

ACW Destruction Project in China

Presentation at the CWD 2015

JUNE 2015



Kenichi TAKAHASHI

Director-General

Abandoned Chemical Weapons Office,
Cabinet Office, Government of Japan

1

Overview

- 1-1 Three sub-projects
- 1-2 Chronological Background
- 1-3 Transition of Government Budget
- 1-4 Characteristics of ACW project

2

Status Update

- 2-1 Excavation & Recovery
- 2-2 Destruction with Mobile Destruction Facility (MDF)
- 2-3 Haerbaling Project
- 2-4 Destruction Status

1 Overview

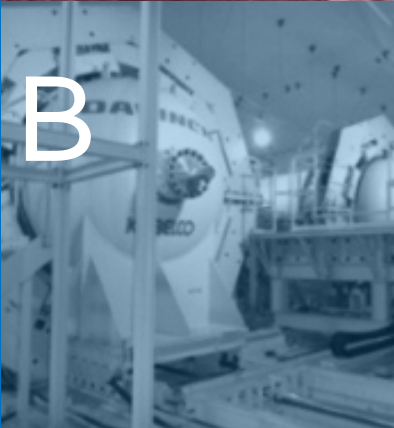
1-1 Three Projects



A

Excavation & Recovery

Field Operation
Identification by X-ray



B

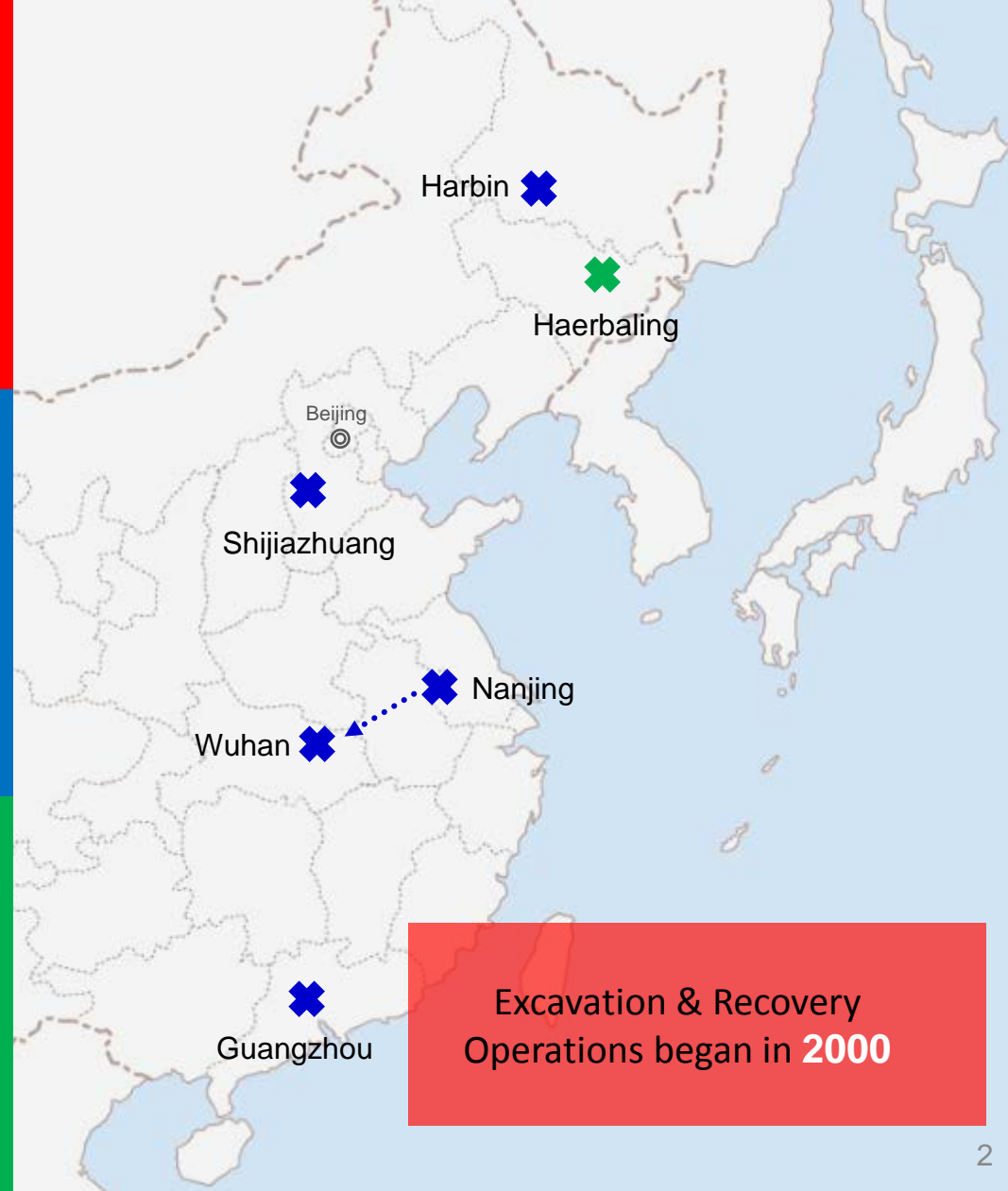
Destruction with Mobile Destruction Facility (MDF)



C

Haerbaling

Excavation & Recovery
Destruction



1 Overview

1-2 Chronological Background



2000

1st excavation & recovery operation in Beian



2007

JPN & CHN PMs agreed on the introduction of Mobile Destruction Facility (MDF)

2010

Destruction project in Nanjing MDF **started**



2012

Destruction operation in Nanjing **completed**
Excavation & recovery project in Haerbaling **started**
Destruction project in Shijiazhuang MDF **started**



2014

Haerbaling Test Destruction operation **started**
Destruction project in Wuhan MDF **started**



2015

Destruction project in Wuhan MDF site is ongoing
(Destruction of ACWs completed in May)

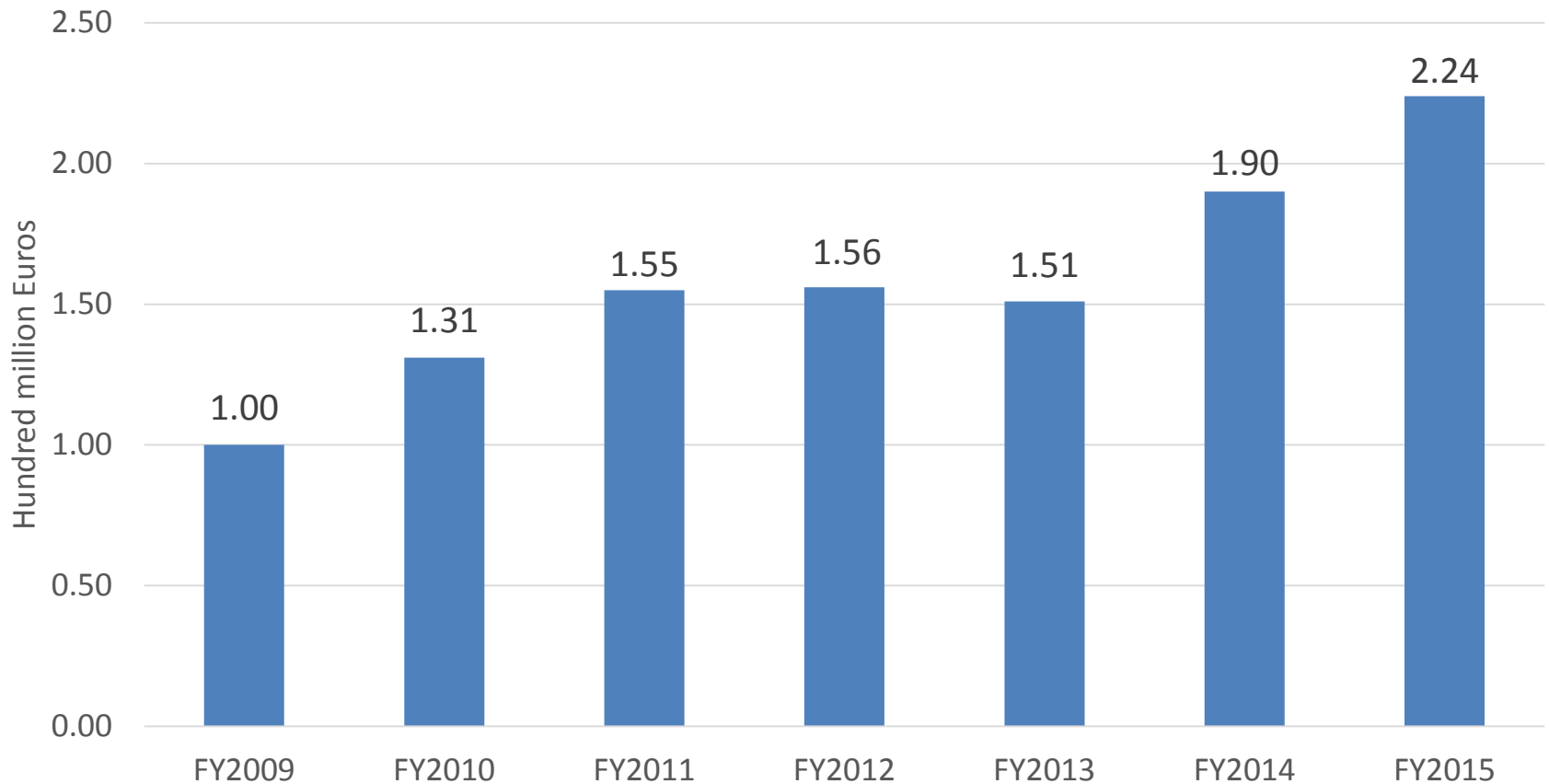


1 Overview

1-3 Transition of Government Budget



Transition of government budget
allocated for ACW project



1.00EUR = 140.00JPY
JPN government rate for FY2015

1 Overview

1-4 Characteristics of ACW project



1. Difficulty to precisely predict the numbers and location of ACWs

ACWs
scattered in China



2. ACWs left in the least preferable environment



3. Joint project between Japan and China
- Close cooperation is essential -



2 Status Update (June 2014 to present)



2-1 Excavation & Recovery



Hunchun, Jilin Province



Guangzhou, Guangdong Province



Hunchun, Jilin Province



Shijiazhuang, Hebei Province

2 Status Update (June 2014 to present)



2-1 Excavation & Recovery - Overview

TAIYUAN

Shanxi Province



TAIYUAN
Dec. 2014 to Aug. 2015
(TBC)

DUNHUA

June to Dec. 2014

DUNHUA

Jilin Province



2 Status Update (June 2014 to present)

2-1 Excavation and Recovery - DUNHUA -



1. Operation period

Phase 1: 24th June to 16th August 2014

Phase 2: 27th August to 25th September 2014

Phase 3: 8th October to 3rd December 2014



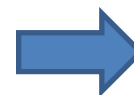
2. Location

The site is located near Dunhua's city center, close to a gas station, school, factory, and residences. Thus, safety measures were taken to ensure the local community's safety.



3. Status Update

The operation ended on 30 November 2014.



1,496 ACWs confirmed

2 Status Update (June 2014 to present)

2-1 Excavation and Recovery - TAIYUAN -



1. Operation period

Phase 1: 18th December to 13th February 2015

Phase 2: 16th April to 9th June 2015 (ongoing)

Phase 3: 30th June to 20th August 2015



2. Location

The site is located near an urban residential area. Original plans were to build condominiums at the site.



3. Status Update

By the end of phase 1, **247** ACWs were recovered.

2 Status Update (June 2014 to present)

2-2 Destruction with Mobile Destruction Facility



Shijiazhuang
Hebei Province



Shijiazhuang MDF site



Wuhan
Hubei Province



Wuhan MDF site

2 Status Update (June 2014 to present)

2-2 Destruction with Mobile Destruction Facility



SHIJIAZHUANG

Destruction period

Phase 1: Dec. 2012

Phase 2: May to July 2013

Phase 3: Sep. to Nov. 2014

Destroyed

1,692



WUHAN

Destruction period

Phase 1: December, 2014

Phase 2: Apr. to May 2015

Destroyed

264



2 Status Update (June 2014 to present)

2-2 Destruction with Mobile Destruction Facility in Shijiazhuang



Destruction period

Phase 1: December 2012

Phase 2: May to July 2013

Phase 3: 15th September to 10th November 2014

Result of destruction operation in Shijiazhuang

2012	Phase 1 :	250
2013	Phase 2:	1,133
2014	Phase 3:	309
Total number destroyed		1,692

ACWs
are transported from:

- Shouyang
- Tangshan
- Tianjin
- Handan
- Datong
- Beijing



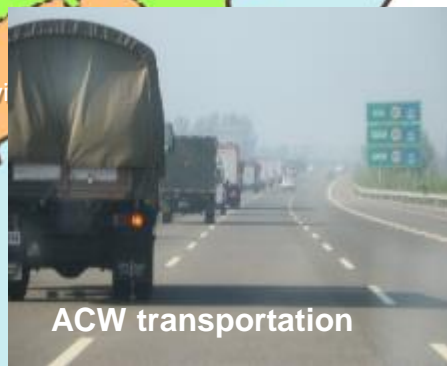
2 Status Update (June 2014 to present)



2-2 Destruction with Mobile Destruction Facility in Wuhan



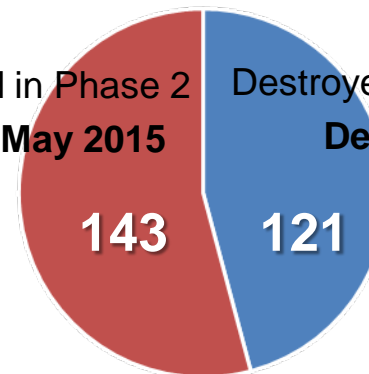
Destruction by Detonation Chamber



ACW transportation

Destroyed in Phase 2
April to May 2015

Destroyed in Phase 1
Dec. 2014



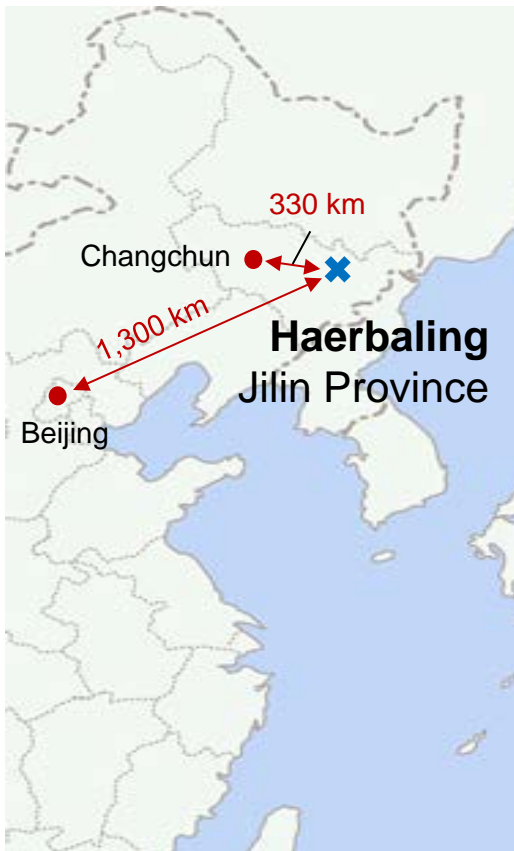
264 / 264

→ Transportation (Phase 1)

→ Transportation (Phase 2)

2 Status Update (June 2014 to present)

2-3 Haerbaling Project



2 Status Update (June 2014 to present)



2-3 Haerbaling project – Test Destruction

*As of 31 May 2015

- Inauguration ceremony was held on 30th November, 2014
- 319 ACWs have been destroyed* since the beginning of destruction operation on 1st December 2014, using two destruction facilities



Controlled Detonation Chamber

Haerbaling Test Destruction

Operation period

Phase 1: 1 to 4 December 2014

Phase 2: 27 April to 30 July 2015

ACWs destroyed * **319**



**Static Kiln
Detonation Furnace**



Building for CDC



Control Building



Building for SDC

2 Status Update (June 2014 to present)

2-3 Haerbaling project – Excavation & Recovery



Excavation Facility Pit. No. 1



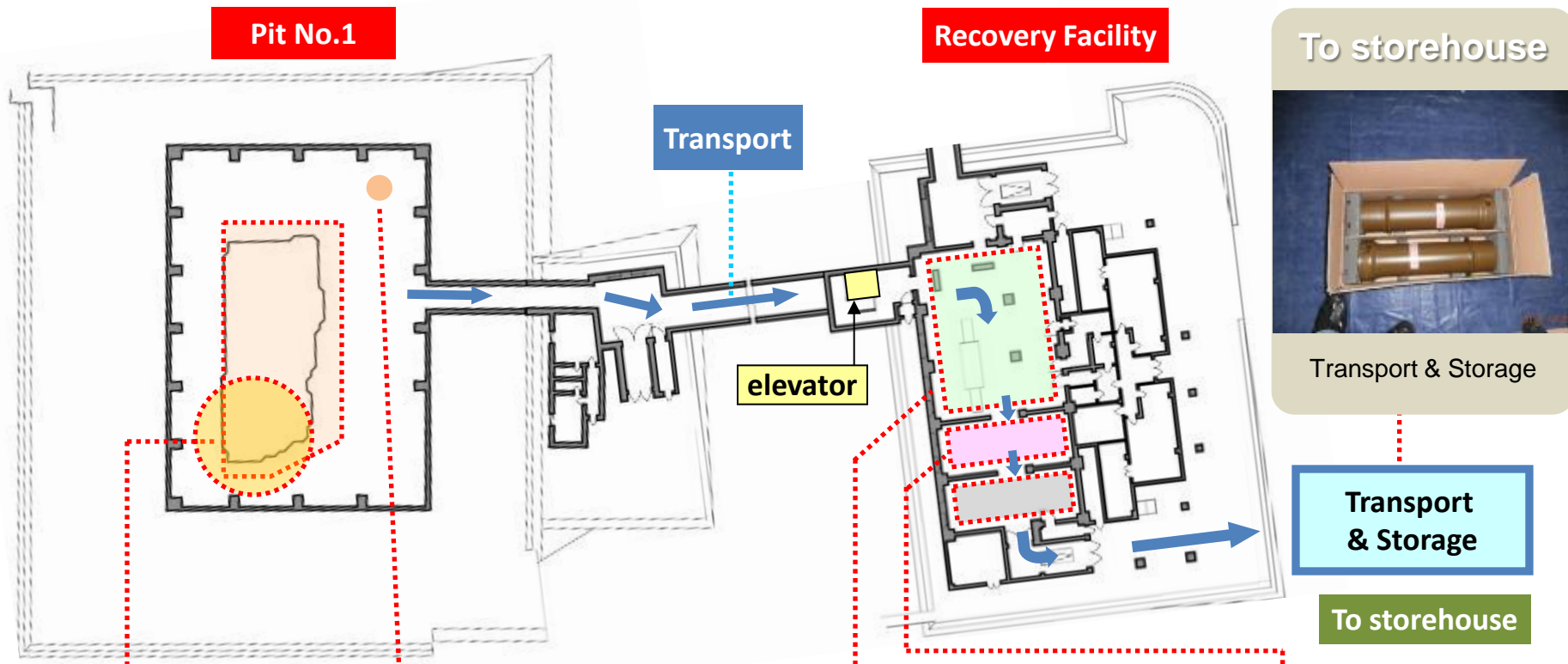
Excavation Facility Pit. No. 2

Recovery Facility



2 Status Update (June 2014 to present)

2-3 Haerbaling project – Excavation & Recovery



Excavation Facility Pit No.1

Excavating ACWs

Excavation Facility Pit No.1

Checking Chemical leakage

Recovery Facility

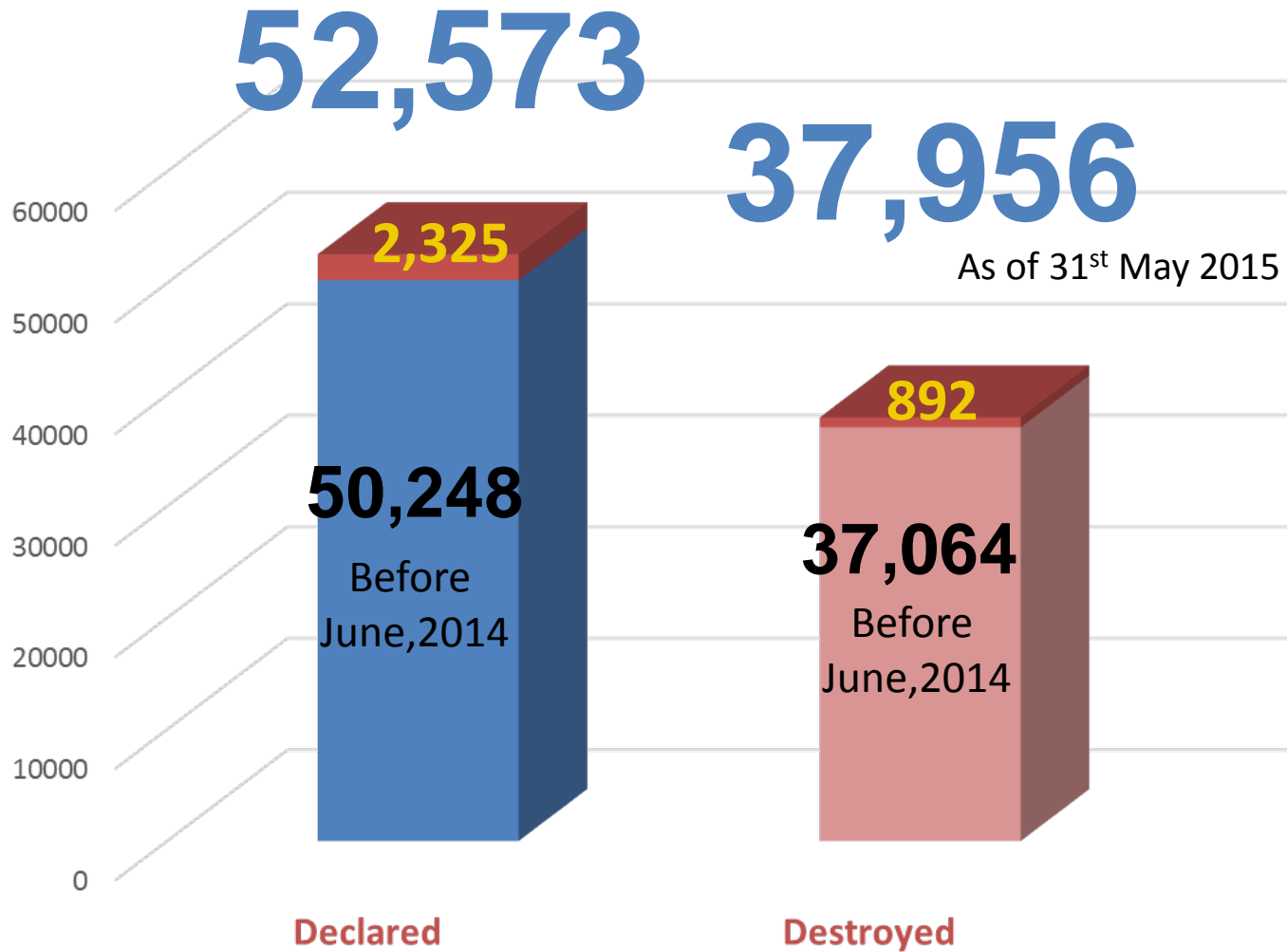
Identification by X-ray device

Recovery Facility

Overpacking of ACWs

2 Status Update (June 2014 to present)

2-4 Destruction Status



In addition to the above figure, 300,000 to 400,000 ACWs are estimated to be buried in Haerbaling .

Thank you for your attention