

# Workshop on Biosecurity Curriculum Development in Yemen

*Day 3: Implement and Evaluate for Biosecurity Curriculum: Action Plan*

*25 February 2014*

*Addis Ababa, Ethiopia*

*Giulio Mancini*

*Risa Haddal*

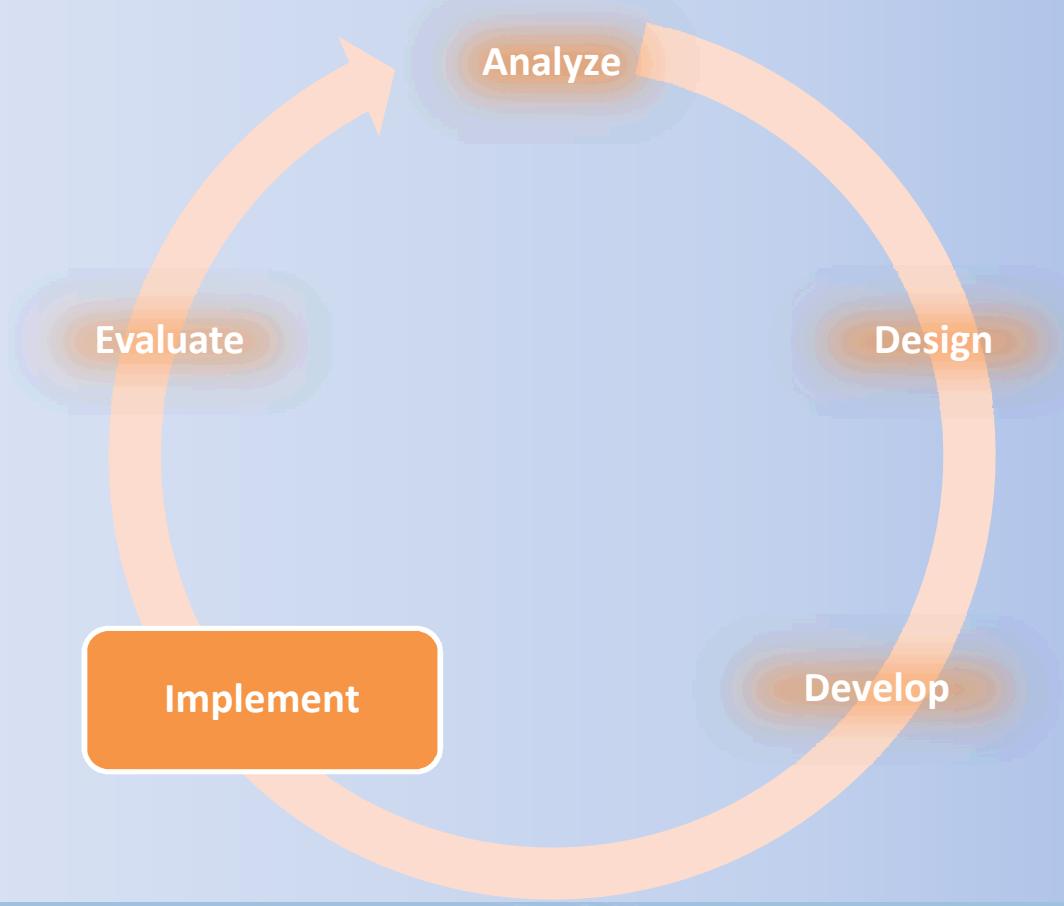


# Outline of Day 3

- Implementing and Evaluating education on biosecurity/biorisk management
- Prioritization
- Action Plan for testing in 2014, identification of needs
- Longer term perspectives: introduction in curricula?

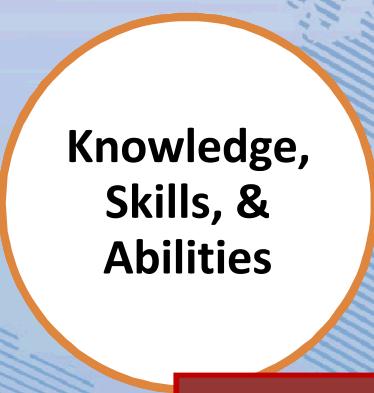
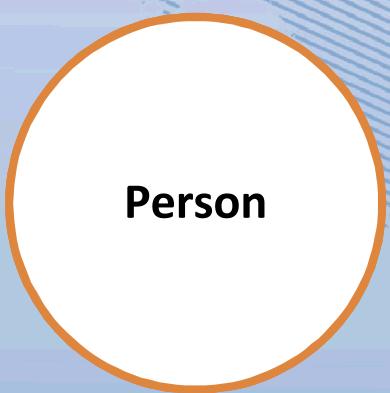


# Training Design Cycle



# Implement

What do we have?



Knowledge,  
Skills, &  
Abilities



*Plus other constraints:  
environment, budget,  
etc.*

How do we get there?



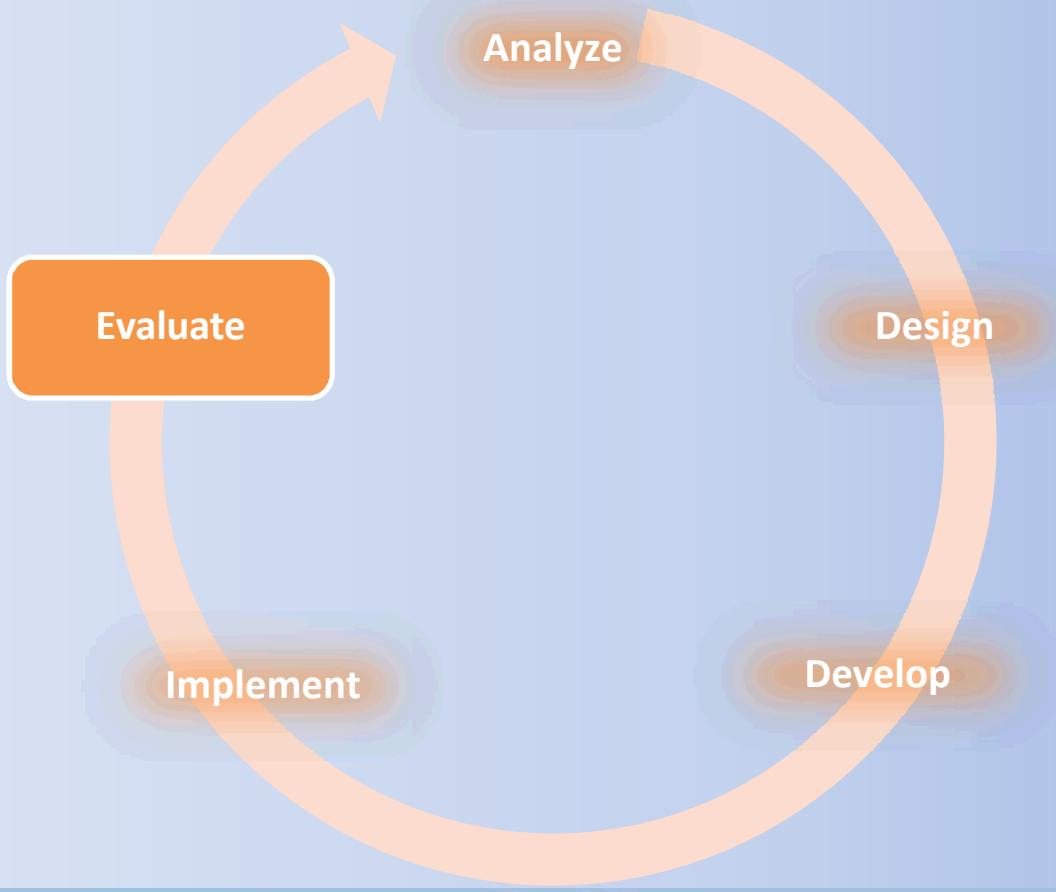
Where do we want to go?



# Implement - Prioritization

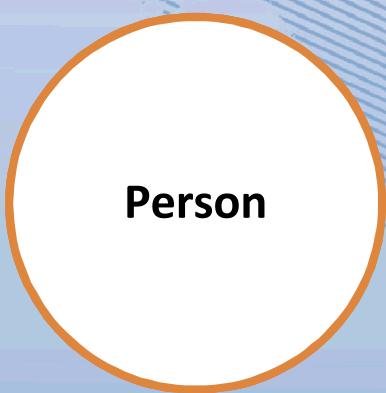
- Which learning objectives matched with existing resources and sources are more easily implementable?
- Testing materials in Universities in 2014
- What is still needed?

# Training Design Cycle



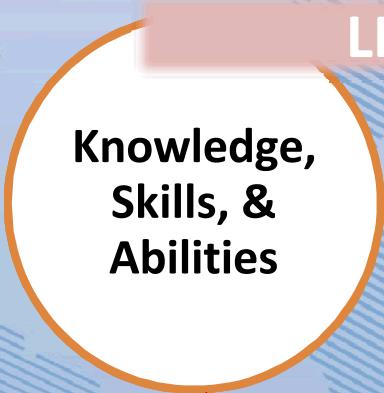
# Evaluate

What do we have?



*Plus other constraints:  
environment, budget,  
etc.*

How do we get there?



LET'S GO!!!



Where do we want to go?



How did we do?



# Evaluate – Four Levels\*

- Level 1
  - Was the student **happy** with the course?
- Level 2
  - Did the student **learn**?
- Level 3
  - Over time, did the student's **behavior** change to meet the desired objective?
- Level 4
  - Over time, did the **organization** see **improvement** in biorisk management?

\*(Donald) Kirkpatrick Learning Evaluation Model



## Evaluations & Instructor Debrief Feedback on Teaching Design and Development

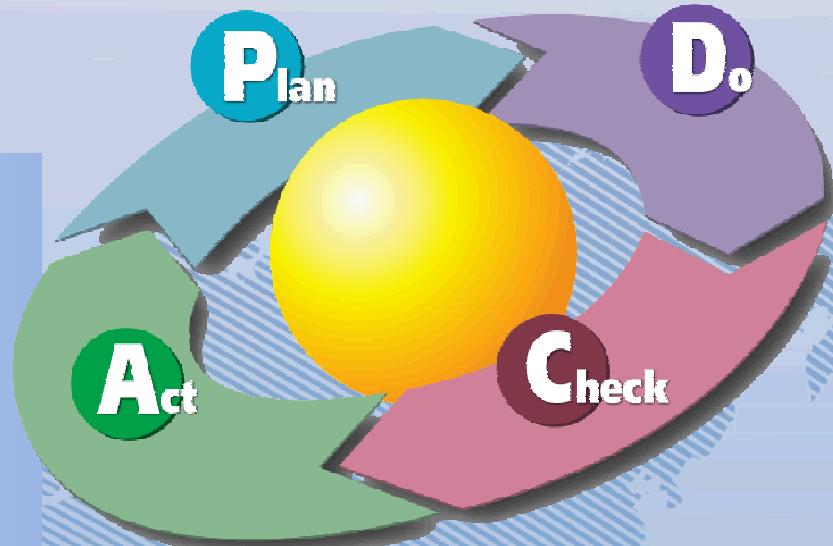
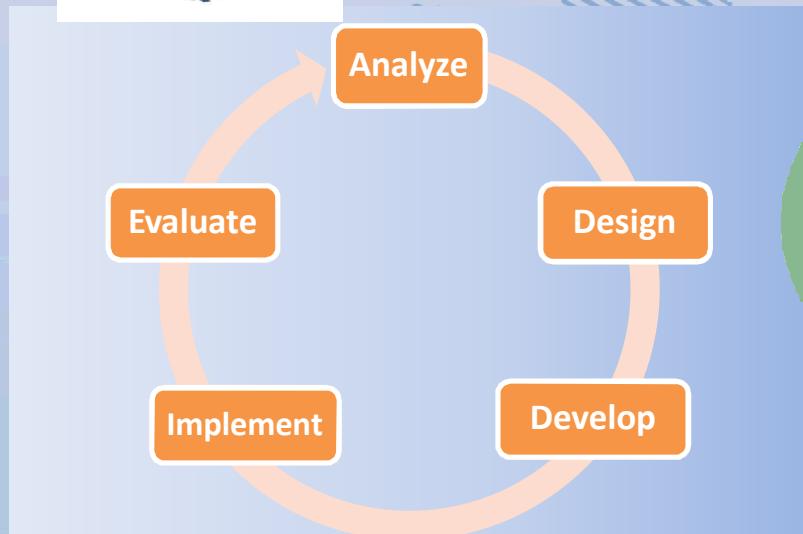
---

- Critical to ongoing success of biorisk management training and capacity building
- Changes and additions to training materials will be based on these documents



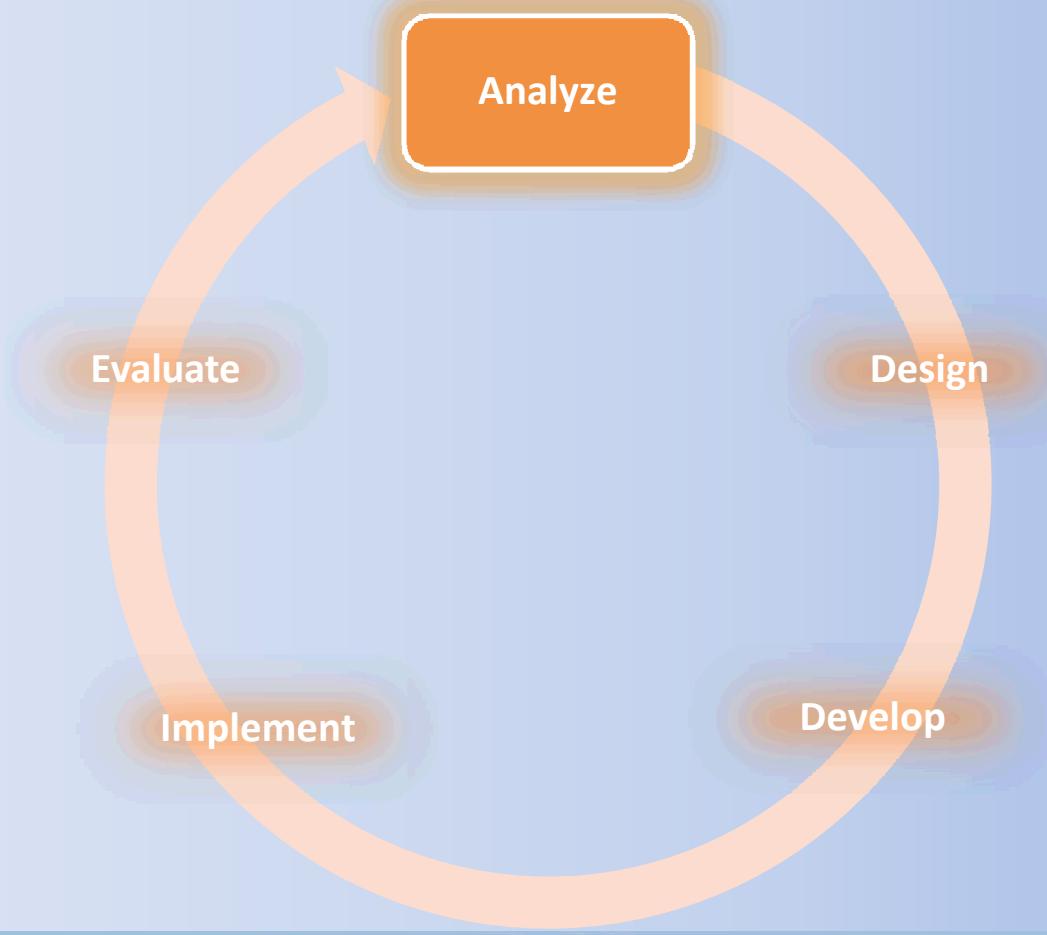


# Feedback is essential!

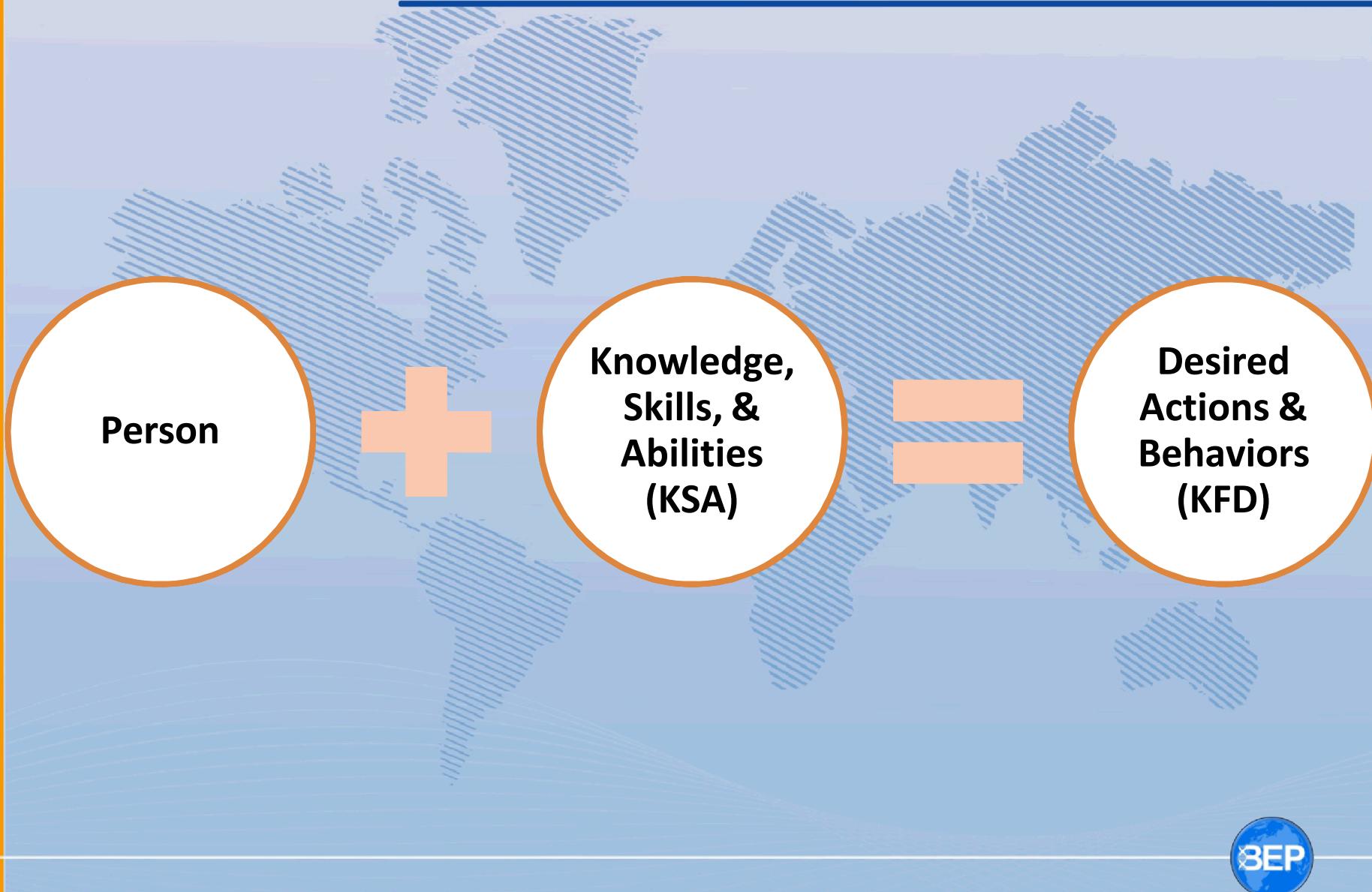


**Biorisk Management =**  
**Assessment, Mitigation, Performance**

# Training Design Cycle



# Wrap-Up



# Action Plan to support Implementation tests in 2014

- Assemble guidelines and Action Plan to support introduction, on an experimental basis, in 2014
- Identify goals and evaluation means for 2014
- Should the Action Plan be common or different for each university/faculty? Depends on needs and gaps



# Action Plan to support Implementation tests in 2014

| Students<br>(Levels/Courses)     | Time     | Format                | Learning Objectives (KFD)  | Resources  | Needs and Gaps to Overcome  |
|----------------------------------|----------|-----------------------|--|--|---|
| Undergraduate Medical Laboratory | 12 hours | Lectures + Activities | <p>Raised awareness about safety and security</p> <p>Know regulations</p> <p>Be able to report incidents</p> | <p>GBRMC key messages X, KM YZ</p> <p>Bioethics</p> <p>CWA15793</p> <p>Others...</p> | <p>Access to materials</p> <p>Facilitated learning technique (large classes?)</p> |
|                                  |          |                       |  |  |   |

# Longer Term Perspectives

---

- What interest and perspectives for AY14/15 and beyond
- How to include biosecurity/biorisk management in curricula reform processes?



# Thank You!

