

# Long Term Risk Management - Management of Residual ERW (MORE) CMRS workshop, Washington DC, 8 June 2017

# **Rob White**

Advisor, Strategic Management & Residual  
Contamination

[r.white@gichd.org](mailto:r.white@gichd.org)

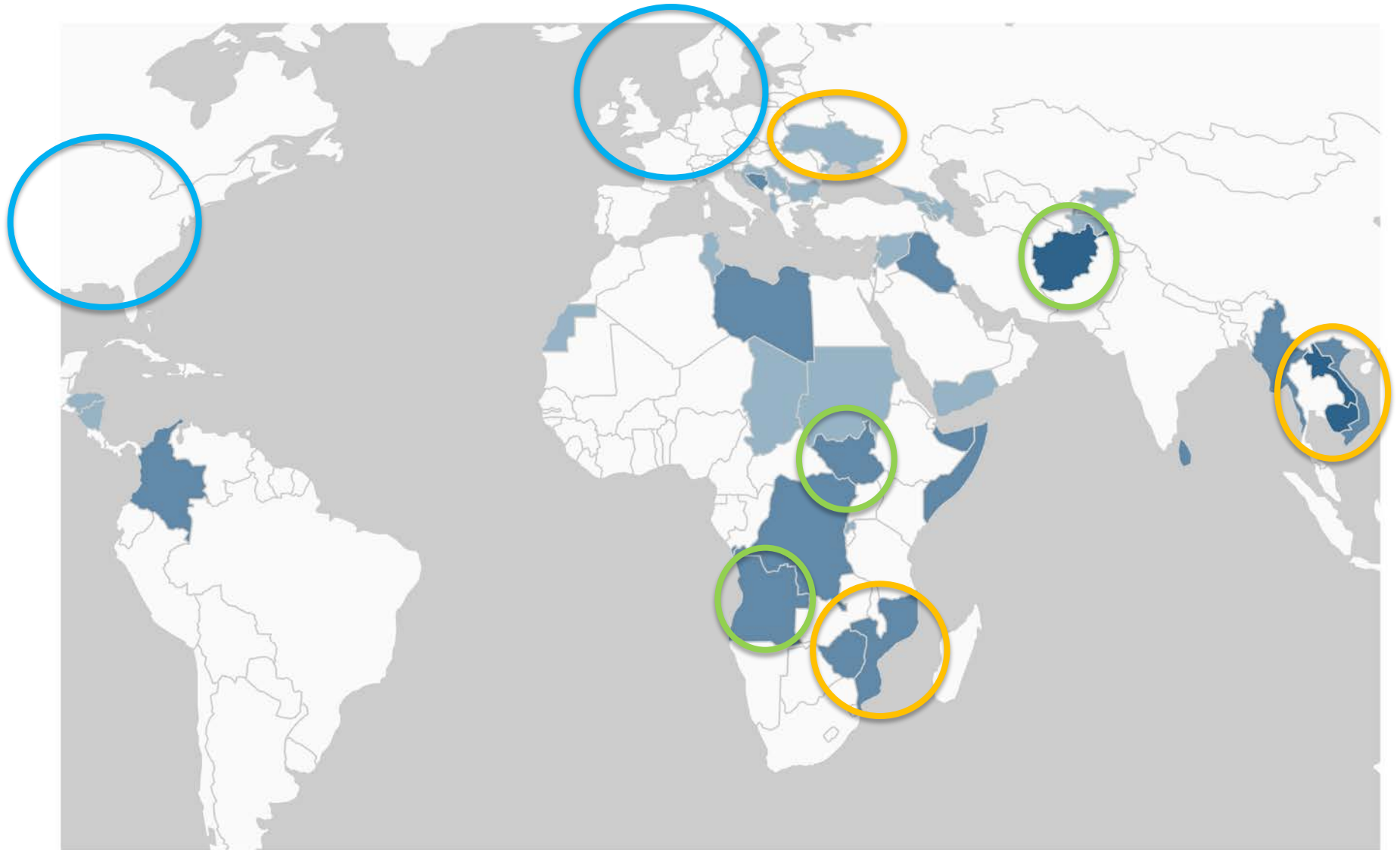
# Objectives

- What is Management of Residual ERW (MORE)?
- MORE and risk management
- MORE and IMAS
- MORE and strategic planning
- MORE and Information Management (IM)



**GICHD**

# What is MORE? MAPs



Disclaimer: The map above is for illustrative purposes and does not imply the expression of any opinion on the part of the GICHD concerning the legal status of any country or territory or concerning the delimitation of frontiers or boundaries. Some countries/territories highlighted in this map may not have landmine/ERW contamination. © GICHD 2016

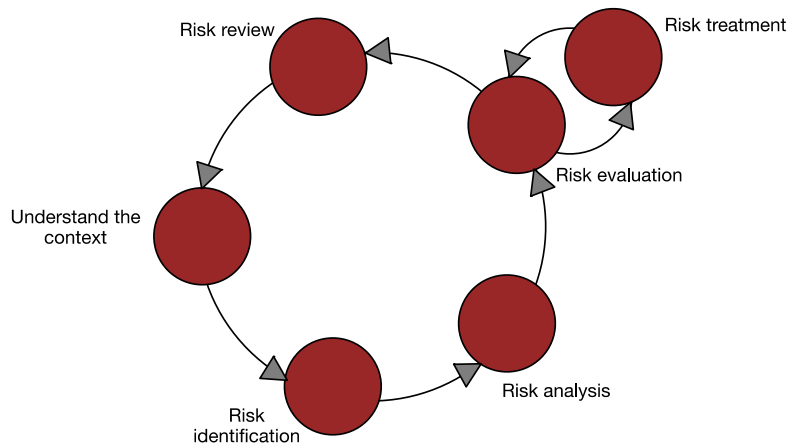
## Objectives

- What is MORE?
- **MORE and risk management**
- MORE and IMAS
- MORE and strategic planning
- MORE and Information Management (IM)



Risk is the *'effect of uncertainty on objectives'*

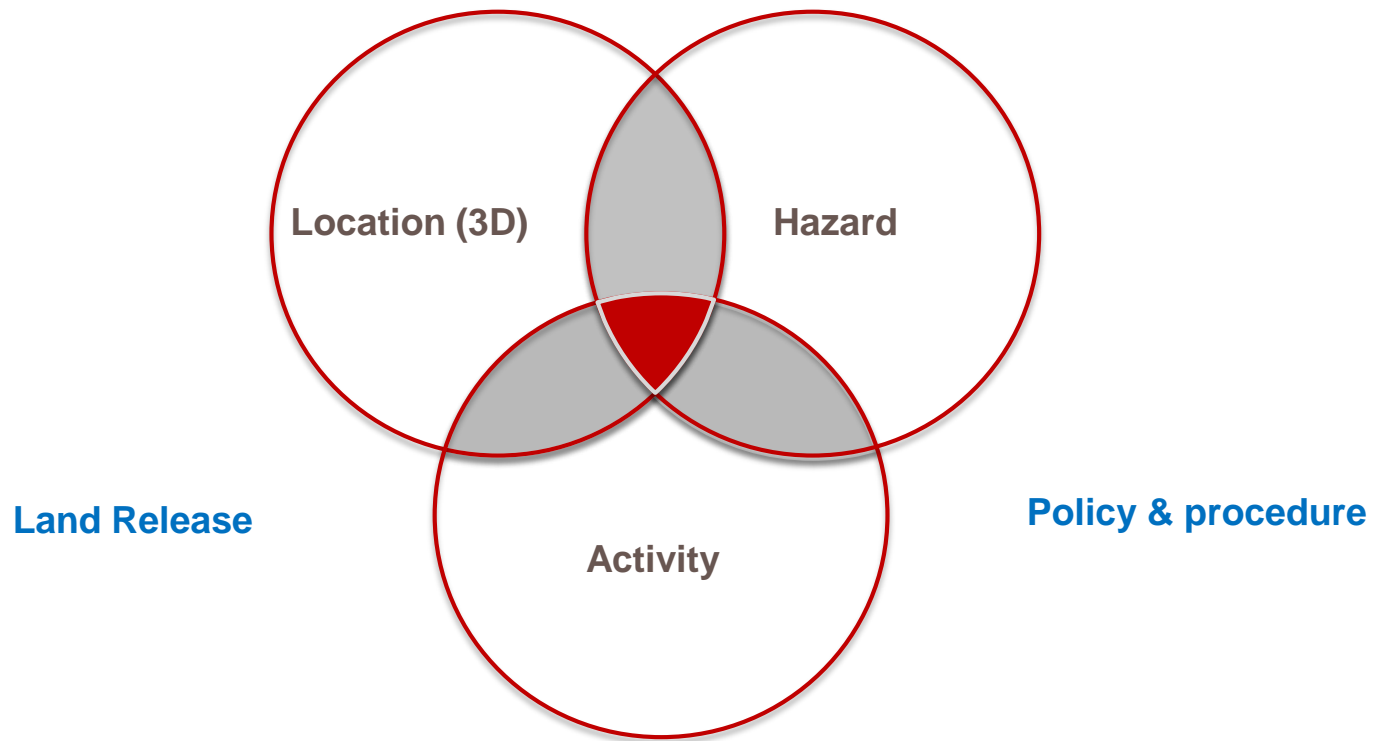
- ISO 31000:2009 Risk management - Principles and guidelines



- Risk is often characterized by reference to:
  - Potential events
  - Potential consequences
- Risk is often expressed in terms of:
  - Likelihood
  - Consequence

# Real ERW Risks

Prioritisation

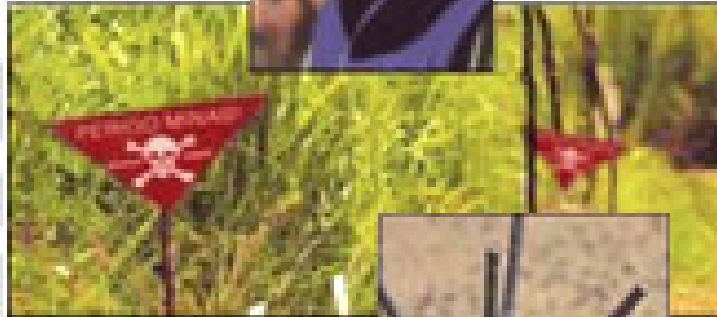


## Objectives

- What is MORE?
- MORE and risk management
- **MORE and IMAS**
- MORE and strategic planning
- MORE and Information Management (IM)



# 'Residual' IMAS Status



**IMAS**



## **Residual contamination**

*“RC refers to contamination which gives rise to residual risk”*

[Approved at IMAS RB meeting, 2016]

## **residual risk**

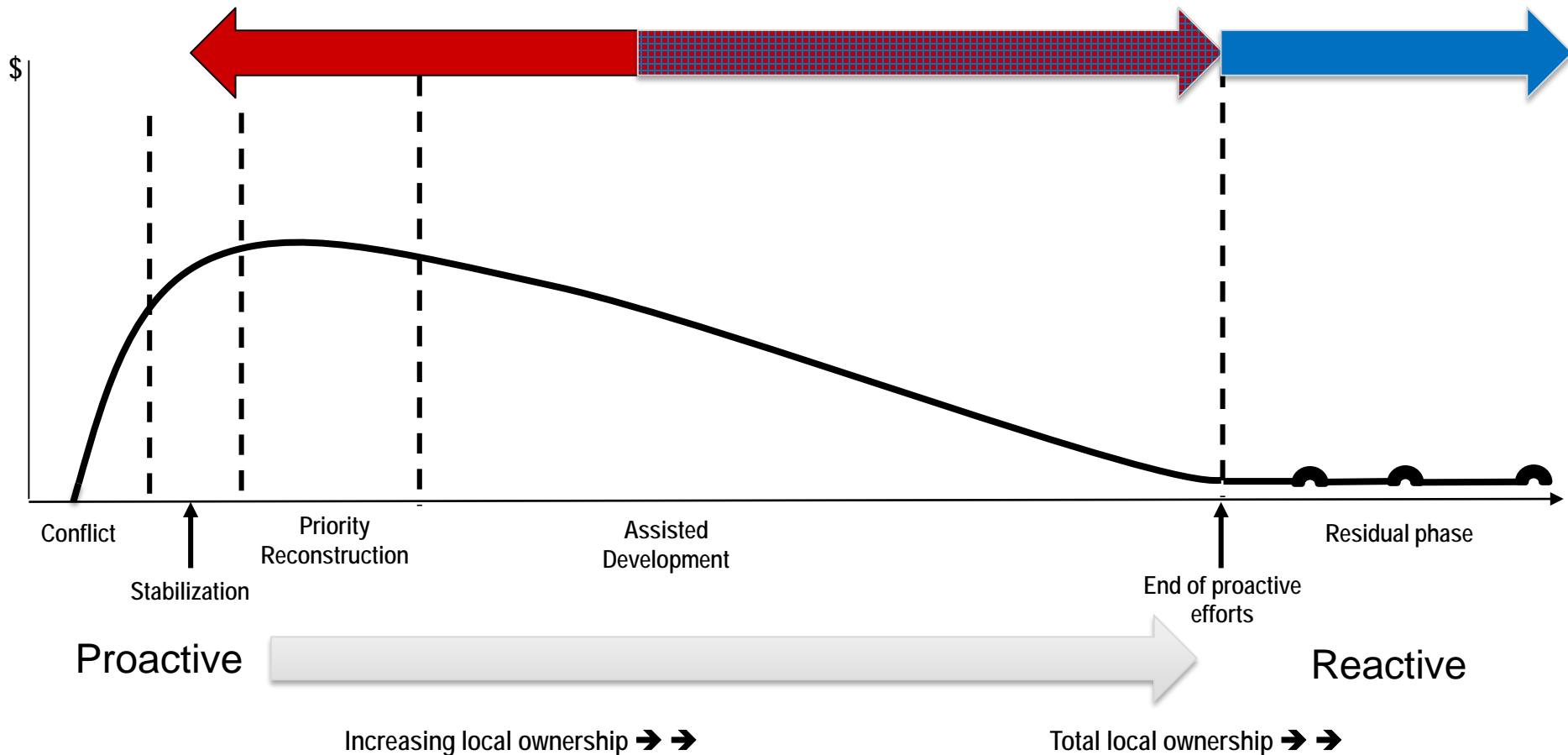
*“in the context of humanitarian demining, the term refers to..... the risk remaining following the application of **all reasonable efforts** to remove and/or destroy all mine or ERW hazards from a specified area to a specified depth.”*

[Modified from ISO Guide 51:1999]

## Objectives

- What is MORE?
- MORE and risk management
- MORE and IMAS
- **MORE and strategic planning**
- MORE and Information Management (IM)

# Programme Life Cycle for Mine Action – importance of Planning for MORE



- How are circumstances likely to change?
- What aspects of Long Term Risk Management will be important in the future?
- How have other countries dealt with similar situations?
  - UK, Germany, Albania, Japan, Mozambique....

## NEWS

Home Video World UK Business Tech Science Magazine Entertainment & Arts Health World News TV More

England Regions London

### World War Two bomb removed from River Thames and exploded

20 January 2017 | London

Share



ROYAL NAVY

The device was identified as a German SD 50kg bomb

An unexploded 50kg World War Two bomb found in the River Thames has been removed and exploded.

The operation by the Royal Navy and Metropolitan Police forced Waterloo Bridge, Westminster Bridge and Victoria Embankment in central London to shut.

A Ministry of Defence spokesman said the WW2 device had been towed along the river to Tilbury, Essex, where it was safely detonated.

Police had been called to the river at 17:15 GMT on Thursday.

Identified as a German SD 50kg bomb, a small armour-

#### LIVE BBC London Live: Latest updates

27 minutes ago  
Man arrested in connection with allotment murder

#### Top Stories

Trump backs under-fire attorney general

2 hours ago

Jane Fonda reveals rape and child abuse

3 hours ago

Moment BBC team attacked in China

2 March 2017

#### Features



'I saved commuter who dropped her phone on tracks'



## News

UK World Politics Science Education Health Brexit Royals Investigations Entertainment Pictures

### Two schools evacuated and army called in over unexploded Second World War bomb

share

comment

comment



By Telegraph Reporters  
3 MARCH 2017 - 9:44AM

Two schools and nearby homes have been evacuated after a suspected Second World War bomb was discovered on a building site.

A huge cordon is in place and roads have been closed after the unexploded device was found near Erondesbury Park in Brent, north-west London.



The Second World War bomb was discovered on a building site in Brent.

The army has been called in to deal with the bomb while police and the fire service also remain on the scene, Brent Council said.

#### NEWS MOST VIEWED

1 McDonald's announces plans to begin home delivery service in the UK  
02 Mar 2017, 1:44pm

2 Disney's first 'exclusively gay moment' hits screens in Beauty and the Beast  
01 Mar 2017, 11:28pm

3 Photos of a young, shirtless Justin Trudeau send the internet into a frenzy  
02 Mar 2017, 9:09am

4 1,500 people, two Mercedes Benzes, 459 tonnes of luggage and a golden escalator: how the Saudi King travels  
02 Mar 2017, 1:49pm

5 Rapist attacked new victim on his wedding day after being freed early from a life term despite a judge warning he would strike again  
02 Mar 2017, 6:38pm

Sponsored by Barneby's



18K White Gold 1.54 CTW Diamond Ring

Est: —  
Everything But The House

View lot

## **BBC, Hannover evacuates 50,000 over 'World War Two bombs', 7 May 2017**

About 50,000 people in Hannover are being evacuated from their homes while experts defuse five suspected World War Two bombs.

The operation is the second largest of its kind carried out in Germany, and will affect around a tenth of the city's population. The buildings being evacuated include seven care homes, a clinic, and a Continental tyre plant.. Officials hope those affected will be able to return home by the evening.



## **BBC, Greek WW2 bomb forces huge Thessaloniki evacuation, 11 February 2017**

At least 70,000 people in the Greek city of Thessaloniki are being evacuated so that a 500lb World War Two bomb can be defused, officials say.

It is thought to be one of the largest wartime bombs to be found in urban Greece in addition to being one of the largest mass evacuations.

The bomb was discovered during road works last week and is due to be disposed of on Sunday.



## Objectives

- What is MORE?
- MORE and risk management
- MORE and IMAS
- MORE and strategic planning
- **MORE and Information Management (IM)**



## MORE and Information Management (IM)

- Collecting data
  - What data do we need?
  - How do we collect it?
- Analysing data
  - Understanding technical aspects of ERW
  - Understanding quantitative risk aspects of ERW



**GICHD**

# Data Gathering Case Study: Munitions Exploitation - Ageing Study

- Collecting detailed technical data about the condition, functioning and risks associated with specific weapons
- Understanding the effects of ageing on weapons and implications for risk
- Only to be carried out by highly competent specialist personnel – not something for the typical EOD operator to attempt



Manual disassembly and cuts



# Corrosion and expansion



# Conclusions

- MORE is about risk management; the strategic move from proactive to a reactive response
- Risk management relies upon the availability of data and information
- MORE is already being applied in many countries
- Each country and region offers specific issues, but there is scope to learn from the experience of others
- **Start collecting, correcting, consolidating (relevant) data now!**

# Questions?



# Rob White

Advisor, Strategic Management & Residual  
Contamination

[r.white@gichd.org](mailto:r.white@gichd.org)

# Thank you