

ICCA Contribution to the sound management of chemicals



Responsible Care Global Charter

Global Product Strategy

**Melanie Bausen, BASF SE
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Global Voice of the chemical industry – International Council of Chemical Associations

- ICCA promotes and co-ordinates Responsible Care and other voluntary chemical industry initiatives.
- ICCA is an active partner in transforming the SAICM, CSD, POP, PIC and CWC activities from concept to reality
- ICCA enables and encourages its members to:
 - Exchange information, knowledge and share best practices
 - Promote the spirit, principles and practice of Responsible Care
 - Present a united chemical industry view to - and interact with - key international organisations
 - Support international free trade and the World Trade Organization (WTO).



ICCA Global Initiatives launched at ICCM-1 – Contribution to achieve the SAICM goal

Strategic Approach to International Chemicals Management (SAICM)

Responsible Care Global Charter

5. Enhance the management of chemical products worldwide
(Product Stewardship)

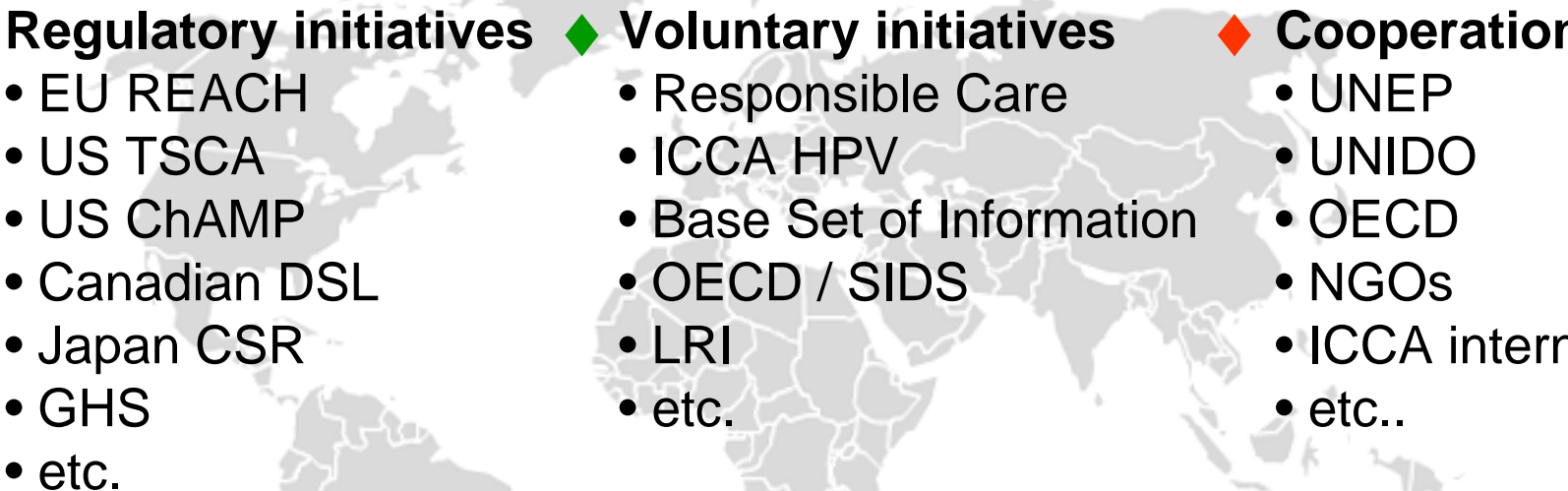


Global Product Strategy (GPS)

1. Develop global stewardship guidelines
2. Develop a system for implementation
3. Define risk-based assessment process
4. Partnership with inter-governmental organizations and stakeholders
5. Improve flow of information
6. Share relevant information between industry and with public
7. Communicate GPS (internal / external)
8. Effort to close data gaps and identify emerging issues
9. Develop global advocacy principles

Global Product Strategy (GPS) – Industry's global contribution to SAICM

Global Product Strategy (GPS)

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- ◆ **Regulatory initiatives**
 - EU REACH
 - US TSCA
 - US ChAMP
 - Canadian DSL
 - Japan CSR
 - GHS
 - etc.
 - ◆ **Voluntary initiatives**
 - Responsible Care
 - ICCA HPV
 - Base Set of Information
 - OECD / SIDS
 - LRI
 - etc.
 - ◆ **Cooperation**
 - UNEP
 - UNIDO
 - OECD
 - NGOs
 - ICCA internal
 - etc..

Globally consistent approach that accommodates national, historical, cultural and regulatory differences



ICCA GPS Key Messages - By 2020, ICCA will

1. Establish a base set of hazard and exposure information adequate to conduct safety assessments for chemicals in commerce globally.
2. Provide global capacity building to implement best assessment practices and management procedures, especially with SMEs and developing countries.
3. Share relevant product safety information with co-producers, governments and with the public.
4. Work across the value chain so suppliers and customers can effectively evaluate the risks and successfully manage chemicals
5. Make information on chemicals publicly available through GPS IT-portal



1. Ensure sufficient knowledge base

GPS Base Set of Information -

BASE SET OF INFORMATION ICCA GLOBAL PRODUCT STRATEGY

Toxicological data requirements	Standard parameters	Ecological data requirements
LEVEL 1 (e.g. minimal exposure, no toxicity) Irritation (eye/skin) in the event of exposure	1 Identity 2 Physical/Chemical properties	LEVEL 1 (e.g. minimal exposure, no toxicity) Relevant eco-toxicological data in the event of exposure
LEVEL 2 (e.g. low exposure, low toxicity) Irritation (eye/skin), mutagenicity (Ames test), sensitisation (structure)	3 Toxicity/Ecotoxicity (exposure to product)	LEVEL 2 (e.g. low exposure, low toxicity) Acute toxicity (sensitive species)
LEVEL 3 (e.g. medium exposure, medium toxicity) Irritation (eye/skin), mutagenicity (Ames test), sensitisation, 28-days subacute	4 Biodegradability	LEVEL 3 (e.g. medium exposure, medium toxicity) Acute toxicity (daphnia), acute toxicity (fish), acute toxicity (algae)
LEVEL 4 (e.g. high exposure, high toxicity) Irritation (eye / skin), mutagenicity (Ames test, etc), sensitization, 28-days subacute, reproductive and developmental implications		LEVEL 4 (e.g. high exposure, high toxicity) Acute toxicity (daphnia), acute toxicity (fish), acute toxicity (algae), chronic toxicity

2. GPS risk assessment of chemicals in commerce

GPS activities are focused on chemicals in commerce

- Exceeding a threshold of 1 t/y per company or
- Having a highly toxic / eco-toxic profile generating a major threat to employees or the public even in very small amounts



Risk characterization performed and risk management measures implemented until the year 2018



3. Research to improve current methodology

Long-Range Research Initiative (LRI)

- Identify and fill gaps in understanding of the hazards posed by chemicals
- Improve or develop new methods available for risk assessment
- Develop and validate in vitro, modeling and screening methods for assessing emerging issues e.g. exposure to mixtures and endocrine disruptors
- Enable industry, regulators and the public to make informed decisions based on high quality information

Long-Range Research Initiative (LRI)

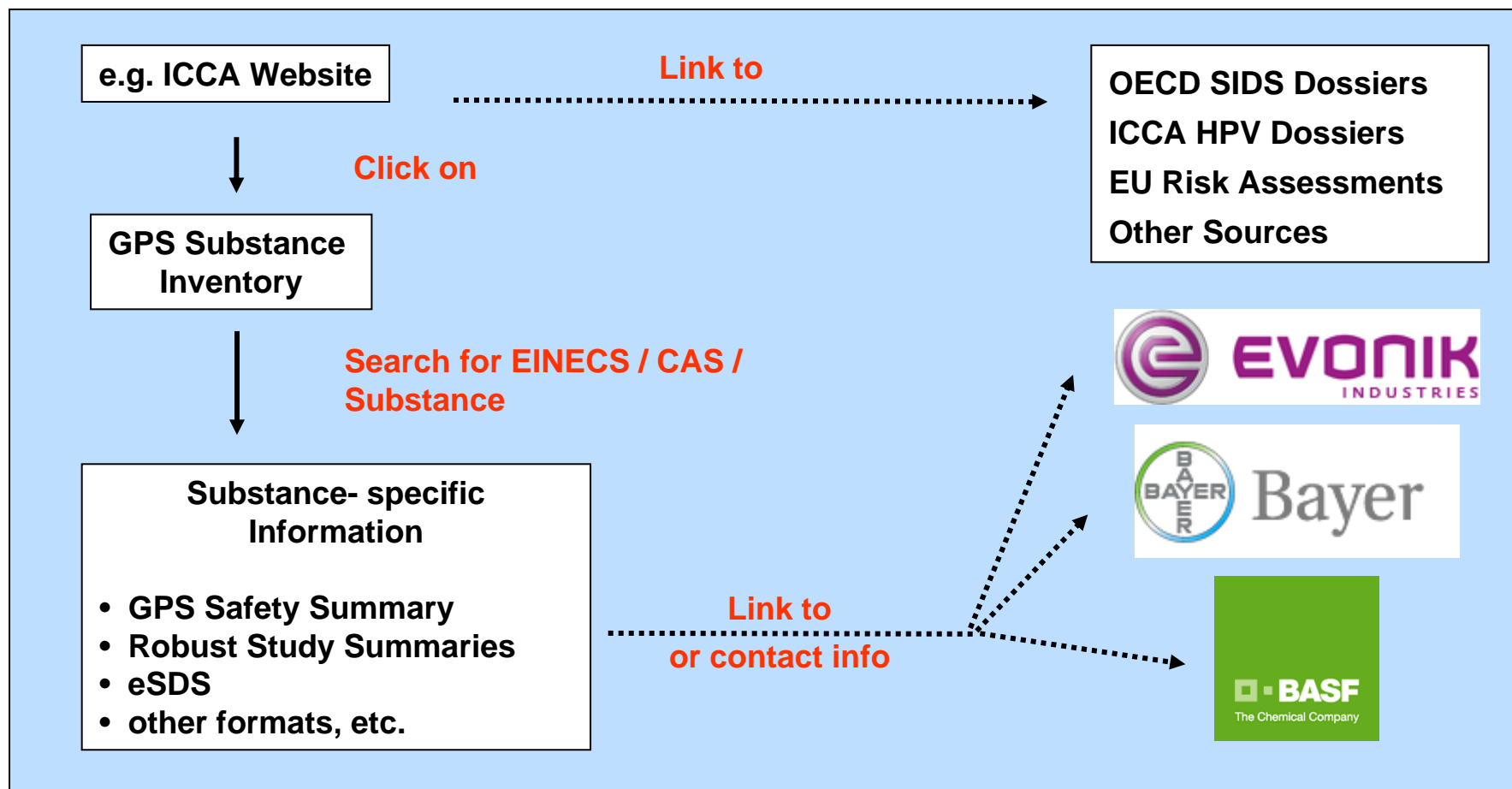
Benefits of international cooperation

- High scientific quality of LRI support mutual acceptance of tests, a major breakthrough in minimizing animal testing.
- Enables positive engagement with stakeholders (Regulators, Academia, IGO, NGO, Public)
- Strengthens the basis for regional and international policies for chemicals
- Expert Network, Capacity Building for industry
- Since its launch in 1999, LRI has invested over \$200 million USD globally.

4. Transparent Communication

Central Global Source of Information on Chemicals

Open Access (Phase 1)



Information on chemicals available to the public - GPS Safety Summary

- Summary of relevant information on risk assessment, risk management and benefit of the substance in an easily understandable language
- To be communicated to employees, downstream customers, the public and other interested parties
- Currently more than 1000 GPS Safety Summaries are already available on company websites (<http://reporting.responsiblecare-us.com/Search/PSSummarySearch.aspx>)
- The GPS Safety Summary does not replace required technical communication documents such as the Material Safety Data Sheet (MSDS)



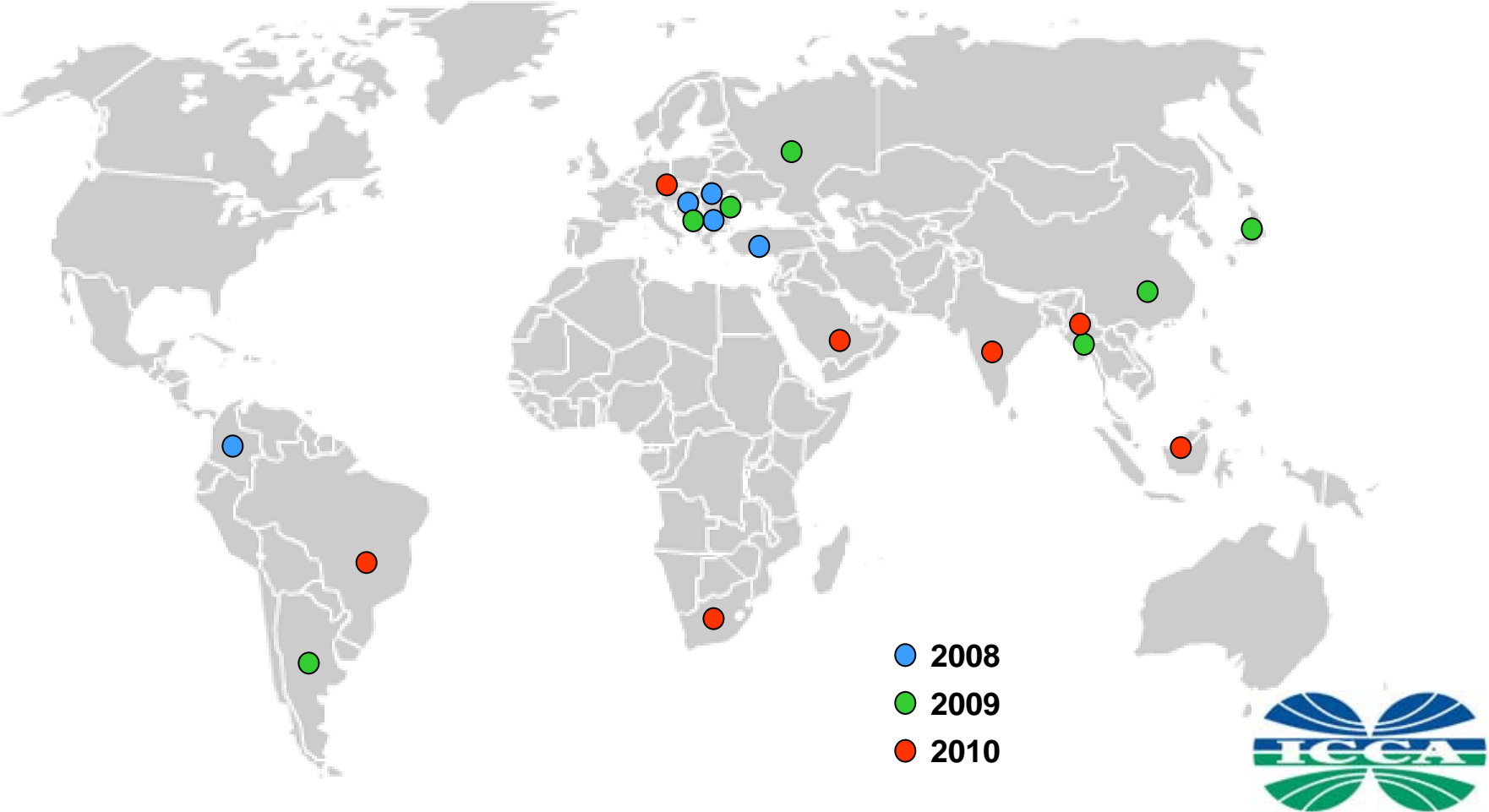
5. ICCA Capacity Building – Transition from science to practice

- Workshops address participants from SMEs, RC managers of national chemical industry association, academics and authority representatives
- Focus is to train regional experts to proliferate PS expertise, to implement best assessment practices and management procedures, especially with SMEs and developing countries
- GPS/PS workshops will incorporate training on the "ICCA GPS Guidance on Risk Assessment".
- To collaborate with IGOs to effectively deploy GPS in developing countries. In particular, risk management element will be incorporated in the workshop.



5. ICCA Capacity Building – Transition from science to practice

Workshops 2008, 2009 and 2010



6. Capacity building activities undertaken by ICCA member companies

■ BASF – Targeting SMES and small communities

1. In cooperation with the United Nations Industrial Development Organization (UNIDO) and the United Nations Environmental Program (UNEP), BASF developed software to improve eco-efficiency of SMEs in the Morocco textile dyeing industry.
2. BASF's "1+3" project, launched in China in October 2006 has been rolled out to over 55 companies in the past two years. Under "1+3", BASF forms a team with three types of business partners in the supply chain – ideally a customer, a supplier and a logistics service provider – with the aim of promoting CSR and giving guidance through sharing best practices and expertise.



6. Capacity building activities undertaken by ICCA member companies

■ Dow – The Global Product Strategy in Action

1. Since 2006 Dow Chemical works with the State Administration of Work Safety (SAWS) to identified 34 SMEs and provided more than 25 training sessions in hazardous chemicals supervision.
2. In 2008 the Chinese government, UNEP and Dow created a project designed to support safer production of chemicals and enhance safety management systems in pilot industries.

■ Braskem – Capacity building in the Brazilian supply chain

1. The “Braskem + Partners” program (2006) has helped suppliers to improve their EH&S performance and the quality of products and services



Back-up





ICCA voluntary initiatives

- **Global Product Strategy** - To increase public and stakeholder awareness and confidence that chemicals in commerce are safely managed throughout their lifecycle
- **Responsible Care®** - Commitment to improve health, safety and environmental performance, to advance sustainable development, and to communicate with its stakeholders
- **High production Volume Chemicals** - Global, voluntary cooperative effort by our industry to provide data and hazard assessments for approximately 1,000 HPV chemicals
- **Long-range Research Initiative** - To enable industry, regulators and society as a whole to make informed decisions about chemicals based on high quality scientific information



More than 1000 GPS Safety Summaries are already available on company websites



MEMBERS
Product Stewardship Summary Search

Each ACC member must prioritize its chemicals according to risks, specifically designating high priority chemicals, using considerations such as uses, exposures, toxicity, production volumes and other relevant factors. Once this risk prioritization is performed, an appropriately detailed product stewardship summary can be created to pass along critical information about the chemical to assure its safe use and handling through the supply chain. A product stewardship summary is a document that contains information about a chemical such as chemical identity (or category description); the uses, applications, functions; physical/chemical properties; health effects; etc. ACC has created a portal to access the product stewardship summaries currently available for each company on this page. ACC's goal is for each company to have publicly available summaries for all their high priority chemicals by 2012.

Search Portal*

To search for information about particular chemicals, use the search portal below. This portal will search product information that is available on company websites as part of this reporting requirement.

<http://reporting.responsiblecare-us.com/Search/PSSummarySearch.aspx>



Responsible Care® - ICCA value principles

„We act in a responsible manner and support the Responsible Care® initiatives. Economic considerations do not take priority over safety, health issues and environmental protection.“

Key areas of Responsible Care

- Environmental Protection
- Process Safety
- Emergency Response
- **Product Stewardship**
- Occupational Health
- Occupational Safety
- Transport and Distribution Safety
- Communication
- Security

