

# Assessment Plan

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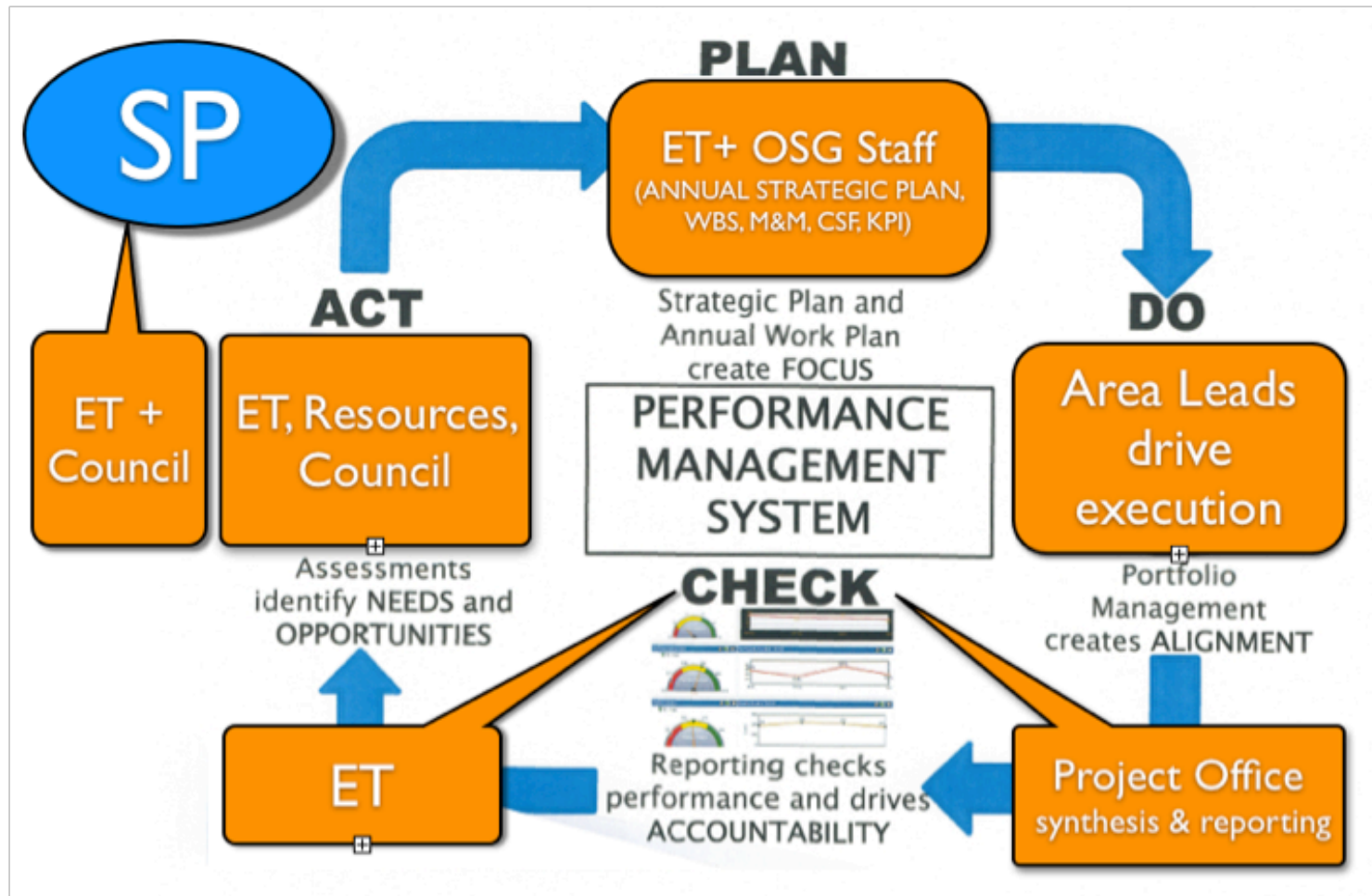
# Assessment Plan and OSG Strategic Objectives

- At OSG council meeting in May we discussed a framework for measuring progress against strategic objectives
- Those objectives would be described in an (as yet to be defined) OSG strategic plan
- Draw on OSG' proposoal and blueprint documents describe the vision
- And the WVBS which define area tasks and roughly serves to define goals

# Assessment Context

- Assessment has to be done within the overall project management framework in OSG
- Based on Plan, Do, Check, Act (PDCA), borrowed from NEESGrid project management team
- The Assessment project has responsibility to make sure all tasks and individual goals within each of the Areas have well-defined relationships to OSG strategic goals
- This includes metrics, targets, and trip points for risk assessment
- Assessment helps define these with the Area leads
- Assessment aggregates and helps the executive team review these (i.e. the “Check”) using various tools and view

# PDCA applied to OSG

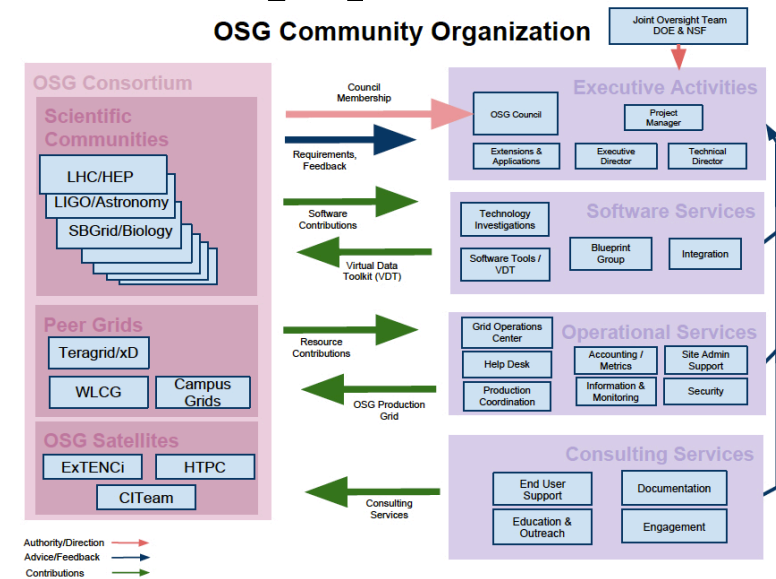


# Scorecard Prototype

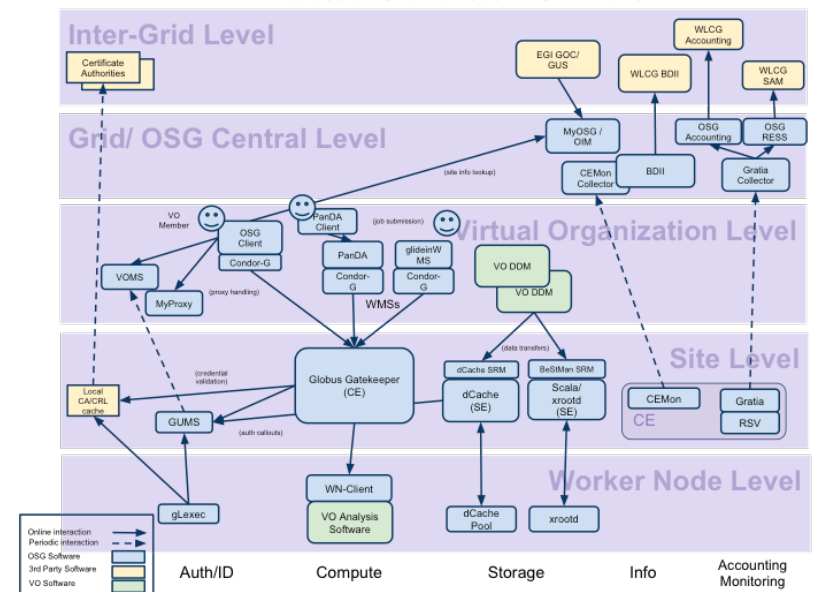
## sources

- Metrics report 2009 (OSG Year 3)
- OSG WBS
- OSG prime proposal
- OSG blueprint
- towards a set of strategic objectives

## OSG Community Organization



## Production Grid Functional Schematic



# OSG BSC Prototyping

## OSG-BSC-VI

OSG BALANCED SCORECARD												MEETS OR EXCEEDS		
BSC-Prototype												OPERATIONAL RISK		
												COMPLETE		
GOAL AREA	GOAL OWNERS	METRICS	METRICS UNIT	METRICS OWNER	COMMUNITY STAKEHOLDERS	STRATEGIC COLLECTIVE	W KEY	Y1Q1 ACT	Y1Q2 ACT	Y1Q3 ACT	Y1Q4 ACT	Y1 TARGET	Y2 TARGET	PERFORMANCE
VISION: DISTRIBUTED HIGH THROUGHPUT COMPUTING	ET	# OSG US CYBER ENDPOINTS												
		OSG US CYBER CPU CAPACITY SERVED	CPU-HR											
		OSG US CYBER STORAGE SERVED	TB											
		OSG US CYBER CPU FRACTION	%											
		# OSG SITES (TOTAL)												
		# OSG SITES (CLIENT)												
		# OSG SITES (STORAGE)												
		# OSG SITES (CE)												
		# OSG CE ENDPOINTS												
		# OSG SE ENDPOINT												
		# OSG CACHE ENDPOINTS												
		# OSG UNIVERSITIES												
		# OSG LABORATORIES												
		# OSG REGIONAL GRIDS												
		# OSG INTERNATIONAL SITES												
		# OSG INTEROPERATING GRIDS												
FACILITY	AL	# OSG CAMPUS GRIDS												
		# OSG CLOUD ENDPOINTS (RESEARCH)												
		# OSG CLOUD ENDPOINTS (COMMERCIAL)												
		# OSG CLOUD GATEWAYS												
		CPU CAPACITY SERVED (TOTAL)	CPU-HR											
		CPU CAPACITY SERVED (DEDICATED)	CPU-HR											
		CPU CAPACITY SERVED (SHARED-OPP)	CPU-HR											
		CPU UTILIZATION (TOTAL)												
		CPU UTILIZATION (DEDICATED)												
		CPU UTILIZATION (SHARED-OPP)												
FACILITY	AL	STORAGE CAPACITY SERVED (TOTAL)	TB											
		STORAGE CAPACITY SERVED (DEDICATED)	TB											
		STORAGE CAPACITY SERVED (SHARED-OPP)	TB											
		STORAGE CAPACITY SERVED (CACHED-OPP)	TB											



# Assessmet Project Process

- Help with defining the OSG Strategic plan (since this is required for a context)
- Help the ET and Area leads define measureable goals and identify high impact milestones
- Work with Area leads to define detailed metrics that are natural within their work areas
- Work with Area leads and others on a collection system



# With Area Leads

- How do the tasks defined in your WBS relate to OSG strategic goals? Which goals specifically?
- What are the best measures of progress towards those goals?
- Who is the stakeholder(s)?
- What are the associated quarterly targets?
- What is the target for the year? (Previous year, if available/appropriate)
- At any given time, what defines for a metric:
  - On track: meets or exceeds goal
  - Behind: therefore at risk for meeting goal
  - Complete: work has been completed
  - (these will be color-coded for at-a-glance views)

Area (Owner)

# Operations Assessment

Community/Stakeholder

define associated target

## 1.2 Operations (P&Q)

### 1.2.1 Support LHC

1.2.1.1 Provide Issue Management for WLCG - Metrics = Daily WLCG Operations Call Attendance, Response Time to GGUS Tickets

1.2.1.2 Publish Availability and Reliability Results - Metrics = Fix Requests for USLHC Stakeholders

1.2.1.3 Maintain the relationship with WLCG operations entities - Metric = Face to Face and Phone Meetings Held, Joint Projects

### 1.2.2 Routine Process Execution

1.2.2.1 Operate OSG Services at levels that meet the SLAs - Metric = Number of times exception to SLA is experienced.

1.2.2.2 Communication of Operational Issues to OSG Community - Metric = Weekly OSG Operations and Change Management Meeting Attendance

1.2.2.3 Notification of events for Core and Support Services - Metric = Number of Community Notices

1.2.2.4 Maintain 24x7 phone, email, and web support for trouble ticket submission - Metric = Number of tickets attempted and unsuccessful, Number of Issues Addressed After Hours

identify SOs (strategic objective)  
key in BSC

### 1.2.3 Ticket Handling

1.2.3.1 Ticket Troubleshooting and Routing - Metric = Number of Tickets, Average Age of Tickets

1.2.3.2 Ticket Exchange Services with Stakeholders - Metric = Number of Reported Failures, New Stakeholders Connected

1.2.3.3 Provide 24x7 Support for Security - Metric = Number of Incidents, Numbers of After Hours Incidents

### 1.2.4 Introduce New Services to Operational Infrastructure

1.2.4.1 Create SLAs for New Services - Metric = Ratio of New Services Introduced to SLAs Completed

1.2.4.2 Evaluate New Service Technologies - Metric = TBD

### 1.2.5 Provide OSG internal metrics on operations

1.2.5.1 Availability and Reliability - Metric = These are already collected in MyOSG and Published in the SLAs

1.2.5.2 Ticket Handling - Metric = Start with: <https://twiki.grid.iu.edu/bin/view/Operations/June11TicketMetrics>

associate with SO; define target

Report actuals (quarterly, annual)

# Operations Score Card

## (Example)

OSG BALANCED SCORECARD												BSC-Prototype		MEETS OR EXCEEDS	
														OPERATIONAL RISK	
														COMPLETE	
GOAL AREA	GOAL OWNERS	METRICS	METRICS UNIT	METRICS OWNER	COMMUNITY STAKEHOLDER	STRATEGIC OBJECTIVE	WBS KEY	Y1Q1 ACT	Y1Q2 ACT	Y1Q3 ACT	Y1Q4 ACT	Y1 TARGET	Y2 TARGET	PERFORMANCE	
PRODUCTION	RQ	GGUS RESPONSE TIME	% >DAY	RQ	USLHC	TBD	1.2.1	10	5	1	1	5	10		
		WLCG OPS CALL %	%	RQ	USLHC	TBD	1.2.1	85	100	95	100	100	100		
		WLCG OPS RELATIONSHIP ACTIVITIES	#	RQ	USLHC	TBD	1.2.1	2	1	4	3	15	15		
		OPERATIONAL SERVICES SLA EXCEPTIONS	#	RQ	ALL	TBD	1.2.2	0	0	2	1	5	5		
		OPS MEETING ATTENDANCE	%	RQ	ALL	TBD	1.2.2	50	70	60	90	90	90		
		GOODNESS METRIC TROUBLE TICKET CLOSURE	0-1	RQ	ALL	TBD	1.2.2	0.5	0.7	0.8	0.65	0.9	0.9		
		GOODNESS METRIC TT SERVICES	%	RQ	ALL	TBD	1.2.2	95	90	95	99	95	95		
		GOODNESS METRIC NEW TECHNOLOGIES	0-1	RQ	CAMPUS GRIDS	TBD	1.2.4	NA	0.7	0.8	NA	0.95	0.095		
		RELIABILITY, AVAILABILITY INFRASTRUCTURE UT	%	RQ	OPS/USLHC/ALL	TBD	1.2.5	98	99	99	95	99	99		

# Assessment Tasks

- Quarter 1:
  - Get first round metrics defined for two areas based on WBS and meetings with Area leads
  - Review and approval by OSG project management team; recaste as necessary
  - Approval and buy-in on templates, aggregation, review by AL and ET
  - First tests of aggregation and reporting process (simple dashboard spreadsheet)
- Quarter 2:
  - Continue metrics, KPI with remaining area leads
  - Begin formal reviews during area coordinator meetings
  - Provide updates to ET as they occur
- Quarter 3:
  - Refine aggregation processes and metrics definitions (measureables, targets, trip points)
  - Continue reviews of progress during area coordinators meetings
- Quarter 4:
  - Incorporate changes to collected metrics and dashboard based on OSG strategic planning