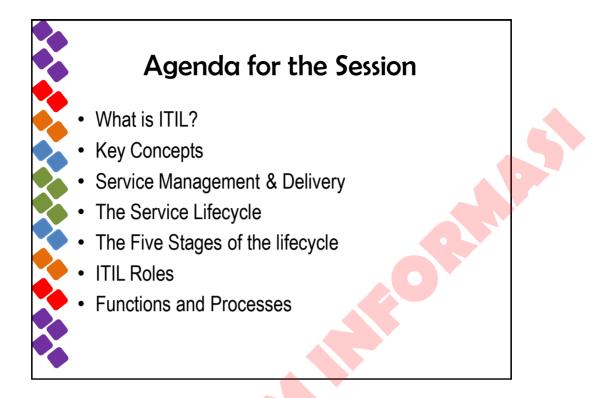
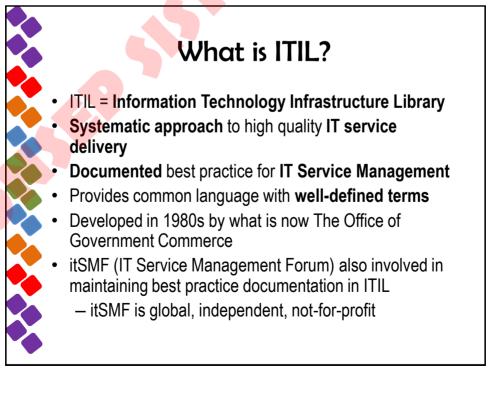




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Key Concepts

Service

- Delivers value to customer by facilitating outcomes customers want to achieve without ownership of the specific costs and risks
- e.g. The HFS backup service means that you as Unit ITSS don't have to care about how much tapes, disks or robots cost and you don't have to worry if one of the HFS staff is off sick or leaves

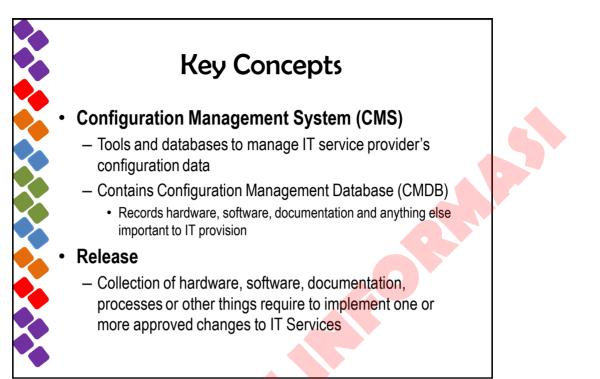
Key Concepts

Service Level

- Measured and reported achievement against one or more service level targets
- E.g.
 - Red = 1 hour response 24/7
 - Amber = 4 hour response 8/5
 - Green = Next business day

• Service Level Agreement (SLA)

 Written and negotiated agreement between Service Provider and Customer documenting agreed service levels and costs



Key Concepts

Incident

 Unplanned interruption to an IT service or an unplanned reduction in its quality

Work-around

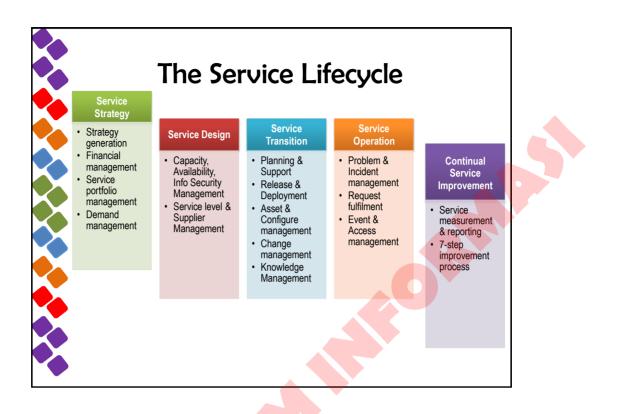
- Reducing or eliminating the impact of an incident without resolving it
- Problem
 - Unknown underlying cause of one or more incidents

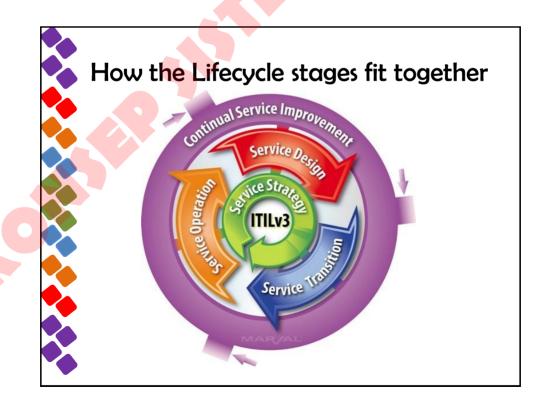
4 Ps of Service Management

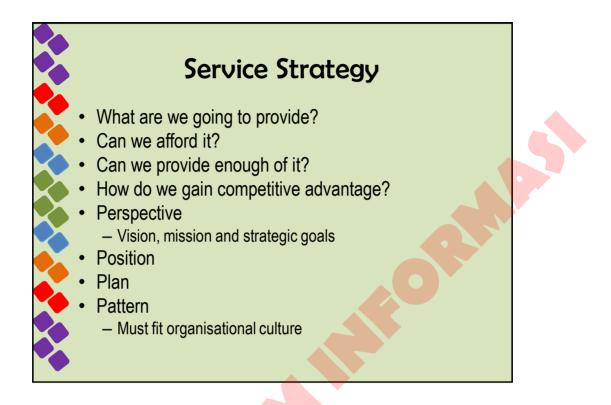
- People skills, training, communication
- **Processes** actions, activities, changes, goals
- **Products** tools, monitor, measure, improve
- Partners specialist suppliers

Service Delivery Strategies

Strategy	Features
In-sourcing	All parts internal
Out-sourcing	External resources for specific and defined areas (e.g. Contract cleaners)
Co-Sourcing	Mixture of internal and external resources
Knowledge Process Outsourcing (domain-based business expertise)	Outsourcing of particular processes, with additional expertise from provider
Application Outsourcing	External hosting on shared computers – applications on demand (e.g. Survey Monkey, Meet-o-matic)
Business Process Outsourcing	Outsourcing of specific processes e.g. HR, Library Circulation, Payroll
Partnership/Multi-sourcing	Sharing service provision over the lifecycle with two or more organisations (e.g. Shared IT Corpus/Oriel)









Service Assets

• Resources

- Things you buy or pay for
- IT Infrastructure, people, money
- Tangible Assets
- Capabilities
 - Things you grow
 - Ability to carry out an activity
 - Intangible assets
 - Transform resources into Services

Service Portfolio Management

- Prioritises and manages investments and resource allocation
- Proposed services are properly assessed

 Business Case
- Existing Services Assessed. Outcomes:
 - Replace
 - Rationalise
 - Renew
 - Retire



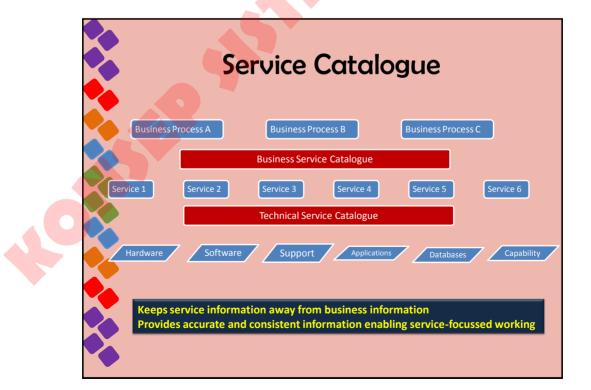
- Ensures we don't waste money with excess capacity
- Ensures we have enough capacity to meet demand at agreed quality
- Patterns of Business Activity to be considered – E.g. Economy 7 electricity, Congestion Charging

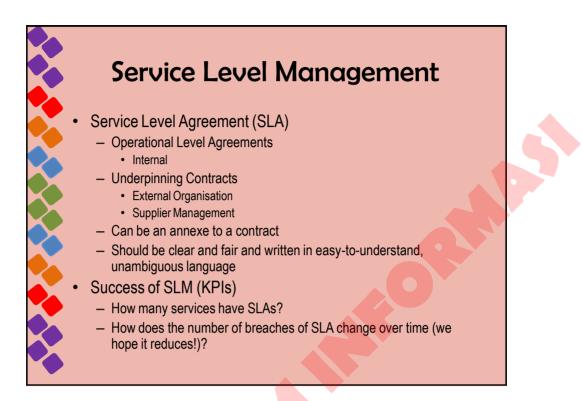
Service Design

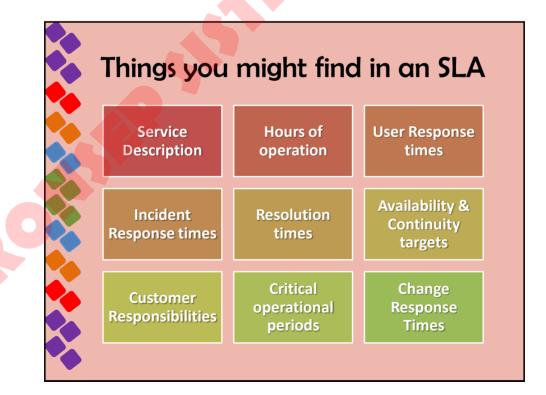
- How are we going to provide it?
- How are we going to build it?
- How are we going to test it?
- How are we going to deploy it?

Holistic approach to determine the impact of change introduction on the existing services and management processes

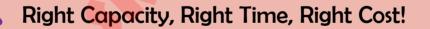










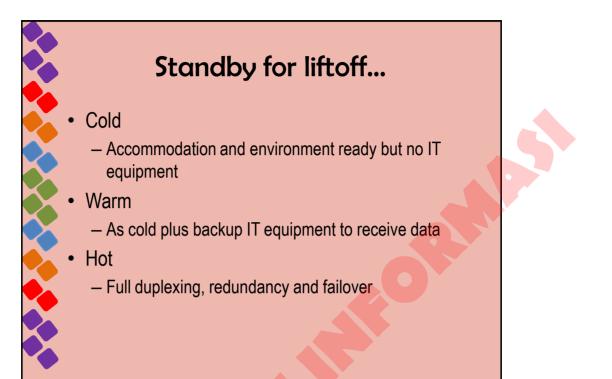


- This is capacity management
- Balances Cost against Capacity so minimises
 costs while maintaining quality of service



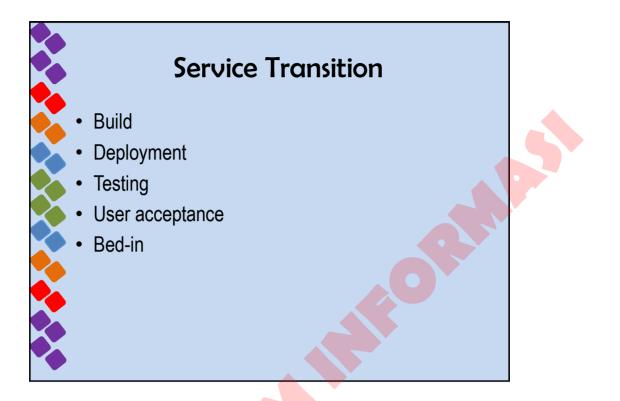
ITSCM - what?

- IT Service Continuity Management
- Ensures resumption of services within agreed timescale
- Business Impact Analysis informs decisions about resources
 - E.g. Stock Exchange can't afford 5 minutes downtime but 2 hours downtime probably wont badly affect a departmental accounts office or a college bursary



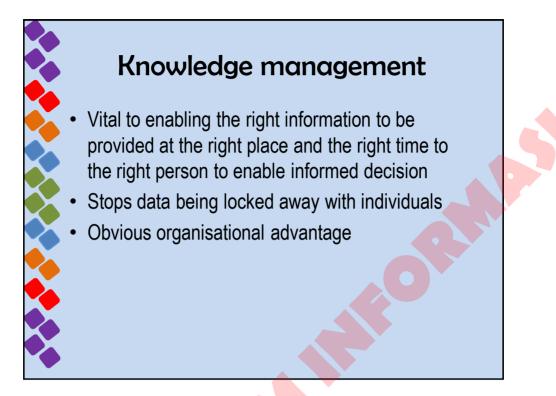
Information Security Management

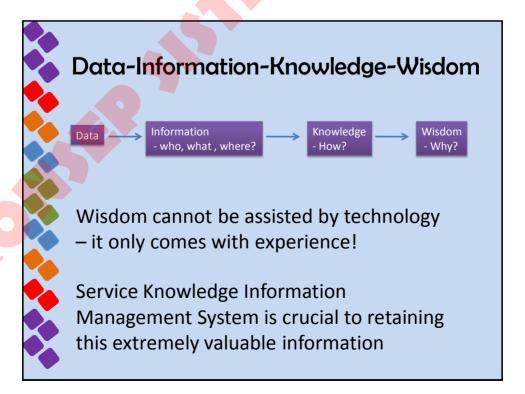
- Confidentiality
 - Making sure only those authorised can see data
- Integrity
 - Making sure the data is accurate and not corrupted
- Availability
 - Making sure data is supplied when it is requested

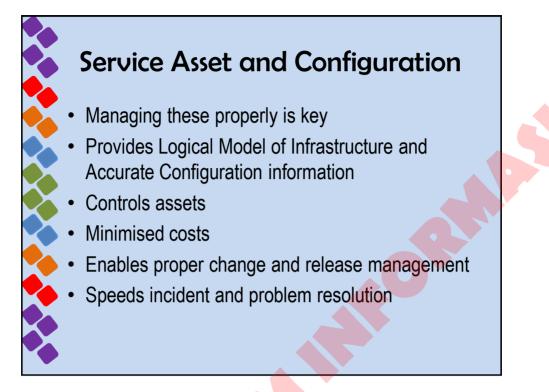


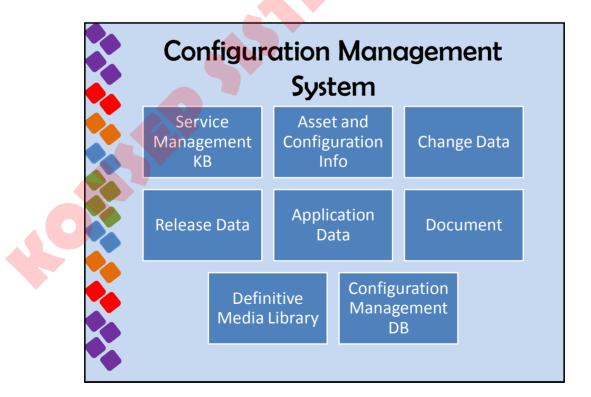
Good service transition

- Set customer expectations
- Enable release integration
- Reduce performance variation
- Document and reduce known errors
- Minimise risk
- Ensure proper use of services
- · Some things excluded
 - Swapping failed device
 - Adding new user
 - Installing standard software





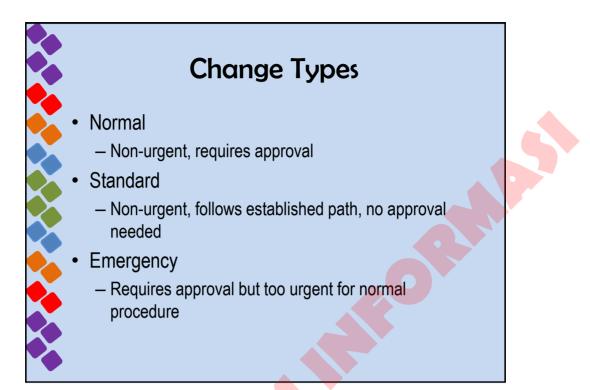


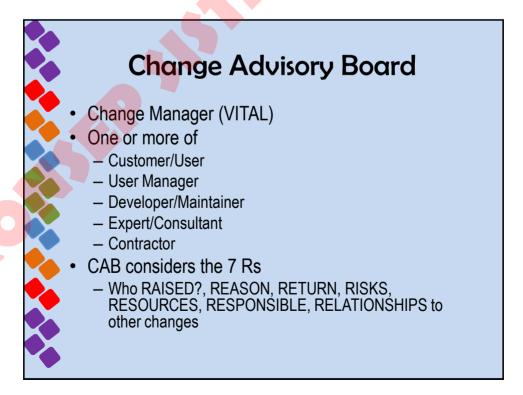


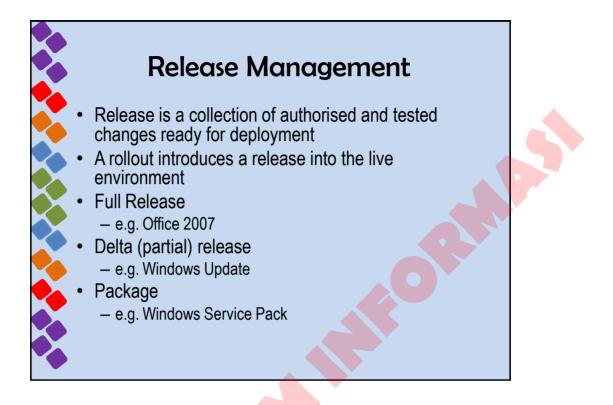


Change Management – or what we all get wrong!

- Respond to customers changing business
 requirements
 - Respond to business and IT requests for change that will align the services with the business needs
 - Roles
 - Change Manager
 - Change Authority
 - Change Advisory Board (CAB)
 - Emergency CAB (ECAB)
- 80% of service interruption is caused by operator error or poor change control (Gartner)







Phased or Big Bang?

- Phased release is less painful but more work
- Deploy can be manual or automatic
- Automatic can be push or pull
- Release Manager will produce a release policy
- Release MUST be tested and NOT by the developer or the change instigator

Service Operation

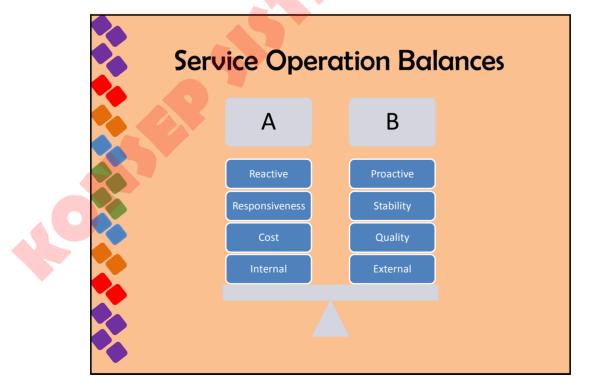
- Maintenance
- Management
- Realises Strategic Objectives and is where the Value is seen

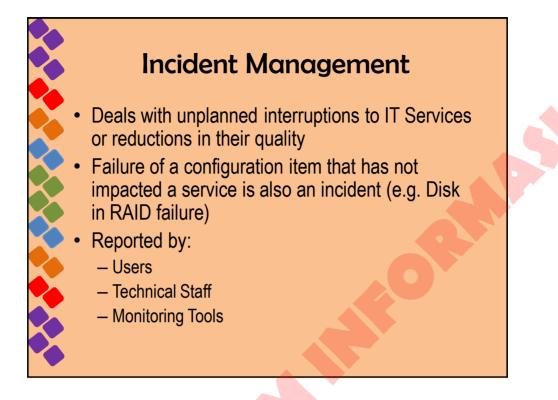
Processes in Service Operation

- Incident Management
- Problem Management
- Event Management
- Request Fulfilment
- Access Management

Functions in Service Operation

- Service Desk
- Technical Management
- IT Operations Management
- Applications Management





Event Management

- 3 Types of events
 - Information
 - Warning
 - Exception
- Can we give examples?
- Need to make sense of events and have appropriate control actions planned and documented

Request Fulfilment

- Information, advice or a standard change
- Should not be classed as Incidents or Changes
- Can we give more examples?

Problem Management

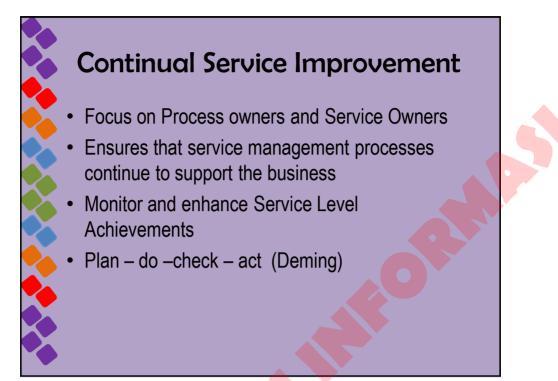
- Aims to prevent problems and resulting incidents
- Minimises impact of unavoidable incidents
- Eliminates recurring incidents
- Proactive Problem Management
 - Identifies areas of potential weakness
 - Identifies workarounds
- Reactive Problem Management
 - Indentifies underlying causes of incidents
 - Identifies changes to prevent recurrence

Access Management

- Right things for right users at right time
- Concepts
 - Access
 - Identity (Authentication, AuthN)
 - Rights (Authorisation, AuthZ)
 - Service Group
 - Directory

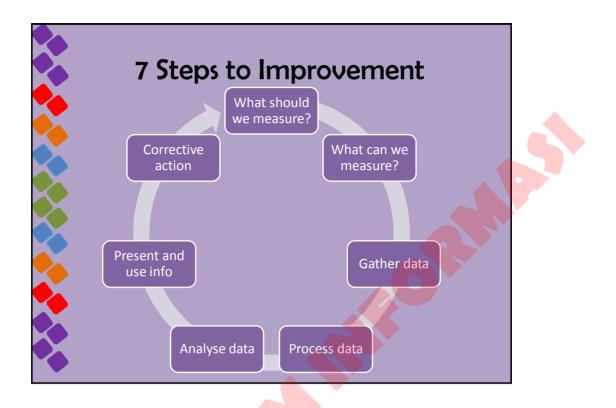
Service Desk

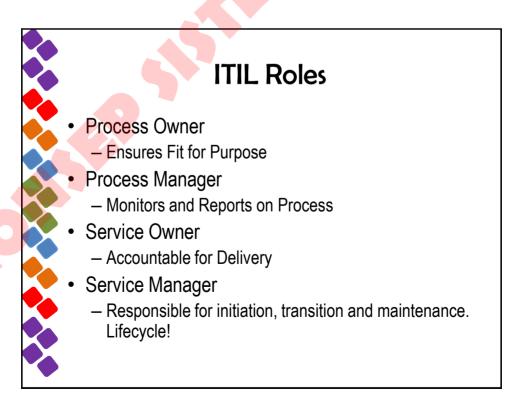
- Local, Central or Virtual
- Examples?
- Single point of contact
 - Skills for operators
 - Customer Focus
 - Articulate
 - Interpersonal Skills (patient!)
 - Understand Business
 - Methodical/Analytical
 - Technical knowledge
 - Multi-lingual
 - Service desk often seen as the bottom of the pile
 - Bust most visible to customers so important to get right!

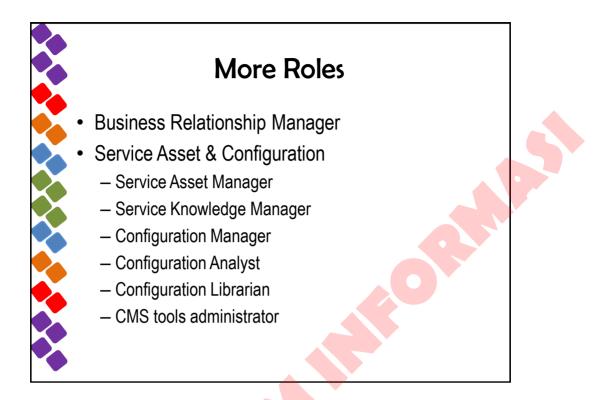


Service Measurement

- Technology (components, MTBF etc)
- Process (KPIs Critical Success Factors)
- Service (End-to end, e.g. Customer Satisfaction)
- Why?
 - Validation Soundness of decisions
 - Direction of future activities
 - Justify provide factual evidence
 - Intervene when changes or corrections are needed









- Process
 - Structured set of activities designed to accomplish a defined objective
 - Inputs & Outputs
 - Measurable
 - e.g. ??
- Function
 - Team or group of people and tools they use to carry out one or more processes or activities
 - Own practices and knowledge body
 - e.g. ??