

OSCIO IT Analysis for DEQ

Oregon State Chief Information Office



IT Industry Observations

- There is a high demand on IT organizations today to deliver value added IT services (less focus on utility services)
- Improvement and optimization (maturity) of an IT organization's operations is an ongoing work in progress and needs to be apart of an ongoing strategy.
 - Alignment of information technology efforts to business needs.
 - Efficient IT services with guaranteed quality
 - IT and business accountability



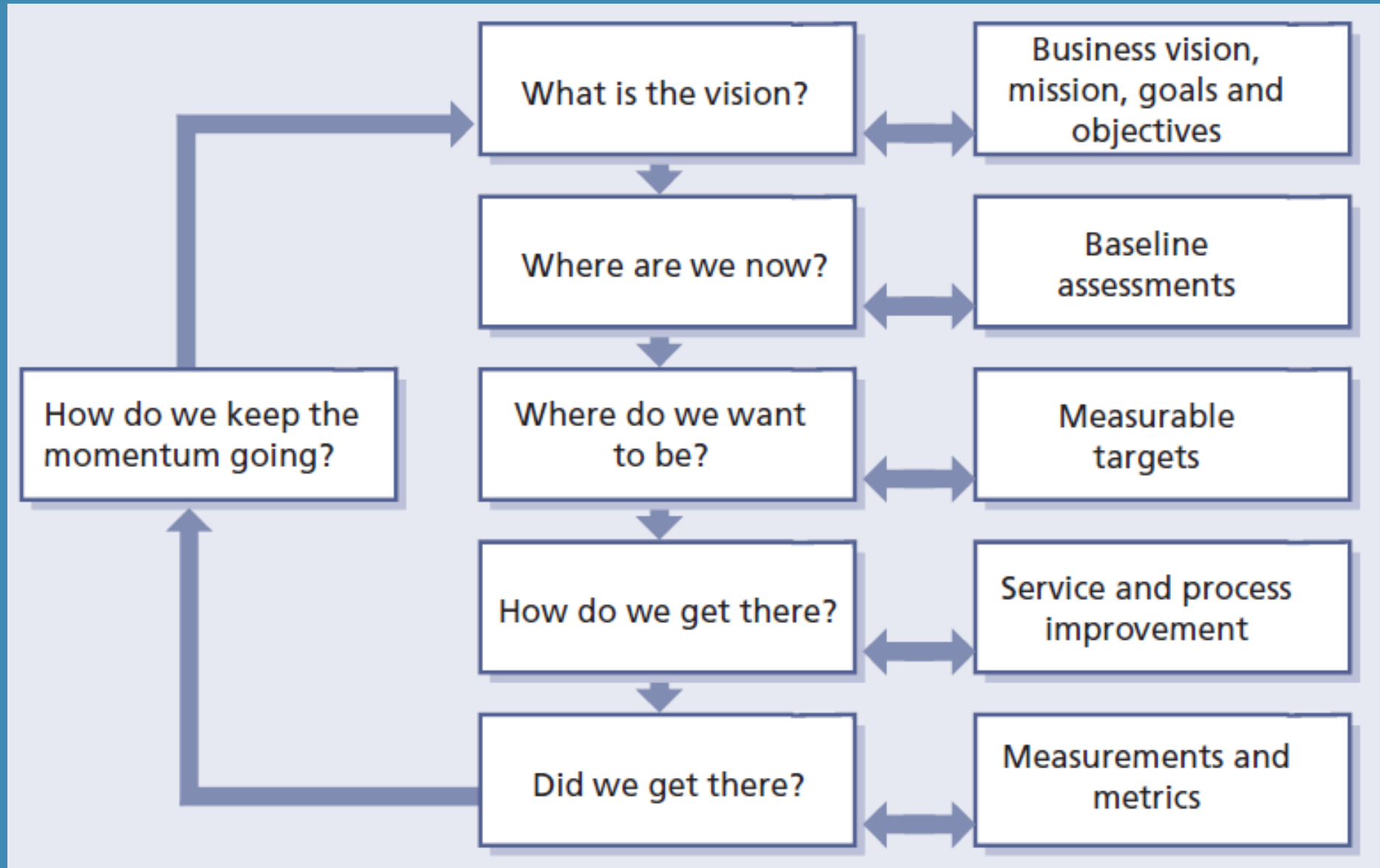


IT Maturity

- The degree to which an organization makes use of IT resources is a measure of its IT maturity.
- There are several IT maturity frameworks available to assess and guide an organizations maturity.
 - Information Technology Infrastructure Library (ITIL)
 - Gartner Enterprise Maturity Model
 - Capability Maturity Model Integration (CMMI)
 - IT Capability Maturity Framework (IT-CMF)



ITIL Continual Service Improvement

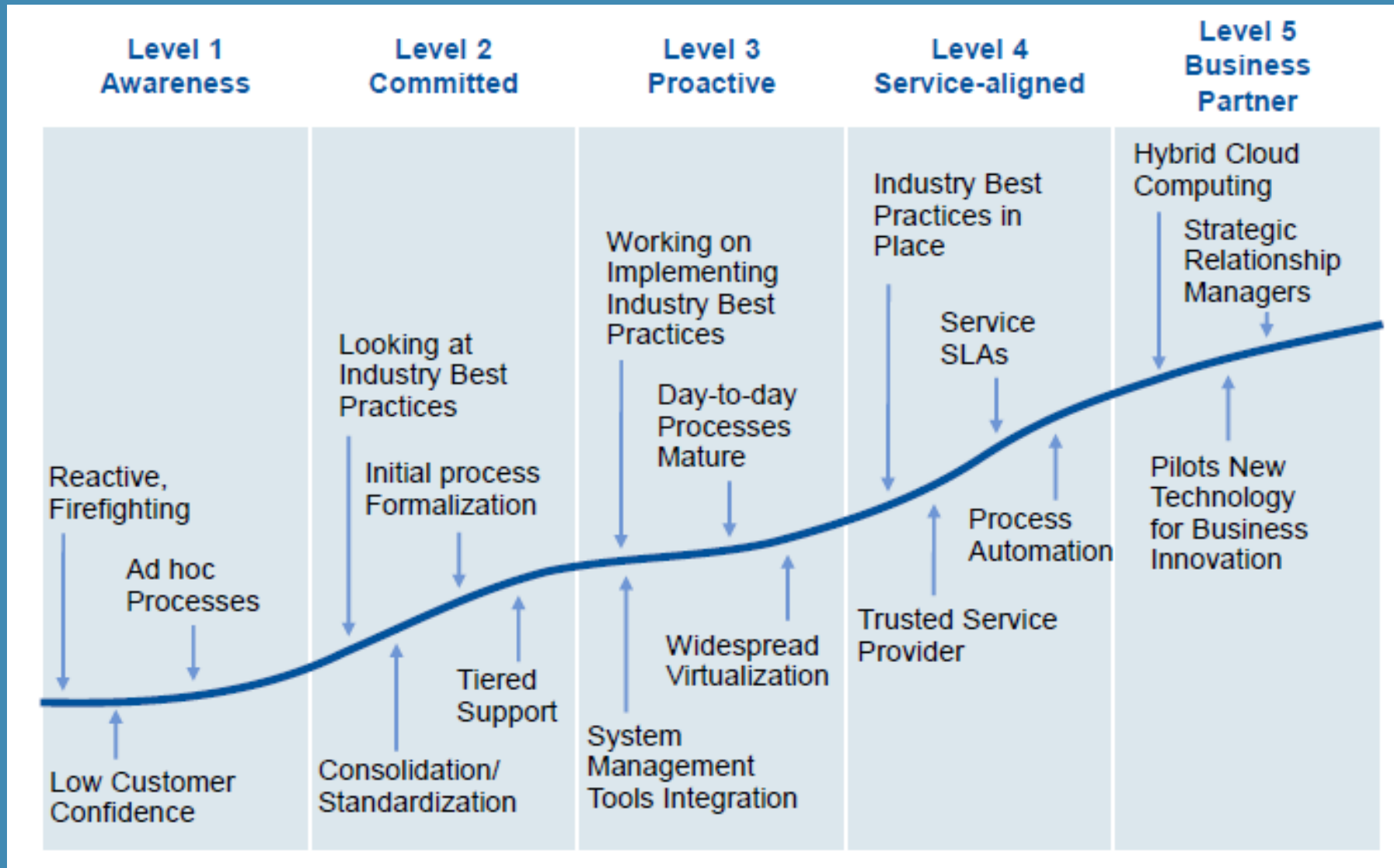


Gartner Maturity Model

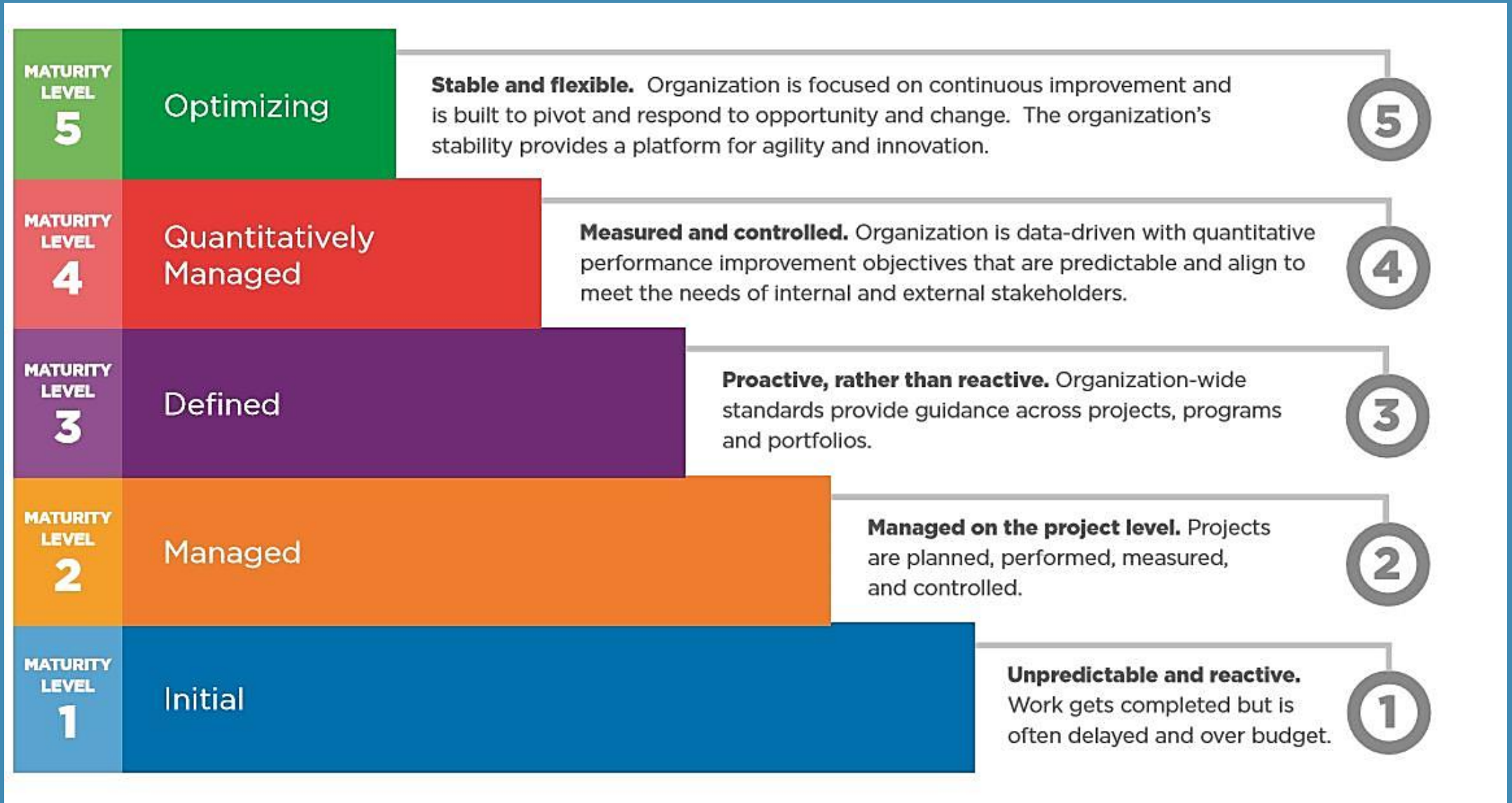
- Strategy and Vision
- Executive Leadership
- Business Mindset Toward IT
- Business and Financial Management
- People and Skills Management
- Technology Leadership and Management
- Performance Management



Gartner Maturity Model



Capability Maturity Model



IT Capability Maturity Framework

Managing IT like a Business

- AA Accounting and Allocation
- BP Business Planning
- BPM Business Process Management
- CFP Capacity Forecasting and Planning
- DSM Demand and Supply Management
- EIM Enterprise Information Management
- GIT Green IT
- IM Innovation Management
- ITG IT Leadership and Governance
- ODP Organization Design and Planning
- RM Risk Management
- SAI Service Analytics and Intelligence
- SRC Sourcing
- SP Strategic Planning

Managing the IT Budget

- BGM Budget Management
- BOP Budget Oversight and Performance Analysis
- FF Funding and Financing
- PPP Portfolio Planning and Prioritization

Managing the IT Capability

- CAM Capability Assessment Management
- EAM Enterprise Architecture Management
- ISM Information Security Management
- KAM Knowledge Asset Management
- PAM People Asset Management
- PDP Personal Data Protection
- PPM Programme and Project Management
- REM Relationship Management
- RDE Research, Development and Engineering
- SRP Service Provisioning
- SD Solutions Delivery
- SUM Supplier Management
- TIM Technical Infrastructure Management
- UED User Experience Design
- UTM User Training Management

Managing IT for Business Value

- BAR Benefits Assessment and Realization
- PM Portfolio Management
- TCO Total Cost of Ownership

General Maturity Issues

- IT solutions that aren't responsive to customer, management and staff needs.
- Inadequate "future-readiness" (e.g. staff that aren't equipped to work with new, innovative technologies).
- Inability to make informed IT budgeting decisions.
- Lack of contingency planning and disaster recovery options (e.g. backup, data recovery, automatic fall over).
- Risk factors associated with business-IT integration.
- Inability to accurately evaluate how IT is contributing to the organization's goals.



Current State of DEQ IT

- Very operational and reactionary - not able to be forward thinking
- Not viewed as strategic partner that is aligned with the business (cost center)
- Not positioned to provide business transformational initiatives
- IT Governance is siloes within each program (low effectiveness)
- Not using industry best practices (system documentation, legacy applications and infrastructure, policies, budget management, service level agreements)
- No operational, tactical, or strategic planning
- No IT security program or dedicated resources (staff wear multiple hats) and needing a security audit/assessment



Important Factors

- Without agency leadership and commission commitment to IT value management, these issues will go unanswered, to the detriment of the organization.
- IT has the power to be an important center of innovation, value and efficiency gains.
- Need a strong commitment to better IT value management, **IT can become enormously efficient and effective.**
- Combining technically sound solutions with a focus on user and business needs, IT can become a **leading engine of improvement** for any organization.



Recommended Approach

- DEQ needs to develop –
 - Information Resource Management Strategic Plan with current state analysis
 - IT Tactical Plan with Resource Plan (project portfolio)
 - IT Operational Plan with Resource Plan
 - IT Governance – IT business alignment and strategic partnership



Planning Approach

- Leverage Natural Resource IRM Strategic Plan
 - The approach is to mature the agency IT around core competencies.
 - Obtain business and IT input on problems, solutions & buy in.
 - Short Plan duration - 2-3 years
 - Aligns to EDMS Project & SB90 on Cyber Security Unification.
 - In two years IT should be more mature - ability to be more agile and focus on advancing the business.



Planning Approach

- Tactical and operational planning –
 - Is IT working on the right things with the resource's that it has?
 - Do they have enough resources?
 - Can their performance be measured?
 - IT and the business accountability!
 - Focus on long term value in IT Vs. a Cost center

