

Safe Chemicals Management

Through Programmes Promoted by
the **United Nations Environment Programme**
and
the **International Council of Chemical
Associations**



Highlights

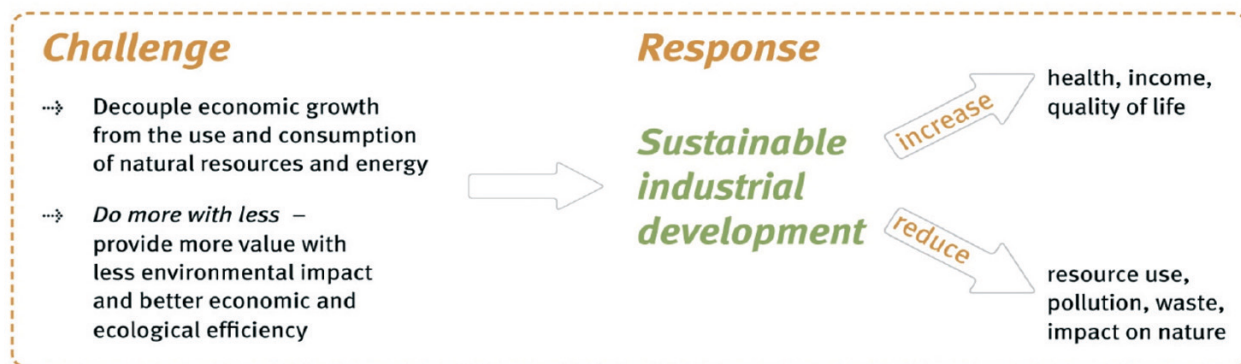
- **Who's involved?**
- **Why safe chemical management?**
- **UNEP and ICCA flagship initiatives**
- **UNEP- ICCA project**
- **Expectations**



Background

Current industrial trends:

- Manufacturing shift from OECD countries to developing countries emerging economies
- Leading to increased trade and exposure in less regulated economies and less informed markets
 - Production (workers, chronic pollution and chemical accident risks)
 - Use (toxic products in chemicals, heavy metals, pesticides)
 - Disposal/recycling (e-waste, hazardous waste)



Why Chemical Safety?

1976



2001



2000



2012



TIME

INDIA'S DISASTER

THE NIGHT OF DEATH

A GLOBAL WORRY

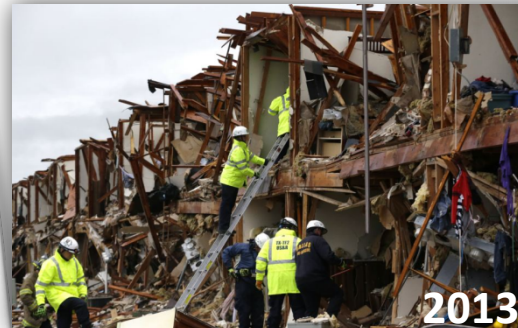
1984



2005



2013



Why Chemical Safety?

– People:

Prevent death and serious injury.

– Facilities:

Prevent destruction and unhealthy workplace environment.

– Environment:

Contamination.



Challenges in Chemical Safety

- Lack of understanding of chemical hazard.
- Upskilling workers handling and using chemicals.
- Preventing incidents involving chemicals.
- Safely managing chemical emergencies.
- Focus on small and medium sized enterprises (SMEs)



Who is involved?

UNEP and ICCA share common goals and objectives with regards to improving chemical safety of industrial operations globally

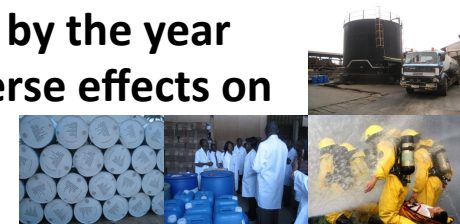


Mandate to encourage decision makers, local authorities and industry to develop and implement policies, strategies and practices that are cleaner and safer, make efficient use of natural resources, ensure environmentally sound management of chemicals, reduce pollution and risks for humans and for the environment.



World-wide voice of the chemical industry promoting sound management of chemicals with its programmes Responsible Care and GPS. ICCA acts as the main global chemical industry's initiative of "No harm to people and the environment as a result of our operations and products".

Aim to work towards the SAICM "2020" target, which sets out that by the year 2020 chemicals are used and produced in ways that minimise adverse effects on human health and the environment



Common goals

UNEP and ICCA chemical safety initiatives have common goals:

- ✓ Ethical commitment to protect people and our environment
- ✓ Safe operational environments and safer communities
- ✓ Facilitate safe chemical management particularly in SMEs
- ✓ Effectively manage chemical incidents
- ✓ Open communication with public



Timeline of UNEP-ICCA Collaboration



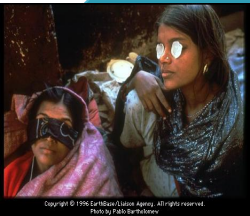
Development of UNEP's Responsible Production Approach in collaboration with ICCA and ICMM

Chemical Industry Association of Canada Launch Responsible Care

Responsible Care Global Charter and Global Product Strategy Launched

UNEP and ICCA sign MoU for strengthened and more systematic cooperation

Joint Workshops
Side events



UNEP launches APELL Programme

SAICM

UNEP Partners with the Dow Chemical Company to improve safety in the supply chain of chemical sector in China

UNEP signs MoU with ABIQUIM-Brazil

African Regional Workshop on Chemical Safety Management

First joint pilot project



ICCA supports the implementation of the APELL programme



UNEP and ICCA provide guidance and ‘toolkits’ to enable government, industry and companies to safely manage chemicals to recognised, world-class standards.



UNEP and ICCA programmes/tools



Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

Responsible Care

- I. Global Responsible Care® Principles
- II. Advance Sustainable Development
- III. Improve and Report Performance
- IV. Enhance Product Stewardship (GPS)
- V. Extend Responsible Care Across Supply Chain
- VI. Support National and Global Governance Processes
- VII. Address Stakeholder Expectations
- VIII. Provide Supporting Resources

UNEP Safer Production



- I. Awareness and Preparedness for Emergencies at the Local Level- APELL
- II. Responsible Production for Chemical Hazard Management for SMEs
- III. Flexible Framework for Addressing Chemical Accident Prevention and Preparedness



Expected Results



ICCA Responsible Care

- Provides proven, comprehensive, cost-effective chemical management system
- Access to world-class advice
- Assistance at government, industry and company level; Focus on SMEs
- Cost-effective solutions
- Continuous Improvement
- Benchmark performance against 65 countries.

UNEP Safer Production



- I. Global guidance documents, adaptable to different contexts
- II. Improved relations with communities, authorities, and neighbouring companies
- III. Micro-scale results (at company level):
 - I. *E.g. Reduced number of complaints from workers regarding health and safety issues*
 - II. *E.g. Extent of planned provisions for accidents occurring offsite*
 - III. *E.g. Extent to which workers and management wear appropriate PPE*



Product Stewardship

Safely manage chemicals throughout their life cycle.

Two similar approaches:

UNEP

Responsible Production

ICCA

Responsible Care®



Implementing Chemical Safety Management



Responsible Care:

- Provides leadership guidance
- Constitutes an ethical commitment
- Implemented at national level through local industry associations and in partnership with local authorities/stakeholders
- Business responsibility for **implementation**

Clear message about what all this means to an SME; what should they retain from this?

Responsible Production:

- Step by Step tools that can address some areas of chemical safety management
- Help for practical implementation



UNEP and ICCA

Safe Chemical Management Flagship Programmes



ICCA Global Product Strategy

- ✓ **Comprehensive product information on Safety Data Sheet.**
- ✓ **User-friendly Product Safety Summary (mini SDS).**
- ✓ **Up-skill workers to handle and use chemicals safely throughout supply chain.**
- ✓ **Dispose of chemicals responsibly.**
- ✓ **Implement effective product stewardship initiatives.**



Responsible Care Global Charter



The global Responsible Care® initiative and the Global Product Strategy are “an inspiring model of voluntary self-regulation for other industries to consider following.”

Former UN Secretary General Kofi Annan



ICCA Global Product Strategy

Focus on:

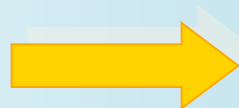
- **Providing better information about chemical products.**
 - Identify the hazard.
 - Manage the risk.
- **Product Stewardship initiatives.**
- **Focus on SMEs.**



Global Product Strategy



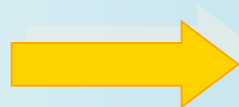
**Promote knowledge
and skills transfer**



**Training Workshops
Guidance materials
GPS Network of experts**



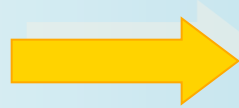
**Improve the availability
of information**



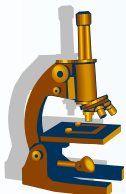
**Base Set of information
GPS Safety Summary
Web-based IT-Portal**



**Increase awareness on
chemical management**



**ICCA Principles for
Chemical Management
Systems**



**Research on existing
and emerging issues**



**ICCA Long Range
Research Initiative (LRI)**

Flagship Programmes: UNEP



APELL: Emergency Preparedness



APELL's 10 Step Process

- Identify potential hazards in the community;
- Raise awareness of such hazards;
- Develop and update local emergency response plans to address all types of emergencies;
- Build local capacity for multi-party co-ordinated response should an emergency occur



Responsible Production

Combining best practice approaches from APELL, CSR and Safer Production ...

Awareness and
preparedness for
emergencies at local
level

Corporate social
responsibility

Safer production

Responsible
Production

... into a single framework – easy to understand and apply.
Systematic and continuous improvement approach aimed at SMEs



Responsible Production

Responsible Production aims to change the focus:

- ✓ From reaction to prevention.
- ✓ From the cost of compliance to benefits to the core business.
- ✓ From large companies to SMEs.
- ✓ From a site operational focus to a value-chain focus.
- ✓ From single focus to an integrated approach (integrating Safer Production, APELL, and CSR).

Focus on SMEs that produce, formulate, mix, transport, package, re-package or otherwise handle chemicals.



Responsible Production

- In summary, Responsible Production provides **tools** to be used by SMEs (their business partners, local authorities, and concerned public/communities) for improving:
 - **hazard identification**
 - **chemical hazard management**
 - **accident prevention**
 - **stakeholder engagement and communication**
- A practical toolkit for SMEs for safety, community engagement and reducing environmental impacts, enables commitment to Corporate Social responsibility



UNEP and ICCA

UNEP and ICCA initiatives delivered under a joint agreement:

- ✓ Minimise duplication of contributions.
- ✓ Maximise efficient delivery of assistance.
- ✓ Demonstrate safe chemical management.



Together, UNEP and ICCA are committed to:

- Building capacity for sound chemicals management among SMES
- Promoting harmonisation of legal systems regarding chemicals management
- Fostering stronger stakeholder dialogue on emerging issues



UNEP & ICCA Programmes on Chemical Safety Management



	Tools Targeted at National Level		Tools Targeted at Local Level	Tools Targeted at Industry Level		
Programme/ Tool	Flexible Framework Guidance for Chemical Accident Prevention and preparedness	LIRA Guidance	APELL	Global Product Strategy	Responsible Care	Responsible Production Framework
Target Group and Scale	National governments wishing to improve policies on chemical accident prevention	GPS Regulatory Toolbox	Local communities, industry and local authorities/ Local level	Chemical Industries/ Global level	Chemical Industries/ Global level/ Value Chain	Chemical using SMEs: Step by step approach to be applied at local level
Main Goal	Develop programmes for chemical accident prevention	Provide guidance on how to establish a risk-based	Community preparedness and awareness for emergencies	Enhancing product stewardship performance by capacity building and transparent	Standards and principles for safe chemical management	Tool for chemical hazard management along the

Project

“Promoting Chemical Safety in the African Region” (CSMA)



UNEP-ICCA Partnership in Africa

- **Definition of Project scope:** Joint Workshop on Chemical Safety Management, Nairobi, 2011:
 - Transport
 - Warehousing
 - Roles of partners



Duration: 24 months, starting January 2013

Geographical scope

East Africa, focus on Kenya (Mombasa Port)

West Africa, focus on Ghana (Tema Port)

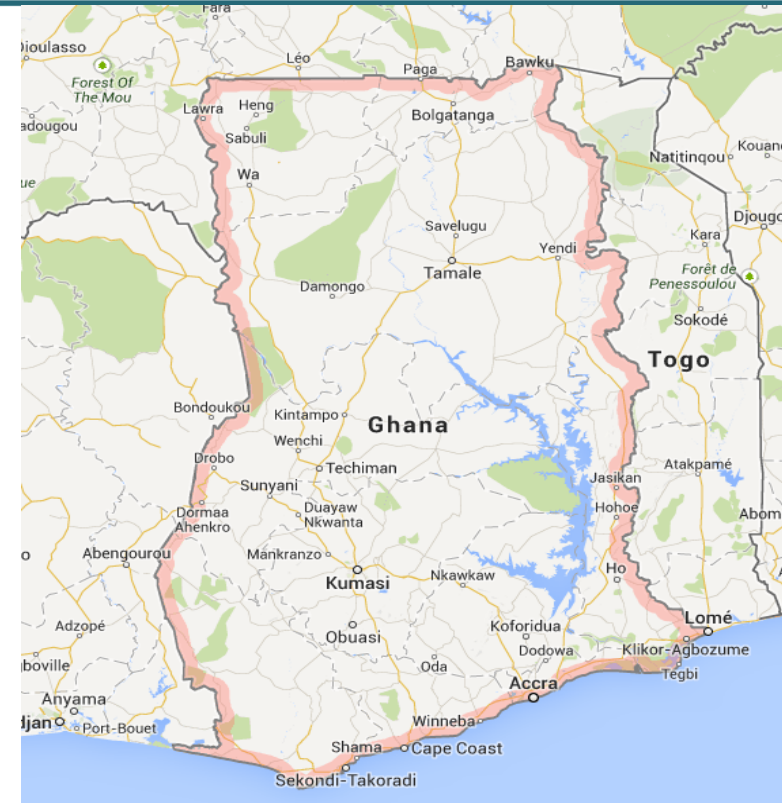
Project Budget : 300.000 USD + in-kind contribution from UNEP and ICCA company experts



UNEP-ICCA Project: Hazard Mapping

Partnering with Port of Tema:

- Dangerous Goods entering through port.
- Final destination of chemicals entering Tema
 - Identification of relevant transport corridors for chemicals transport.
 - Support further risk management activities.



→ **NCPC Ghana**

→ **GPHA**

→ **EPA**



UNEP-ICCA Project

Partnering with Tema:

- Two day workshop to raise awareness on Best Available Practices (launching workshop).
- Four day training and on-site exercise in relation to warehousing and transport practices:
 - Capacity building on chemical safety management.
 - Recommendations on Risk Management Measures.
 - Identification of on-site and off-site risks.
 - Review of current Emergency Preparedness Plans.
 - Demonstration emergency exercise (table-top *TBC*).



Anticipated Outcome

Results and Outputs at the End of Project

- ✓ **African network** of Chemical Safety Practitioners strengthened.
- ✓ Through **best practice examples**, improve national capability to safely manage chemical emergencies in transport, and storage operations.
- ✓ Sharing of experience in Ports of Mombasa and Tema.
- ✓ Pilot case studies for replication throughout Africa.
- ✓ **Case study** of a joint UNEP ICCA project published, including a training package supplement for replication.
- ✓ **Regional dissemination** undertaken.
- ✓ Establish **host organisation** to coordinate activities and grow the initiative



Future of UNEP's collaboration with Chemical Industry

- UNEP-ICCA MoU covers period until end of 2014.
- As a result of this project, UNEP and ICCA, aim to:
 - Streamline implementation and delivery of our respective approaches at the country level
 - Share best practice among different stakeholders
 - Look into opportunities to replicate activities in other countries in response to specific key concerns in different countries



Safe Chemical Management

A 'banquet' from which you choose the healthy food you need, as well as what you like to eat!



Thank you for your attention.



I welcome your questions.

