

UNEP-ICCA Project “Promoting Chemical Safety in the African Region (CSMA)”



Examples of Emergency Response Plan

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Port of Tema, Ghana

C.Chaimongkol
Global Project Management
& Coordinator of
Emergency Response,
BASF SE

Introduction

Antwerp Port, Belgium



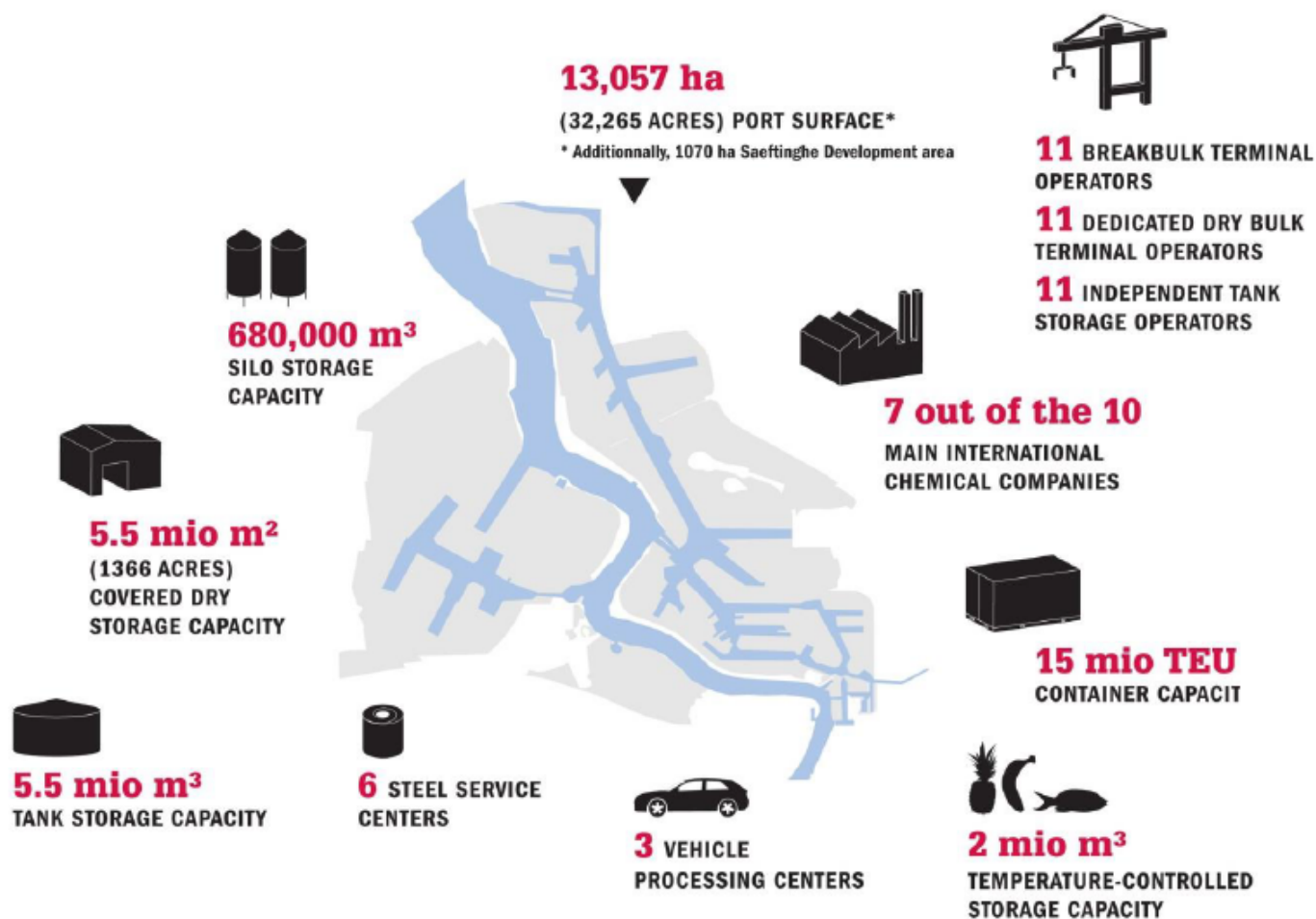
Facts

- ▶ The second largest port in Europe for freight
- ▶ The seventh largest port in the world
- ▶ The biggest and most diversified petrochemical concentration in Europe

Figures

- ▶ A total land area of 13,057 ha
- ▶ 180 million tons of goods
- ▶ 16,000 sea trade ships
- ▶ 64,044 inland barges

Introduction



Introduction

Tema Port, Ghana



Facts

- ▶ The harbour handles 80% of Ghana's national exports and imports
- ▶ Rapid increase in cargo through Tema and owing to trans-shipment and transit traffic to land-locked Burkina Faso, Mali and Niger

Figures

- ▶ A land area of 166 ha
- ▶ 9 million tons of goods (in 2010)
- ▶ 1,650 sea trade ships

Definition of Incident and Crisis

■ Incident

- ▶ Any Any unplanned event which may result in damage, loss or harm to any staff, assets, business or reputation

■ Major Incident

- ▶ any unplanned event:
 - Has the potential significantly to impact company operations or credibility or
 - Poses a significant economic, environment or legal liability or
 - Which may or will require significant global or Board Level resources to manage

Definition of Incident and Crisis

■ Crisis

- ▶ any incident becomes a crisis when any unplanned event:
 - Has the potential **significantly** to impact company operations or credibility or
 - Poses a **significant** economic, environment or legal liability or
 - Which may or will require **significant resources** to manage

Definition of Incident and Crisis

■ Emergency Response

- ▶ focused on resolving the *direct* and immediate effects of an incident, usually chemical related, normally:
 - Fire, contamination, injury, disruption, local factors etc.

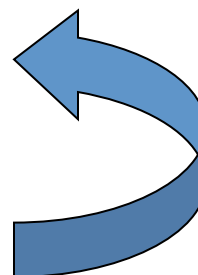
■ Crisis Management

- ▶ designed to address the *indirect* consequences of a serious incident, whether chemical related or otherwise:
 - Reputation, business success, share price, government relations, global or long-term effects

Incident and Crisis Management Manual

Crisis Management:

- Starts with preparation and planning
- Continues with managing the crisis
- Ends with 'lessons learned' review



The Manual:

- Defines the procedures to be followed, including reporting lines
- Provides a organisational structure for all activities from the outset
- Identifies roles and responsibilities for participants
- Ensures availability of facilities for the incident management teams

Incident and Crisis Management Manual

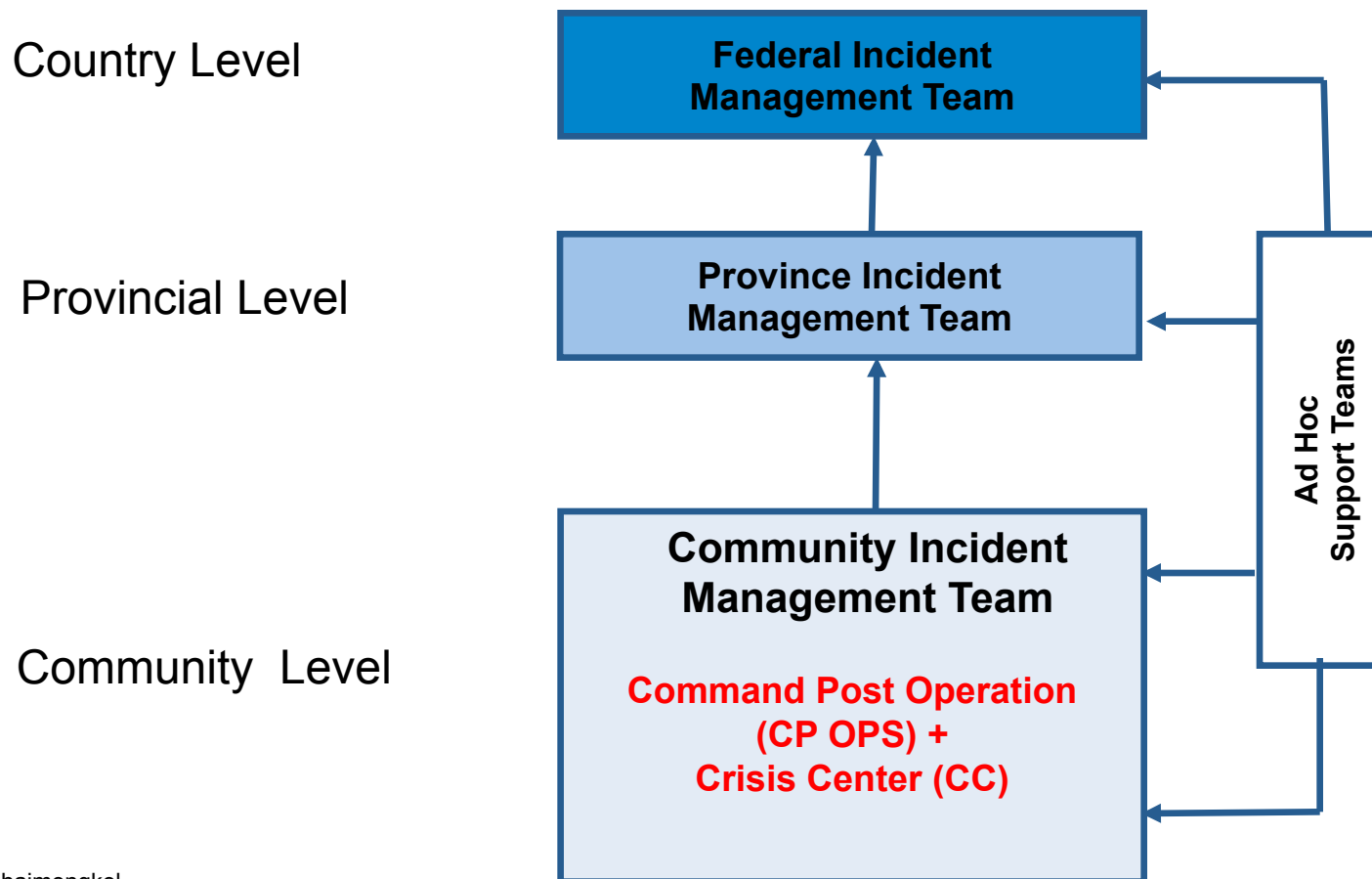
Plans do not provide solutions:

- A plan is an essential starting point, but:
 - ▶ Every crisis will produce something unexpected
 - ▶ Every crisis has unique elements beyond the normal experience of those working to resolve it
 - ▶ A crisis will never follow the plan!

The plan is a tool to enable a team efficiently to reach effective solutions, whatever the nature of the incident/crisis

Examples of ER and Crisis Management Plan

Emergency and Crisis Management Organization



Examples of ER and Crisis Management Plan

Level	Proclaimed by	DIR-CP-OPS	Coordination
Operational Coordination	Officer	In every level Officer Fire department or another person appointed by the local authority (up-front or ad hoc)	CP-OPS
Community level	Mayor of implicated community		Mayor
Provincial level	Governor of implicated province		Governor
Federal level	Minister of Interior		Minister

Examples of ER and Crisis Management Plan

Roles and Responsibilities

■ Federal Incident Management Team (FIMT)

- Key policy issues, strategic decisions, point of contact to president
- Support to PIMT, including \$\$\$ where required
- Handles the media in the country

■ Provincial Incident Management Team (PIMT)

- Manages provincial relevant issues, provides resources
- Liaises with the relevant authorities
- Provides information to the CIMT

Examples of ER and Crisis Management Plan

■ Community Incident Management Team

- ▶ Command Post Operations (CP-OPS) = **Tactical coordination**
 - Activates officers of all disciplines involved
 - Acts directly in containment and rescue operations at the scene
 - Gains support from experts e.g. TUIS

- ▶ Crisis Center (CC) = **Strategic coordination**
 - Handles the local authorities and media, issues RIR
 - Provides information to the PIMT
 - Communicate
 - Evacuation of citizens

Examples of ER and Crisis Management Plan

Crisis center



Examples of ER and Crisis Management Plan

- Situation Belgium
 - ▶ OSR – platform
 - ▶ Internet website





Examples of ER and Crisis Management Plan

- Data input : every user is responsible for his own data and data input
- How to use : explanation how to use the platform (database, logbook,...)
- ER plans : ER plans of the Government and the companies (BASF,...)
- Exercises : planning and practical tools (document for evaluation, observers,...)
- Documentation : all kind relevant information and documentation
- Logbook : operational and exercise logbook
- Crisis information : relevant current crisis information for authorities and companies (Bird flu, ...)



Examples of ER and Crisis Management Plan

■ Operational logbook

- ▶ Every function in the crisisteam has his own login (function) and password
- ▶ Once logged in, the name related to this function, appears
- ▶ All information is linked to a number, date/time and name/function
- ▶ All information is displayed in order according to logging time
- ▶ Every member can choose which information he wants to see (all information or limited information => select in selection bar)
- ▶ You can see at every time who is logged in the incident logbook
- ▶ You can add information (black frame), questions (red frame), answers (green frame), population information (bleu frame), map information (yellow frame)
- ▶ Bild will refresh every time when data changes (text, map, ...)

https://www.osr.be/ext_prog/melding_el/

File Edit View Favorites Tools Help

Sugg... Werk... Drop... R dere... GCD ... in Your... Empl... vert... HLN... Wett... glob... RAFC... Web ...

OEFENING

Welke acties zijn er al ondernomen en door wie

Name and function

brand, Scheldelaan 600, BASF (14/11/2013)

Geef hier uw boodschap in (max 1000 karakters)

Van: GYS Frank (Gemeente Wommelgem Burgemeester) Voor:

[Vragen zonder antwoorden](#)

☒ Informatief ☐ Vraag ☐ Antwoord op regel: [Historiek van dit logboek](#) - [Vergelijkende schaal windsnelheid](#) - [Wie is aangelogd](#)

[Toevoegen / Vernieuwen](#) [Toon kaart](#) [Aanmaken / wijzigen kaart](#) [Edit Wegverspermingen](#) [Edit PinPoints](#)

[CIN bericht hulpdiensten](#) [CIN bericht bevolking](#) [CIN bericht bedrijven](#) [CIN logbestanden](#)

☒ Alle berichten ☐ Discipline 1 ☐ Discipline 2 ☐ Discipline 3 ☐ Discipline 4 ☐ Discipline 5

Regel nr: 000007 - Wanneer: 14/11/2013 13:20:53 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
Bericht: De kaart werd aangemaakt

Regel nr: 000006 - Wanneer: 14/11/2013 13:14:57 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
Bericht: Deze boodschap (7) werd verstuurd naar de bevolking van Wommelgem
Hierna volgt een automatisch bericht van het crisis informatienetwerk van de provincie Antwerpen. Er woedt een brand in de buurt van uw woonplaats. We raden aan om binnen te blijven en ramen en deuren te sluiten.

Regel nr: 000005 - Wanneer: 14/11/2013 13:13:24 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
[Antwoord op regel nr: 000004](#)
Antwoord: ja, en laten meten op acrylzuur

Regel nr: 000004 - Wanneer: 14/11/2013 13:12:49 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
[Er is\(zijn\) reeds 1 antwoord\(en\) op deze vraag](#)
Vraag: moeten we onze meetploegen starten

Regel nr: 000003 - Wanneer: 14/11/2013 13:12:27 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
Bericht: er zijn 3 gekwetsten

Regel nr: 000002 - Wanneer: 14/11/2013 13:08:48 - Wie: GYS Frank (Gemeente Wommelgem Burgemeester)
Bericht: brand bij BASF in acrylzuurbedrijf

Text field

Edit roadblock or PinPoint

Information

Question

Answer

Answer to line ..

Examples of ER and Crisis Management Plan

Roles of Incident Commander



- ▶ Build up ER organisations at Command Post Operations (CP-OPS) **in relation to the risks**
 - Organization Number of Responders and professional or volunteer
 - Equipment
 - Capacity of the authorities in the environment

Examples of ER and Crisis Management Plan

Responsibilities of Incident Commander

- Design ER organisations
- Train ER personnel
- Follow up relevant legislation
- Stay in contact with the authorities
- Take care of the operation of all intervention materials
- Take care of the operation of all fire prevention facilities
- Lead interventions
- Train yourself and keep fit

Examples of ER and Crisis Management Plan

Lead interventions

- ▶ Collect information
 - different information resources if possible => **VICTIMS**

- ▶ Try to estimate whether
 - the affected area is small or large
 - Vapour pressure, health limit values, volumes, expansion possibilities (streams, sewers, wind, rain etc.)

- ▶ And take precautions depending your expectations
 - Evacuate people, close doors and windows,...
 - => ERG can be used as a helpful guiding tool (see later)**

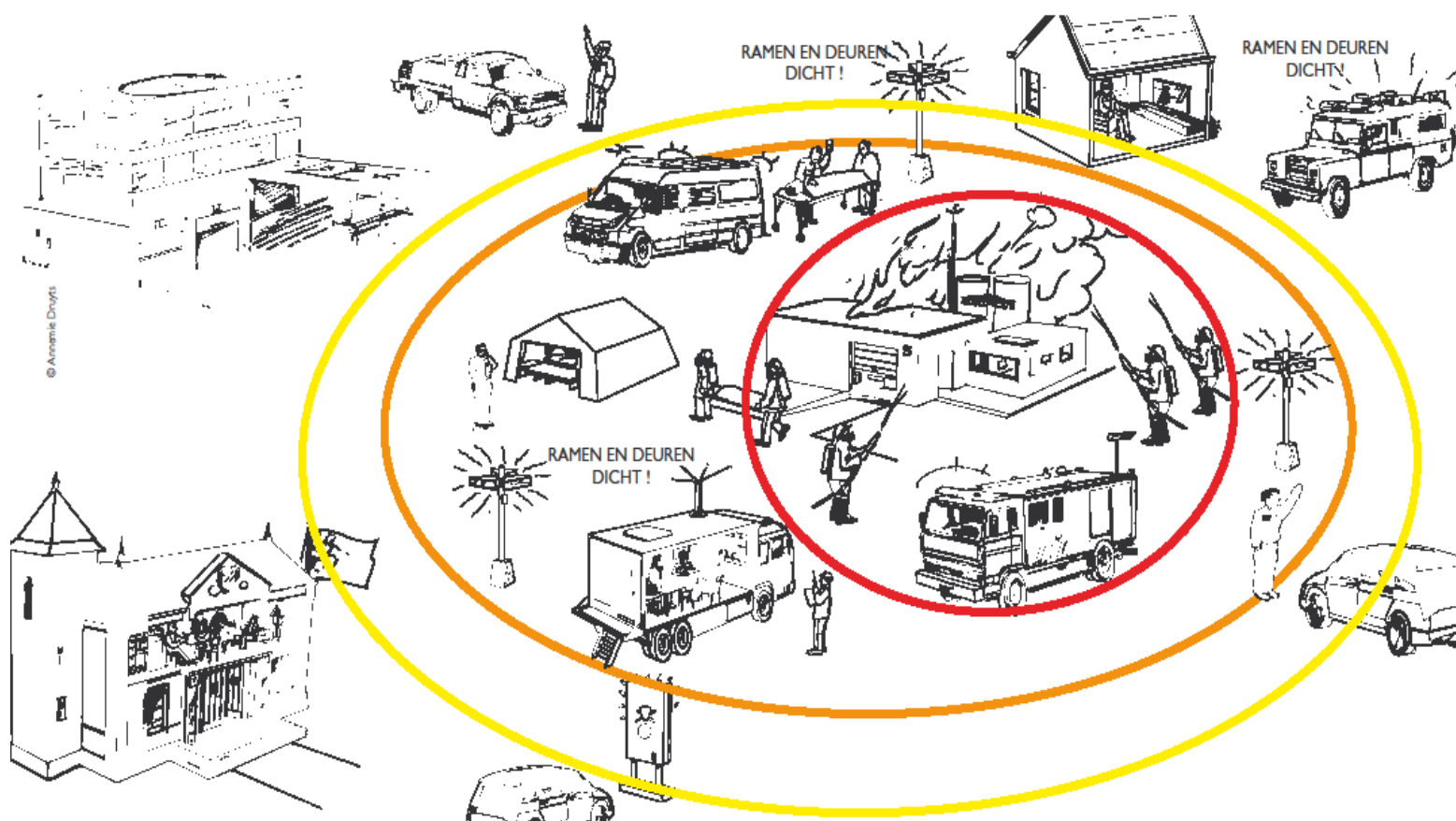
Examples of ER and Crisis Management Plan

Lead interventions

- Bring the dangers in map based on the information (see later)
- Determine your protection measures against any possible danger
- Make a **Plan** to solve the incident after this information and evaluation
- Explain/order your plan to your people and let them work it out => **Do**
- **Check** whether they understood you during their implementation
- See whether your plan works after implementation and, if the result is not as expected, **Adjust** your plan depending on this new situation

Examples of ER and Crisis Management Plan

Intervention Zones



Examples of ER and Crisis Management Plan

■ Actions of Port Authorities

- ▶ Inform own employees
 - Communication structure
 - Own pager system

- ▶ Know-how and information sharing
 - Shipping and ships knowledge
 - Danger goods database and ship loading

- ▶ Arrange shipping / navigation
 - Curdling shipping
 - Redirect shipping
 - Stop shipping
 - Enable fire-fighting tugboats (equipped with monitors)