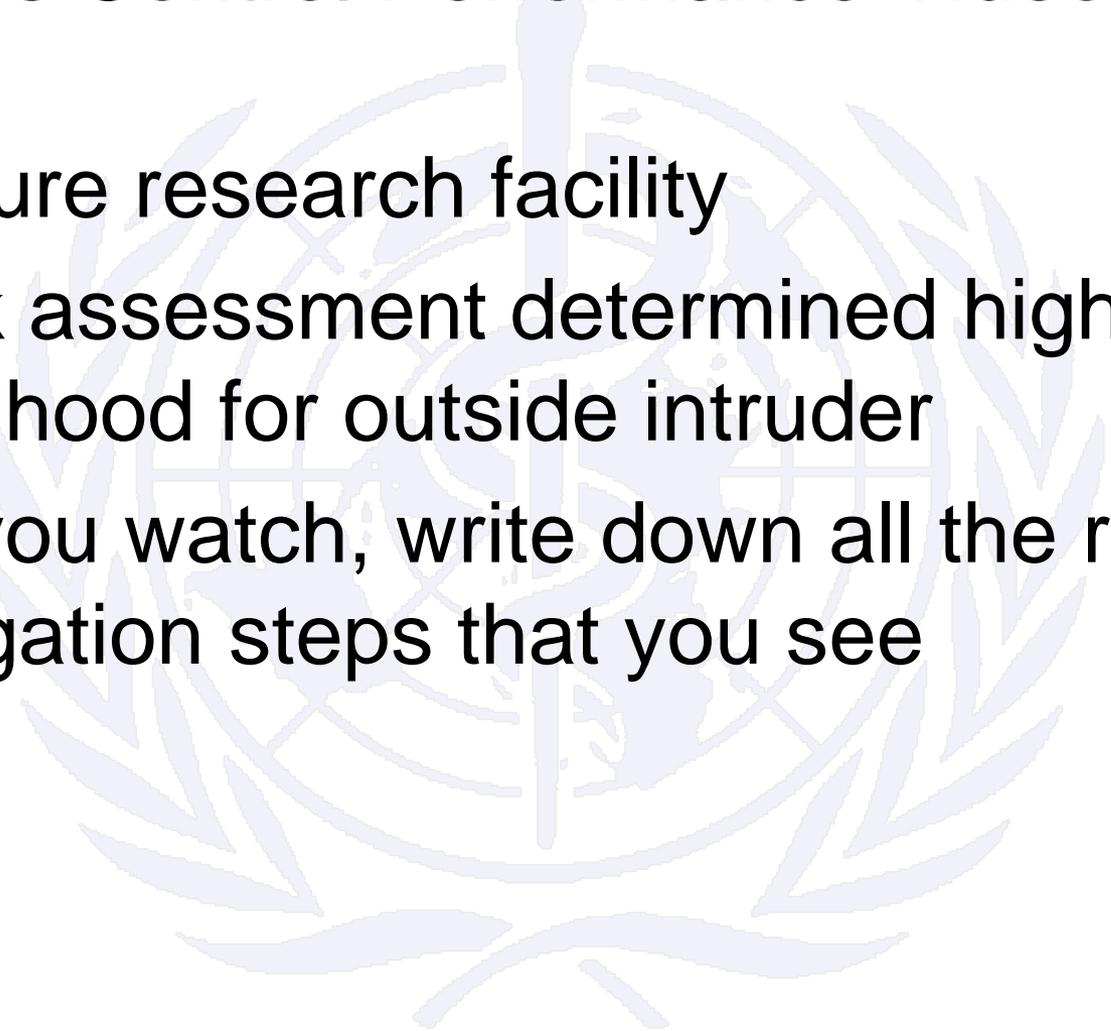




Access Control Performance Video

- Secure research facility
- Risk assessment determined high likelihood for outside intruder
- As you watch, write down all the risk mitigation steps that you see

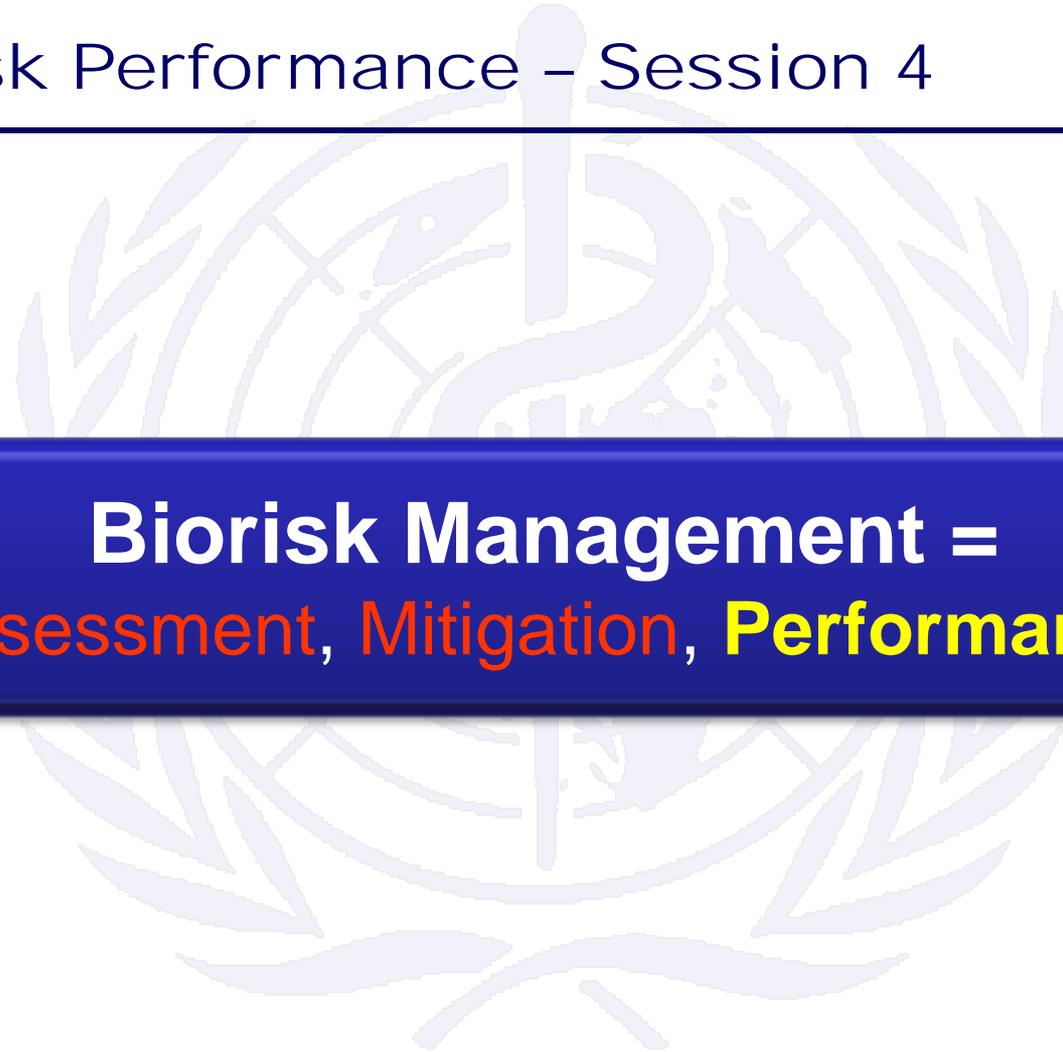




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Biorisk Performance – Session 4

Biorisk Management =
Assessment, Mitigation, Performance





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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



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Group Exercise 1, Step 1

Split into groups

Each group receives the scenario

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

Place *post-its* on your flip chart

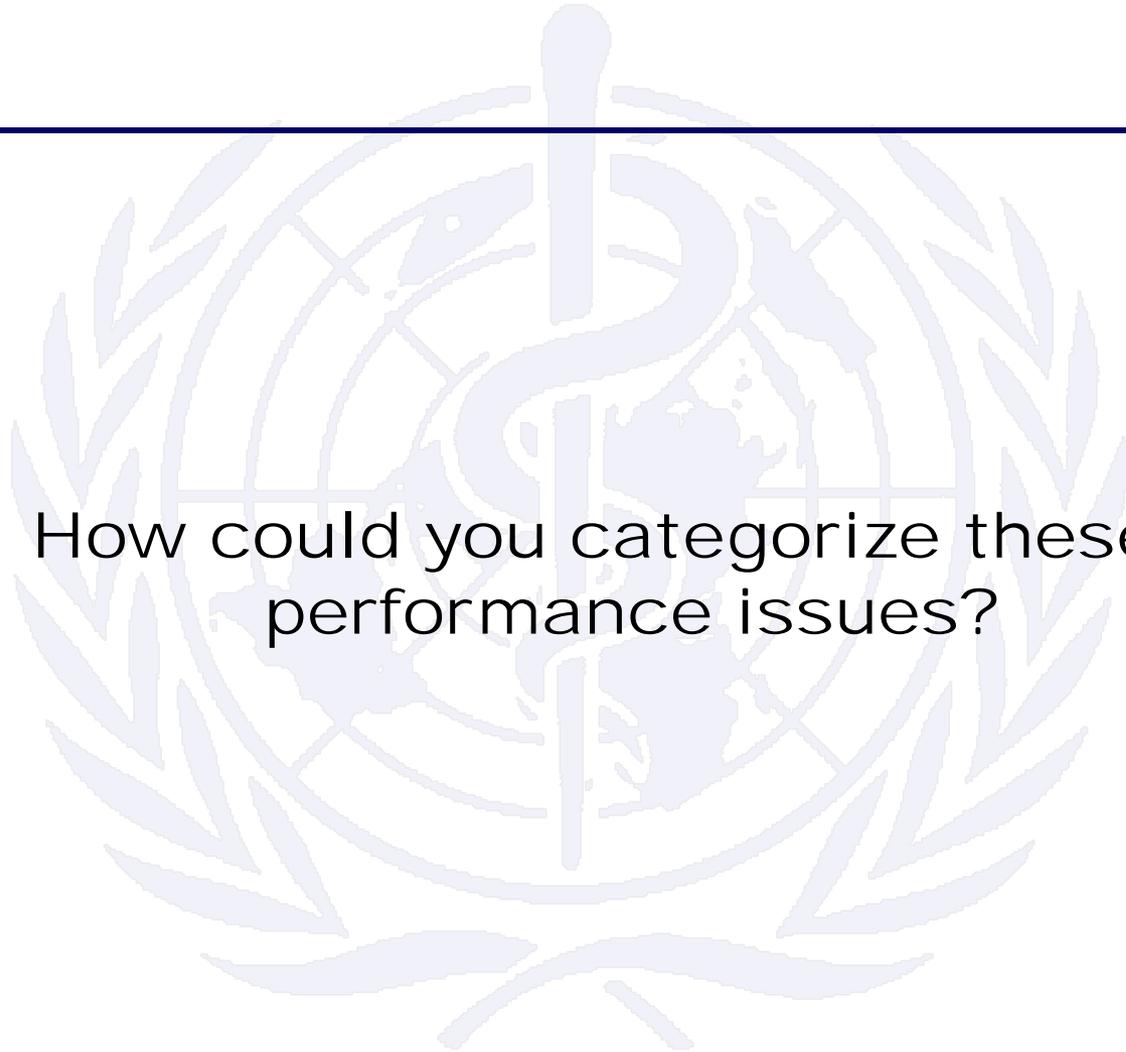
Present to the class





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How could you categorize these performance issues?





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Performance

Application:

Processes, procedures, structures, and responsibilities to manage biorisk. Applying, working, doing the mitigation

Assurance:

Systematic process of checking the system through audits and inspections

Advancement:

Setting and achieving biorisk management goals; improving existing mitigation or adding new mitigation based on based on internal and external feedback.



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Group Exercise 1, Step 2

Organize the performance issues that you identified into either

- ❖ Application
- ❖ Assurance
- ❖ Advancement

Present your results to the class

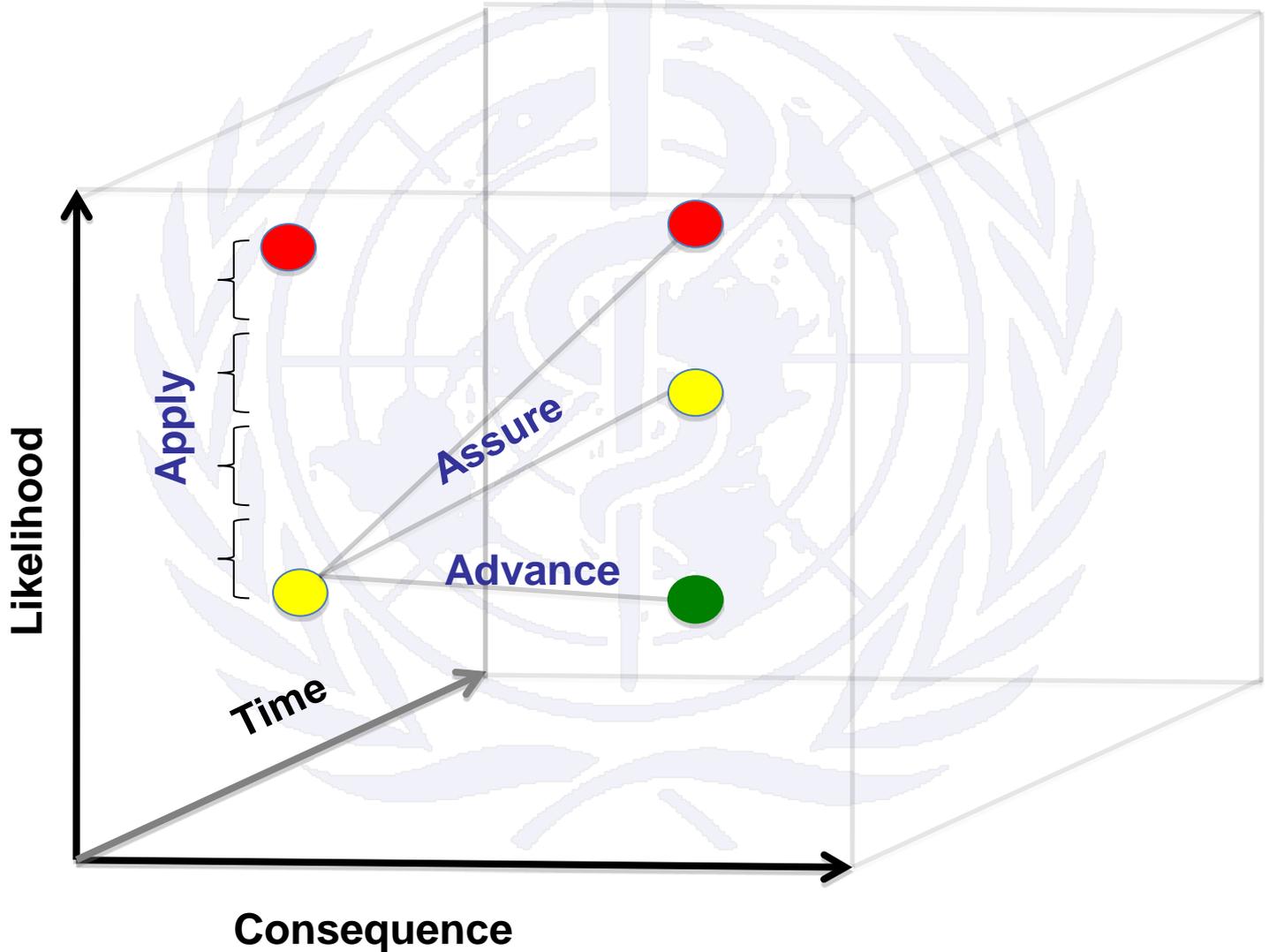




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How does performance affect risk over time?







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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



Application
Assurance
Advancement



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Group Exercise 3, Step 1

Individually, carefully read the *Cataract University* exercise

Split into groups

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

How have these problems affected the university?

Report out results to full group





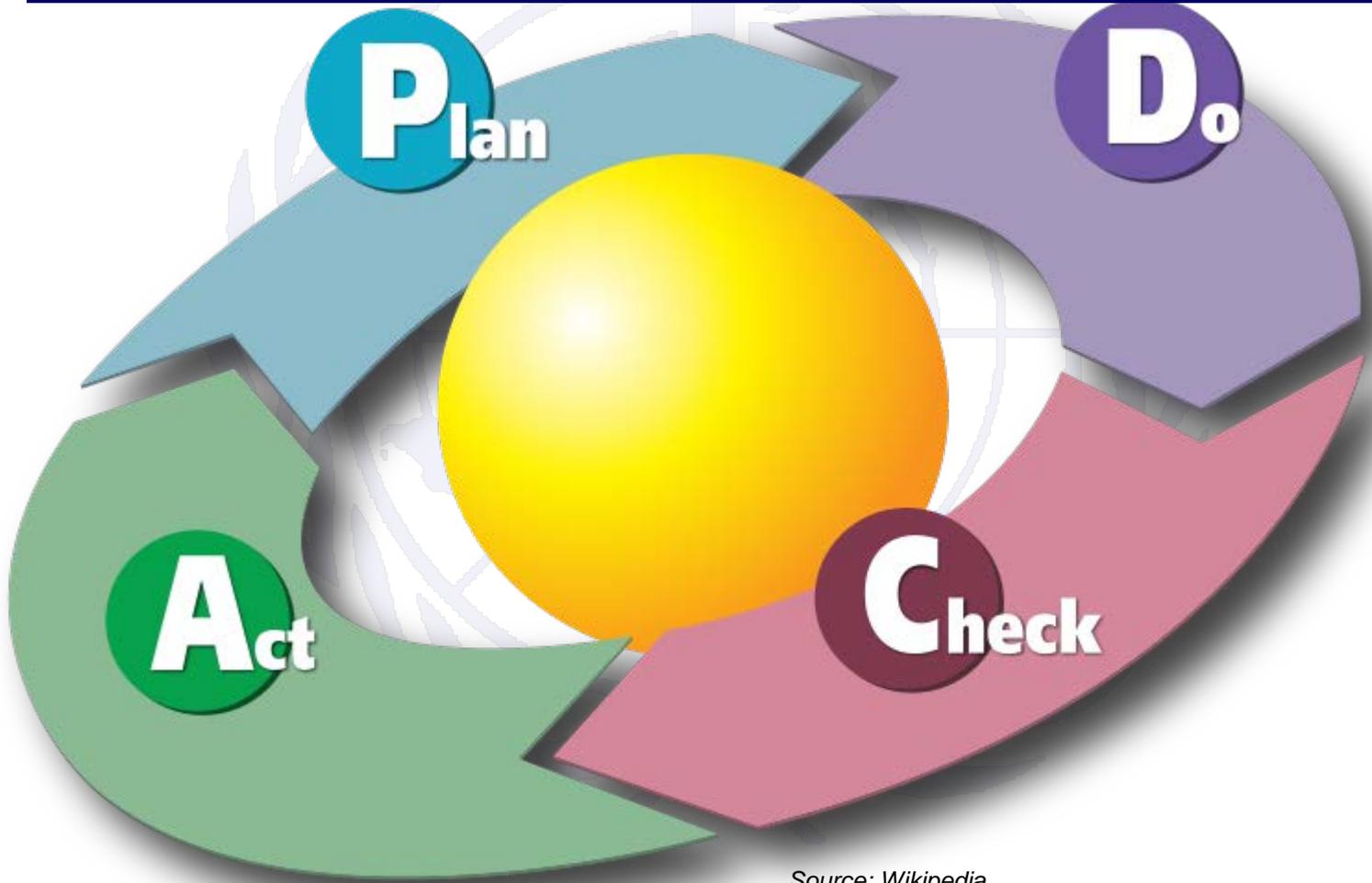
Laboratory Biorisk Management Standard

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



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Systematic Approach



Source: Wikipedia



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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





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Availability

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

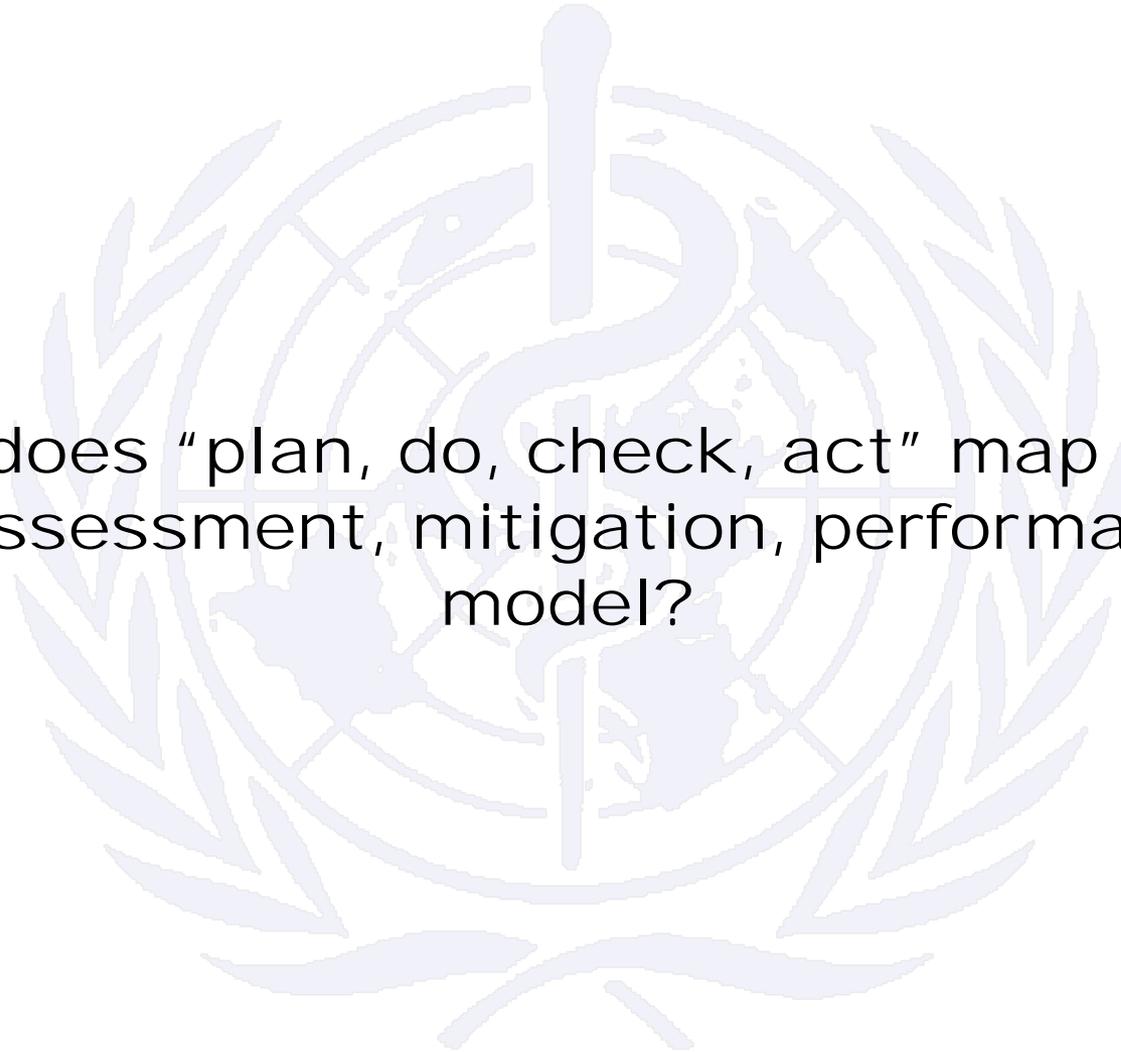


European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung



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



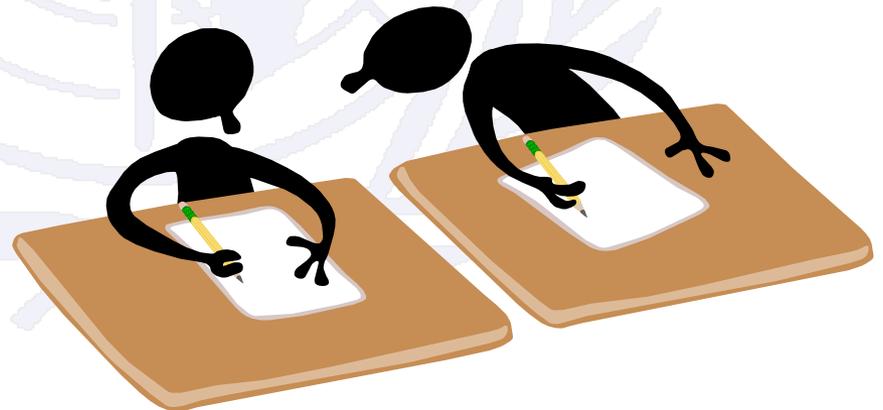


AMP vs. PDCA

Assessment = Plan, Do, Check, Act

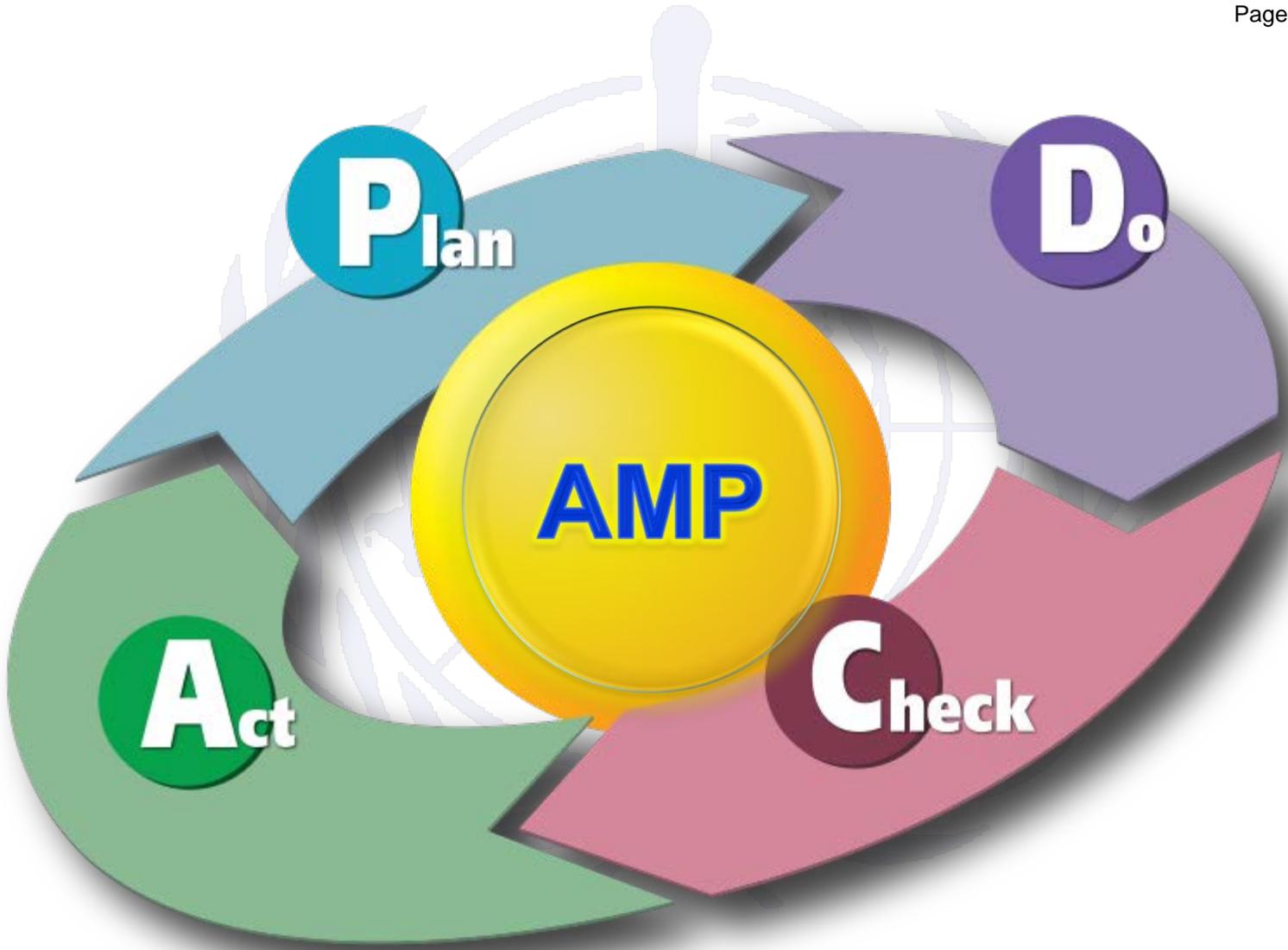
Mitigation = Plan, Do, Check, Act

Performance = Plan, Do, Check, Act





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Group Exercise 3, Step 2

In the same groups, use the table of contents of the CWA15793 to develop recommendations for change at Cataract University

- ④ Identify **solutions** for Assessment, Mitigation, and Performance
- ④ Agree on the benefits and challenges of making these changes at Cataract University
- ④ Identify the specific paragraphs in CWA 15793 that apply to your selected solutions

Record your conclusions on a flip chart

Report the results to class





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



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

- ☣ Apply, assure, and advance

CWA 15793:2008: Laboratory Biorisk Management standard

- ☣ Plan, do, check, act

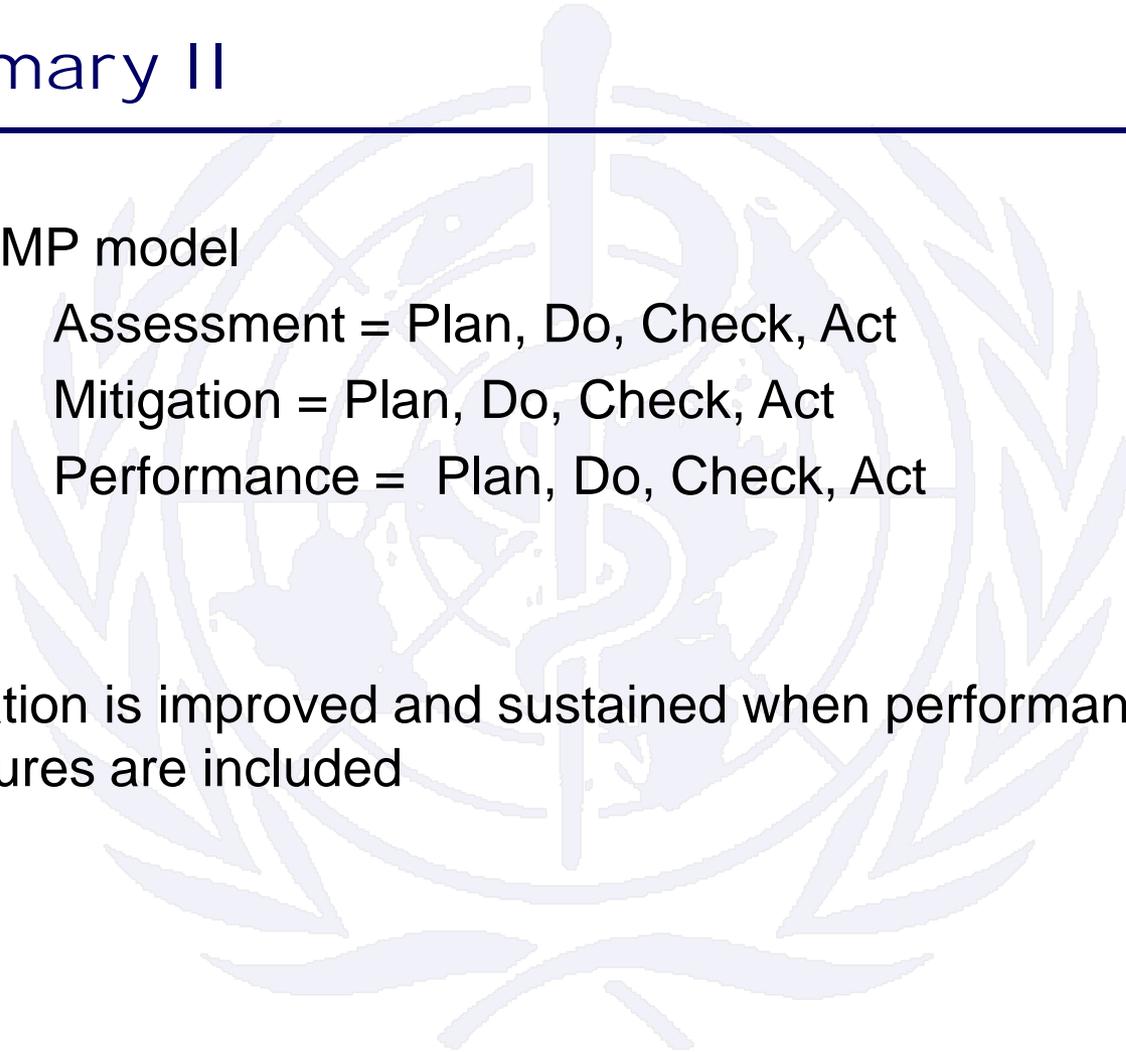


Summary II

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





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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

CWA 15793:2008



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