Chapter 1

Chemical safety

by

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OECD governments have comprehensive regulatory frameworks for preventing and/or minimising health and environmental risks posed by chemicals. These frameworks ensure that chemical products on the market are handled in a safe way, and that new chemicals are properly assessed before being placed on the market. However, different national chemical control policies can lead to duplication in testing and government assessments. They may also create non-tariff or technical barriers to trade in chemicals, discourage research, innovation and growth, and increase the time it takes to introduce new products on the market. This case study shows how the development and implementation of the Mutual Acceptance of Data system – under which chemical safety data developed in one member country using the OECD Test Guidelines and OECD principles of Good Laboratory Practice must be accepted by all member countries – is helping minimise unnecessary divergences across regulatory frameworks and facilitate work-sharing by governments.

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Introduction

Today, OECD governments have significant and comprehensive regulatory frameworks for preventing and/or minimising the health and environmental risks posed by chemicals. The objective of these frameworks is to ensure that chemical products already on the market are safe or managed in a safe way, and that new ones are properly assessed before being placed on the market. This is done by testing the chemicals, assessing the results, and taking appropriate action. Such a framework, while rigorous and comprehensive when implemented, is very resource-intensive and timeconsuming for both governments and industry. For instance, the cost for a pesticide company to test one new active ingredient for health and environmental effects is approximately EUR 17 million, and the resources needed for a government to review and assess the data is approximately 2.2 person-years (OECD, 2010). As many of the same chemicals are produced in more than one OECD country (or are traded across countries), different national chemical control policies can lead to duplication in testing and government assessment, thereby wasting the resources of industry and government alike. Different national policies also create non-tariff or technical barriers to trade (TBT) in chemicals. The World Trade Organization has estimated that since 1998, there have been approximately 32 environment-related TBT specific trade concerns: 10 deal with control of hazardous substances, chemicals and heavy metals (WTO, 2010). Furthermore, differences in regulations and test standards discourage research, innovation and growth – as new research and products may only be accepted in the country or countries which apply the same test standards - and they increase the time it takes to introduce a new product onto the market. They can also lead to inefficiencies for governments, because authorities cannot take full advantage of the work of others which would help reduce the resources needed for chemicals control.

OECD's Environment, Health and Safety (EHS) Programme has been working for over 40 years, through international regulatory co-operation, to harmonise chemical safety tools and policies across jurisdictions and to share work on chemical assessments and common problems with the aim of minimising risks posed by chemicals and reducing non-tariff barriers to trade. The development and implementation of the Mutual Acceptance of Data (MAD) system – under which chemical safety data developed using OECD Test Guidelines and OECD principles of Good Laboratory Practice in one Member country must be accepted in all member countries – underpins much of this work. The MAD system is the mechanism which provides the framework for regulatory co-operation and is the focus of this case study.

Main characteristics of the IRC under consideration

Actors involved

OECD's Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology (and its 12 technical subbodies) carry out the work of the EHS Programme. In member countries, OECD government representatives (including the European Commission) from various ministries or agencies (health, labour, environment, agriculture, etc.) work on OECD projects at the national level. In addition, experts from the chemicals industry, academia, labour, environmental and animal welfare organisations, and several non-member economies participate in projects and meetings. These include, in particular, provisional and full adherents to the Council Acts on MAD: Argentina, Brazil, India, Malaysia, South Africa, Singapore and Thailand. The OECD also co-operates closely with other international organisations, most notably in the global effort to implement the recommendations of the UN Conference on Environment and Development (UNCED, Rio de Janeiro, 1992) and the Plan of Implementation of the World Summit on Sustainable Development (WSSD, Johannesburg, 2002). The OECD participates, along with eight other UN organisations involved in chemical safety, in the Inter-Organization Programme for the Sound Management of Chemicals (IOMC):

- Food and Agriculture Organization of the United Nations;
- International Labour Organization;
- United Nations Development Programme;
- United Nations Environment Programme;
- United Nations Industrial Development Organization;
- United Nations Institute for Training and Research;
- World Health Organization;
- World Bank.

OECD co-ordinates with individual IOMC IGOs based on topics or interest and expertise. This can take the form of joint workshops, joint experts groups, or both organisations working together on a publication. In general, each organisation takes the lead when a topic falls within their specialised expertise (e.g., UNITAR and training). Joint work with UNEP includes, for example, the areas of lead in gasoline, multimedia modelling for the transport of persistent substances and the publication and dissemination of OECD HPV SIDS initial assessment reports. In addition, OECD has a long standing co-operation with the WHO in the field of human health hazard and risk assessment. Similarly, OECD works jointly with FAO in the fields of pesticides, food safety and biotechnology, and partners with ILO and UNITAR on the implementation of the Global System of Harmonisation of Classification and Labelling.

In addition, at times, the OECD work lays the initial groundwork for broader international consensus on chemicals management. For instance, in 1984, OECD countries agreed that when exporting a chemical considered hazardous from an OECD country, the importing country should be informed. This principle was laid down in the 1984 Council Recommendation, and eventually constituted the basis for UNEP and FAO to develop the Rotterdam Convention on Prior Informed Consent (PIC) Procedures in 1998.

The Stockholm Convention on Persistent Organic Pollutants (POPs) is a global treaty to protect human health and the environment from chemicals that remain intact in the environment for long periods, become widely distributed geographically, bioaccumulate in humans and wildlife, and have adverse effects to human health or to the environment. Some Perfluorinated Compounds have been restricted in the European Union, United States, Canada, Australia and other countries and Perfluorooctane sulfonate (PFOS) and related chemical products have been considered for inclusion as new POPs under the Stockholm Convention. OECD's Steering Group on PFCs has worked to share information about scientific insights and regulatory approaches, as well as to collect more reliable data of the production and use of PFCs, including information from producers on environmental releases of targeted substances from manufacturing and the content of targeted substances in products, in support of the implementation of the Stockholm Convention. More recently, OECD and UNEP established a Global PFC Group to improve the outreach to developing countries where the production of PFCs is growing fast.

OECD's EHS Programme is also actively involved in the implementation of the Strategic Approach to International Chemicals Management (SAICM) which bring together governments from more than 150 countries and many stakeholders to support the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimise significant adverse impacts on the environment and human health.

Intended objectives

The objectives of the MAD system are as follows:

- By accepting the same test results OECD-wide, unnecessary duplication of testing is avoided, thereby saving resources for industry and society as a whole.
- Non-tariff barriers to trade, which might be created by differing test methods required among countries, can be minimised.
- The use and suffering of laboratory animals needed for toxicological tests is greatly reduced, which is a significant contribution to animal welfare.
- By establishing the same quality requirements for tests throughout OECD, a level playing field for the industry is ensured.

The MAD system opens opportunities for countries to work together in the EHS Programme on issues of common concern. By using the results from the same test methods for making safety assessments, mutual understanding among countries about chemical safety assessment and resulting risk management is greatly increased. This allows countries to share work on assessing chemical safety and consider options for managing chemical risks.

Forms that the co-operation is taking:

The principal tools for harmonisation are a set of three OECD Council Acts which make up the OECD Mutual Acceptance of Data system, including its OECD Guidelines for the Testing of Chemicals and Principles of Good Laboratory Practice (GLP):

• The 1981 Council Decision on MAD states that data generated in a Member country in accordance with OECD Test Guidelines and Principles of Good Laboratory Practice (GLP) shall be accepted in other Member countries for assessment purposes and other uses relating to the protection of human health and the environment.

- The 1989 Council Decision-Recommendation which requires the implementation of the characteristics of national compliance programmes for GLP also deals with the international aspects of GLP compliance monitoring. It requires designation of authorities for international liaison, exchange of information concerning monitoring procedures and establishes a system whereby information concerning compliance of a specific test facility can be sought by another Member country where good reason exists.
- The 1997 Council Decision which sets out a step-wise procedure for non-OECD countries to take part as full members in this system.

The binding nature of these Acts, particularly the 1981 Council Decision, ensures that all countries abide by the requirements to accept data from other OECD members, and non members who also adhere to these Acts. In general, most countries adopt the OECD Test Guidelines and OECD Principles of GLP into national regulations, either verbatim or with minor, non substantive changes. With respect to national GLP compliance programmes, OECD's programme of continuing periodic on-site evaluations of members provides for an on-site team, composed of inspectors from other OECD countries, to evaluate each Monitoring Programme every ten years. Following discussion in the Working Group on GLP on the results from the on-site evaluation, a final report, including the conclusions and any recommendations agreed by the Working Group, will be prepared for use by GLP Compliance Monitoring Programmes in member countries in the framework of MAD. Finally, industry is encouraged to notify the OECD Secretariat if one country rejects a study from another country, conducted under the MAD system. Industry has also been provided access to a password-protected site to describe issues of dis-harmonisation across countries in the way they implement the GLP Principles. The Working Group on GLP will evaluate these comments and suggest a path forward.

By making the system accessible to non-member countries who adopt the same test methods and quality standards for chemical safety testing as OECD countries, the same level of protection of health and the environment is ensured. Access to markets is further enhanced by harmonisation and mutual recognition of standards for development of safety data. As a result of the MAD system, countries have confidence in the quality and rigour of the laboratories that generate the test data and the results from such testing, which is particularly important in many EHS activities (e.g., work on assessing the hazards of chemicals) in which countries work together to develop chemical assessments based on agreed data.

Functions being co-ordinated

The EHS Programme focuses on the following areas of co-ordination:

The MAD System

 Harmonisation: implementation by OECD countries of the OECD's Mutual Acceptance of Data (MAD) system – including the development and updating of OECD Test Guidelines and Principles of Good Laboratory Practice (GLP).

EHS work made possible because of the MAD system

- *Burden sharing*: given the harmonisation of the test methods and GLP, countries can also collaborate on the actual assessments of chemicals (based on such testing data) for evaluating the safety of high production volume (HPV) chemicals. Through the OECD EHS Programme, individual countries and their chemical companies agree to take the lead on the testing and assessment of some of these chemicals based on the number of high volume chemicals produced or imported in their country. Costs are further reduced by allowing predictive models to be used for groups of similar chemicals so that each chemical does not have to be individually tested.
- *Harmonisation*: Another role for the EHS Programme is to harmonise industry dossiers based on chemical test data and review reports for pesticides registration.
- *Exchanging technical and policy information*: the EHS Programme acts as a forum for countries to exchange technical and policy information. By discussing their chemical control policies together, countries tend to develop similar policies and regulations and have greater confidence in each other's systems. In this way, not only are government resources saved, but products can also be brought to market faster. Finally, governments have access to the experience of the many scientific and policy experts from governments, industry, non-governmental organisations and academia who participate in the work of the EHS Programme.
- Outreach: the OECD's share in world chemical production is decreasing as non-OECD economies – particularly Brazil, Russia, India, Indonesia, China and South Africa – develop their chemical sectors. Greater international co-operation is needed with these economies to build capacity, share information and ensure that new national chemical management systems do not lead to duplicative work or conflicting regulations and new trade barriers. The OECD's

EHS Programme has a proactive outreach strategy to encourage the participation of non-OECD members in the work of the programme and to allow them access to technical and policy discussions and documentation. Of particular importance is opening the MAD Council Acts to non-members who wish to adhere to the 1981 Council Decision.

Short history of the development of the IRC

Triggers

Over the last four decades, there have been four principle drivers for International Regulatory Co-operation by OECD in the field of chemical safety. One, the chemicals industry - which includes industrial chemicals, pharmaceuticals, pesticides, biocides, food and feed additives and cosmetics - is one of the world's largest industrial sectors and many chemicals are produced and traded internationally.¹ Thus international co-operation on chemical safety was seen as a way to avoid non-tariff trade barriers due to varying regulatory requirements. As many of the same chemicals are produced in more than one OECD country (or are traded across countries), different national chemical control policies can lead to duplication in testing and government assessment, thereby wasting the resources of industry and government alike. Two, releases of chemicals during production and use can travel across national (and sometimes regional) borders and thus, international co-operation is essential for a more comprehensive management of risks. Three, OECD countries, in general, follow the same approach to the assessment of chemicals, and thus there are economic efficiencies if countries can work together on such assessments. Four, through OECD Council Acts there was a possibility to make commitments which legally (decisions) or among countries are politically (recommendations) binding. This level of political engagement that can be achieved through the OECD and the peer pressure that can be applied to help ensure implementation of agreements, are crucial instruments to make sure that countries will follow up on harmonisation arrangements.

OECD's IRC work in the field of chemical safety began in 1971 with a focus on specific industrial chemicals known to pose health or environmental problems, such as mercury or CFCs (chlorofluorocarbons responsible for depleting the ozone layer). The purpose was to share information about the risks of these chemicals and to act jointly to reduce them. One of the important achievements of the early years was the 1973

1. Global sales in 2009 amounted to over USD 3.5 trillion, with exports approximately USD 1.5 trillion.

OECD Council Decision to restrict the use of PCBs. This was the first time concerted international action was used to control the risks of specific chemicals. By the mid-1970s, however, it became clear that concentrating on a few chemicals at a time would not be enough to protect human health and the environment. With thousands of new chemical products entering the global market every year, OECD countries agreed that a more comprehensive strategy was needed. The OECD therefore began developing harmonised, common tools that countries could use to test and assess the risks of new chemicals before they were manufactured and marketed. This led to a system of mutual acceptance of chemical safety data among OECD countries, a crucial step towards international harmonisation and reduction of trade barriers.

Time period, main landmarks

The adoption of the Council Act on Mutual Acceptance of Data in 1981, opened up many new opportunities for governments to work together to tackle chemical management issues, as the same data would be accepted across all OECD countries.

The safety aspects of new chemicals being introduced to the market were obviously a key issue that needed consideration and relevant policies. In 1982, at an OECD High Level Meeting on Chemicals, countries decided that, before new chemicals are marketed, governments should have enough information about them in order to ensure that a meaningful assessment of hazards can be carried out. This decision signalled a policy change from a "react and cure" mode to "anticipate and prevent". As a result, most OECD countries began to set up notification systems for new chemicals. A Minimum Pre-Marketing set of Data (MPD) was agreed in an OECD Council Recommendation, which specifies the information needed in the notification. This data set includes detailed information regarding the toxicity of chemicals and their potential for accumulation and biodegradation in the environment.

Once member countries had established workable systems for managing the safety of new chemicals, their attention turned to so-called "existing chemicals". These were the tens of thousands of chemicals already on the market before new chemicals notification schemes had been put in place in the early 1980s. Member countries agreed that the task of investigating the safety of this large number of existing chemicals was too big for one country. Co-operation among countries on the assessment of these chemicals was initiated by a new Council Decision. The MAD system provided an excellent starting point on which to build such work. In order to organise the large amount of work, a number of priorities had to be set. It was agreed to deal first with High Production Volume chemicals (HPVs) – chemicals produced or imported annually in quantities of greater than 1 000 tonnes in at least one OECD country or the European Union – because in most cases these would potentially lead to the largest exposures to man and the environment. Agreement was then reached on the information needed on the HPVs, which resembled to a large extent the MPD for new chemicals.

To further facilitate work sharing, OECD governments turned their attention to harmonising industry dossiers for the registration of new pesticides, or re-registration of existing pesticides. By using the same format, once a company compiles a dossier for one country, the costs and time involved in developing dossiers for other countries would be significantly reduced. In 1998, OECD adopted a guidance document for applicants wishing to have particular active substances approved or plant protection products registered. It provides guidance with respect to the format and presentation of the documentation to be submitted. Similarly, OECD issued a guidance document on the format and presentation of the documentation to be prepared by the regulatory authorities (i.e., a pesticide monograph), in the context of applications for the registration of plant protection products. The aim of these two documents was to reduce the cost to industry of submitting dossiers and facilitate the exchange of monographs between OECD countries with a view to achieve a sharing of the work necessary for the evaluation of plant protection products and their active substances. Initial steps have begun toward "joint reviews" conducted by countries on the same pesticide dossiers, with efforts to harmonise the end points derived from pesticide industry safety studies, with the ultimate objective of work sharing. This will save considerable resources for governments, and time for industry.

Similar efforts over the years to develop guidance documents, common formats and share assessments have since been applied in the EHS programme for biocides, chemical accidents, regulatory oversight of biotechnology, the safety of novel foods and feed, and manufactured nanomaterials. Around 20 OECD Council Acts deal specifically with chemical safety issues, many of which foster greater co-operation amongst countries.

Institutional set-up: who does what in the co-operation, at what level of government

The EHS Programme is implemented by the Joint Meeting and its twelve technical sub-bodies. In general, Heads of Delegation to the Joint Meeting comprise the Directors or Heads of Environment, Health and Safety programmes in governments, and their staff participate in the technical sub-bodies of the Joint Meeting.

Most of the work involves the development of instruments, methods, guidance documents and databases which support the harmonisation of chemical programmes, and facilitate work sharing. When the OECD addresses a new chemical safety issue, the starting point is often a survey of current practices in OECD countries. The analysis helps determine similarities and differences among national approaches, and also helps identify the areas where the OECD can add value. OECD countries may then agree on a programme of work with clear, practical objectives and specific timelines. Countries then work together towards the common objectives. They prepare proposals, technical guidance, recommendations and policy documents that are usually reviewed in meetings. After policies are adopted, the OECD plays a facilitator role and assists countries in the implementation of the decisions by developing high-quality tools and instruments and regularly reviewing the implementation in member countries. In many cases, one or more governments takes the lead on developing new instruments often based on existing material - such as existing national test guidelines with the intention of developing harmonised OECD Test Guidelines that can be used to generate data that will be accepted in all OECD countries. All of these products are freely available via the internet. Many member countries and the European Union have used these products directly as part of their regulations (for example the Test Guidelines and GLP as standards for testing), or they have used the EHS products as a basis for developing and implementing their regulations.

Typically, the staff of the EHS Division carries out the daily work, co-ordinating efforts with the work among experts and policy makers and with other intergovernmental organisations. The staff reviews and revises the first drafts proposed by lead countries, incorporates comments from experts in documents, organises the necessary meetings and teleconferences and works to build consensus on documents among member countries. The Secretariat also looks carefully at emerging issues in the chemical safety arena and brings them to the attention of countries, through proposals for work to be undertaken at the OECD. From the beginning of the work, stakeholders beyond government have also contributed actively through their participation in meetings. Many of the methods which are developed to address chemical safety have to be used by industry, and therefore it has been of great value to include the expertise from the chemical industry in the development of such methods. Participation by stakeholders from organised labour, environmental NGOs and the animal welfare community has also been important in ensuring a wider acceptance of this work.

Next steps envisaged in the co-operation

The Programme of Work for 2013-16 calls for a continuation of current efforts to support international regulatory co-operation, but also particularly in new areas:

- *Greater outreach to non-members.* Global shifts in patterns of production of chemicals will mean that more countries will consider it prudent to set up chemical safety policies. Given the experience of OECD including its support of SAICM further co-operation with selected non-members in a global context could prove to be very useful. In addition, input to OECD work from non-member experts will contribute to increasing the quality of the products and making them more widely applicable.
- *Co-ordination with experts to develop new methods* which can improve the efficiency of the chemical safety management (e.g., mathematical approaches designed to find relationships between chemical structures and biological activities of studied chemicals).
- Sharing information to assist countries in risk management of specific chemicals of concern, such as perfluorinated chemicals.

Assessment

Benefits

In 2010, an analysis was conducted to determine the net savings governments and industry accrue from their participation in the OECD EHS Programme (OECD, 2010) (a similar analysis was conducted in 1998). With respect to quantitative savings, the analysis focused on the benefits of two approaches: *harmonisation* (e.g., through the Mutual Acceptance of Data system) and *burden sharing* (e.g., from working together through the HPV programme).

Three surveys were conducted in March 2009 to collect data from OECD governments and the pesticide and industrial chemicals industry. Additional data were collected from the OECD's Event Management System (EMS) which contains data on the number of OECD meetings held each day and the number of delegates registered for those meetings, and from the OECD's High Production Volume database. In essence, the analysis compared two scenarios: *one* with the MAD system, sharing the burden activities, and use of common formats; and *the other*, without such approaches. For example, without the OECD MAD system, slightly different test methods and GLPs would have been developed by each country independently. Based on the results of the EHS surveys of the

pesticide and industrial chemicals industries, it was estimated that, in the absence of the EHS Programme, Country A would not accept 36% of the test data for *new industrial chemicals* nor 33% of test data for new *pesticides* emerging from Country B because of differing methods, and therefore, that testing would have to be repeated.

The savings can be summarised as follows:

Savings due to:	Savings			
New chemicals				
 no need to repeat testing 	EUR 27 576 000			
New pesticides				
 no need to repeat testing 	EUR 134 640 000			
use of OECD dossier format	EUR 1 546 800			
 use of OECD monograph format 	EUR 2 408 700			
High production volume chemicals				
 no need to repeat testing; ability to use quantitative structure activity relationships (Q)SARs following OECD principles 	EUR 1 547 400			
 use of co-operative assessments 	EUR 508 680			
Total savings (not counting costs)	EUR 168 230 000			

Table 1.1. Annual savings resulting from the OECD's EHS Programme

OECD (2010), Cutting Costs in Chemicals Management: How OECD Helps Governments and Industry, OECD Publishing. doi: 10.1787/9789264085930-en.

In addition, in developing this report it was not possible to quantify all of the benefits of the programme's work. However, these unquantified benefits are just as real, likely and important as the quantified benefits. Such benefits include the health and the environmental gains from governments being able to evaluate and manage more chemicals than they would if working independently. They also include the avoidance of delays in marketing new products; according to industry sources, these could represent similar amounts of money as those saved by avoiding duplicative testing (for example, delays in registrations of a pesticide might lead to missed sales for a full growing season). Further, by providing a forum for experienced experts from member countries to discuss scientific issues, the EHS programme is helping countries develop new and more effective methods for assessing chemicals (e.g., approaches for assessing chemicals with endocrine disrupting potential, the effects of chemicals on children, and the effects of exposure to multiple chemicals). Individually, no country could match this level of expertise in each field. A summary of the non-quantitative benefits is provided in the table below.

Benefits for governments	Benefits for industry	Benefits to society
Creation of networks among government and industry experts in OECD countries	Creation of networks among government and industry experts from the OECD countries	Reduction in animal testing
Forum to develop new policies to harmonise OECD-wide (9 Council Decisions, 12 Council Recommendations, 1 Council Resolution)	Reduction in delays for marketing new products	 Better health and environment protection: More chemicals can be evaluated, and action taken if necessary, than if countries work independently
Development of technical instruments that improve the quality of chemical evaluations and regulations	Harmonised classification and labelling systems for chemical products	 Worldwide availability of transparent, government-vetted, high quality information and data
Access to information and advice from countries with different policy experience	Reduction in non-tariff trade barriers	
Harmonised classification and labelling systems for chemical products	Opportunity to obtain information about OECD countries' policies and regulations	
Much increased availability of safety data on high production volume chemicals		

Table 1.2. Qualitative benefits of the EHS Programme

OECD (2010), Cutting Costs in Chemicals Management: How OECD Helps Governments and Industry, OECD Publishing. doi: 10.1787/9789264085930-en.

Challenges

Considering the work done so far in the EHS Programme and looking at expectations for future activities, the following challenges can be considered:

• while the commitment of member countries and stakeholders to provide expertise and extra budgetary resources for work in the Programme is listed as one of its strengths, in times of budgetary constraints, this dependence on such commitments in order to be able to produce high quality results, could also turn into a threat;

- After years of working on chemical safety, many of the "easy" issues have been dealt with and while for the remaining tasks international harmonisation and work sharing will continue to be as necessary as before, the technical complexity (including advancements in science) will be increasing, which will make the relevance of continued work on chemical safety more difficult to explain to policy makers;
- The shift in chemical production from OECD countries to non-members can make the OECD less representative and less influential in the global setting when not enough attention is paid to outreach;
- While obtaining consensus on methods and guidance is a necessity to ensure that these are also used in practice by all concerned, there is a risk that with the increasing complexity of issues and the increasing number of players involved, the process of obtaining consensus will become slower;
- The difficulty of the monetary quantification of the effects of chemicals on human health and the environment, as well as of the impacts chemical safety policies have on avoiding such effects, can also result in a lower policy priority for chemical safety. Cost of inaction calculations, which have been politically influential in other areas of environmental policy, are difficult to carry out for chemical safety policies.

Costs

In the 2010 analysis, the costs of the EHS Programme were calculated based on *i*) Secretariat costs (OECD Secretariat support, including staff salaries, benefits and travel; consultants and invited experts; and general overhead); and *ii*) Country costs (the costs to governments, industry and other non-governmental organisations (NGOs) of participating in and contributing to the work of the EHS Programme). These include both travel costs to attend OECD meetings and staff costs for developing and reviewing EHS documents and preparing for and attending EHS meetings.

The 2010 report estimated the annual costs of the EHS Programme as shown in the table below. From this, the *net* annual savings of the Programme were estimated to be EUR 153 000 000: *Total savings [EUR 168 230 000] minus Costs [EUR 15 228 000]*.

Country costs		Secretariat costs	
Number of meetings ^a	99	Part I budget ^b	
Average length of meetings ^c (days)	2.52	Expenditure on permanent staff and consultancy funds	EUR 342 050
Total number of participants ^d	3 589	Part II budget ^f	
Travel costs ^e	EUR 5 578 700	Special Programme on the Control of Chemicals	EUR 1 821 700
Country staff costs ^g	EUR 6 069 100	Grants ^h	EUR 1 416 100
Total country costs	EUR 11 648 000	Total Secretariat costs	EUR 3 579 800
Total costs (Secretariat and countries)		EUR 15 228 000	

Table 1.3. Estimated total annual costs of supporting the EHS Programme

Notes:

- a Yearly average over the period 2006 to 2007 (from EMS data).
- b The Part I Budget is the regular OECD Budget to which all member countries contribute.
- c The average length of meetings is a weighted average based on the number of participants and the length of each meeting.
- d Yearly average over the period 2006 to 2007 (from EMS data).
- e Travel costs (rounded) = travel [weighted average cost of round-trip flight (EUR 1 000) x number of participants (3 589)] + expenses [length of meetings (2.52 days) x daily expenses (EUR 220) x number of participants (3 589)].
- f The Part II budget constitutes assessed extra-budgetary contributions made by 27 out the 30 member countries to support the Special Programme on the Control of Chemicals.
- g Country staff costs (rounded) = participation [length of meetings in hours (2.52 x 8 = 20.16) x number of participants (3 589) x staff costs per hour (EUR 36)] + preparation [(133% x 20.16 = 26.8128) x number of participants (3 589) x staff costs per hour (EUR 36)].
- h Extra-budgetary contributions from countries to support specific activities in the EHS Programme.

Source: OECD (2010), Cutting Costs in Chemicals Management: How OECD Helps Governments and Industry, OECD Publishing. doi: 10.1787/9789264085930-en.

Factors of success

- Trust building:
 - Development of a common language / formats;
 - Alignment of testing methods and GLP;
 - Establishment of binding Council Acts on Mutual Acceptance of Data.
- Focused initiative that grew progressively;
- Strong industry buy-in and support.

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