



Biorisk Performance – Session 4



Biorisk Management =
Assessment, Mitigation, Performance



What is performance?

In what way does performance improve
biorisk management?

Or...what specific steps are still missing
from the system after assessment and
mitigation?





Performance

Performance is the way in which someone or something functions

Performance is the result of all the efforts of a company or organization

Performance improves biorisk management: you know that your system works and is sustainable, and that the risk is acceptable

Group Exercise 1, Step 1

Split into groups

Each group receives the scenario

- ④ Identify the performance issues/problems in the scenario
- ④ Write each issue on a separate *post-it* using a felt-tip marker

Place *post-its* on your flip chart

Present to the class





How could you categorize these performance issues?



Biorisk Management System

Control:

Processes, procedures, structures, and responsibilities to manage biorisk

Assurance:

Systematic process of checking the system through audits and inspections

Improvement:

Setting and achieving biorisk management goals based on internal and external feedback

Group Exercise 1, Step 2

Organize the performance issues that you identified into either

- ☣ Control
- ☣ Assurance
- ☣ Improvement

Present your results to the class





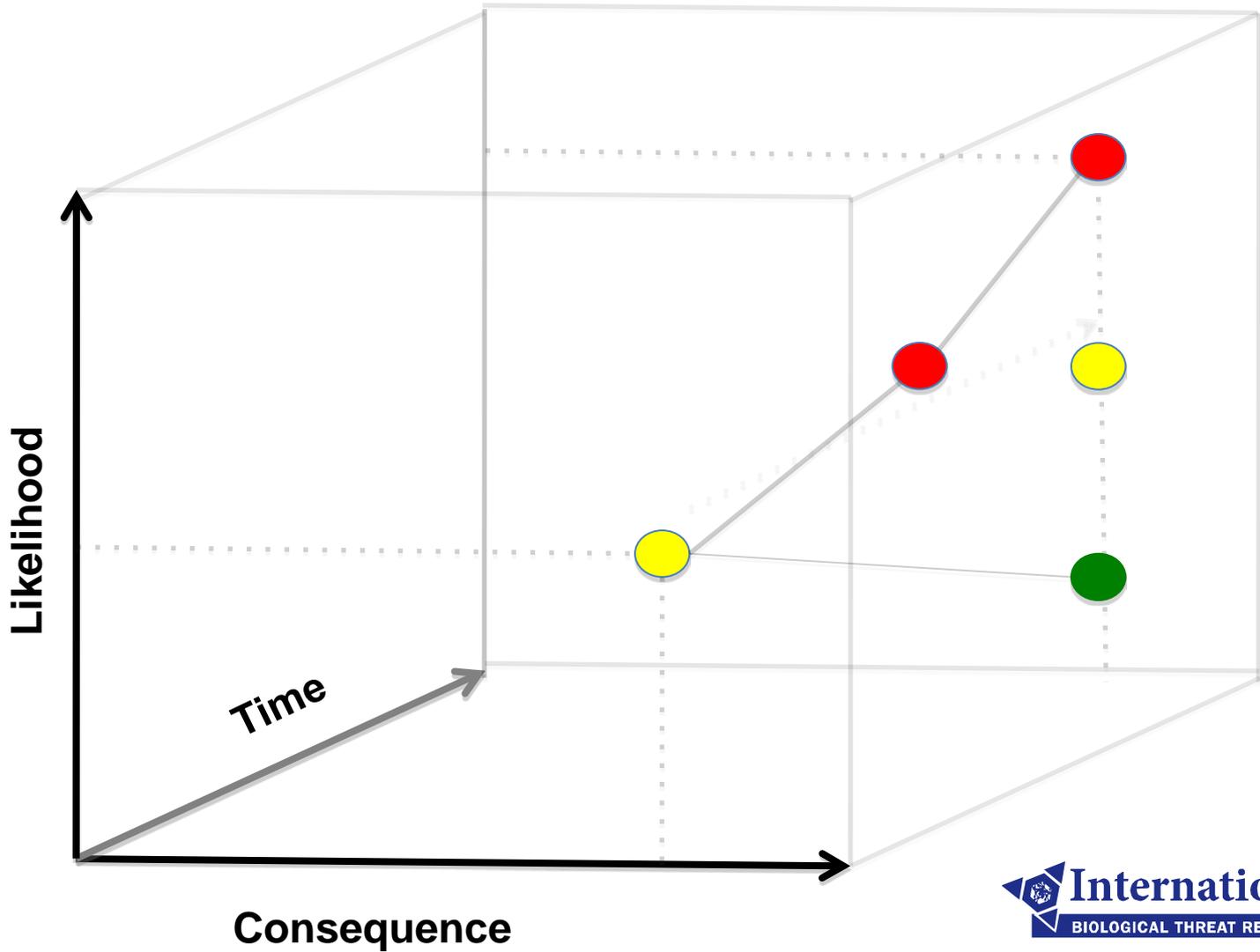
Group Exercise 2

In your same groups, refer to yesterday's assessment / mitigation scenarios

- ☣ For each mitigation measure you implemented, what performance measures also need to be incorporated?
- ☣ How do performance factors affect or change your mitigated risk?
- ☣ How might the results on your graph change?

Report your results to the class







Access Control Performance Video Clip



Biorisk Management = Assessment, Mitigation, Performance



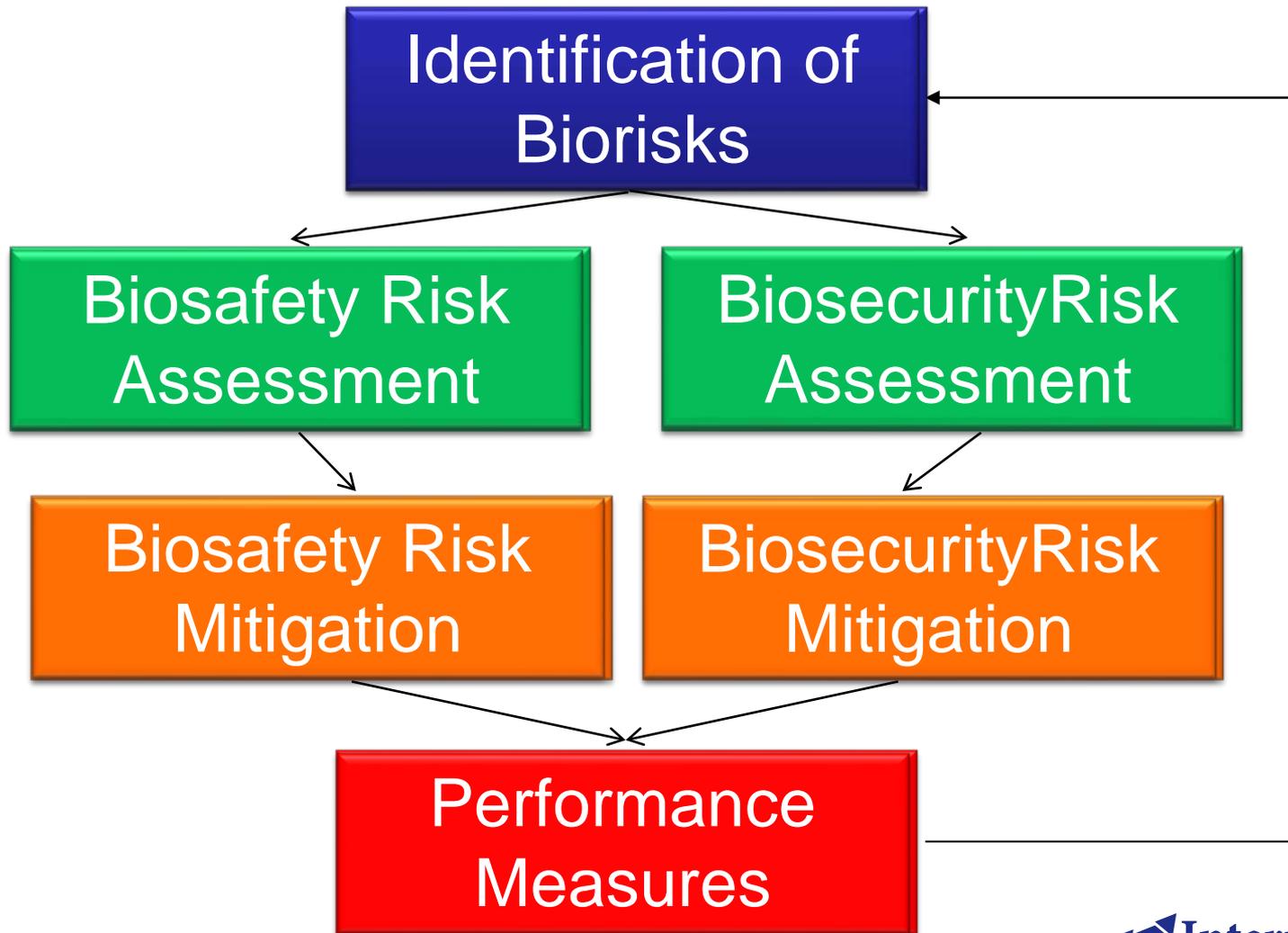
Risk identification
Hazard/threat identification
Likelihood evaluation
Consequences evaluation



Elimination or Substitution
Engineering Controls
Administrative Control
Practices and Procedures
Personal Protective Equipment



Control
Assurance
Improvement



Group Exercise 3, Step 1

Individually, carefully read the *Cataract University* exercise

Split into groups

- ④ Identify **problems** in Assessment, Mitigation, and Performance
- ④ Use post-it notes, one for each problem
- ④ Place post-it notes on “university board” in appropriate section

How have these problems affected the university?

Report out results to full group

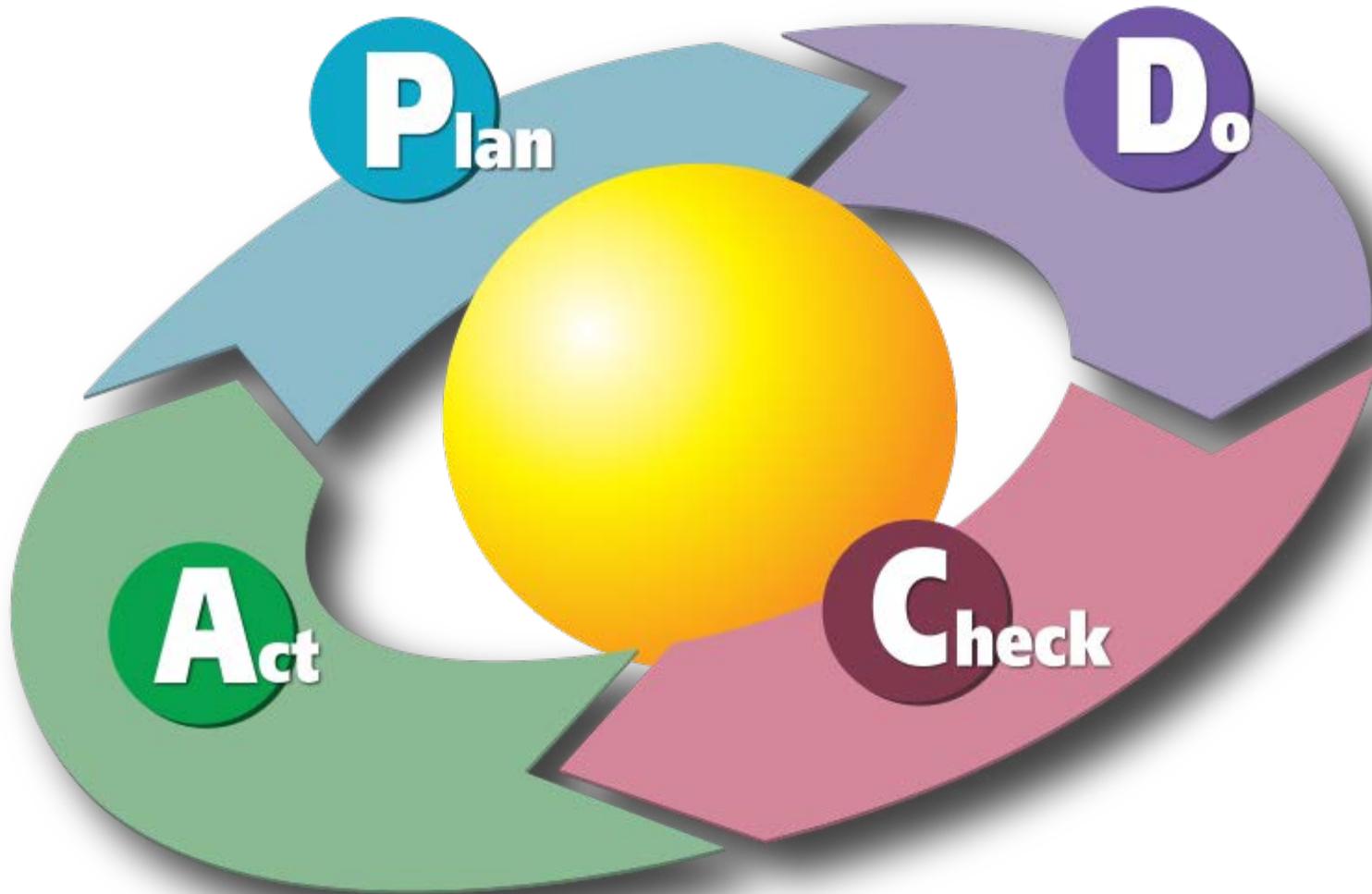




Laboratory Biorisk Management Standard

- ⚠ CWA 15793:2008
- ⚠ Management system
- ⚠ Consistent with other international standards such as ISO 9001/14001 and OSHAS 18001
- ⚠ Performance based
- ⚠ Voluntary
- ⚠ PDCA based

Systematic Approach



Source: Wikipedia



How does “plan, do, check, act” map to the
“assessment, mitigation, performance”
model?



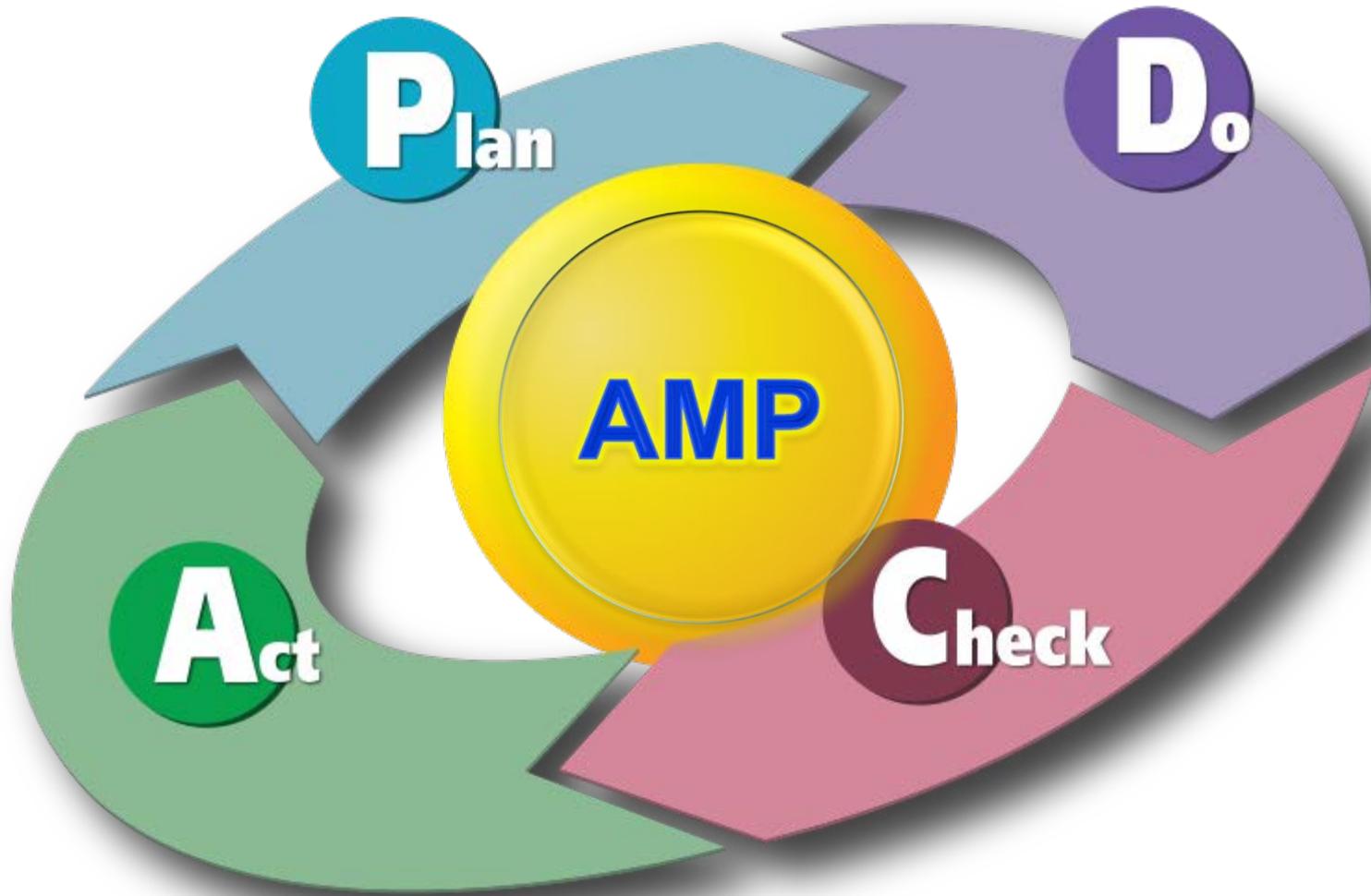
AMP vs. PDCA

Assessment = Plan, Do, Check, Act

Mitigation = Plan, Do, Check, Act

Performance = Plan, Do, Check, Act







Summary I

How does performance improve biorisk management?

- ☣ You know that your system works and is sustainable, and that the risk is acceptable

Three components of performance

- ☣ Control, assurance, and improvement

CWA 15793:2008: Laboratory Biorisk Management standard

- ☣ Plan, do, check, act



Summary II

The AMP model

- ⚠ Assessment = Plan, Do, Check, Act
- ⚠ Mitigation = Plan, Do, Check, Act
- ⚠ Performance = Plan, Do, Check, Act

Mitigation is improved and sustained when performance measures are included



Biorisk Management = Assessment, Mitigation, Performance



Risk identification
Hazard/threat identification
Likelihood evaluation
Consequences evaluation

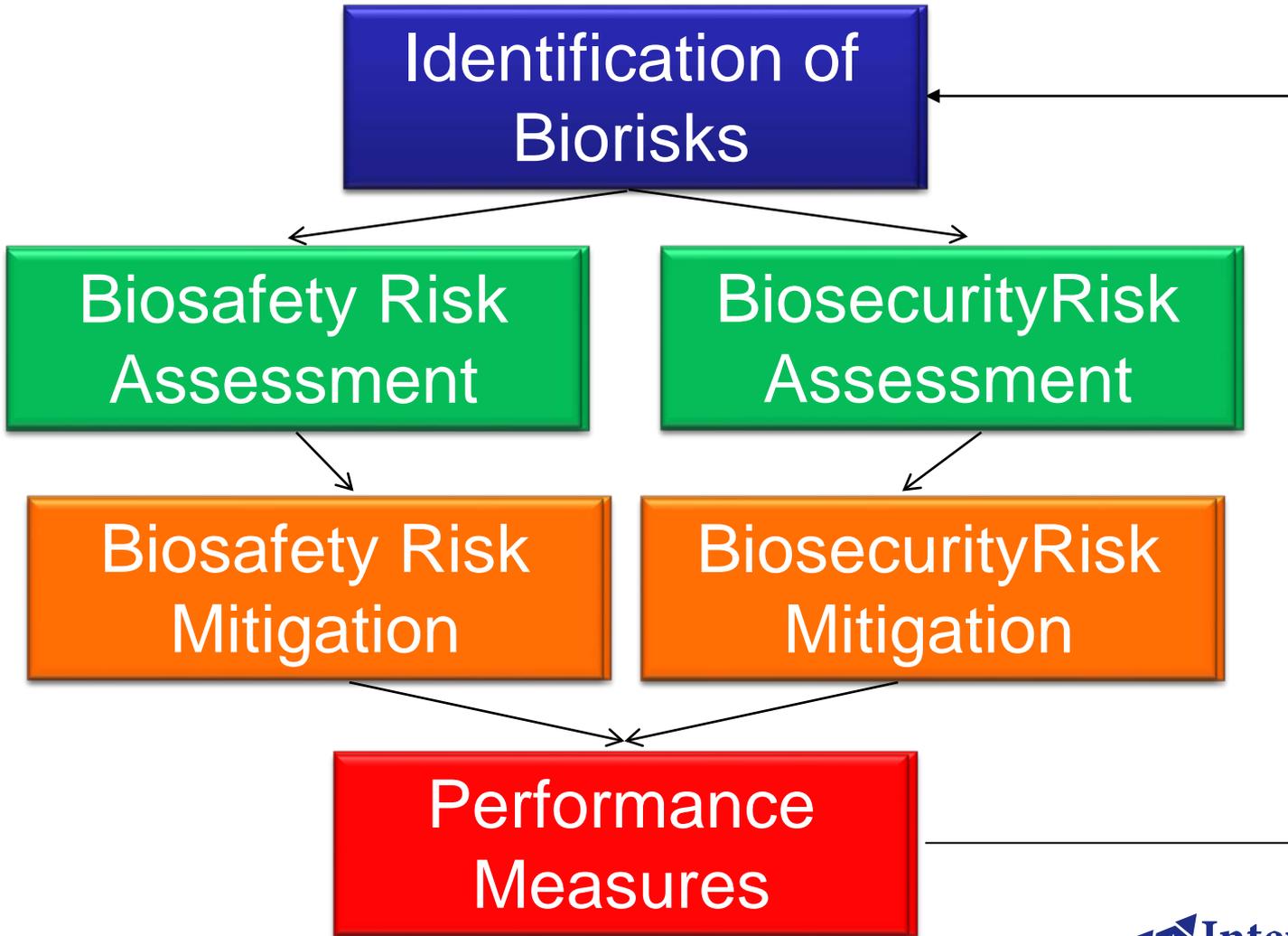


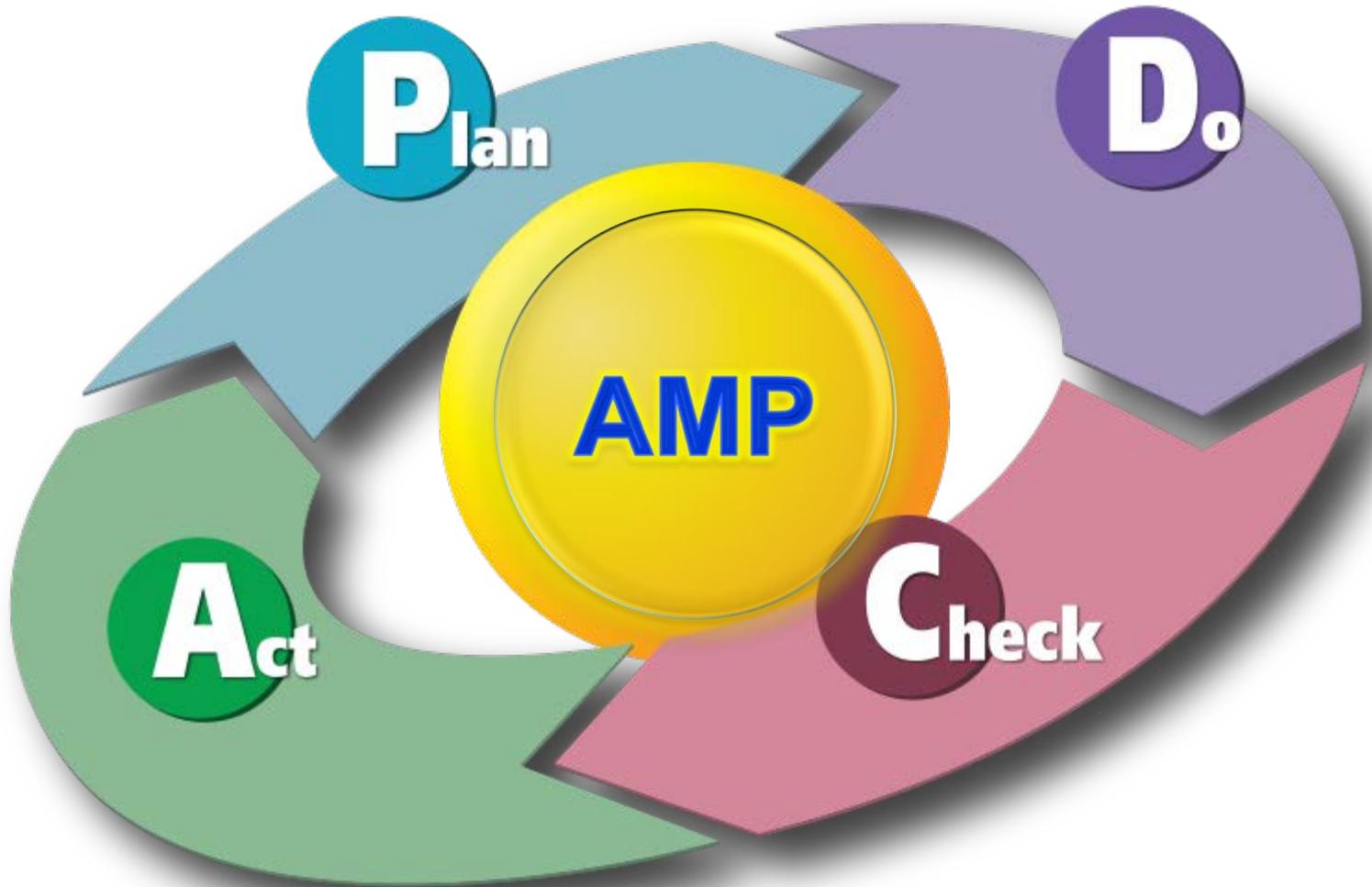
Elimination or Substitution
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Control
Assurance
Improvement

CWA 15793:2008







CWA 15793:2008

Examples of topics covered:

- ☣ Biorisk Management Policy
- ☣ Hazard identification, risk assessment and risk control
- ☣ Roles, responsibilities and authorities
- ☣ Training, awareness and competence
- ☣ Operational control
- ☣ Emergency response and contingency plans
- ☣ Inventory monitoring and control
- ☣ Accident and incident investigation
- ☣ Inspection and audit
- ☣ Biorisk management review





Availability

<http://www.cen.eu/CENORM/Sectors/technicalcommittees/esworkshops/workshops/ws31.asp>





Individual Reflection

How does AMP apply to your own lab?

How could you improve biorisk management at your own lab, short-term and long-term?

What would be the challenges of implementing AMP?

What would be the benefits of implementing AMP?

Write your answers on a piece of paper; you only have to share your answers if you wish