

Business

Continuity Planning, A Must & On-going process

3rd E-Government Forum Information Management & Security

Agenda

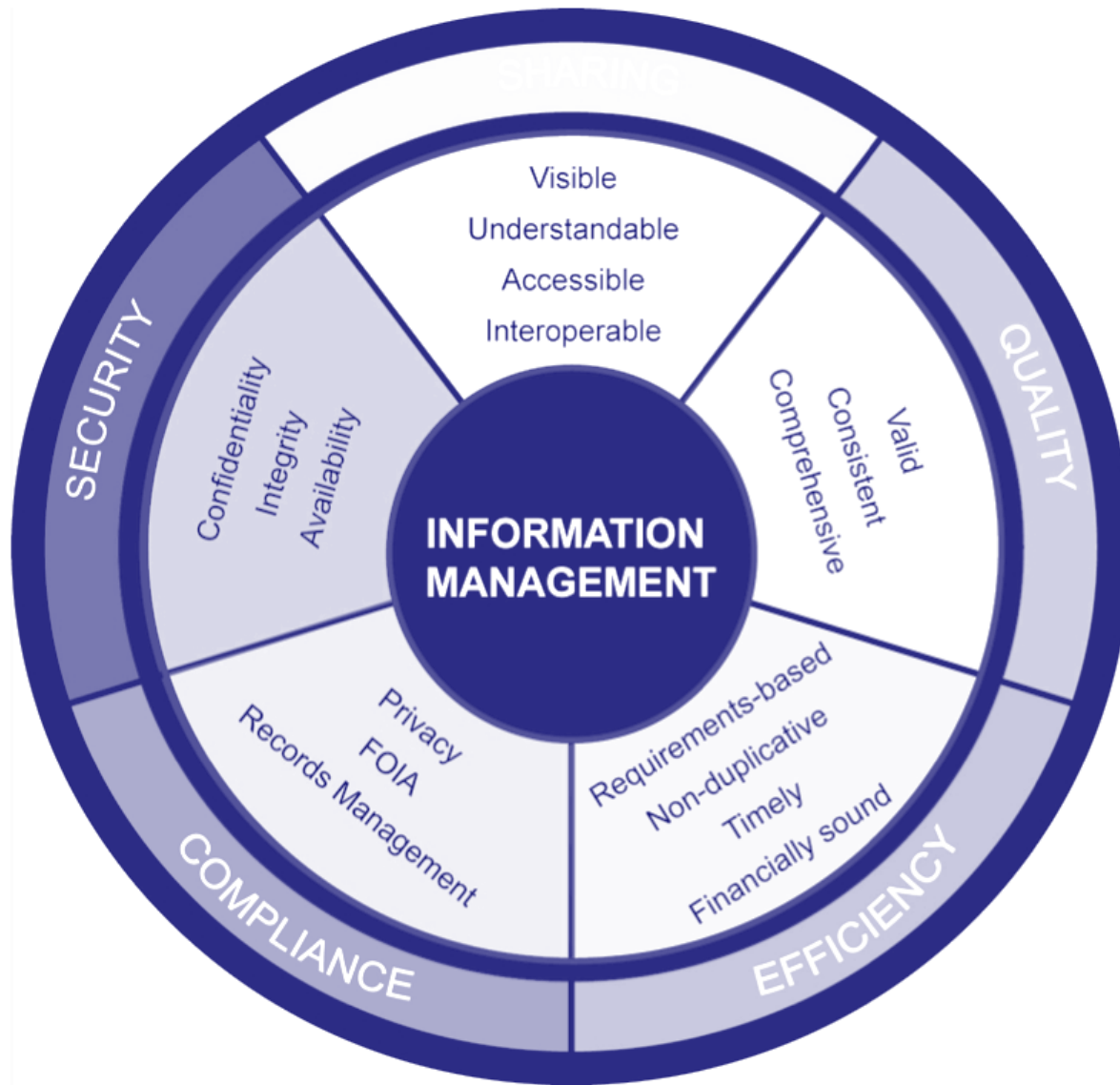
- Challenges e-Government is facing
- Information Management and Security
- Failure proof environments
- Business continuity and disaster recovery
- Data protection Technologies
- Enterprise resilience-related standards
- Business continuity planning

Challenges e-Government is facing

- E-government program maturity over the past years
- Increasing number of services and government entities to manage
- increasing Population's demand for electronic services
- G2G and G2C information and services exchange
- Transformation journey has started

The challenge of Information handling

- In order to Improve productivity, efficiency and effectiveness of services is being delivered and to address governmental entities needs and ends users during this Challenging transformation era
- Information management and security are a crucial areas to address.



Failure proof environment

- Types of failure
 - a) Equipment failure (such as disk crash).
 - b) Disruption of power supply or telecommunication.
 - c) Application failure or corruption of database.
 - d) Human error, sabotage or strike.
 - e) Malicious Software (Viruses, Worms, Trojan horses) attack.
 - f) Hacking or other Internet attacks.
 - g) Social unrest or terrorist attacks.
 - h) Fire
 - I) Natural disasters (Flood, Earthquake, Hurricanes)

What is Business continuity planning

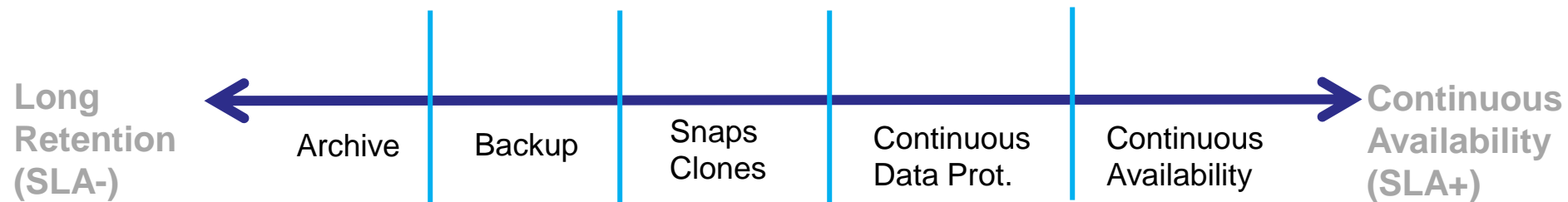
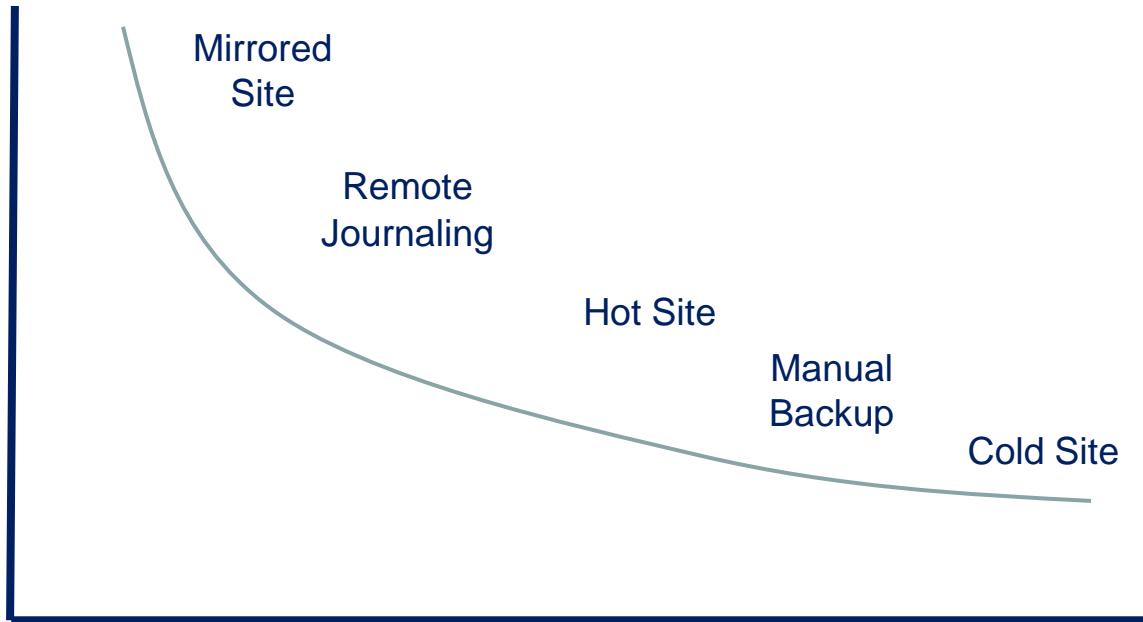


Business continuity and disaster recovery

According to SANS definition

- **Business Continuity** refers to the activities required to keep your organization running during a period of displacement or interruption of normal operation.
 - Whereas,
- **Disaster Recovery** is the process of rebuilding your operation or infrastructure after the disaster has passed.

Data Protection Technologies



High availability Vs. Continuous availability

High availability Vs. Continuous availability

Enterprise resilience-related standards

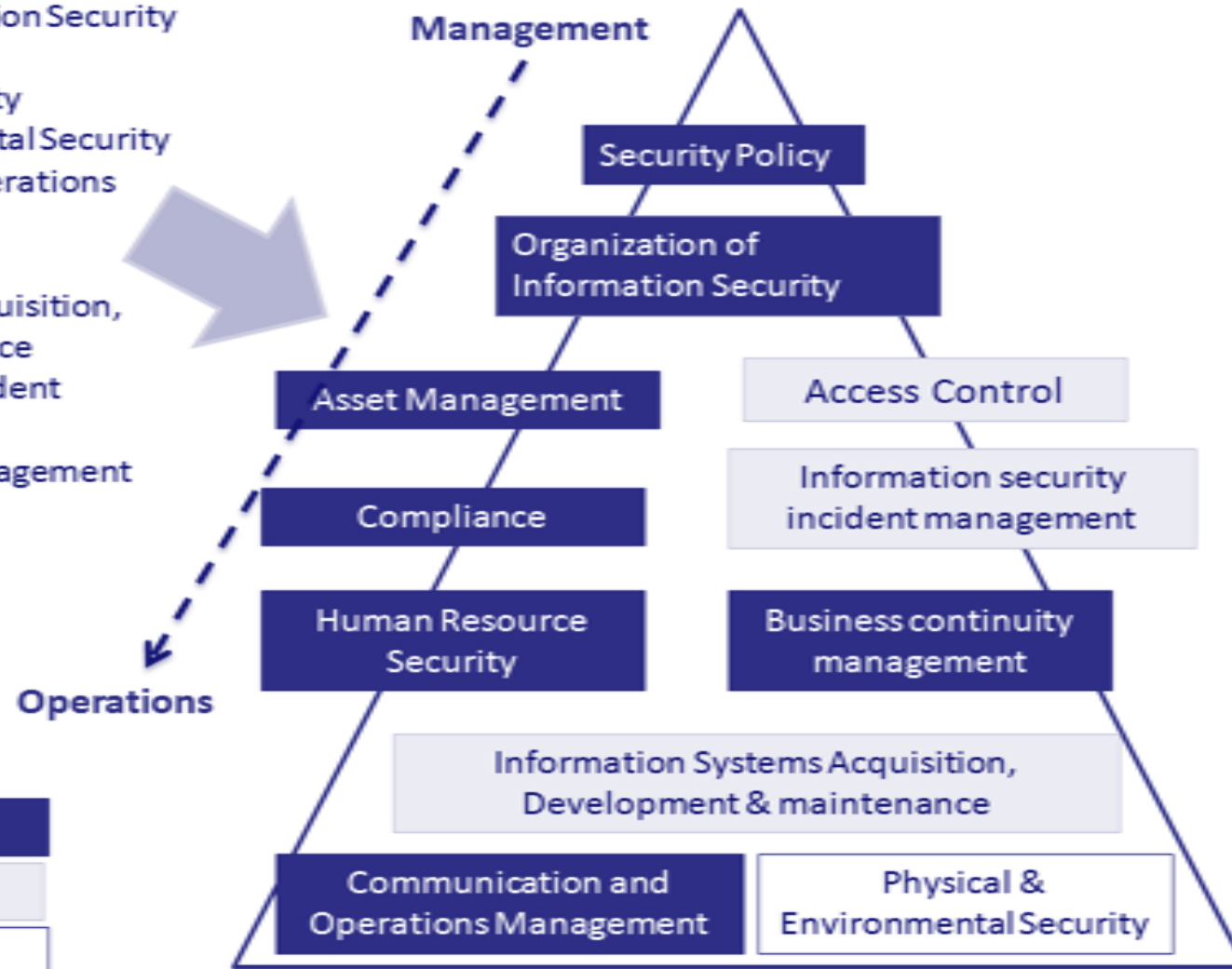
Towards more secure and resilient e-government

- **ISO 22301** Societal Security – Business Continuity Management Systems
- **ISO 27001** Information Security Management Systems
- **ISO 28000** Certification on Security Management Systems for Supply Chain
- **SS 584** Specification for Multi-tiered Cloud Computing Security

The 11 ISO/IEC 27001 Domains

- Security Policy
- Organization of Information Security
- Asset Management
- Human Resources Security
- Physical and Environmental Security
- Communications and operations management
- Access control
- Information Systems Acquisition, Development & maintenance
- Information security incident management
- Business Continuity Management
- Compliance

Organizational Structure



Legend:

Management Aspect
Technical Aspect
Physical Aspect

Re-Thinking Business continuity

Information security aspects of Business continuity

A cluster of white gears of various sizes is arranged on a light gray background. The gears are of different diameters and are interlocked, creating a sense of mechanical complexity and interconnectedness. The lighting is soft, highlighting the three-dimensional nature of the gears.

Business Continuity

Is Transforming

Business continuity plan

According to Business Continuity Institute's Glossary (BCI)

- “Business continuity plan is A collection of procedures and information which is compiled and maintained in readiness for use in the event of an emergency or disaster.”

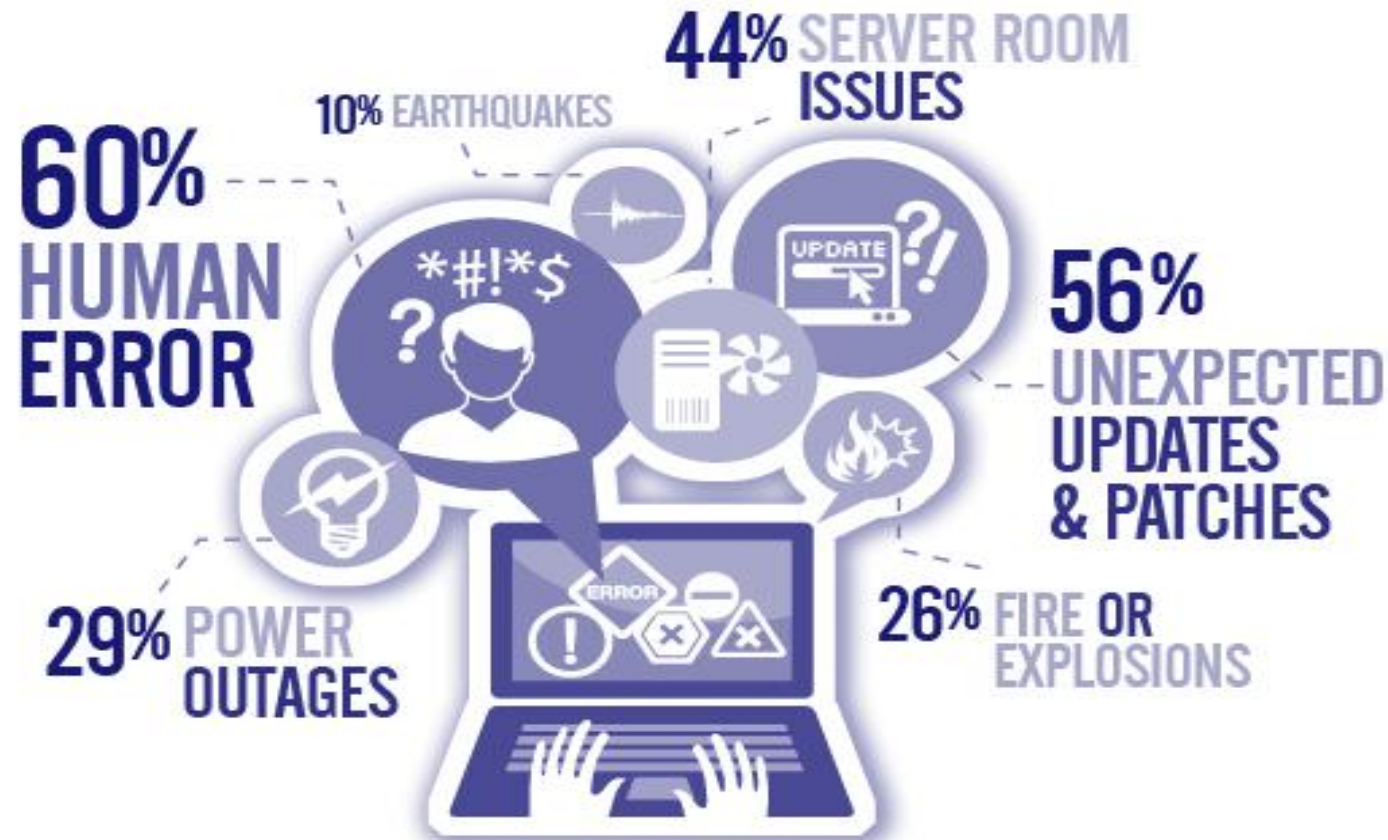
Why we need Business Continuity Plan?

Probability of disaster

- Basically the problem with probability is that it is based on subjective judgement and an analysis of the facts as we know them at that time
- This is why Information security and business continuity must merge



When to perform BCP



Who should participate in Business Continuity Planning?

How to prepare Business Continuity Plan?

Business Continuity Planning Phases

1. *Project Initiation*
2. *Business Analysis*
3. *Design and Development (Designing the Plan)*
4. *Implementation (Creating the Plan)*
5. *Testing*
6. *Maintenance (Updating the Plan)*

Business continuity prerequisites

- Availability of facility (floor space).
- Ability to maintain redundant equipment.
- Ability to maintain redundant network capacity.
- Relationships with vendors to provide immediate replacement or assistance.
- Adequacy of funding.
- Availability of skilled personnel

Business Continuity Management

- Business Continuity Management is vital, because failure to develop capability could have a devastating impact on the organization, but success in taking BCM into the board room and risk decision making can actually build a more resilient, more agile business.
- An incident can become a crisis, a crisis can become a catastrophe.

THANK YOU