

For our Environment

Umwelt 
Bundesamt

GC3 Innovators Roundtable 2016

*Mainstreaming Sustainable Chemistry in
a sustainable development context:*

International Chemicals management

Role of the new ISC3

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Global sustainability agenda and chemicals management

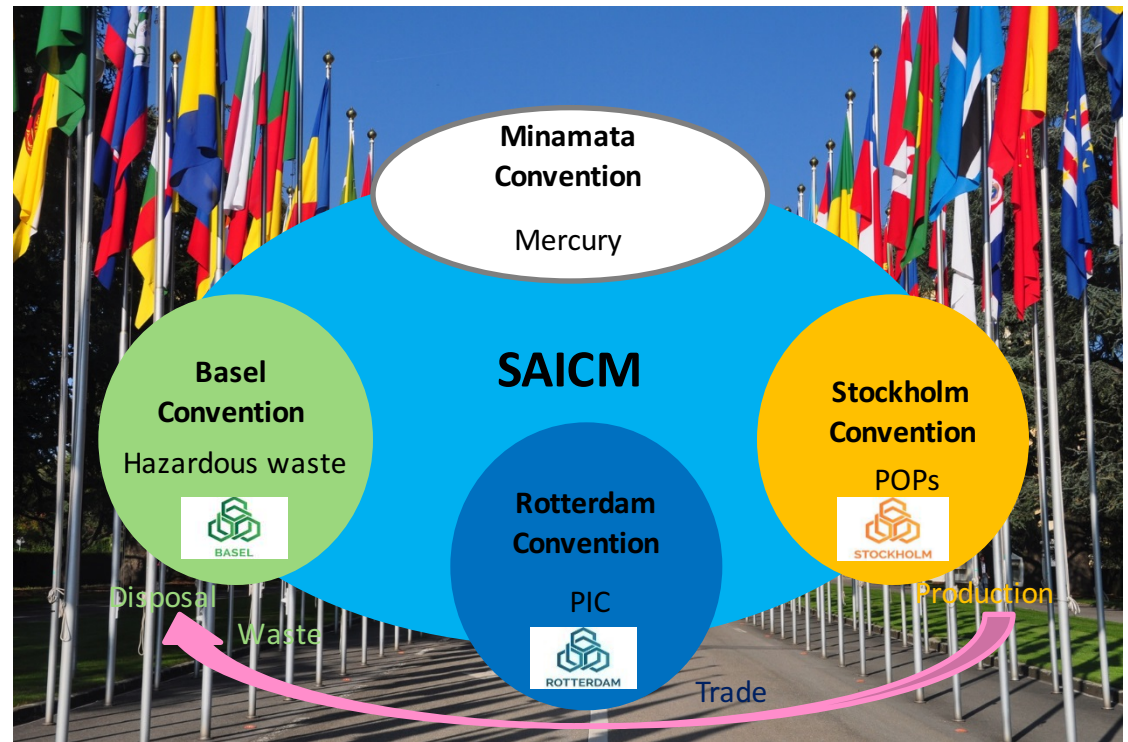
UN Sustainable development goal 12:
Ensure Sustainable consumption and production patterns—



Target 12.4: By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

Important Elements of International Chemicals Management

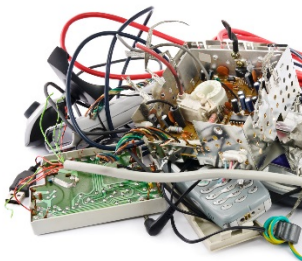
- **The 2020-goal**
- Multilateral Environmental Agreements, GHS
- **Regional regulatory instruments e.g. REACH, Pesticides, Biocides, TOSCA**
- Complementary industry Systems der Industrie: Responsible Care, Global Reporting Initiative, ...
- **SAICM (Strategic Approach on International Chemicals Management) → voluntary approach, as multi-sectoral, multi-stakeholder approach unique, mandated by 2020**



**Globally Harmonised System (GHS),
OECD Chemicals Programme, IOMC Toolbox**
<http://iomctoolbox.oecd.org>, ...

Challenges still to be mastered

- ⚡ Global implementation of effective tools for chemicals management
- ⚡ Cumulative effects (multiple exposures, persistence of eco/toxic substances)
- ⚡ Get entire life-cycles of chemical products and services sustainable
- ⚡ Multi-sector multi-stakeholder platform after SAICM mandate ends 2020
- ⚡ Address Sustainable Development Agenda 2030



→ **Green & Sustainable chemistry!**



UBA/BMUB Conference

“Sustainable Chemistry 2015: the way forward”

24/25 Sep 2015 in Berlin

- High interest in sustainable chemistry (SC)
- Value and potential of SC in contributing to sustainable development → historic moment (SAICM, SDG)
- Many best practice examples prove feasibility, many actors, many innovative approaches

Getting SC forward :

- More science, more anticipation of regulation and more interest of public and investors regarding chemicals
- More education, training and awareness rising
- Transparency and availability of information in supply chains
- Entrepreneurs call for the “*Chemiewende*”

ICCM4 (UNEP)

4th Session of the

International Conference on Chemicals Management Sept.2015



- Berlin conference “*Sustainable Chemistry 2015: the way forward*” was highly acknowledged
- Chemical Watch cites UNEP as perceiving “**sustainable chemistry** ready for global consideration”
<https://chemicalwatch.com/37400/sustainable-chemistry-ready-for-global-consideration-says-unep>
- Concept of **sustainable chemistry** to be mainstreamed to SMCW until and beyond 2020

Relevant & actual



- **UNEA2 23.-27.05.2016**: Draft resolution SMCW, involving *sustainable chemistry*
- **UNEA2 side event 23.05.**: *Advancing sustainable chemistry in a sustainable development context: Opportunities for global, regional and national chemicals management* (Germany, Ghana, UNEP, BRS-Sekretariat)

Many sustainable chemistry approaches & initiatives...

Numerous technical and theoretical approaches exist, broad range of coverage, consistency, ambition, measurability, ...

- ***Common understanding needed with strengthened specifications***

What has to be strengthened ?

- **inherent safety; substitution; reduction of emissions and exposure; save resources and use renewable resources (*sustainably!*); life-cycle considerations....**



What is missing ?

- **indicators, education, employment, consumer protection...**

The need to bundle and network in sustainable chemistry

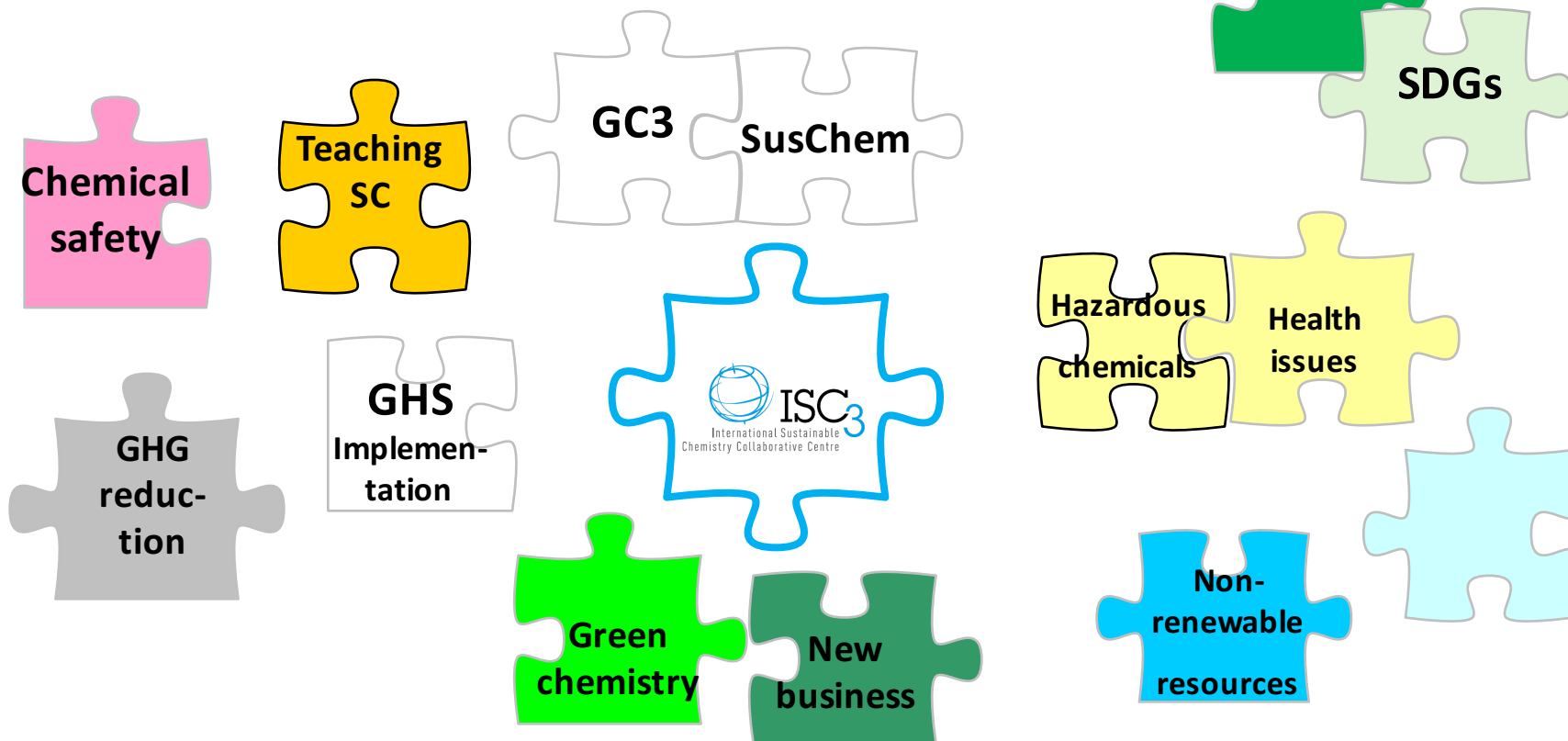
- **bundle knowledge, activities, and expertise**
- **develop / strengthen partnerships with all stakeholders, establish international network of experts, connect existing networks**
- **link requirements of sustainable chemistry with industrial and economic activities**
- **provide substantial contributions to SDG implementation**
- **constitute benefits of sustainable chemistry by best practice examples and promote their development**



3.3 POSITIONING THE ISC₃ INITIATIVE TO TACKLE THE NEEDS



ISC₃ will be an important puzzle piece...



... to get the post 2020 process running

Organization and roles



Organization:

- Independent institution working on a scientific basis
- Based in Germany, open for companies, scientists, international organizations, governments, NGOs
- Structure and organizational framework under development
- Financed from research subsidies and project funding

Roles and scope:

- Platform for the International Sustainable Chemistry community
- Incubator, multiplier of ideas and innovations
- Think tank and source of inspiration
- Knowledge base for Sustainable Chemistry

Timetable of the project ISC₃ getting started

4/2015	Start of the project	
9/2015	Sustainable Chemistry – the way forward Berlin conference	
10/2015	ICCM4 – Geneva SAICM conference with ISC₃ side event	
12/2015	Advisory council started its work	
	Website http://isc3.org accessible for the public	} Input by the public
~/2016	Setting up a network connected to ISC₃	
05/2016	Sustainable chemistry side event UNEA2	
12/2016	Recommendations by the advisory council	
3/2017	International conference (hosted by German Government) Launching ISC₃ and the network	

VISIT THE WEBSITE → <http://isc3.org>

English German



International Sustainable
Chemistry Collaborative Centre

About ISC₃

News

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Sustainable Chemistry

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Home

ISC₃ – International Sustainable Chemistry Collaborative Centre

Welcome! ISC₃ sounds like chemistry, doesn't it? And it is! But ISC₃ is much more besides. ISC₃ stands for International Sustainable Chemistry Collaborative Centre. The ISC₃ is an institution which is still "under construction" – and you can help to build it!

The world is faced with major challenges, such as global population growth, poverty, hunger and deteriorating environmental conditions, increasing migration, climate change, scarcity of resources and the worldwide erosion of stable ecosystems. And the chemicals industry plays an important role. On the one hand, as a consumer of raw materials and energy it is a key emitter and thus a cause of the problem. Yet on the other hand it today already plays an important part with many of its products in solving the problem and can make a substantial contribution to achieving global sustainable development goals. The **ISC₃ – International Sustainable Chemistry Collaborative Centre** – wants to support the global breakthrough of Sustainable Chemistry

Sustainable chemistry will thus also become "mainstream" as a transformation process. Chemical enterprises with suitable innovations can assert themselves in the marketplace – this is the vision behind the project. On this web site, you will find information about the project for the establishment of ISC₃. We answer your questions: Who are the initiators? Who is running the project? What is going on? Who are the stakeholders involved? What about the timetable of the project? Which results have been achieved up to now?



Thank you for your attention!

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