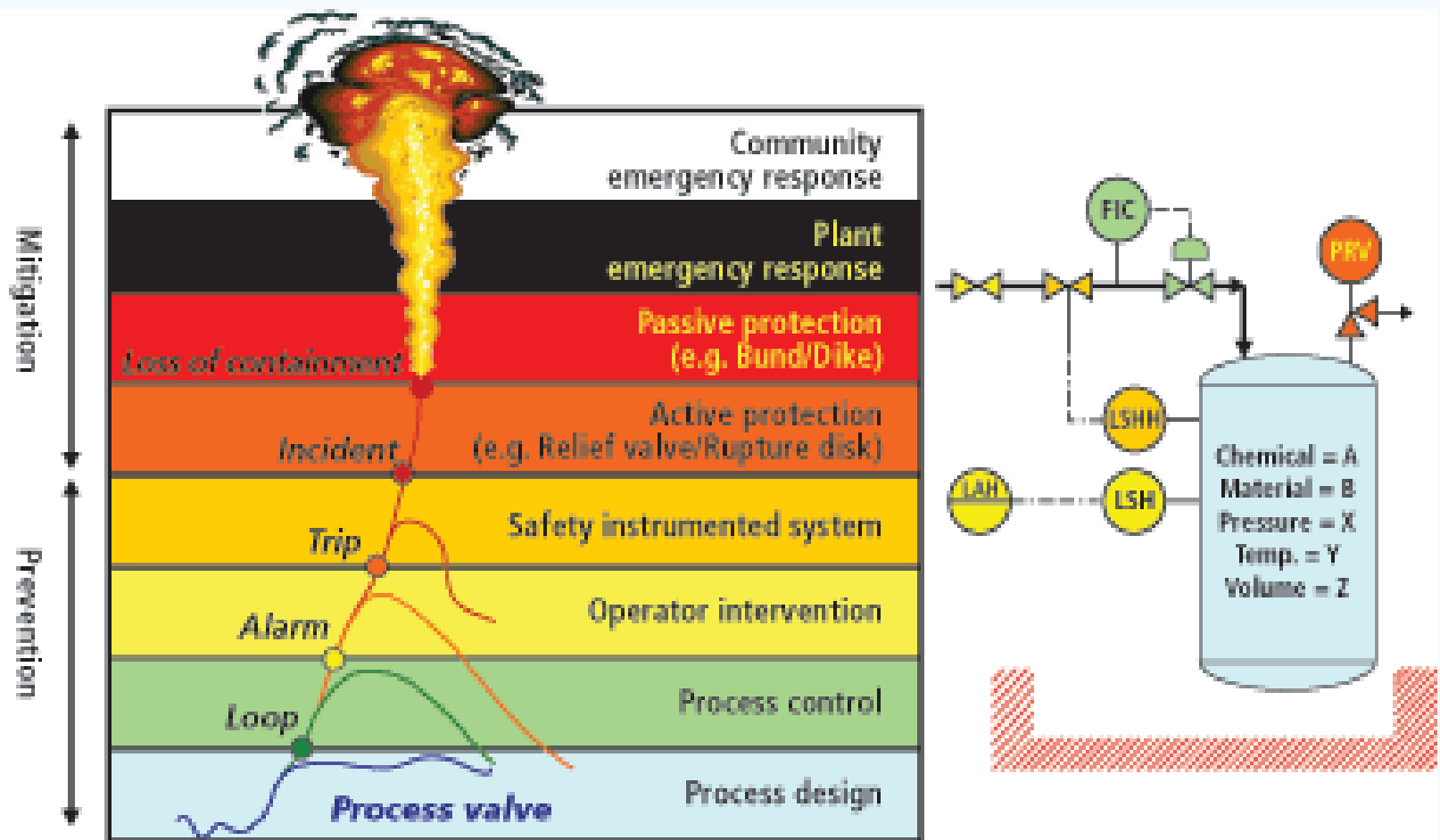


Alarm Management

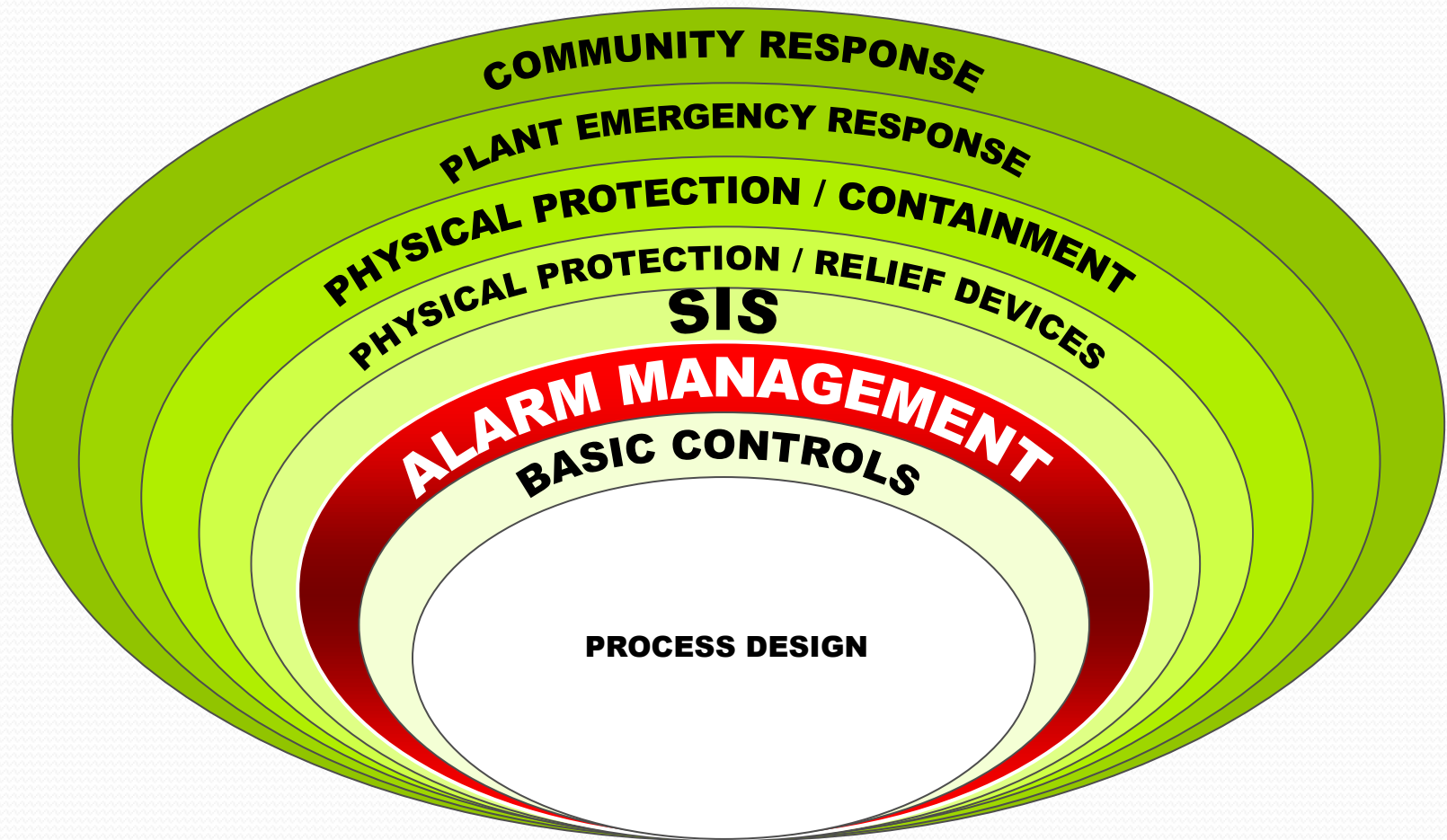
What is Alarm Management?

“Process by which alarms are *engineered*,
monitored, and *managed* to ensure *safe*,
reliable operations”



Layers of protection and impact on process

Alarm Management is a Core Layer of Protection.

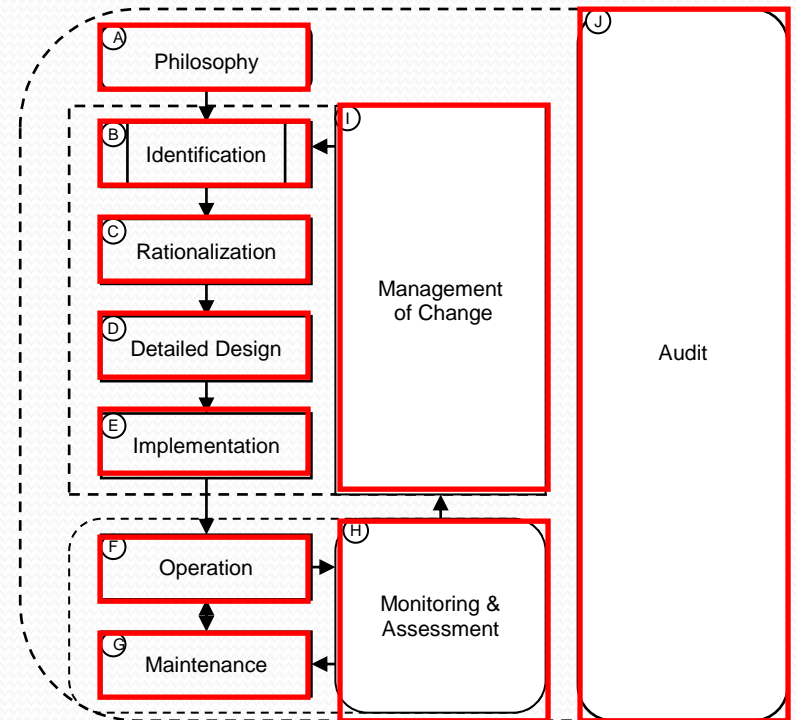


What else is Alarm Management?

- Continuous lifecycle
- Plant maintenance/reliability
- Good process control
- Outcome of a risk assessment
- Related to equipment failure
- A form of Enhanced/Advanced Control
- Abnormal Situation Management
- It has been “widely ignored” for a long time

Alarm Management Lifecycle

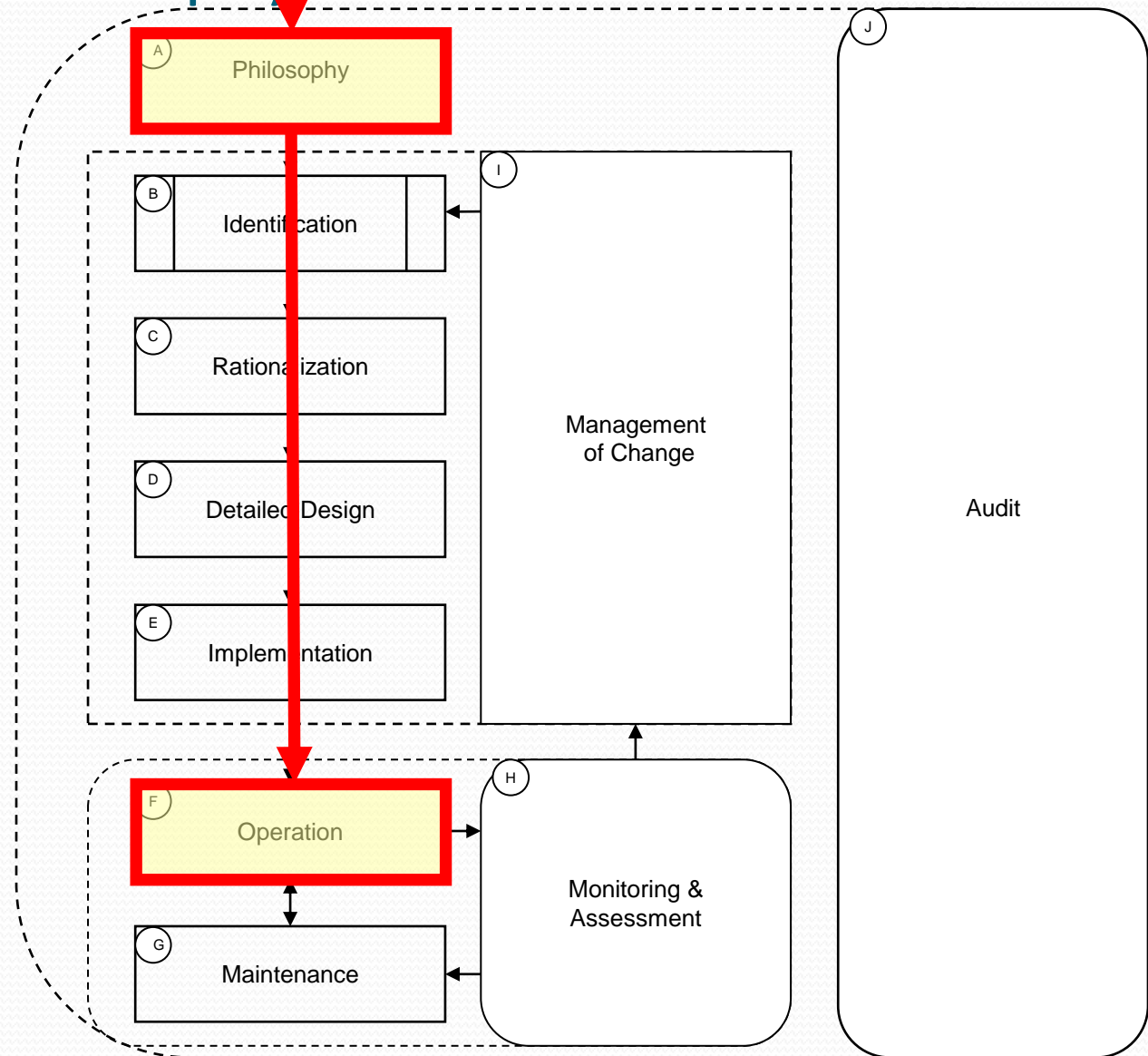
- Philosophy
- Identification
- **Rationalization**
- **Detailed Design**
- Implementation
- **Operation**
- **Maintenance**
- **Monitoring & Assessment**
- **Management of Change**
- **Audit**



Entering the Lifecycle -

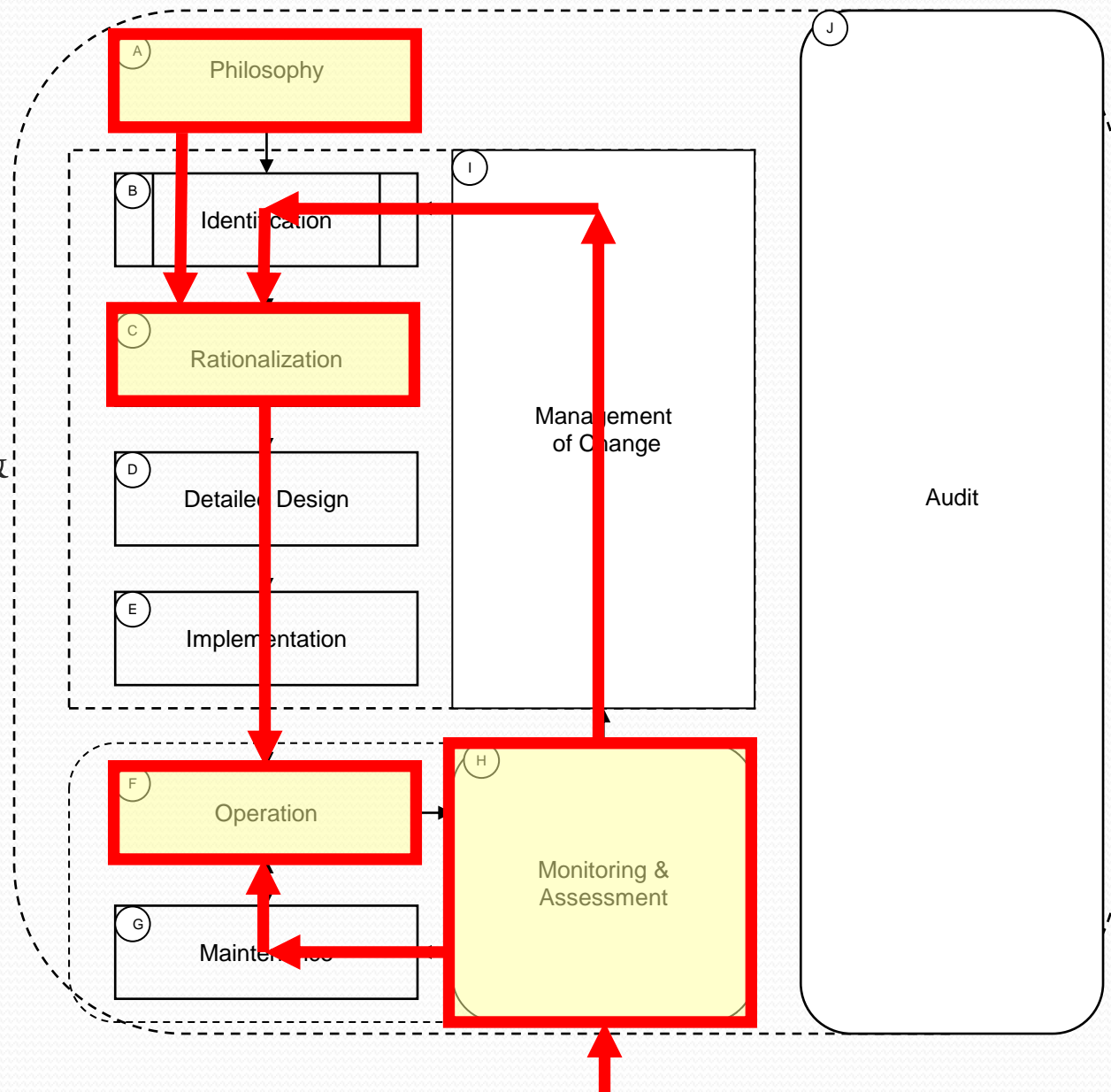
Philosophy

- Greenfield or Brownfield sites
- Objectives of the alarm system
- Design it correctly and keep it there



Entering the Lifecycle - Monitoring & Assessment

- Focus on quantitative analysis to determine gaps
- Follow Maintenance & MOC paths to resolve



Audit

