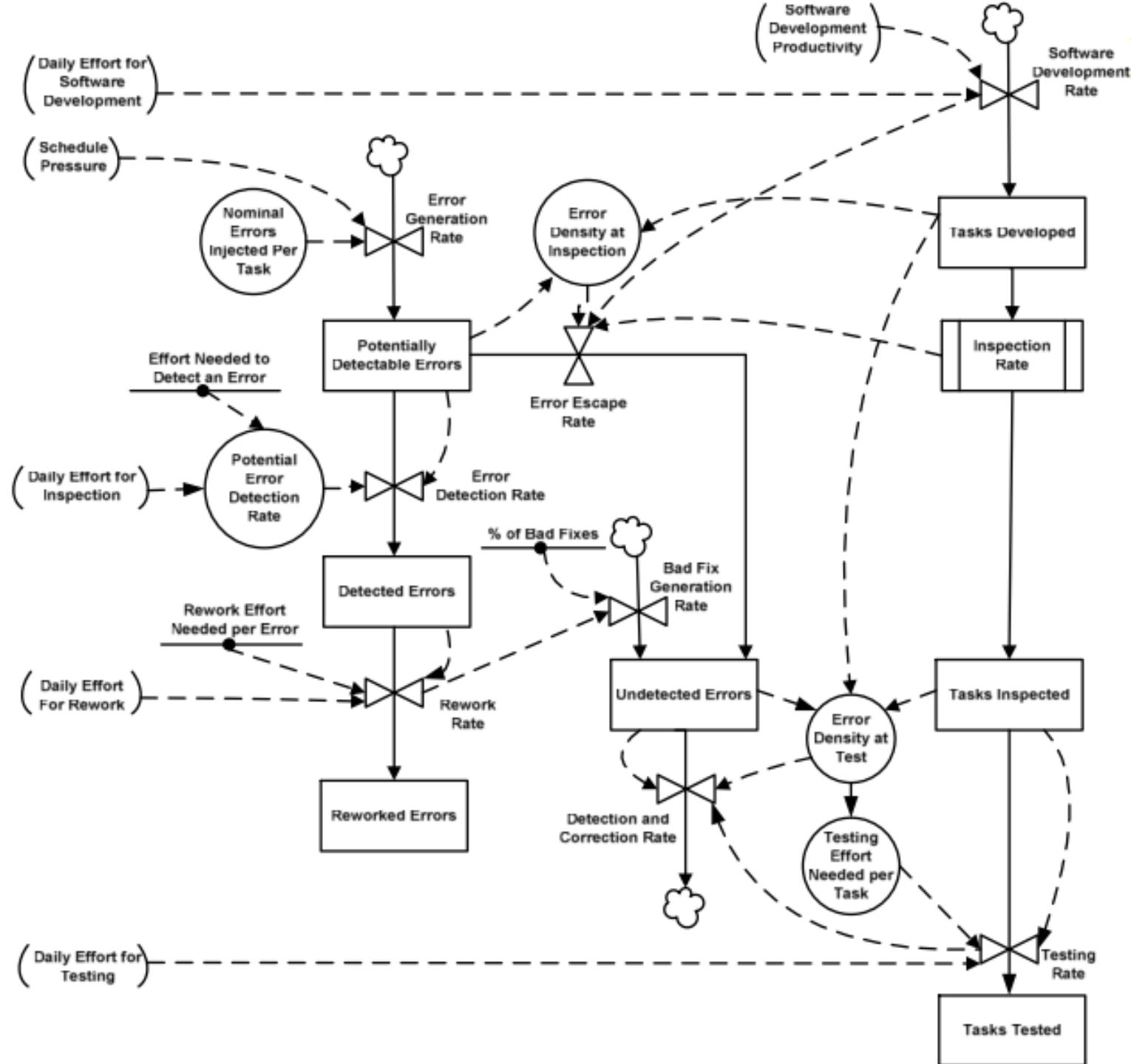
- Key Questions
  - What is the current performance?
  - Is this value "good"?
  - Is it changing?
  - How can I make the value “better”?
- Candidate Attributes
  - Definition (completeness, compatibility)
  - Usage (compliance, consistency)
  - Stability (repeatability, variability)
  - Effectiveness (capability)
  - Efficiency (productivity, affordability)
  - Predictive Ability (accuracy, effects of tailoring and improvements)



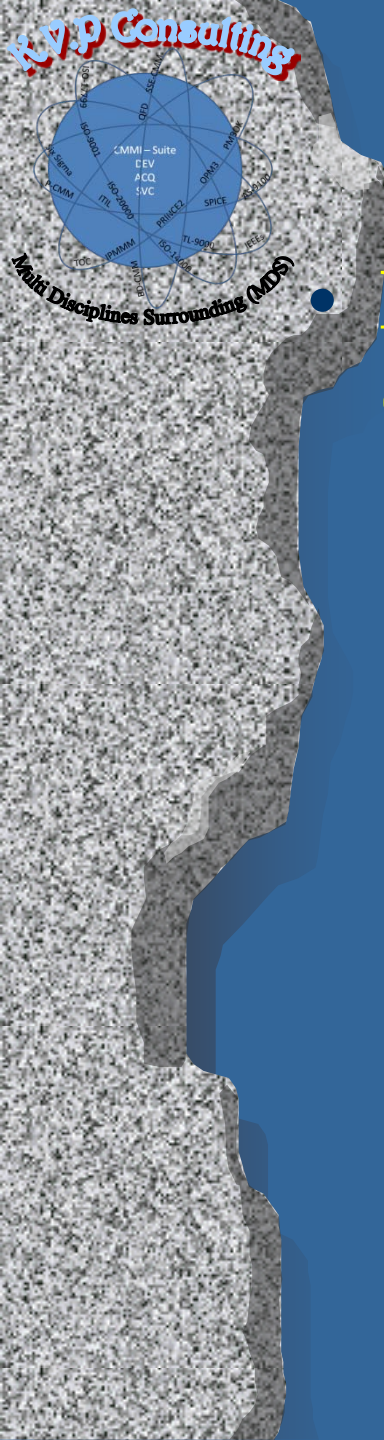
# Some Examples

Goal	Measure
Completeness	The number of process elements added, changed, and deleted during tailoring.
Compliance	Number of discrepancy reports generated by Quality Assurance audits
Stability (volatility)	The number of process elements changed within a specified time interval.
Effectiveness	Product quality
Effectiveness	Defect leakage to subsequent phases
Efficiency	Productivity (or production coefficient)
Efficiency	Rework as a fraction of total effort
Predictability	Probability distribution for an estimated quantity or related population statistics

# Relationships for CoQ

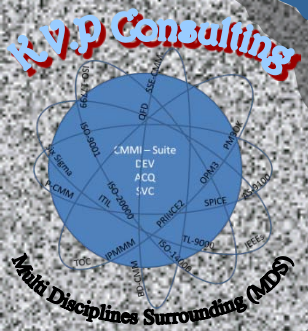






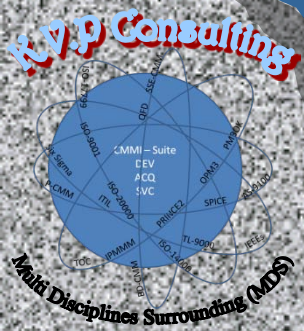
# Process Quality Audits and Progress Check Calibration

- As for today the organization is managing its programs as large and complex programs and need to comply with more than just one quality standards in many disciplines (e.g. HW, optics, software) and use large groups of internal and external assessors that perform implementation checks, progress checks, readiness reviews and formal appraisals.
- These assessment teams are typically composed from groups of very experienced and professional individuals that have the best knowledge in their professional domain but not necessarily on how to conduct an efficient and effective appraisal which provide meaningful results
- The combination of the effort and expected resources increase the risks on qualification of auditors, domain knowledge, and calibration of results and findings effectiveness



# Main Steps for Process Improvement

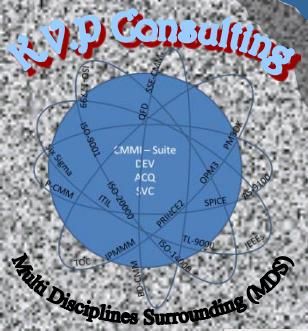
- During our analysis and planning, we were able to **identify** improvement targets in **main lifecycle areas** such as
  - operations,
  - information,
  - governance,
  - people
  - organizational structure,
  - portfolios,
  - project execution,
  - finance.
- And as in core process that are **critical to the system** success such as **stakeholder management, technical interfaces and integration.**



# Organizational Background and Process ROI

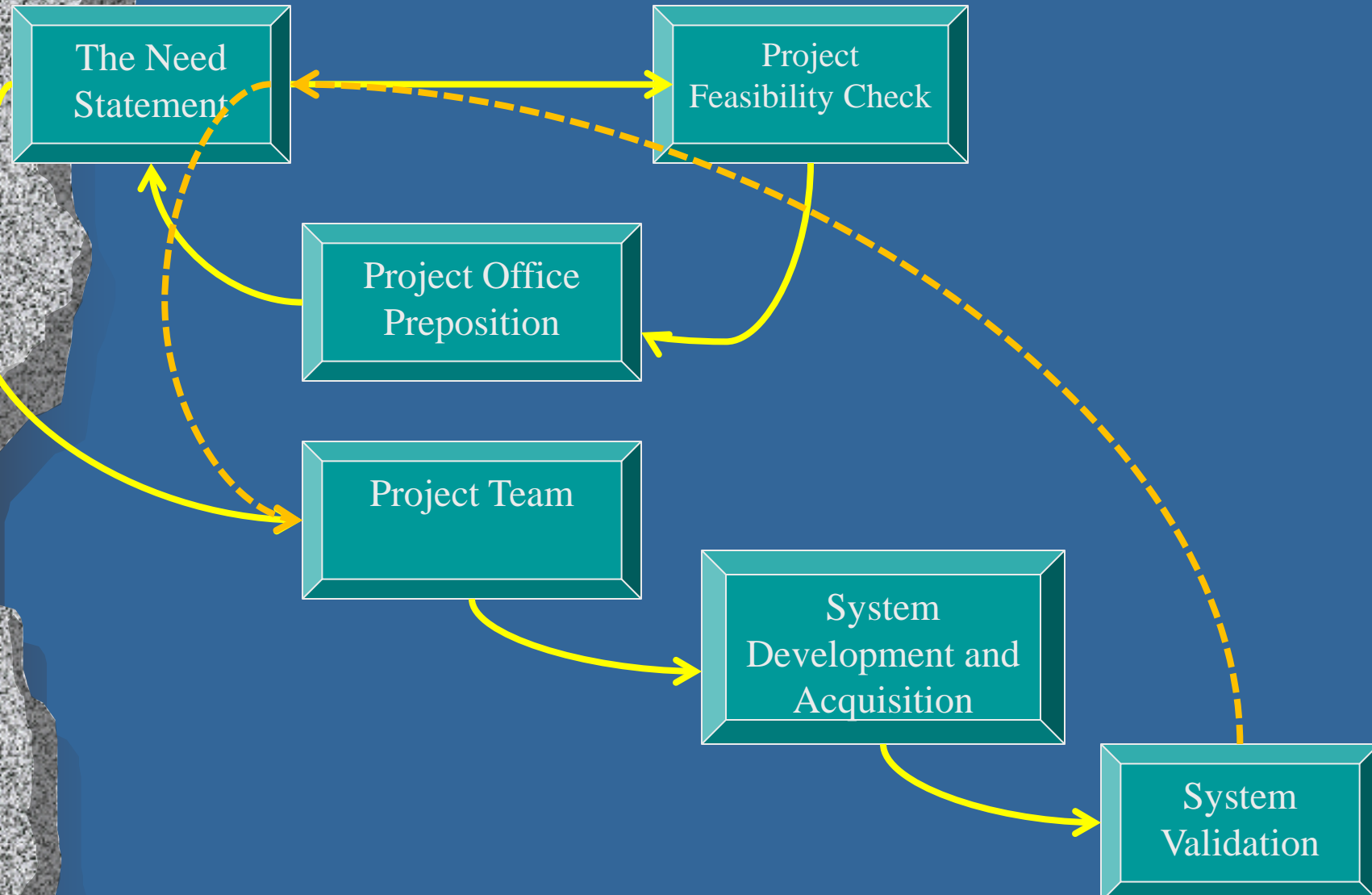
## Quality Audits and Progress Check Calibration

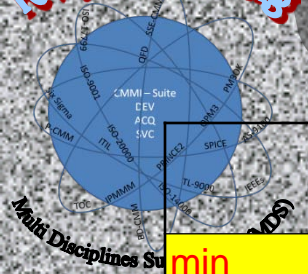
- By measuring the following attributes, we were able to **increase usability** of the process and progress checks by **47%**, and **quality of deliverables** by **37%**
  - Role based profile and criteria
  - Calibration mechanism and criteria
  - Evaluation mechanism and criteria
  - Leveling the different quality engineers and ‘auditors’
  - Flowing specific trainings (on different levels) as personal development and qualification criteria
  - Listing specific performances as indicators for leveling justifications
  - Structuring the different audits and reporting guidelines in a single mandatory to follow process,



# Process

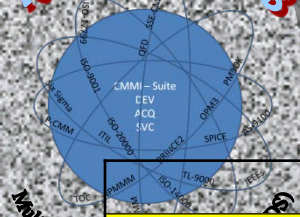
## Project Idea and Proposal Preposition Development





## Center

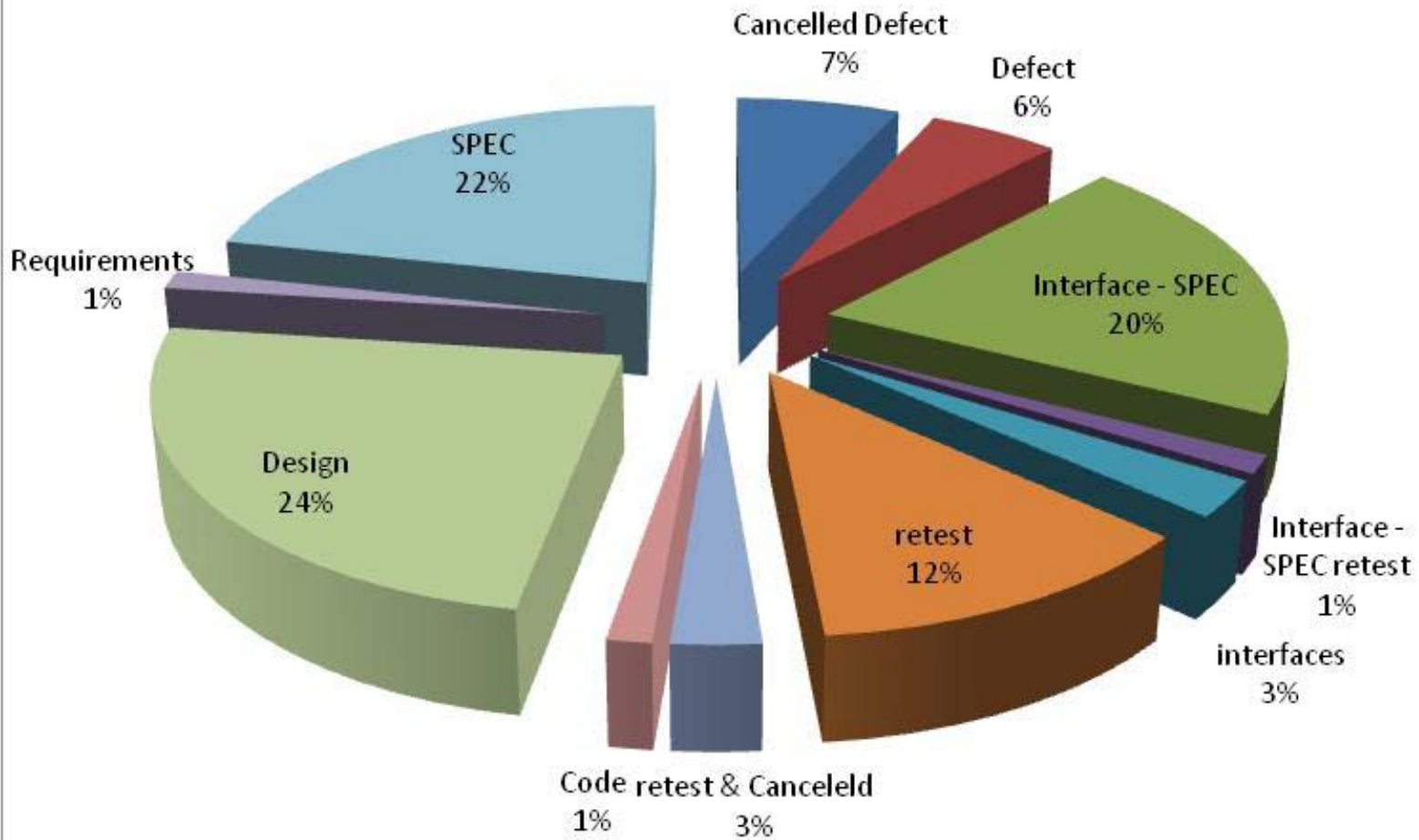
min	0%
max	100%
ave	50%
sample Projects	104
% From ORG	100.00%
Sample Practices	19629
% From Sample	100.00%
is 0	2649
% of is 0	13.50%
>4	9147
% of >4	46.60%
<4	7828
% of <4	39.88%
is 4	2654
% of is 4	13.52%
>6	4818
% of $\geq 6$	24.55%
mean	#NUM!
median	4
mode	8
VAR	7.279

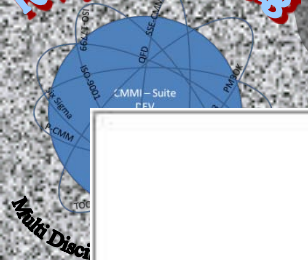


# Areas

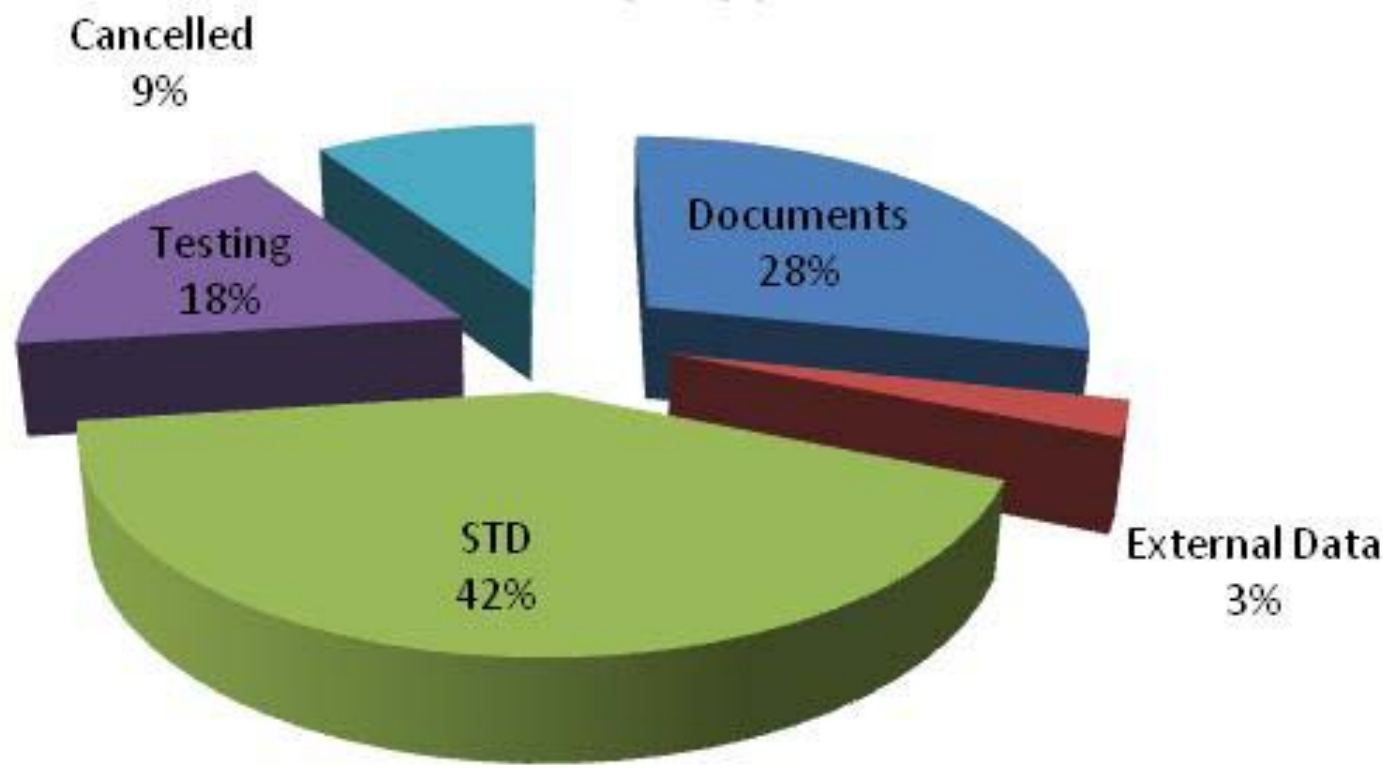
	A1	A2	A3	A4	A5	A6	A7
min	0%	0%	0%	0%	0%	0%	0%
max	100%	100%	100%	100%	100%	100%	100%
ave	50%	50%	37.5%	62.5%	50%	50%	75%
sample Projects	22	6	3	13	23	13	24
% From ORG	21.15%	5.77%	2.88%	12.50%	22.12%	12.50%	23.08%
Sample Practices	3733	957	647	2069	4961	2914	4348
% From Sample	19.02%	4.88%	3.30%	10.54%	25.27%	14.85%	22.15%
is 0	526	127	154	195	914	378	355
% of is 0	14.09%	13.27%	23.80%	9.42%	18.42%	12.97%	8.16%
>4	1575	476	213	1092	1850	1413	2528
% of >4	42.19%	49.74%	32.92%	52.78%	37.29%	48.49%	58.14%
<4	1626	347	322	705	2358	1165	1305
% of <4	43.56%	36.26%	49.77%	34.07%	47.53%	39.98%	30.01%
is 4	532	134	112	272	753	336	515
% of is 4	14.25%	14.00%	17.31%	13.15%	15.18%	11.53%	11.84%
>6	779	211	82	579	775	733	1659
% of ≥6	20.87%	22.05%	12.67%	27.98%	15.62%	25.15%	38.16%
mean	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
median	4	4	4	5	4	4	6
mode	2	6	0	6	0	6	8
VAR	7.058	6.898	6.750	6.853	6.654	7.142	7.265

# Defects by originator



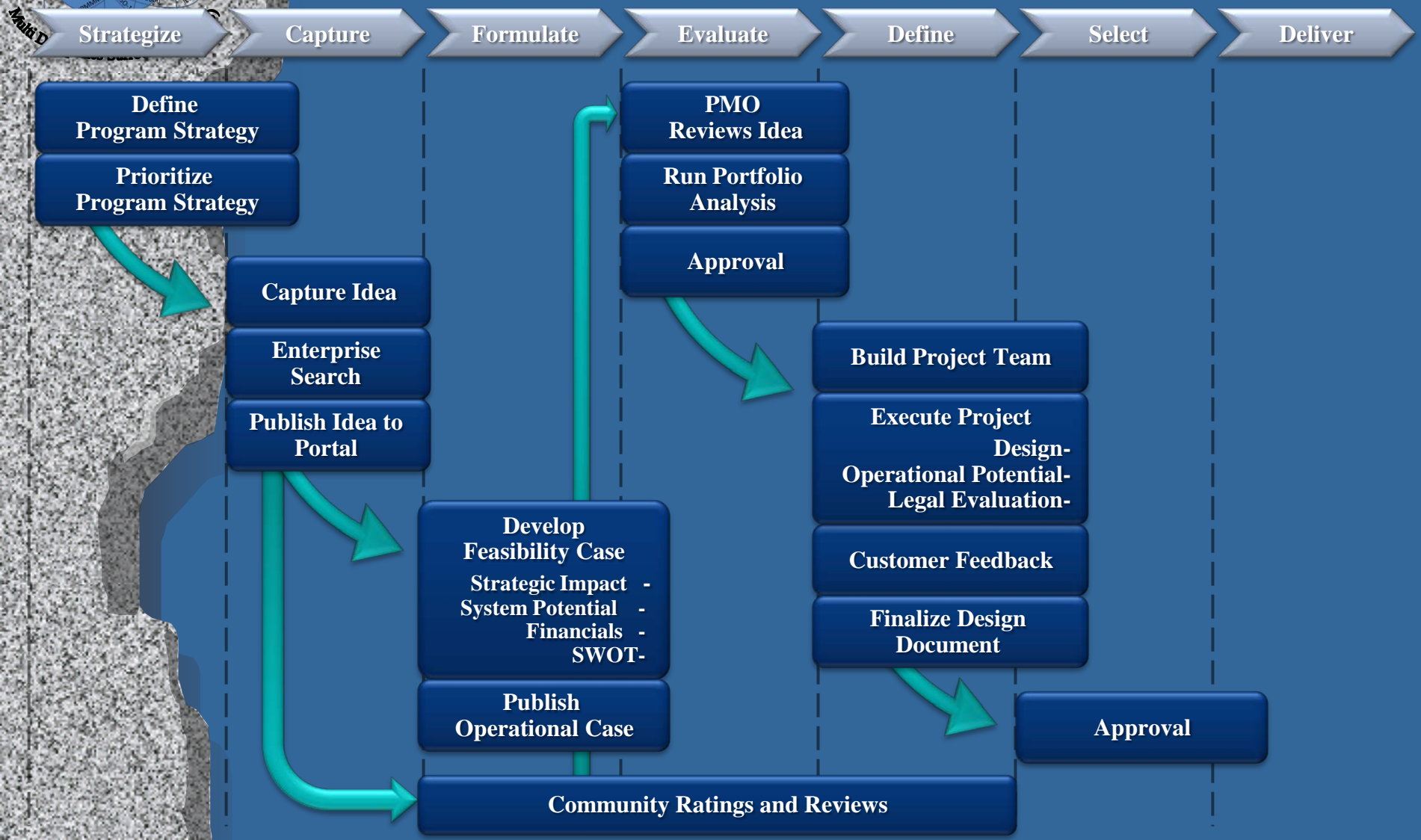


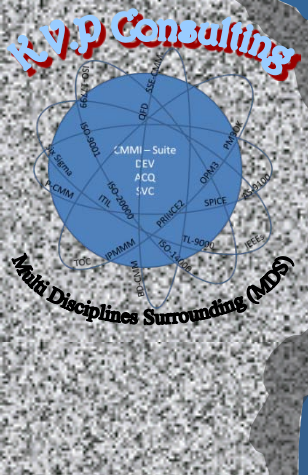
# Defects by Type



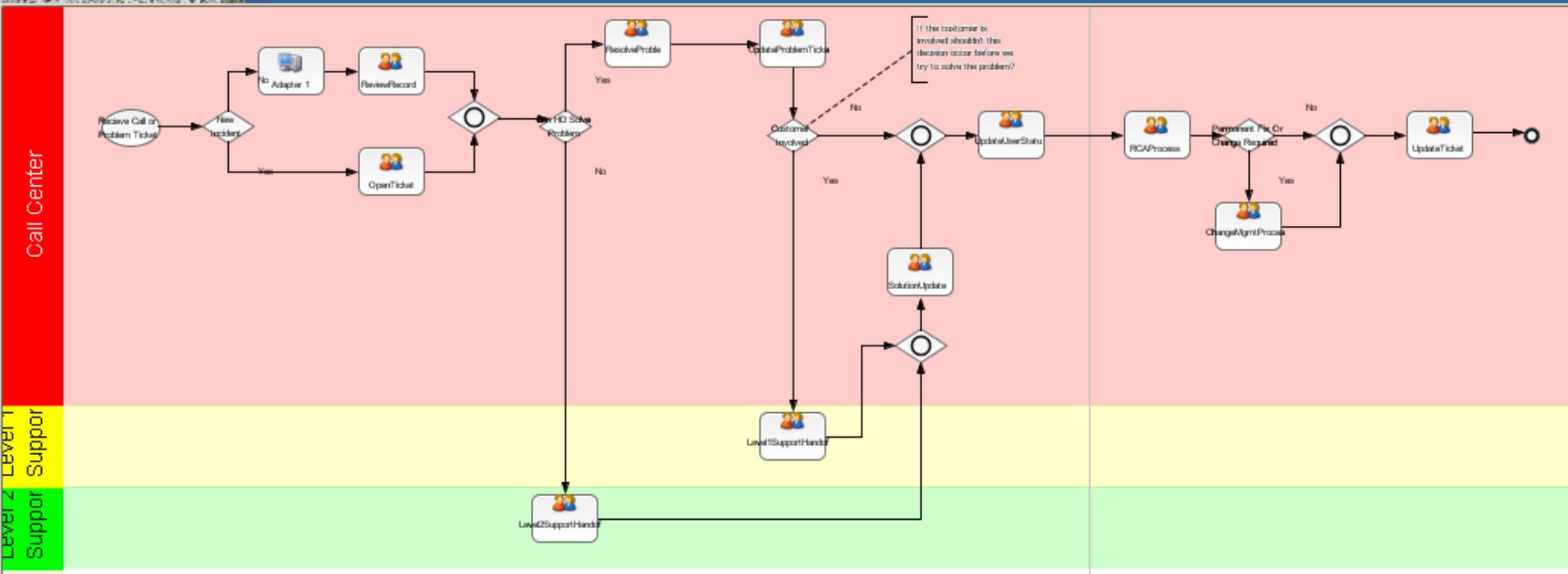


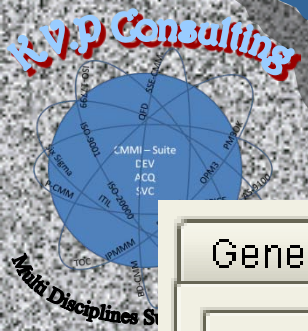
# Managed Process for Innovation





# Case Study





# Case Study

General Fields Simulation

Dataslot:

	Name	Type	Label	Editable	Required
<input checked="" type="checkbox"/>	HDRResolution	Boolean	H d resolution	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	ScheduledDate	Date	Scheduled date	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Attachments	Document	Attachments	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	CustomerConta...	String	Customer conta...	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	CustomerName	String	Customer name	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Description	String	Description	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	EstimatedDurat...	String	Estimated durat...	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Installation	String	Installation	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Skid	String	Skid	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	TicketPriority	String	Ticket priority	<input checked="" type="checkbox"/>	

Dataslots

# Case Study

Name:

General Fields Simulation

Scenario:  ▾

Work Time:  ...

Randomize duration using:  ...

Resources

Name /	Value	Unit	Cost per unit	Threshold

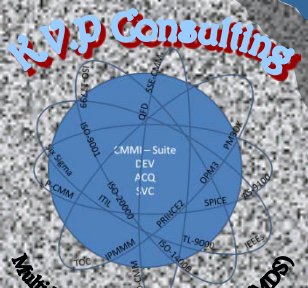
Modify...

Reset

OK

Cancel

Help



# Case Study

General Fields Simulation

Scenario: (default)

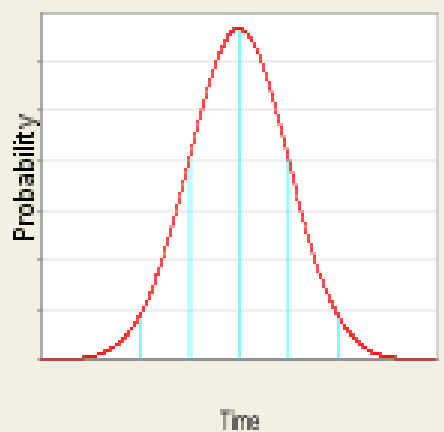
Work Time:

Randomize d

Resources

Name
------

**Distribution of Probability**



Type: Normal

StDev: Constant  
Exponential  
Normal

Modify...  
Reset

The Normal Distribution should be used when observations tend to accumulate around a particular value rather than spread evenly across a range of values

OK Cancel

# Case Study

Name:

General Fields Simulation

Scenario:

Work Time:

Randomize d

Resources

Name

### Distribution of Probability

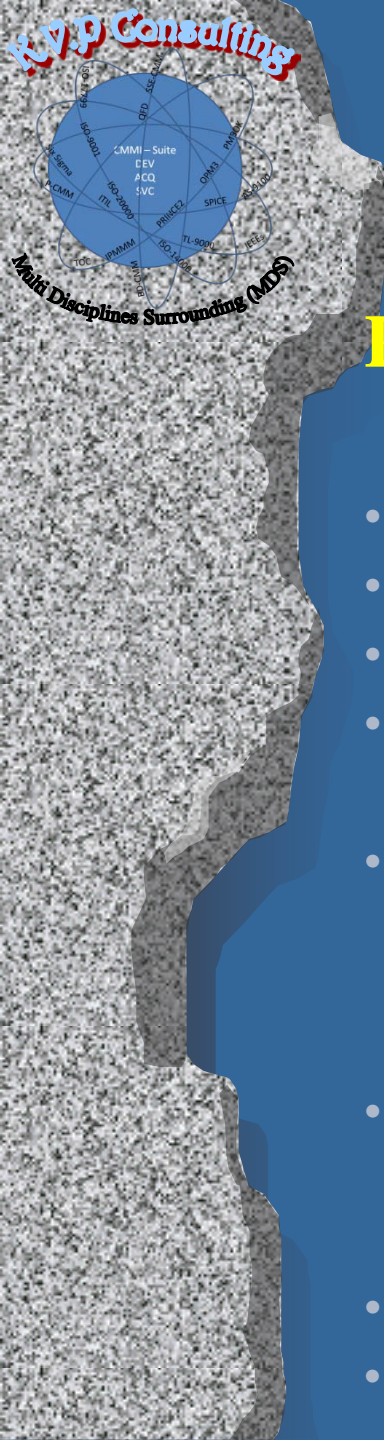
Type:

The Exponential distribution should be used when the probability of observations decreases in time

OK Cancel

Modify...

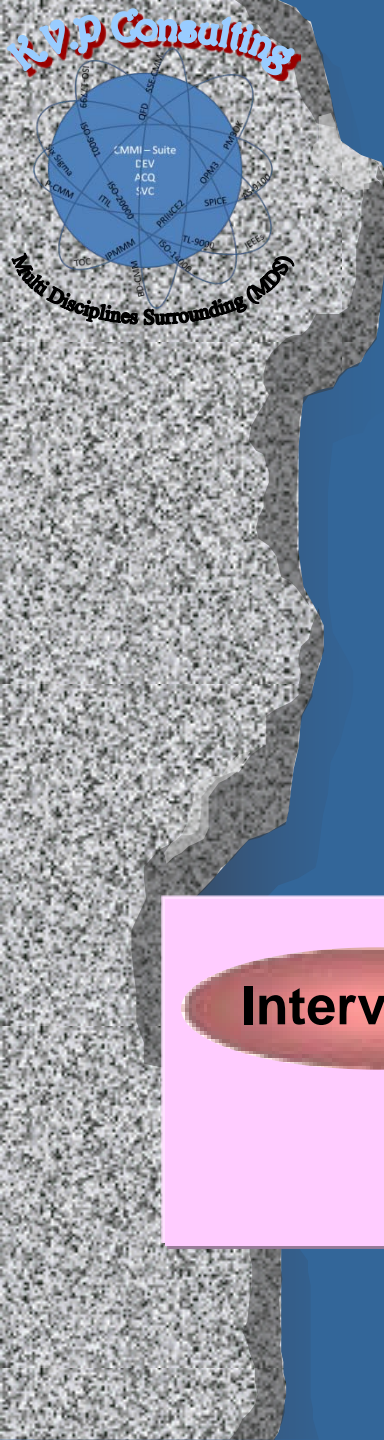
Reset



# Process ROI

## Project Idea and Proposal Preposition Development

- If an average developer day cost is ~7000
- The total Program effort was 10220 day (100%)
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- Defect that are the result of documentation are 69% of all defects
  
- If we will assume the to correct 69% of all defects will take around 40% of the testing duration; ↵ means that:
  - that will be 740 day
  - With the overall cost of 518000
- However to add 100 review days in the static tests and another 20 of code inspection will end with the cost of 2100000
  
- And still we have saved at least 3080000 (440 days)
- Means that we ware able to reduce 4.5% of the project time



# Process

## Quality Audits and Progress Check Calibration

**Ratings**

**Findings**

**Observations**

**Notes**

**Interviews**

**Doc Review**

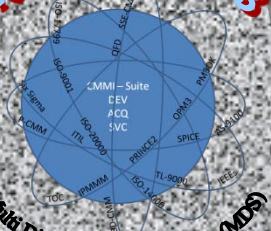
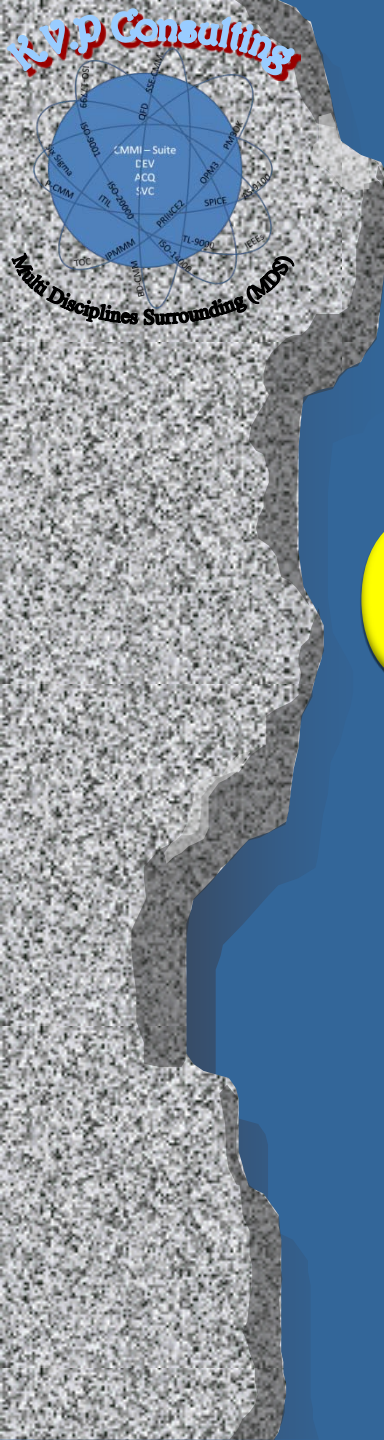
**Instruments**

**Presentations**

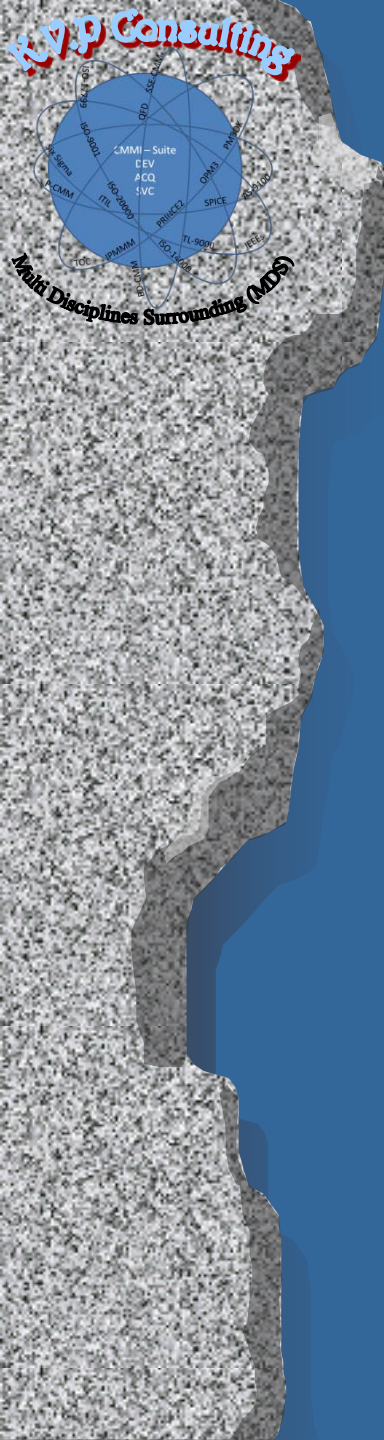
**Data**



**QIP Consulting**

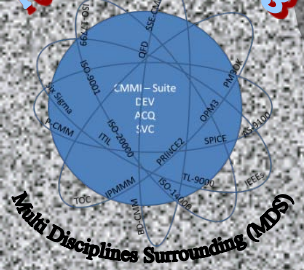


# Questions ?



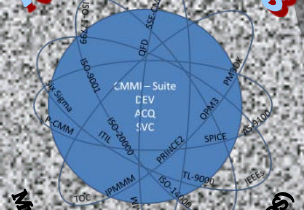
# Case Study #1

## Business Objectives Development and Quantitative Targets Management



# The Challenge

- We have vision and business strategy
- We are focused on financial results that we can report on P&L
- Why we need other ‘business’ quantitative objectives and targets
- What are the benefits for the system and program managers
- How we do it



# The Concept in Plain English

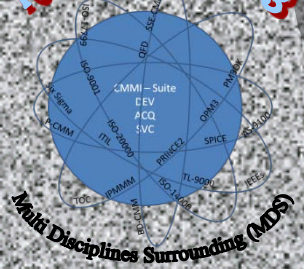


'Cheshire Puss,' she began, ... 'Would you tell me, please, which way I ought to go from here?' 'That depends a good deal on where you want to get to,' said the Cat.

'I don't much care where -' said Alice.  
'Then it doesn't matter which way you go,' said the Cat.  
'- so long as I get *somewhere*,' Alice added as an explanation.  
'Oh, you're sure to do that,' said the Cat, 'if you only walk long enough.'

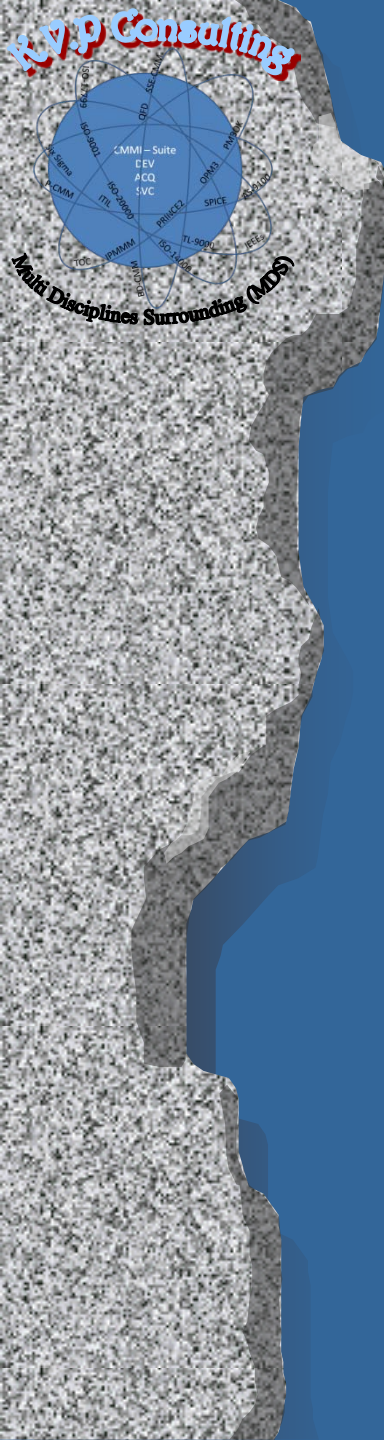


**Tell me where you want to be and I will show (measure) you the way**



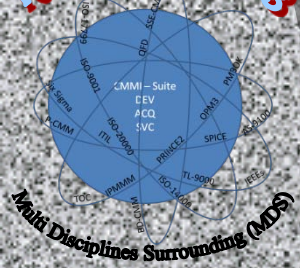
# And

- “When people consult me, it’s not that I am reading the future; I am guessing at the future. . . . How do I guess at the future? Based on the omens of the present. The secret is here in the present. If you pay attention to the present, you can improve upon it. And, if you improve on the present, what comes later will also be better”



# The Solution We Chose

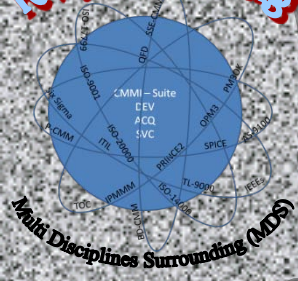
## Strategic Policy Deployment (SPD)



# Strategic Policy Deployment

- Combination of:
  - Clear & Aligned Priorities
  - Behavior Changes
  - Change in Thinking (PDCA)
  - Elimination of Waste

...to achieve Business Results

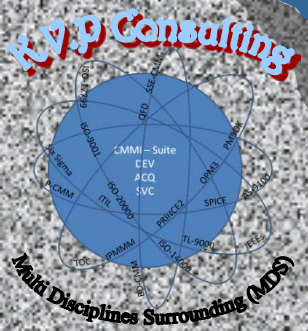


# Snap Look to The Tool



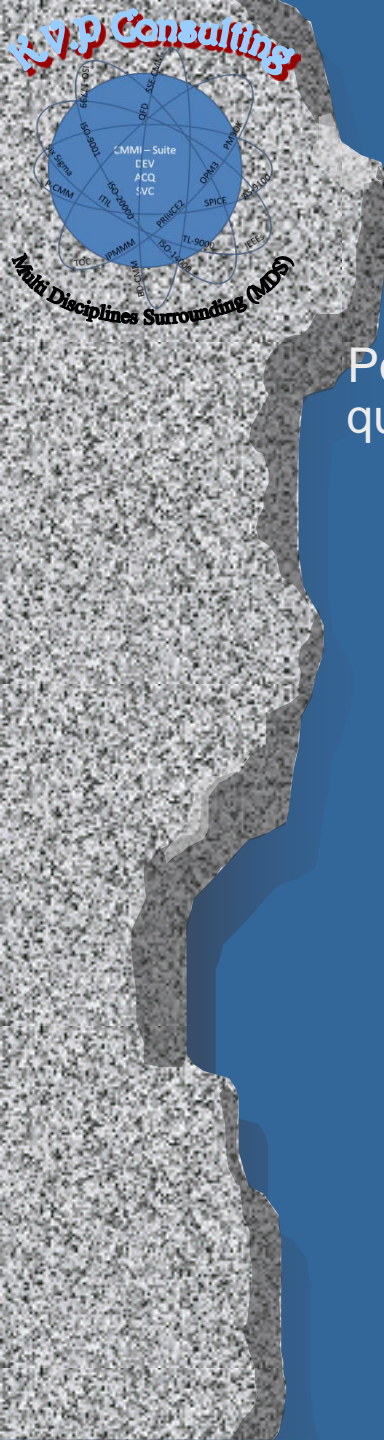
Microsoft Excel  
Worksheet





# Strategic Policy Deployment

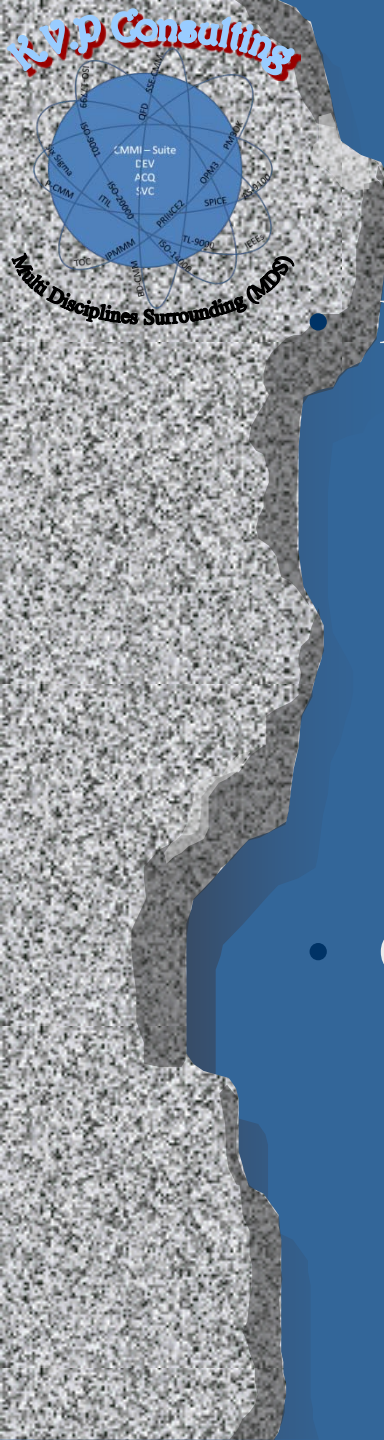
- A process to *focus* upon Goals, that cut across the corporation
- *Aligns & links* resources & action in pursuit of those Goals.
- Enables progress towards the Goals to be *measured*
- Enables rapid *root cause corrective action* if results vary from goals
- Drives *process* improvement
- Individuals & teams get *clarity* on their impact upon the Goals
- It becomes the yearly implementation of our long term strategic planning process.



# Policy Deployment as a Tool

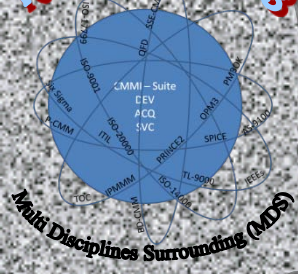
Policy Deployment is an effective tool to use for answering the following questions:

- How do we identify our critical goals?
- How do we develop plans and align our activities?
- How do we communicate our goals and activities level by level?
- How do we align the abundant talent of our team members on the critical few?
- How do we sustain our activities?
- How do we quickly change course when required?
- How do we learn from our experience?

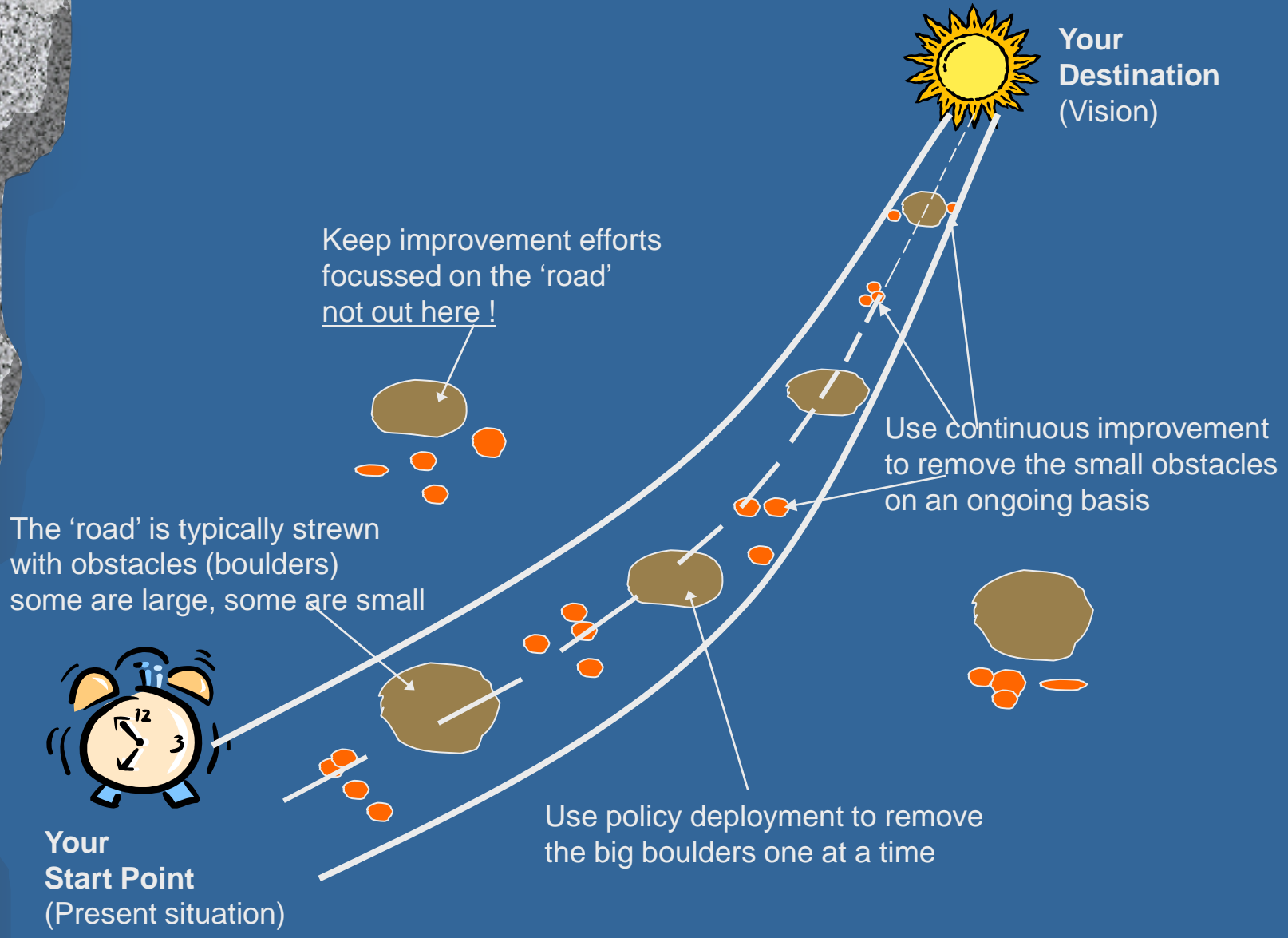


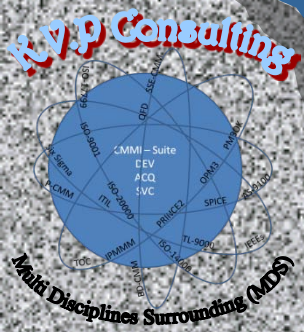
# Magnitude of Change

- Behavior Change
  - Discipline
  - Emphasis on *how* the organization will deliver the priorities
  - Catchball to understand the priorities and the means to deliver them
  - Gemba – look for evidence the plan is proceeding and in control
- Clear and Aligned Priorities
  - Start with top management priorities and link/translate at every level
  - Critical few metrics match Excel commitments
  - Must deselect



# Highway





# Strategic Policy Deployment Process

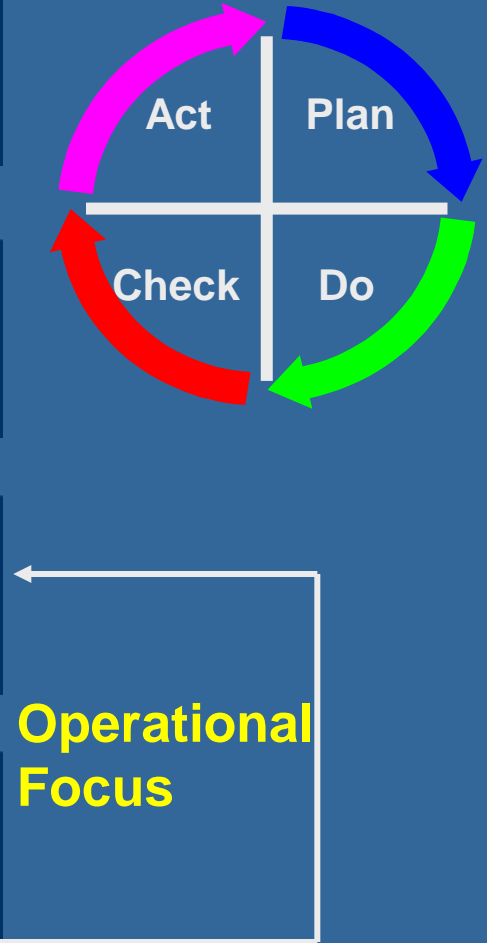
Strategic Focus

Step 1  
**Choose the Focus**

Step 2  
**Align the Organization**

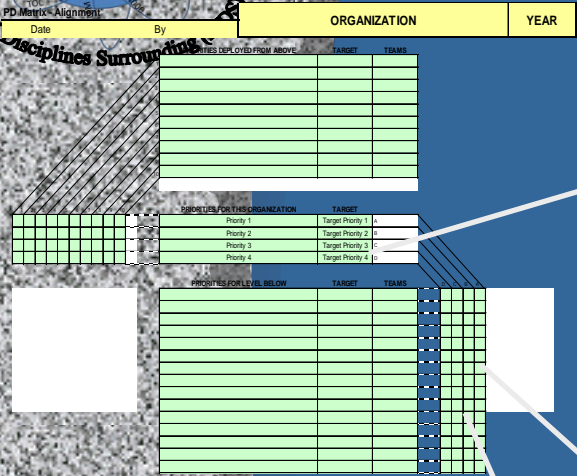
Step 3  
**Implement the Plan**

Step 4  
**Review and Improve**



# The Forms Link...

*Multi-disciplines Surrounding*



PD Tracking		Date	By	ORGANIZATION	YEAR
Priority 1	Target Priority 1				
Priority 2	Target Priority 2				
Priority 3	Target Priority 3				
Priority 4	Target Priority 4				

LINK	Owner	Number	2000-01	2000-02	2000-03	2000-04	2000-05	2000-06	2000-07	2000-08	2000-09	2000-10	2000-11	2000-12	2001-01	2001-02	2001-03	2001-04	2001-05	2001-06	2001-07	2001-08	2001-09	2001-10	2001-11	2001-12
Priority 1	Area	Memo 1	Target 1																							
Priority 2	Area	Memo 2	Target 2																							
Priority 3	Area	Memo 3	Target 3																							
Priority 4	Area	Memo 4	Target 4																							
Priority 5	Area	Memo 5	Target 5																							
Priority 6	Area	Memo 6	Target 6																							
Priority 7	Area	Memo 7	Target 7																							
Priority 8	Area	Memo 8	Target 8																							
Priority 9	Area	Memo 9	Target 9																							
Priority 10	Area	Memo 10	Target 10																							
Priority 11	Area	Memo 11	Target 11																							
Priority 12	Area	Memo 12	Target 12																							

**Tracking Sheet**

This form shows three 'Size Graph' charts (1, 2, 3) with red lines indicating priority levels. Below them is a 'Problem strip for red items' table with columns: Prioritized Root Cause, Counter-measures, Who, When, Predictive Impact, and Priority Capability. The table contains rows for 'most impacted' and 'least impacted' items.

**Red items**

**Alignment Sheet**

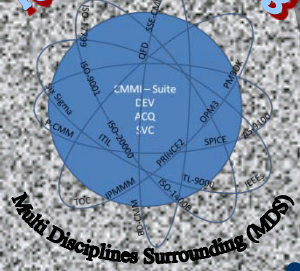
A large grid representing a program plan with multiple rows and columns. Some cells are highlighted in red, indicating critical items, while others are in blue.

This form is identical to the one above, showing 'Size Graph' charts and a 'Problem strip for red items' table with columns for Prioritized Root Cause, Counter-measures, Who, When, Predictive Impact, and Priority Capability.

**Problem strip for red items**

**Program Plan (multiple)**

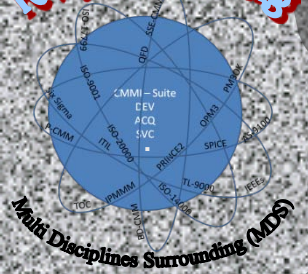
A detailed table for the Program Plan with the following headers: Major Issues and Countermeasures, Link, Date, and a list of organizational units: R&D, Design, Development, Production, Marketing, Sales, Service, and Support. The table contains several rows of data.



## Catchball

- Process to build consensus through dialog about the goals and how to achieve them.
- Two way communication that arrives at a collective wisdom on the priorities and the plans to deliver the results.
- Leader needs to have a vision of what is needed and how it may be achieved.
  - Team will provide input on the specific how.
- The leader will confirm the plan:
  - Push the team to stretch further if the plan comes short of what he had in mind.
  - Question and develop understanding of the plan if the plan exceeds what he had in mind.





# Targets

All priorities require a target so they can be measured.

Targets have to be achievable, challenging, based on reliable data, and **SMART**.



**S** - specific

**M** - measurable

**A** - agreed

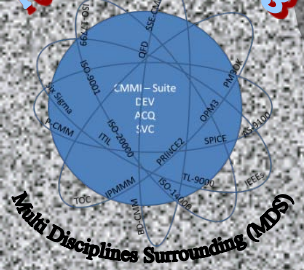
**R** - realistic

**T** - timed





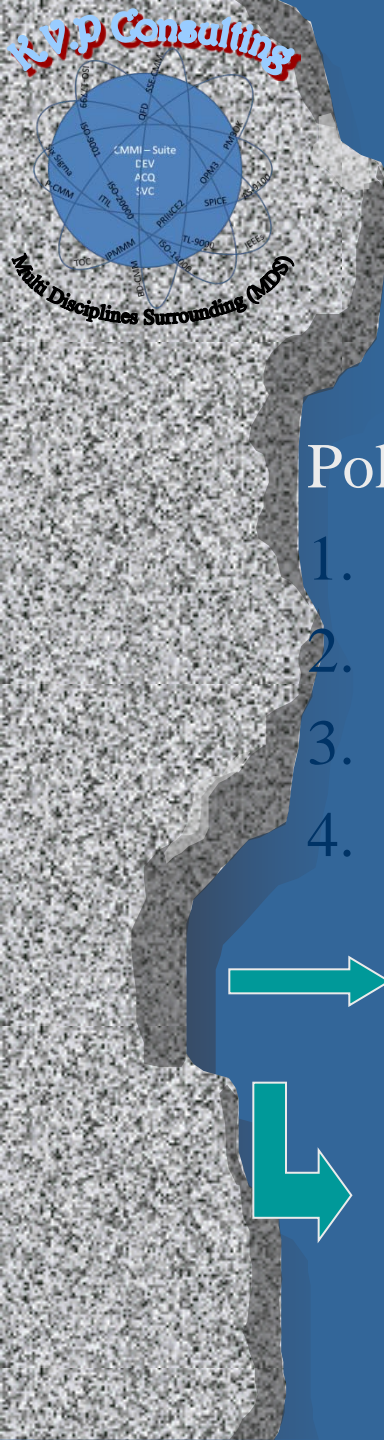




# The CHECK Phase

- Counter measures are data driven looking at root cause.
- Check if previously identified counter measures are working and on track.
- Don't react to noise.
- Escalate issues that can not be resolved to the next level.





# Check Questions

## Policy Deployment – Questions to Ask

1. Do you have a plan?
2. Does the plan close the gaps to the goal?
3. Is the plan being executed on time?
4. Is the plan generating the expected business results?



If the answer is no for any of these, generate a countermeasure



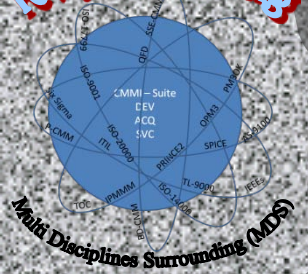
Monitor effectiveness of countermeasure





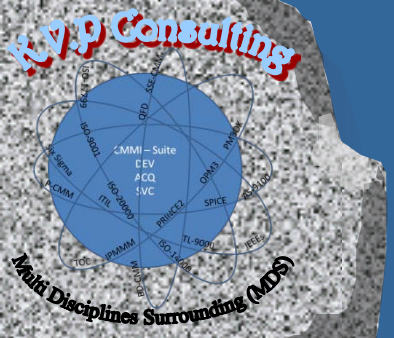






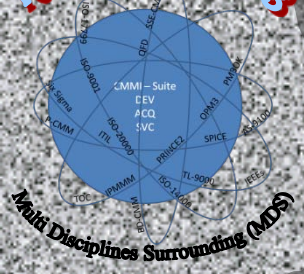
# <BU ABC> Business Objectives

- The strategy document has 53 quotes the leading us to an optional list of Business Objectives and Quantitative Targets



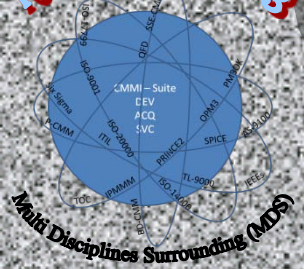
# Business Objectives

- Supporting professional and personal service on competitive terms
- Flexible adjustments to changing market conditions at the lowest possible cost and a satisfactory time-to-market
- Keep its leading position
- Group's systems must be capable of handling growth in the Group's business, organically as well as through mergers and acquisitions



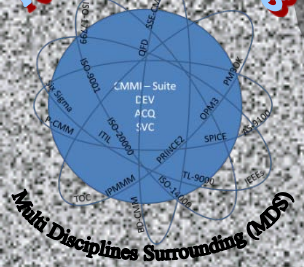
# Business Objectives

- Prioritizes resources and projects based on cost-benefit considerations
- Manages the actual development process
- Systems must be designed for group-wide deployment
- Systems and functionality are reused across products, distribution channels, brands and markets
- Systems must optimize cross-organisational processes and make it possible to combine parts of the Group's products into new products



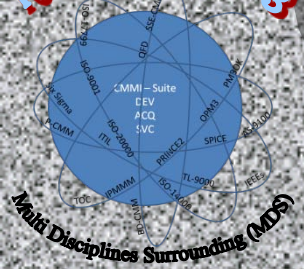
# Business Objectives

- By reusing system elements, even across different technical platforms, significant efficiencies are gained in the development of systems
- Integrate third party systems into the whole system complex, regardless of the technical deployment platform
- Minimize the costs associated with the integration of applications and tools across systems and platforms
- Limited but adequate set of market leading technologies are used as standard tools



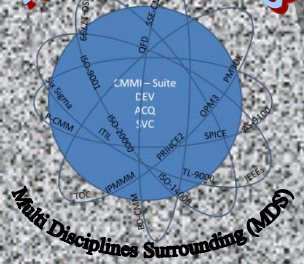
# Business Objectives

- SyDLC and TCO must be implemented in such a way that the integrity of the business cannot be compromised
- level of security and operations must be high and financially sound
- Systems and platforms must have a high quality level, protecting the Group against errors, down time, security breaches and data loss
- Quality level must correspond with risks, consequences and not least the expectations of the customers



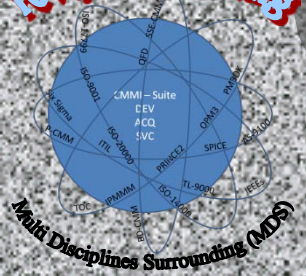
# Business Objectives

- Systems must adhere to the agreed service levels and be delivered with the agreed functionality
- Simple and accessible user interfaces, adapted to the user's role or the customer's needs
- Access is given to the necessary functionality and information from the underlying business system based on consolidated data
- Systems must constantly support the chosen set of distribution channels and user interfaces, enabling the Group to meet the customer at any given point



# Business Objectives

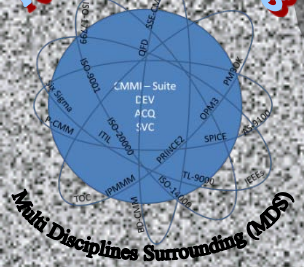
- Knowledge about the customers and their behavior must be gathered in a structured way on each customer interaction, and related to the Group's products
- Integrated and customer-facing sales and advisory system ensures that products and services can be developed and deployed across business units, customer segments and distribution channels
- Reduce the Group's costs by optimizing the whole value chain



# Business Objectives

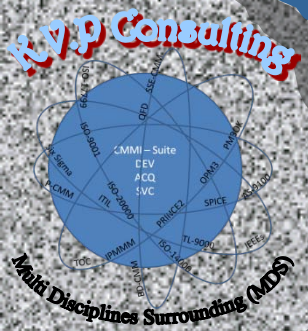
- Costs associated with the rationalisation of processes must be minimal, enabling economically feasible automation of even small business processes
- Business procedures must be implemented direct as supported processes, guiding employees and customers through the activities with as little prior knowledge as possible, letting them concentrate on the products and actual business.
- Enables conversion of manual activities into automatic sequences without changing the basic design of the underlying processes.





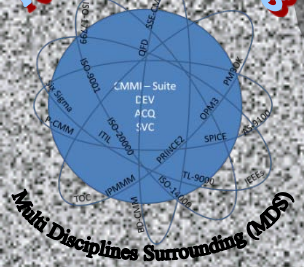
# Business Objectives

- Combine activities efficiently and flexibly across distribution channels, partners, brands and markets, wherever this is desirable from a business point of view
- Systems must support the processes which gather, organize, share and analyse the entire knowledge platform that exists about customers, products, business initiatives, organization, employees, etc
- Information must be available at any time and anywhere to those it is meant for
- Group's management processes and pricing, they must be based on consolidated and sufficiently current data



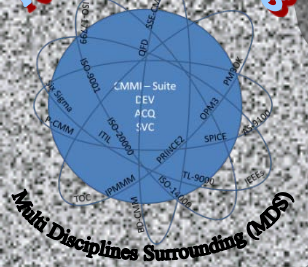
# Business Objectives

- Increase flexibility gradually without compromising on efficiency and stability
- Diversity is handled systematically and efficiently by using an infrastructure, which efficiently integrates systems, processes and manual activities across platforms and technologies
- Infrastructure is provided to developers, freeing them from having to programme integration and flexibility into each system
- Use of market leading standards
- Design of system elements focusing on flexibility



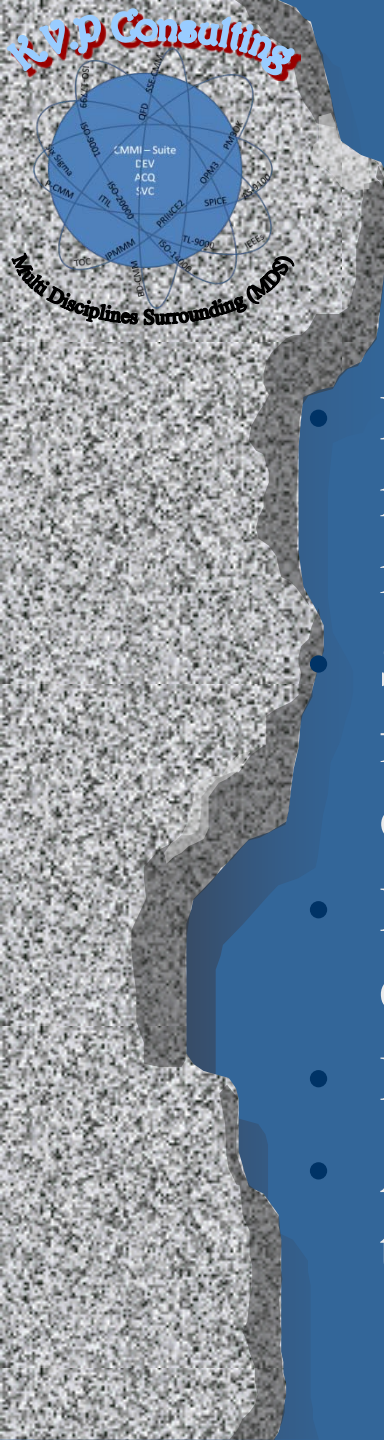
# Business Objectives

- System elements must be designed to scale in line with business growth and expansion
- System elements must be capable of handling unexpected events
- Ensure that systems can continue normal operations with the least impact on the business
- Business continuity during normal operating conditions as well as in disaster-like situations
- Systems design must if possible take into account the changeability of externally controlled data and processes
- Readiness for change by implementing changes for the entire group



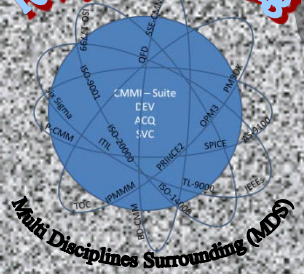
# Business Objectives

- Resources can thus be reused in any other project or area in the Group in a simple and efficient way, thereby ensuring consolidation of both data and functionality
- It must be possible to combine scattered IT resources into complete systems, applications and actual business processes
- Infrastructure must handle the coupling dynamically and parameterized
- Selection of coupling method must not be based on a technology choice made by the developers



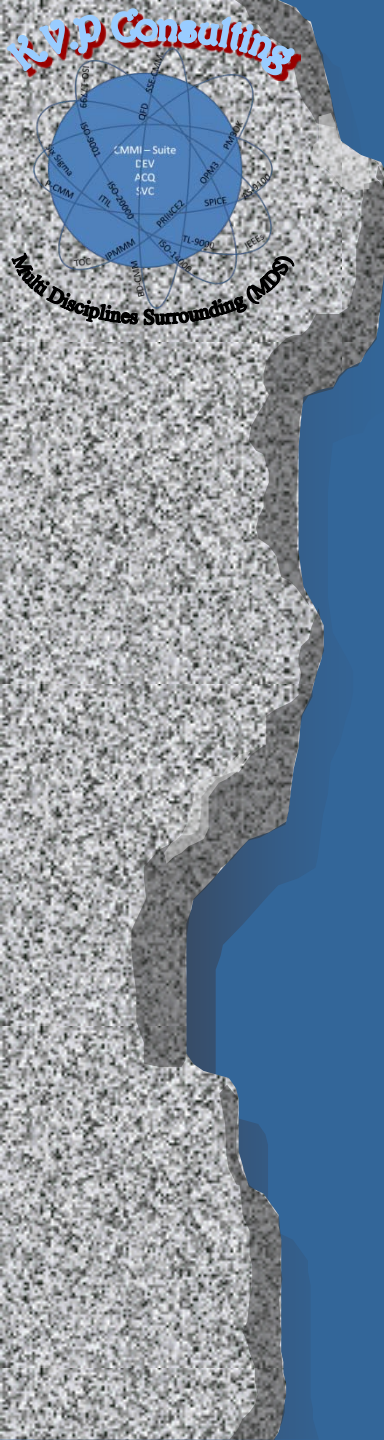
# Business Objectives

- Infrastructure and development methods must as a minimum support a layering of systems into user interfaces, business logic and data
- Service levels must if possible be based on dynamic and flexible policies, which are directly definable in the operational environment
- Infrastructure must efficiently handle error detection and quality control of complete system
- Infrastructure must efficiently support the integration
- Architecture is an essential parameter when choosing a third-party system



# Business Objectives

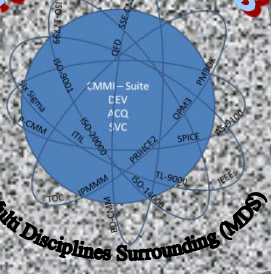
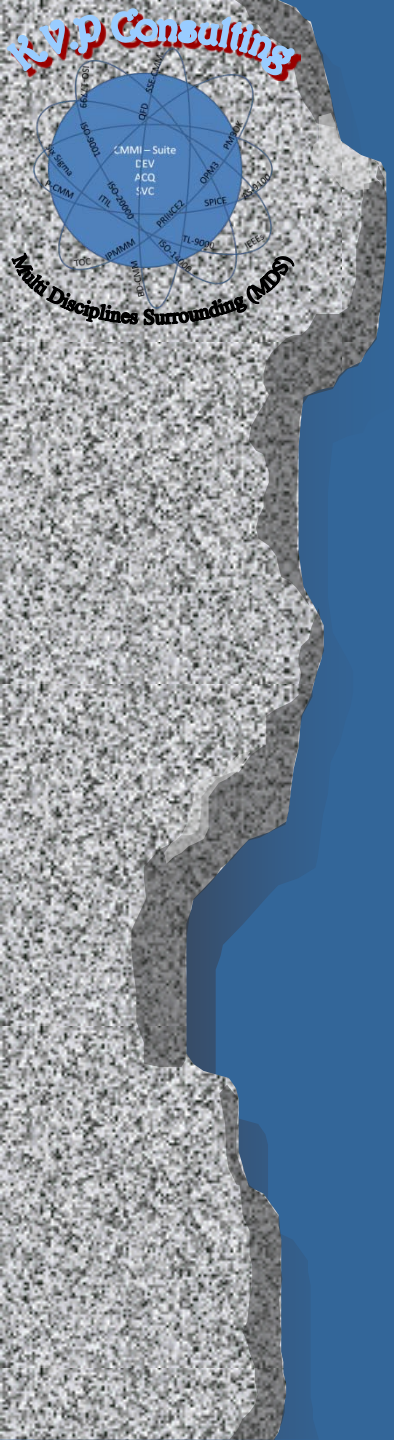
- Program management must ensure consistency across manual and system-supported processes, by enabling any given process to involve both manual and automated work items
- Infrastructure must provide simple and efficient methods for supporting business procedures, processes and routines



# Specify Measures



Microsoft Excel  
Worksheet

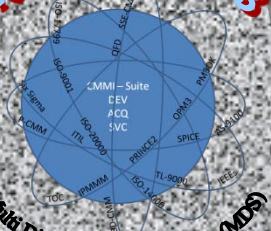
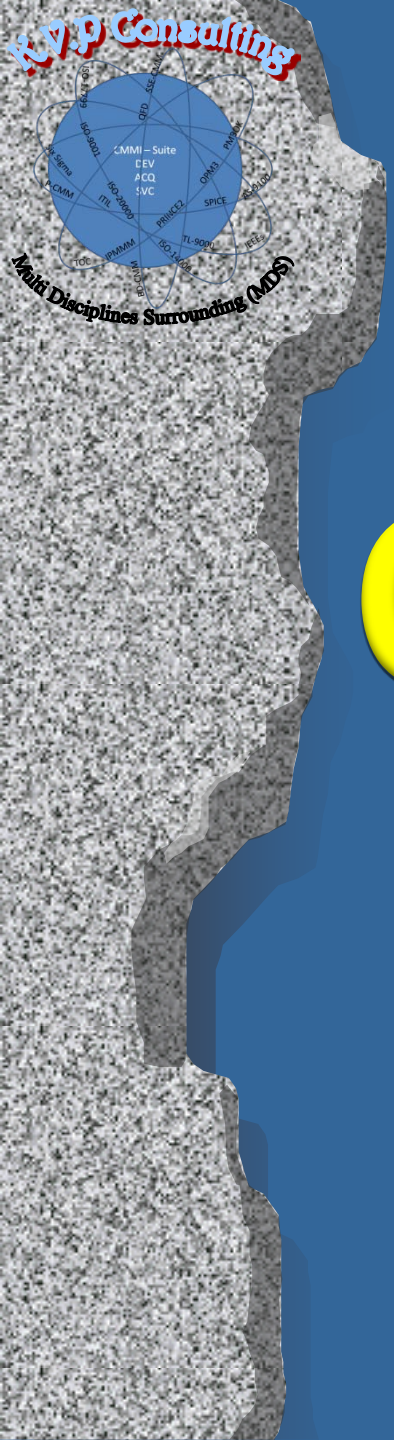


# Manage Measures

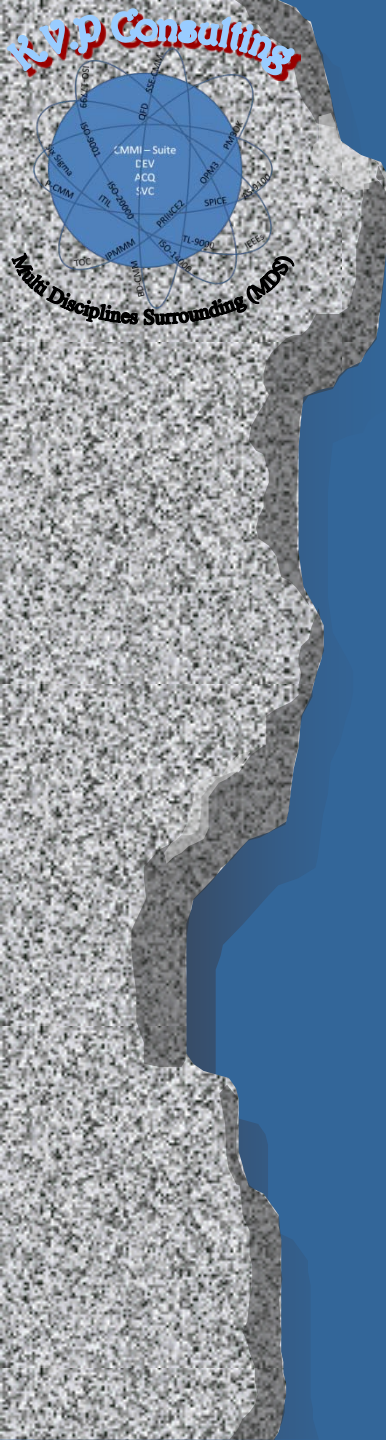


Microsoft Excel  
Worksheet





# Questions ?



# Contact

Kobi Vider

K.V.P Consulting

[Kobi.Vider@hotmail.com](mailto:Kobi.Vider@hotmail.com)

Phone: +972522946676