



utilities helping utilities

MI WARN

Michigan Water/Wastewater Agency Response Network

Water and Wastewater Agency Response Network: An Update



MI WARN Website



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Active Emergencies

Join the MIWARN today to become a part of a statewide network of water and wastewater utilities for emergency response. Access to the "Members Only" area will be provided following review of registration information.



MiWARN Blog

Available in the "Members" area, current Blog topics include:

1. What website postings would be most useful to utilities?



Recovering from interruptions in service help protect your customers

What is a MiWARN?

MiWARN is a statewide Water/Wastewater Agency Response Network (WARN) of "utilities helping utilities" to prepare for the next natural or human-caused emergency. MIWARN provides utilities with a Mutual Aid Agreement for sharing resources in an emergency to a pre-determined and agreed manner.

Why do we need MiWARN?

Water and wastewater systems provide our communities with a life-sustaining resource that is of vital importance to maintaining public health, sanitation and safety. When water and wastewater services are

Mutual Aid Agreement

MICHIGAN WATER/WASTEWATER AGENCY RESPONSE NETWORK

Mutual Aid Assistance Agreement

RECITALS

WHEREAS, certain Michigan water and wastewater agencies (the Members) have Formed the "Michigan Water/Wastewater Agency Response Network, "(Michigan WARN or MI WARN), to share resources in the event of emergencies that disrupt utility services; and

WHEREAS, the Urban Cooperative Act of 1962, being MCL 124.501 et seq. (the "Act") permits public bodies and private entities to work together to provide mutual aid and assistance to both public and private water and wastewater utilities in need of emergency assistance caused by natural or man-made disasters.

WHEREAS, the Members have agreed to enter into this "Michigan Water/Wastewater Agency Response Network Mutual Aid Agreement." ("Agreement"), to describe the terms and conditions under which emergency assistance may be requested and provided , and

WHEREAS, by executing the Agreement, the Parties express their intent to participate in a program of Mutual Aid and Assistance within the State of Michigan.

NOW, THEREFORE, in consideration of the promises and the mutual undertaking s contained in the Agreement, the Members of the Michigan WARN, as agreed upon, and authorized by, their respective legislative authorities mutually agree as follows:

AGREEMENT

This Agreement is made and entered into by public and private water and wastewater Utilities that have, by executing this Agreement, manifested their intent to participate in an intrastate Program for Mutual Aid and Assistance.

ARTICLE 1. PURPOSE

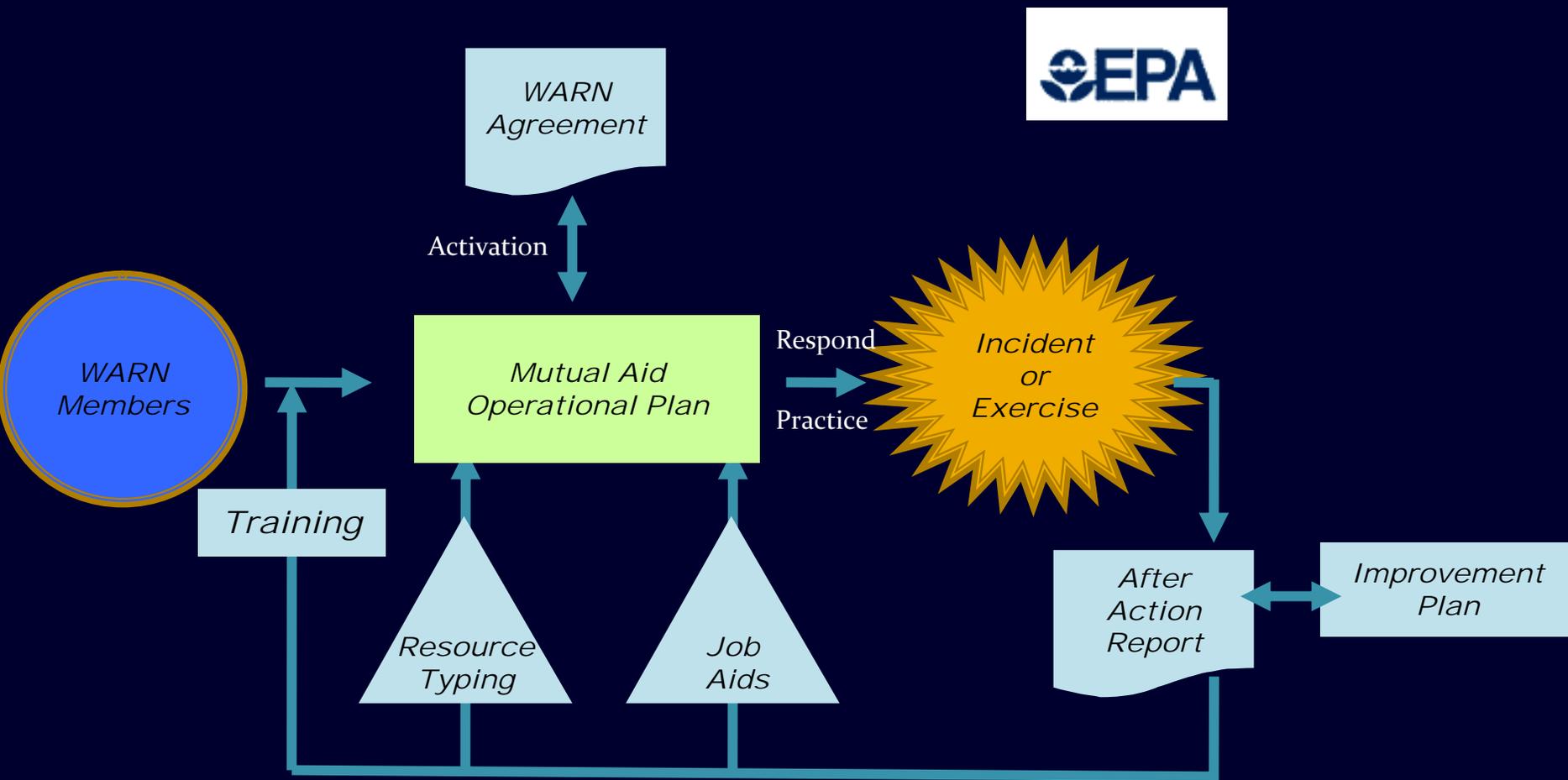
The Water/Wastewater Mutual Aid Program was established to provide a method whereby water/wastewater utilities sustaining physical damage from natural or man-made disasters could obtain emergency assistance in the form of personnel, equipment and materials and other associated services necessary , from other water/wastewater utilities .

	Article
I	Purpose
II	Definitions
III	Administration
IV	Procedures
V	Request for Assistance
VI	Responding Member Personnel
VII	Cost Reimbursement
VIII	Dispute Resolution
IX	Signatory Indemnification
X	Worker's Compensation Claims
XI	Notice of Claim
XII	Effective Date
XIII	Duration, Withdrawal, Termination
XIV	Modification
XV	Assignment of Rights/Duties
XVI	Prior Agreements
XVII	Prohibition of Third Parties
XVIII	Interstate/Intrastate Mutual Aid
XIX	Records, Documents & Sensitive Information
XX	Miscellaneous

Regional Approach



EPA WARN Program



Regulatory Framework

Protection

VULNERABILITY
ASSESSMENTS



CRITICAL
INFRASTRUCTURE
PROTECTION PLANS

Response

EMERGENCY
RESPONSE
PLANS



MUTUAL AID
AGREEMENTS

CONSEQUENCE
MANAGEMENT PLANS

Recovery

CONTINUITY
OF GOVERNMENT
PLANS



CONTINUITY
OF OPERATIONS
PLANS

Regulatory Authorities

Presidential Directive
HSPD 5 and 8
HSPD 7
HSPD 20

CIP
COOP
Department of
Homeland Security
- FEMA



CIP
COOP
Michigan State Police
- EMHS Division



CIP
MSP District
Coordinators



CIP
County/City
Emergency
Management
Coordinators



Environmental
Protection Agency
- Office of Water



Michigan Department
of Natural Resources
and the Environment



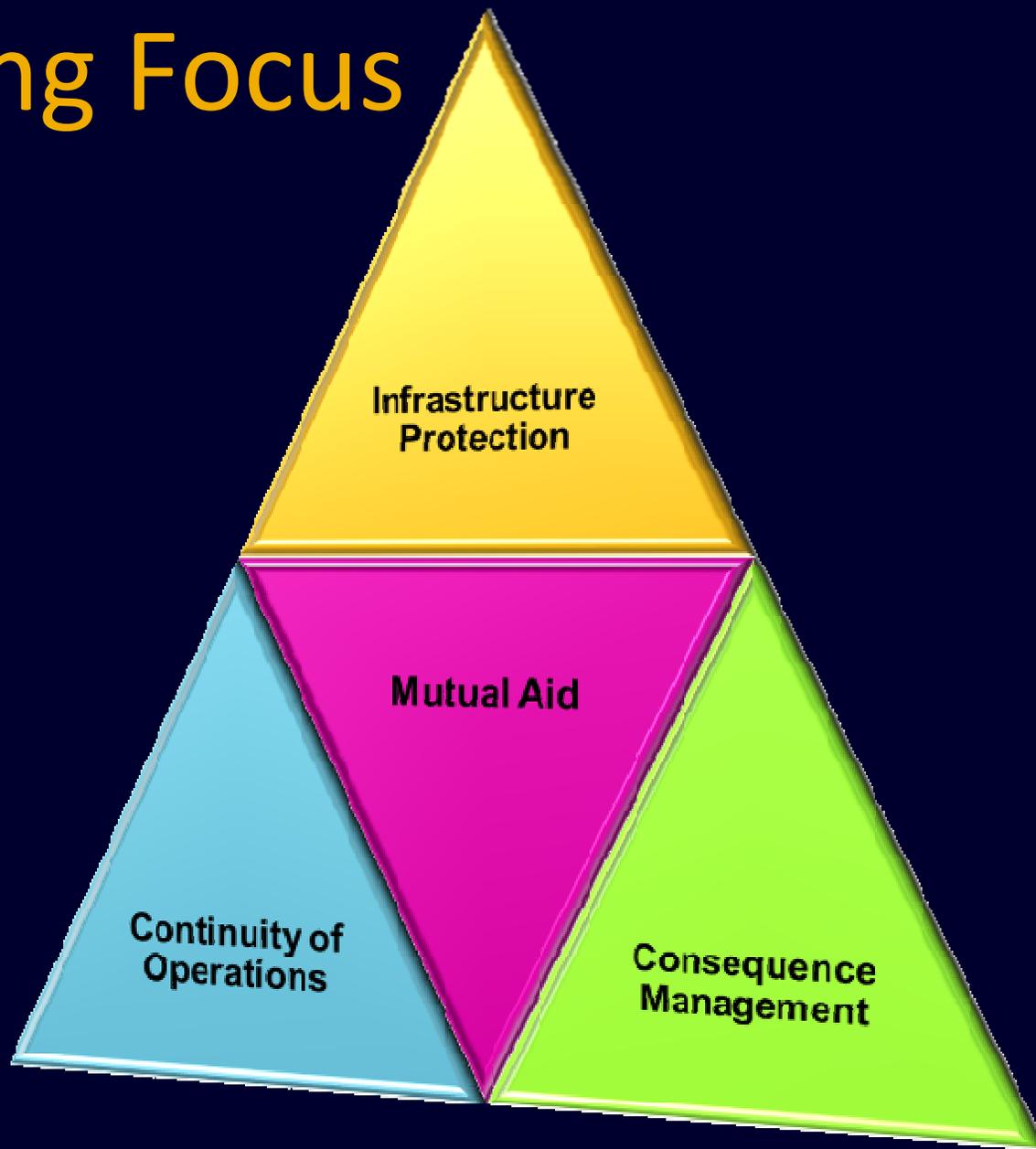
WATER / WASTEWATER UTILITIES

ERP-VA
MAA
CMP

ERP-VA
MAA
CMP

ERP-VA
MAA

Training Focus



Training Committee

Terry Biederman

Director of Public Works, Waterford Township
Co-Chair MI WARN

Mike Averill

Utility Operations Supervisor, City of Wyoming
Co-Chair MI WARN

Bob Babcock

Michigan Department of Natural Resources and Environment
Water Bureau Security and Emergency Response Coordinator

Randy Roost

Senior Water Planning Engineer, Lansing Board Water and Light
Michigan AWWA / Mi WARN Liaison

Tim Neumann,

Executive Director, Michigan Rural Water Association

Mike Kenel, PhD

Toxicologist/Homeland Security Specialist
Michigan State University Academic Advisor

Training Goals and Objectives

Course Modules: Introduction, CIP, CMP, COOP, Mutual Aid

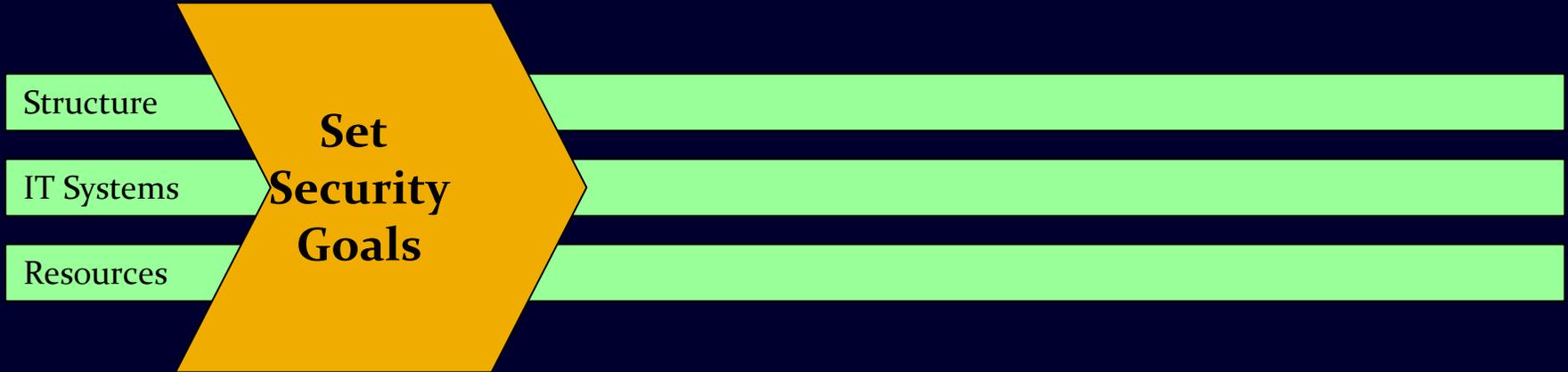
Strategic Goal: To have at least one person in each utility having an awareness of those security and emergency management plans intended to optimize water security

Intended Audience: All water and wastewater staff personnel are encouraged to take the courses

Course Objective: In providing an **overview** of state and federal plans, provide real-world water utility examples to enhance understanding :

Additional Questions: Contact – Mike Kenel, PhD, kenelmf@gmail.com
810-772-8793

Critical Infrastructure Protection



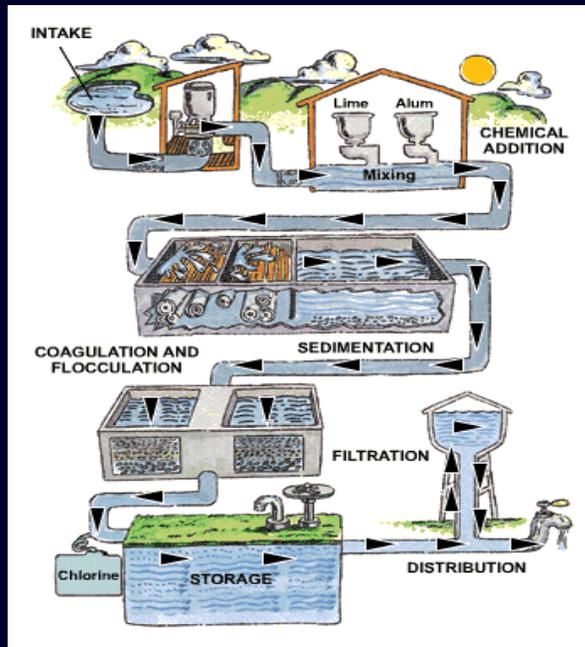
Structure

IT Systems

Resources

**Set
Security
Goals**

Critical Infrastructure Protection



Critical Infrastructure Protection



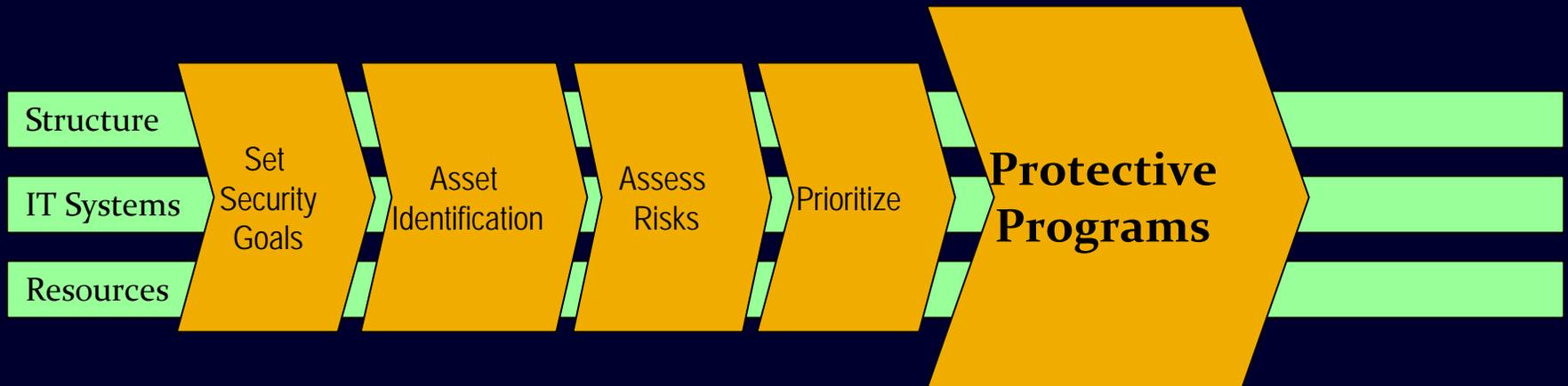
- Threat Assessments
- Vulnerability Assessment
- Consequence Assessment

Critical Infrastructure Protection



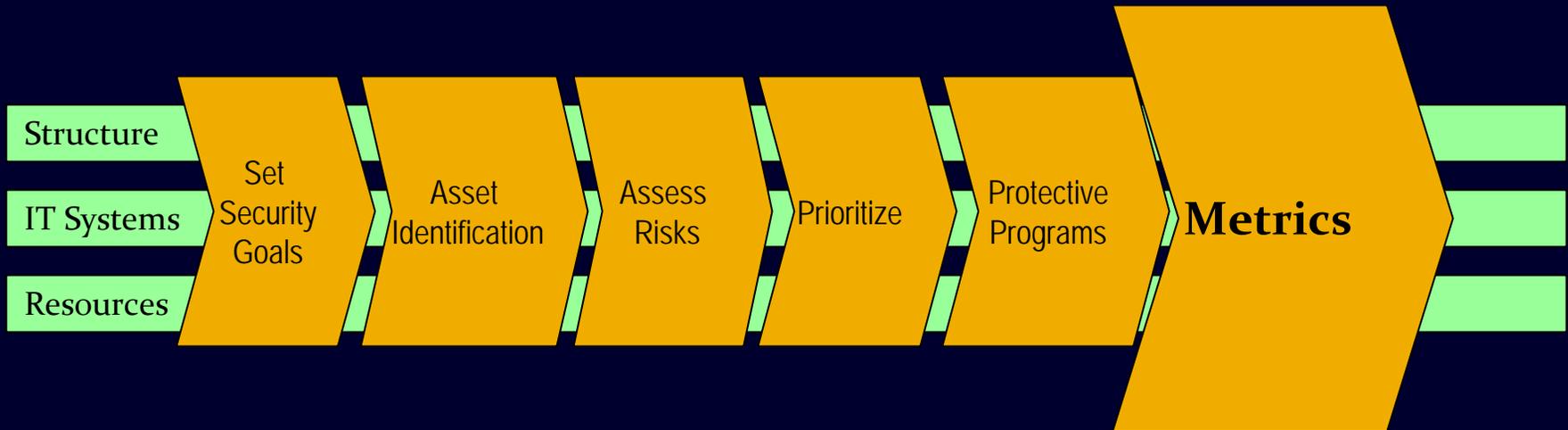
- Relative Risk Ranking

Critical Infrastructure Protection

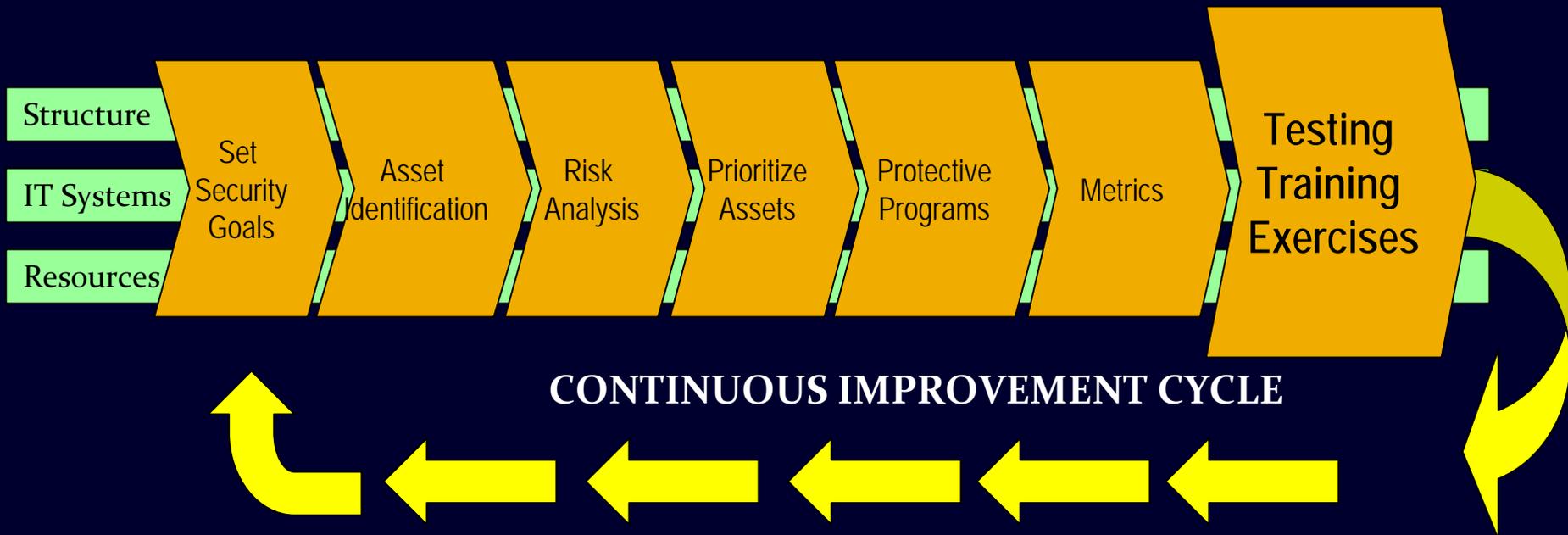


- Physical Security
- Cyber Security
- Back-Up Systems

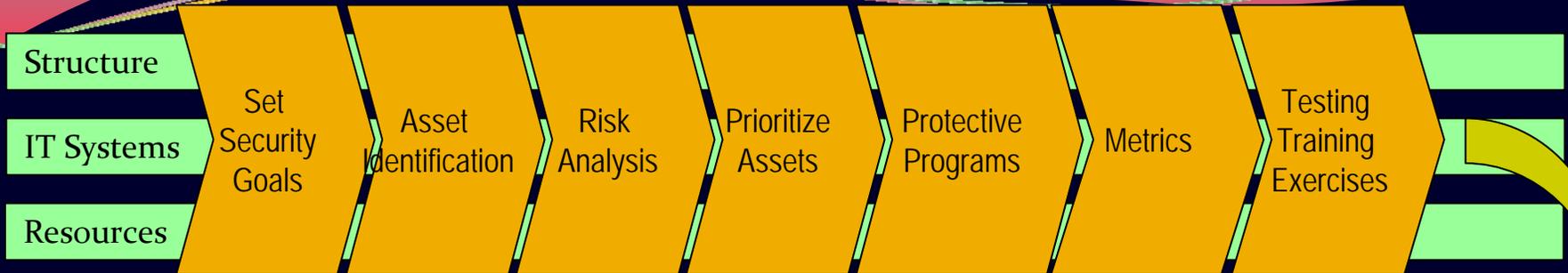
Critical Infrastructure Protection



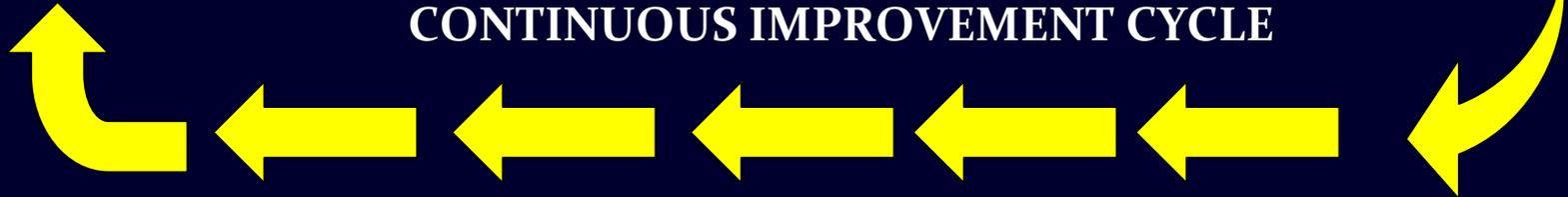
Critical Infrastructure Protection



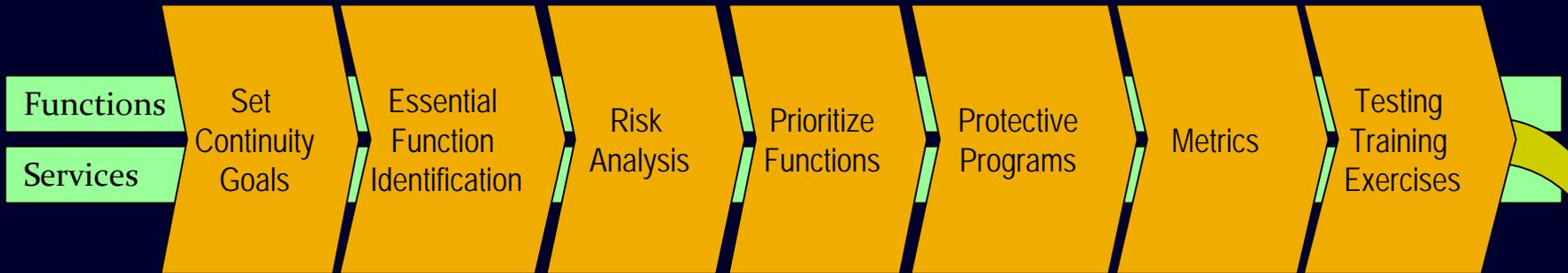
Critical Infrastructure Protection



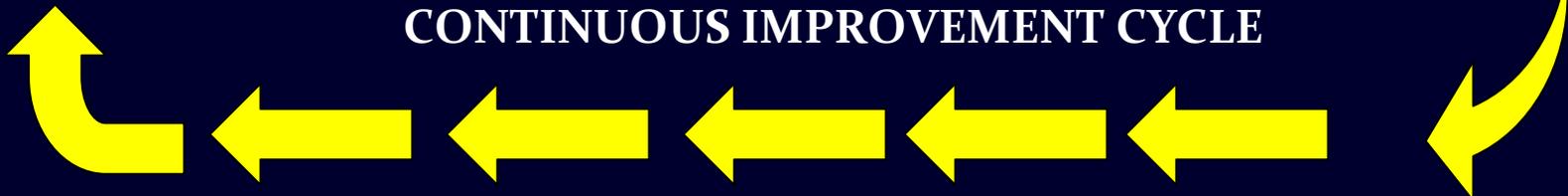
CONTINUOUS IMPROVEMENT CYCLE



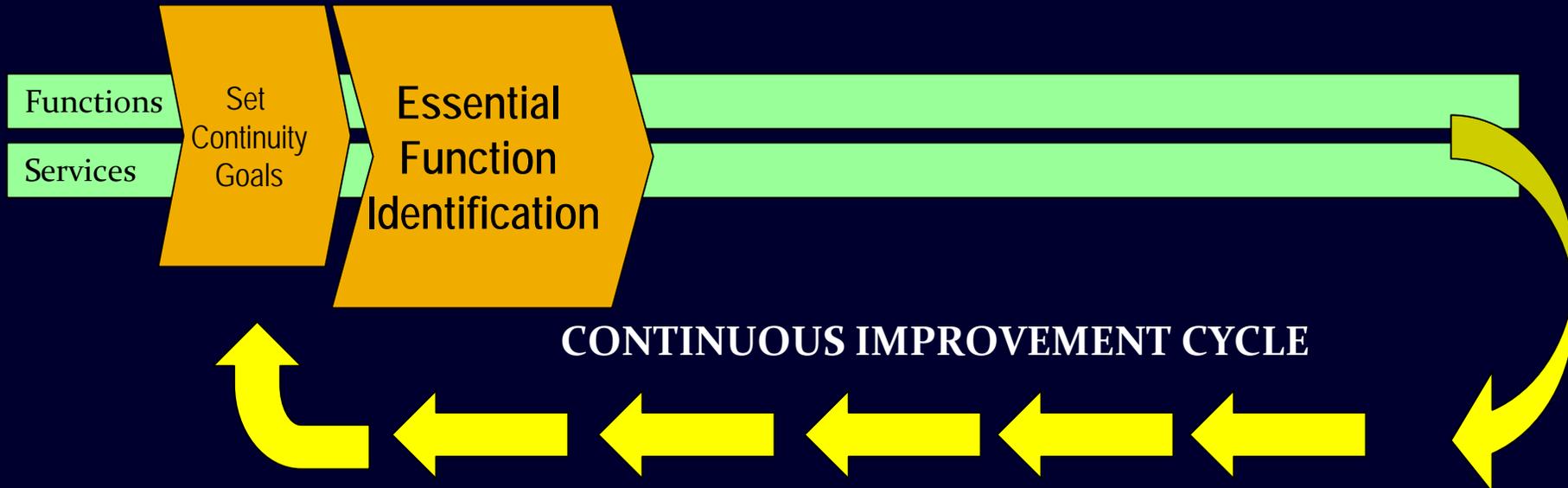
Continuity of Operations



CONTINUOUS IMPROVEMENT CYCLE

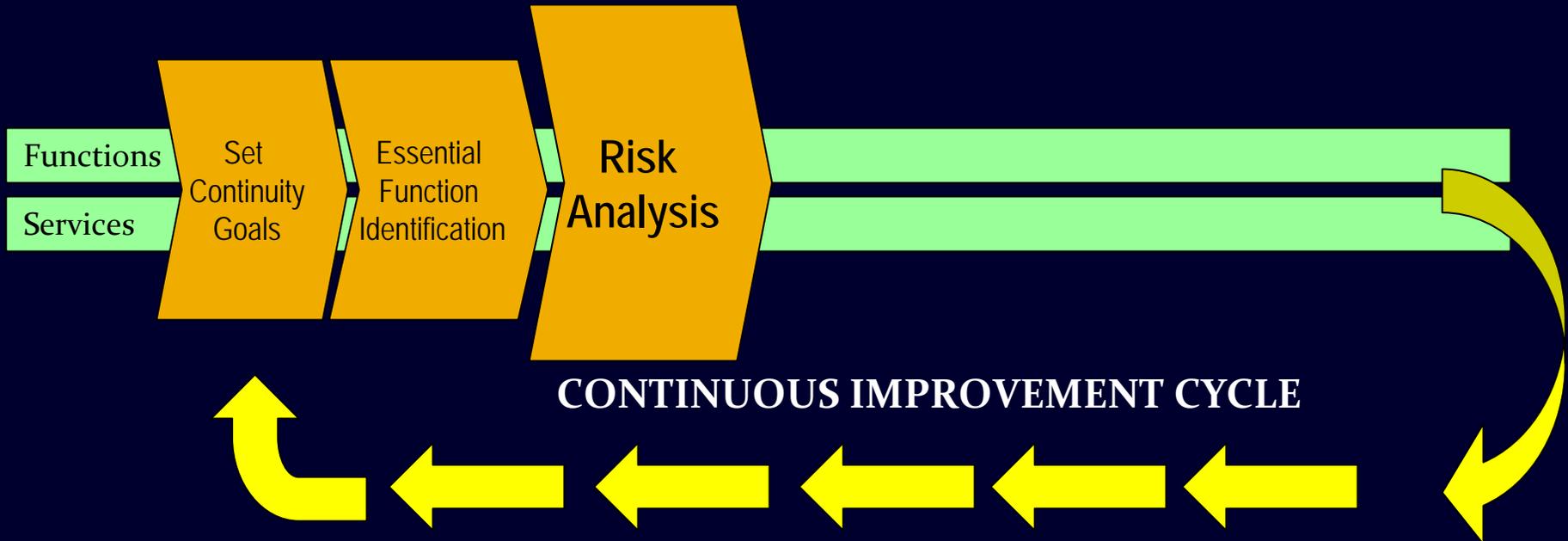


Continuity of Operations



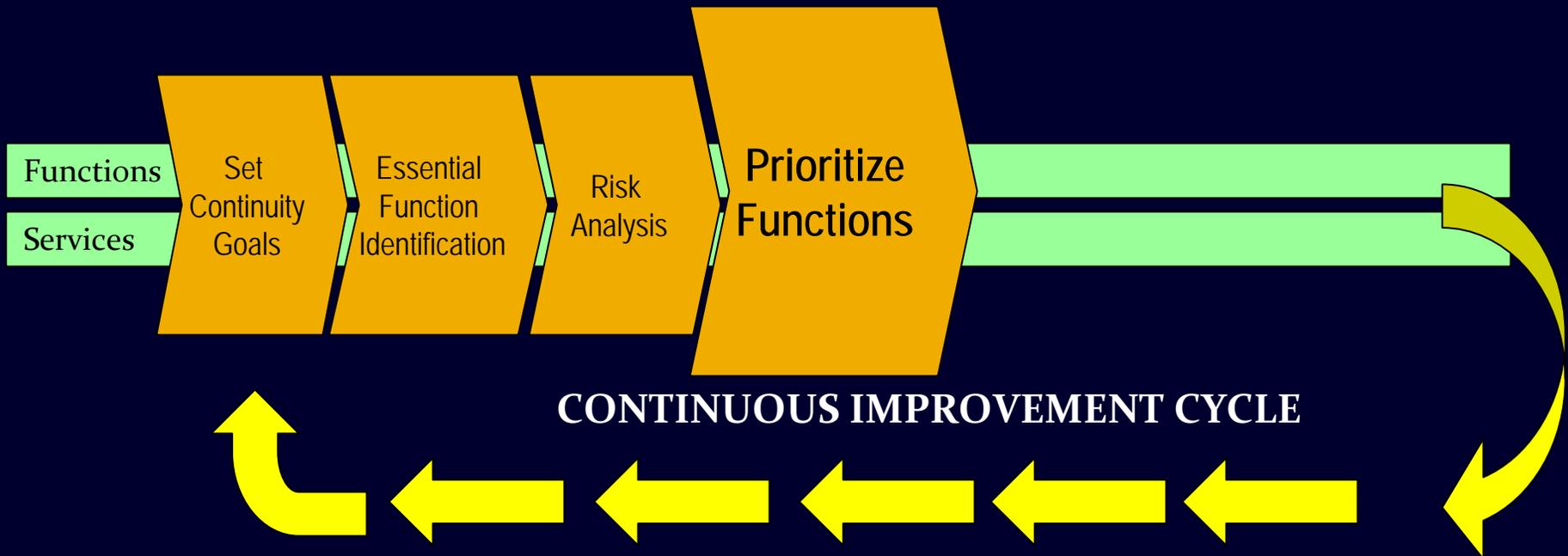
- Provide Drinking Water
- Fire Suppression

Continuity of Operations



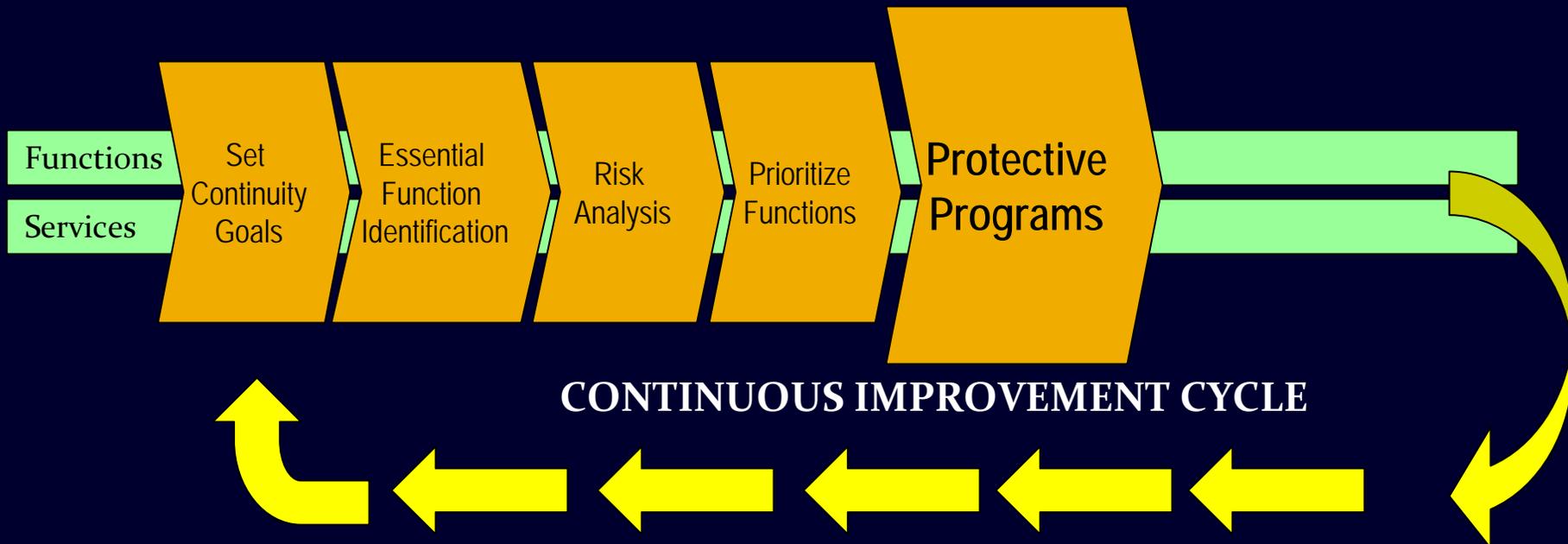
- Business Impact Analysis
- Business Process Analysis

Continuity of Operations



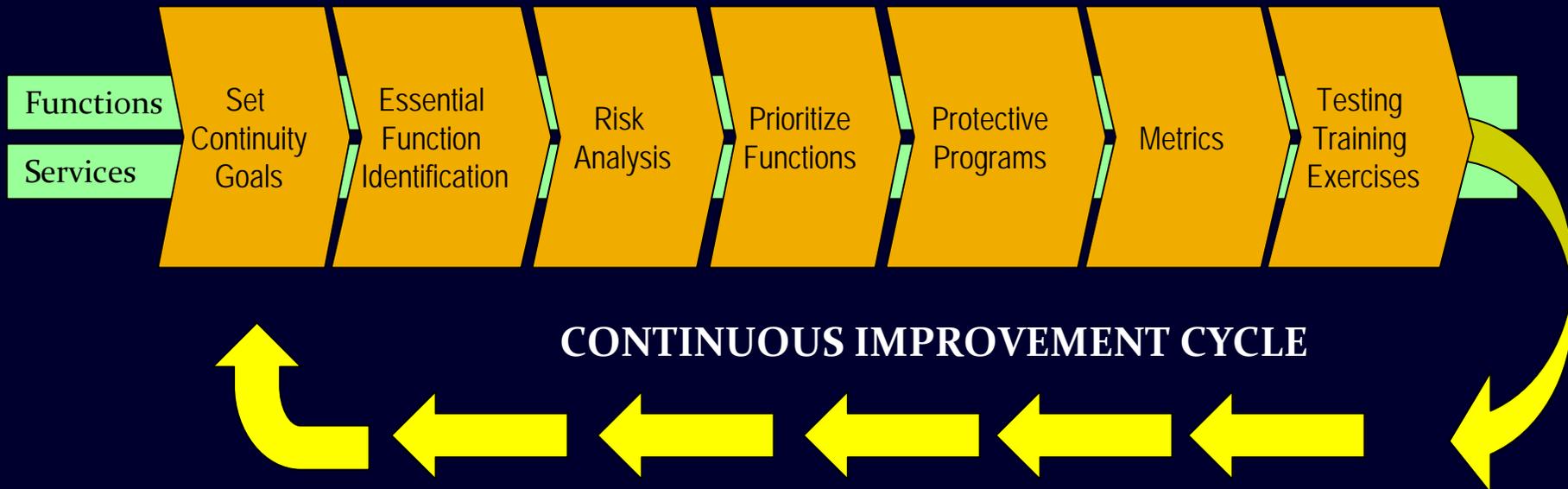
- Recovery Time Objective (RTO)

Continuity of Operations



- Delegation of Authority
- Orders of Succession
- Alternate Facilities
- Vital Records Management
- Emergency Relocation Group
- Equipment/System Backups

Continuity of Operations



Consequence Management Plan

Consequence Management is a key aspect of a contamination warning system and consists of actions taken to plan for and respond to potential drinking water contamination incidents in the distribution system.

... EPA Oct, 2008

Consequence Management Plan



Consequence Management Plan

