

Regional Workshop on  
*Radioactive Source Security:  
Ensuring an Effective Response*

**27-29 February 2024**  
**Manila, The Philippines**



World Institute for  
Nuclear Security

# OPENING REMARKS



**ORS**

Office of Radiological Security

*Protect • Remove • Reduce*

# WINS Purpose and Objectives



WINS' primary purpose is to improve the professionalism and competence of all those involved in nuclear security so that nuclear and other radioactive material are not used for a criminal or terrorist purposes.

WINS' overall objective is to enhance the nuclear security profession and the associated regulatory and management systems that support nuclear security.

# WINS Services



**Network  
of members  
worldwide**



**Share Operational  
Experience**



**Knowledge  
Centre**



**Training  
and  
Certification**



**Benchmarking  
and  
Evaluation**

# Developing Competencies WINS Best Practice Guides

## GROUP 5: Security of Radioactive Sources



## The WINS Academy: Professional Development and Certification *Radioactive Source Security Management*

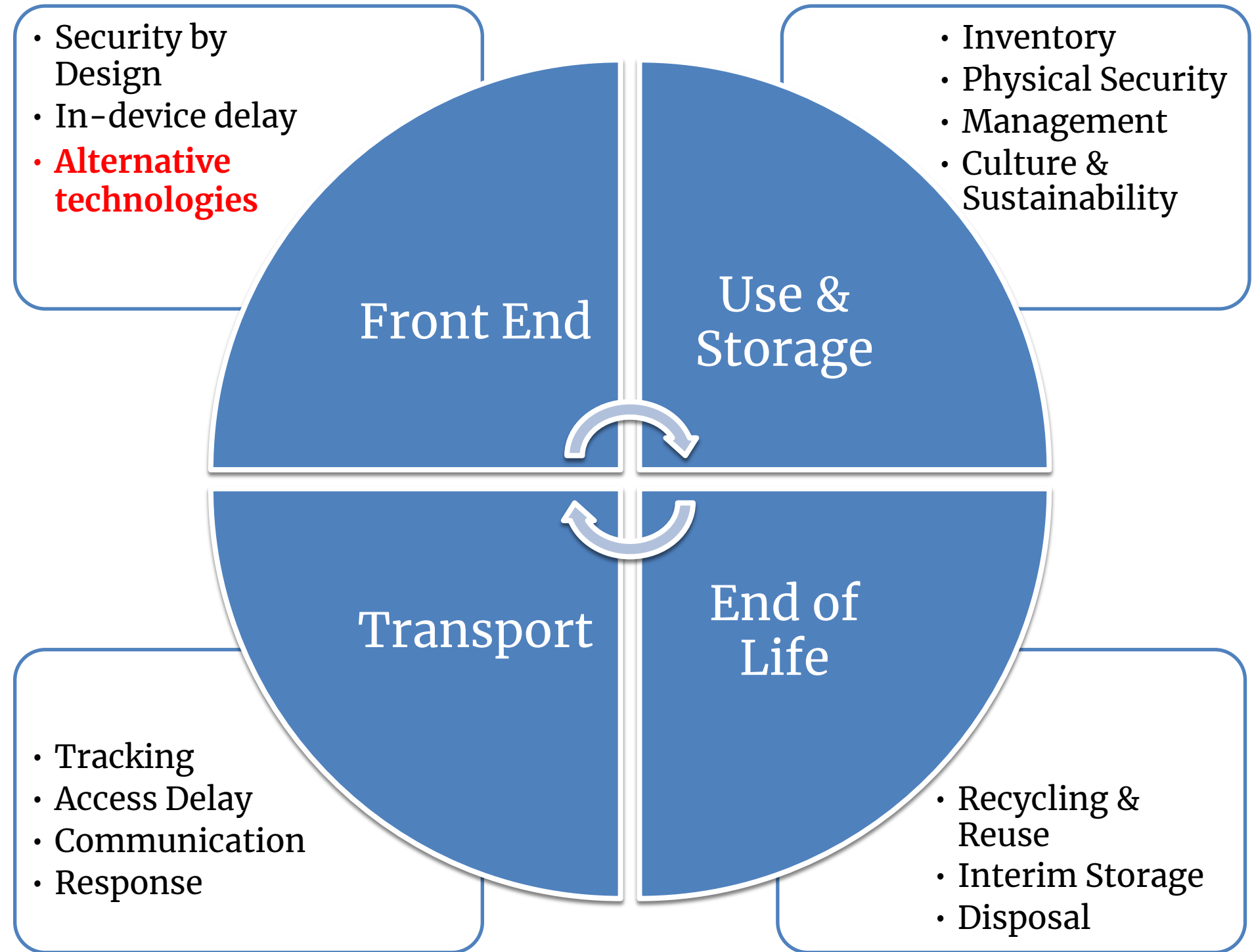
- Professional knowledge development
- Recognition of achievement
- Demonstrable competence
- Problem-solving approach
- Practitioner-focused, cross-disciplinary and immediately useful
- Practical information with case studies, exercises and questions for reflection



**Radioactive Source Security  
Management**

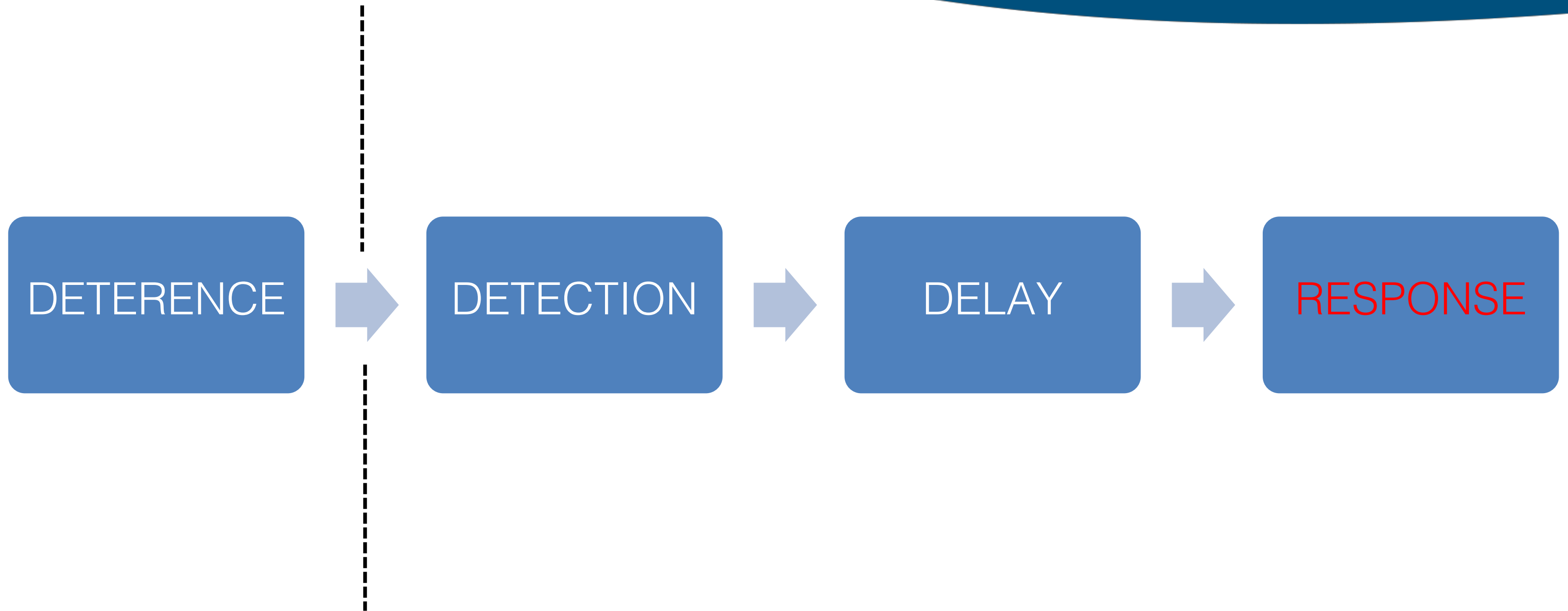
 **CNS<sup>5</sup>P** | Certified Nuclear Security  
specialised Professional  
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# Radioactive Sources Security



**Effective Regulations**

# Response as an Essential elements of Physical Protection

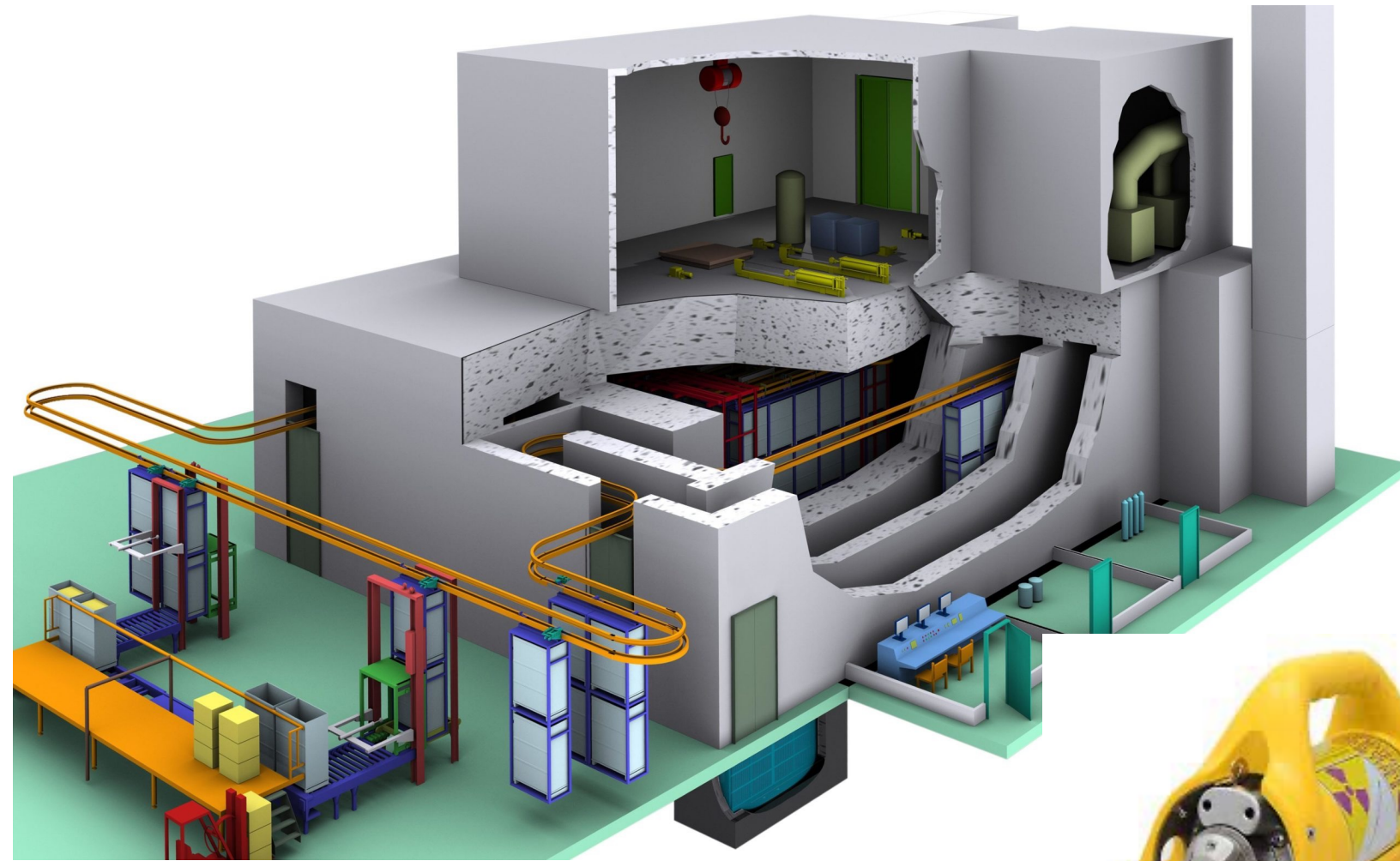




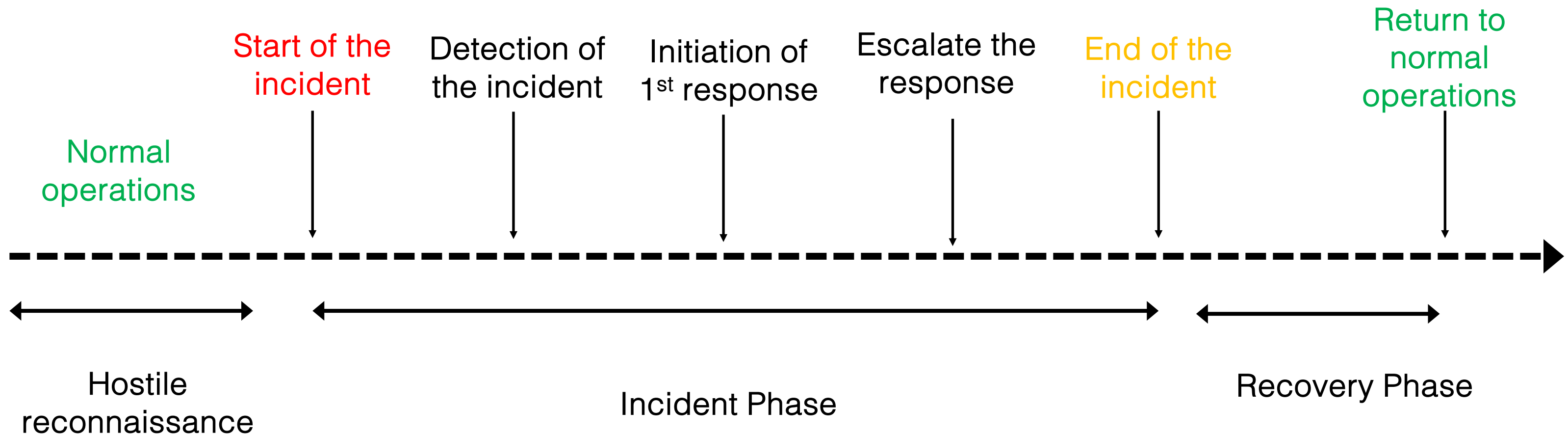
# Understanding the threat



# Radioactive sources and response



# Simplified Timeline of an incident



# The need for engaging with all stakeholders



# Demonstrate readiness



**Measure your performance!**

**Practice!**



# Some challenges to effective response

- ❑ Response is a specialised area (How do “nuclear” regulators assess law enforcement agencies performance?)
- ❑ Effective alarm assessment (Transforming a detection into a response action)
- ❑ Assessing response time (Arrival time of 1<sup>st</sup> responders on site? Containment strategy completed? Etc.)
- ❑ Credible training and exercise scenarios
- ❑ Effective coordination between stakeholders (communication and control issues)



# Workshop Objectives

- ❑ Understand the importance of response in radioactive source security planning and identify the prerequisites to effective response
- ❑ Explore the roles and responsibilities of the various stakeholders involved in the development and implementation of response arrangements
- ❑ Review the various stages of security response and the need to coordinate the actions of security forces with other emergency responders such as ambulances and fire departments
- ❑ Share experiences and lessons learned from responding to a security incident or practising security response arrangements

# Workshop Agenda

## DAY 1

- Opening Session
- Understanding roles and responsibilities for effective response
- Addressing Response in Security Regulations
- Steady State Security Posture
- Attack phase: early stages
- Dynamic State

## DAY 2

- Case studies
- Return to Normal Operations
- Interpol experience
- Developing Security Systems with Response in Mind

## DAY 3

- Table-Top Exercise: Notional Facility
- Best Practices for Interagency Cooperation
- Main Take-aways
- Conclusion session



- ❑ PRESENTATIONS
- ❑ PANELS OF EXPERTS
- ❑ PLENARY AND TABLE DISCUSSIONS
- ❑ BREAK-OUT GROUPS
- ❑ E-VOTING (MENTIMETER)



- LEARN, SHARE, CONTRIBUTE
- MEET & NETWORK
- ENJOY YOUR TIME



SITUATION IS IMPROVED!

- ACTIONS FOR YOURSELF
- SUGGESTIONS FOR YOUR ORGANISATION

**IDEAS**  
into  
A·C·T·I·O·N

- Please let me know if you want to speak or gently interrupt the speaker.
- Be here, not on the internet!
- Phones to silent, and answer calls outside the room please
- Take part, ask, share information useful to others
- If you disagree with someone, ask them why they think the way they do...before telling them why you think they are wrong
- Keep to the timetable, and be ready to start after breaks and lunch











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# Participant Introduction and Expectations



## What type of organisation do you represent?

1. End-users (Licensees)
2. Regulators and technical support organisations
3. Law enforcement agencies
4. Other governmental bodies
5. Education and training organisations
6. Vendors and consultants
7. International organisations
8. Others



To vote, go to [www.menti.com](http://www.menti.com) and use the code **7199 6325**

# Introduction and Expectations

At your tables, please:

- Briefly introduce yourselves (name, job function, organisation, country)
- Share your expectations of this workshop – what would make it a real success for you?

## Session 2

# Understanding roles and responsibilities for effective response

- ❑ Developing a comprehensive perspective
- ❑ Identifying key players
- ❑ Assessing our level of satisfaction with their contribution

# What do we need to prepare for?

What could happen at a facility?



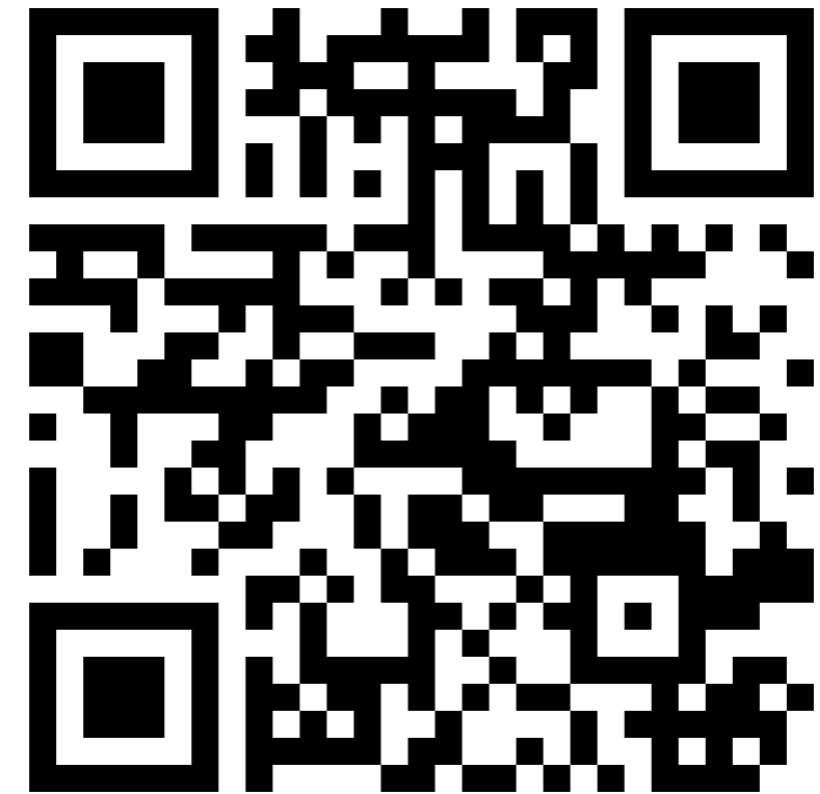
Who should respond to such a situation?

# What do we need to prepare for?

What are the scenarios we need to protect against?

1. Who are the adversaries?
2. What do they want to do at the facility?

**What stakeholder organisations need to be involved for an effective response to security incidents?**



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At your tables,

Discuss how satisfied you are with the contribution of the stakeholders that need to respond to a security incident at a facility





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# Coffee Break



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## Session 3

# Addressing Response in Security Regulations

- ❑ How do you address response matters in regulations?
- ❑ What is the role of Regulators in Response?
- ❑ What are the other stakeholders that need to be involved?

**How satisfied are you with how your regulations address response matters?**



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# Addressing Response in Security Regulations

February 27, 2024



Global  
Material  
Security



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- Reflect on the presentation and share your perspective and experience regulating response matters



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## Case Study

# Australia Missing Radioactive Source (2023)

**Julie Murray**  
**ARPANSA, Australia**



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## Session 5

# Steady State Security Posture

- ❑ How do you develop staff situational awareness during normal operations?
- ❑ How do you educate external responders to the radiological risk?
- ❑ How do you demonstrate the preparedness of security response arrangements?



**POLICE**  
**SCOTLAND**  
Keeping people safe  
**POILEAS ALBA**

**Detective Sergeant Ian Walker**

**Police Scotland**  
**Counter Terrorism Security Adviser – CTSA**

**Specialist Crime Division - Organised Crime and Counter Terrorism Unit**

**Our Security arrangements for sources are robust: We are ready to respond to a security incident!**

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How do you demonstrate readiness? Give us some examples!

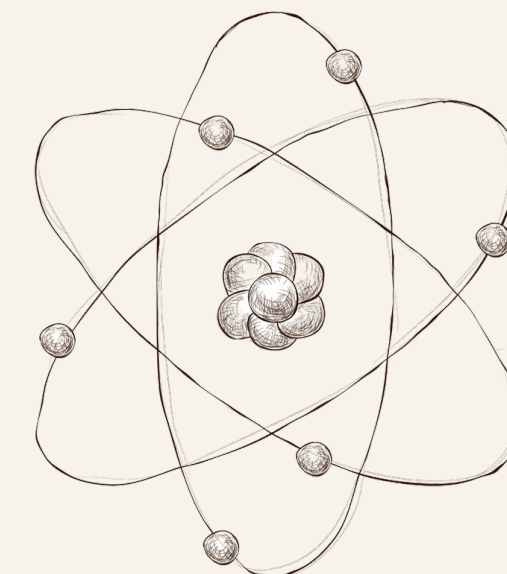
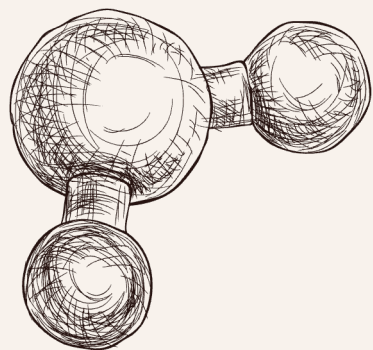


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## Session 6

# Attack Phase Early Stages

- ❑ Who are the internal and external stakeholders involved in the initial response activities?
- ❑ How do you ensure effective alarm assessment and communication?
- ❑ What are good practices for deploying first responders?



# DETECTING RADIOACTIVE INCIDENT AND INITIATING THE INITIAL RESPONSE IN EARLY STAGE

SP Dr. Kedar Khadgi  
Nepal Police Hospital  
Nepal





**I believe that alarms will be effectively communicated to first responders in case of a security incident at a facility**



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What could be barriers to effective alarm assessment and communication?

1. What are the immediate actions that 1<sup>st</sup> responders should take?
2. What challenge could they face?



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# Coffee Break



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## Session 7

# Dynamic State

- ❑ Who are the internal and external stakeholders involved in the initial response activities?
- ❑ How do you ensure effective alarm assessment and communication?
- ❑ What are good practices for deploying first responders?

# **Vietnam approach to responding to a security incident involving a source in use or storage**

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## **Workshop on Radioactive Source Security: Ensuring an Effective Response**

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**Philippines, 2024**

Ensuring that responders have the necessary understanding and knowledge of radioactive sources and associated radiological risk

- At your tables, share examples of activities conducted to inform and educate responders





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# **Workshop on Radioactive Source Security: Ensuring an Effective Response**

**Manila, Philippine  
27-29 February 2024**

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**Ms. Phanousone PHOUYAVONG  
Radiation And Nuclear Safety Office  
Ministry Of Education And Sports  
Lao People Democratic Republic**

## Discussion on operational challenges in responding to an actual incident

- Who decides to escalate the response?
- What stakeholders are involved and what is their role?  
Who takes the lead?
- How do you address coordination and communication challenges amongst multiple agencies?

# Summary of Day 1

Any questions about topics of today that have not been addressed?

Please give them to Carl or Pierre by 09:00am tomorrow morning!

# End of Day 1 !

## Enjoy the cocktail!



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# Regional Workshop on Radioactive Source Security: Ensuring an Effective Response

## Day 2

**27-29 February 2024**  
**Manila, The Philippines**



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# Summary of Day 1

At your tables,

- Review what we discussed yesterday
- Share your initial take-aways
- Identify any pending questions



## Interagency coordination panel

- ❑ PNRI – Christopher Mendoza
- ❑ PNP – Justin Larioza
- ❑ Bureau of Fire Protection – Raymart De Guzman
- ❑ Armed Forces of the Philippines – Jonas Templo
- ❑ Customs – Erwin Kristoffer

# Introduction of Day 2

# Case Study – Sri Lanka



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# Session 8 – The Atkins Case Study



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- ❑ What are credible insider threat scenarios?
- ❑ What are potential preventive and protective measures?
- ❑ How do insider matters impact response arrangements?
- ❑ What are our lessons learned from actual cases?

# Presentation and video



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# Coffee Break

# Session 9 – Return to normal operations



- ❑ What are the required steps before returning to normal operations?
- ❑ What actions need to be taken towards the regulatory body and other relevant authorities?
- ❑ How do you ensure the consolidation and sharing of lessons learned?



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# Panel Discussion

- ❑ Immediate actions once the threat has been neutralised
- ❑ Investigations and need for gathering evidence
- ❑ Prerequisites to resuming operations
- ❑ Informing relevant stakeholders

At your tables,

Discuss the process for consolidating lessons learned from incidents and sharing them in your country and internationally

# Session 10 – The INTERPOL experience



# International Workshop on Radioactive Source Security: Ensuring an Effective Response

**Radiological and Nuclear Terrorism Prevention Unit  
Project Geiger**

Manila, Philippines, 27 to 29 February 2024



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**LUNCH**

# Session 11a – Break-out Session

## Holistic approach: Developing Security Systems with Response in Mind





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# Coffee Break

# Session 11b – Break-out Session

## Brief Back!

# Initial take aways

In your groups, reflect on the previous 2 days and identify key learning points

Are there any outstanding questions?

Adversaries, stakeholders and scenarios

Regulators and regulation

Being ready to respond – plans, procedures, training etc

Alarms and 1<sup>st</sup> responders

Escalating and neutralise adversary

Recovery phase

Insiders and criminals

# Summary of Day 2

# End of Day 2

# Regional Workshop on Radioactive Source Security: Ensuring an Effective Response

## Day 3

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# Introduction of Day 3



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# International Radiological Security Awareness and Response – Tabletop Exercise

Office of Radiological Security

March 2024



Global  
Material  
Security



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# Coffee Break



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# Panel Discussion on effective collaboration between national agencies

## Interagency coordination – A Philippines perspective

- ❑ PNRI – Christopher Mendoza
- ❑ PNP – Justin Larioza
- ❑ Bureau of Fire Protection – Raymart De Guzman
- ❑ Armed Forces of the Philippines – Jonas Templo
- ❑ Customs – Erwin Kristoffer

- Role of your organisation in case of a radiological emergency
- Collaboration with other stakeholders
- Examples of activities for ensuring an effective collaboration amongst various agencies
- Top advice to another similar organisation willing to improve its collaboration with other agencies
- Key learning from this workshop

# Ensuring an effective collaboration between national agencies

Building on the Panel discussion, talk about further examples of activities you have done to improve inter agency collaboration.

Be prepared to share these with the room!



# Conclusion Session



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# Workshop take-aways



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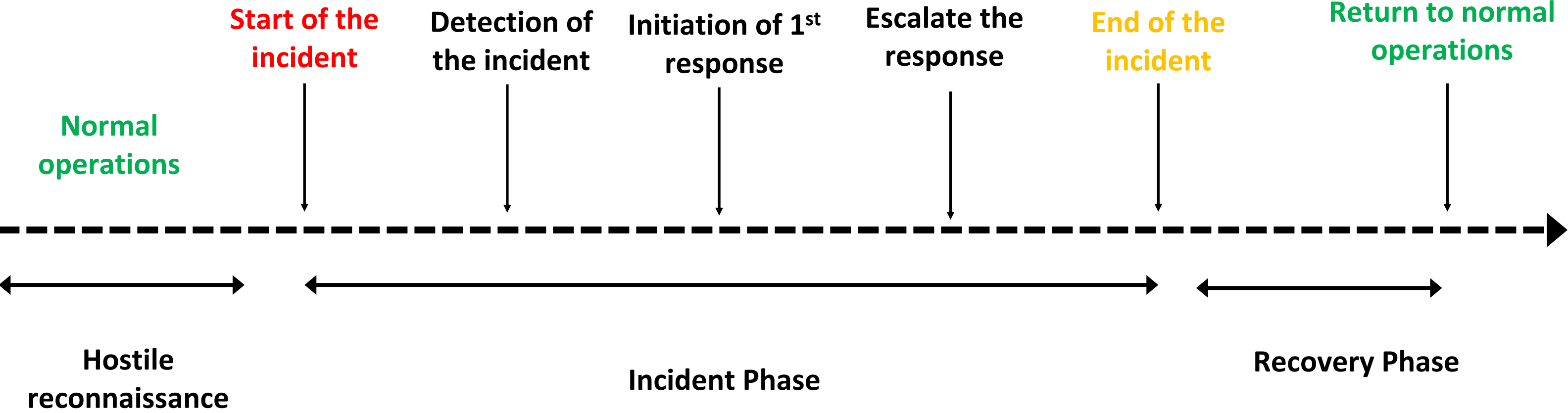


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# Simplified Timeline of an incident



Adversaries, stakeholders and scenarios

Regulators and regulation

Being ready to respond – plans, procedures, training etc

Alarms and 1<sup>st</sup> responders

Escalate and neutralise adversary

Recovery phase

Inter-agency collaboration

## Using the form, identify

- Your 3 main take-aways
- One action that you will take after the workshop
- One suggestion to your management

Go and meet the other representatives of your country and discuss your main take-aways and follow up actions.

(Filipino delegates, please meet per organisations)

Be prepared to share one action you will be taking in the next few weeks



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# Workshop evaluation



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**How satisfied are you with this workshop?**

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**When thinking about security of radioactive sources, what ideas do you have for future workshops?**

To vote, go to [www.menti.com](http://www.menti.com) and use the code **7199 6325**



# Closing Remarks

# End of the Workshop!