Additional areas of cooperation reflecting inputs from relevant partners (update, November 2021)

No.	Category of action (e.g. prevention, preparedness, response, etc.)	Type of activity (e.g. capacity development, frameworks, guidelines, methodologies, tools)	Target region and/or scenarios (e.g. national, regional, global)	Name, general objective and budget of the activity	Status and time frame of activity (e.g. planned, on-going or completed and when)	Key activities and expected outcomes of the activity (including time frame, status and language, if possible)	Lead-working group and/or project partners involved	Opportunities for cooperation / identification of possible synergies (e.g. specify areas in which support would be desirable, identify possible partners and the kind of support)	Contact person (name, title, e-mail, organisation, tel.)
United Nations Economic Commission for Europe									
1	Prevention / Preparedness / Response	Capacity development	UNECE, CIS and CEMT region	Promotion of an online training course: "Strengthening Mine Tailings Safety". The course is a self-paced training course designed for anyone wishing to improve their knowledge of industrial accidents in order to better prevent, prepare for and respond to them. The project budget, including in-kind and financial contributions, was 40 000 US$.	June 2021-April 2022 (completed). Promotion of use of online training ongoing	Promotion of the English, French, Russian, Spanish and Chinese versions of the online training course "Strengthening Mine Tailings Safety" across the extent mapping course, see here: http://learning.unecevin.org/login/index.php	UNECE, OCHA, UNEP	Promotion of the online training course among industrial accidents at meetings and conferences of partner organisations.	Lisa Rubach Environmental Affairs Officer Convention on the Transboundary Effects of Industrial Accidents Environment Division United Nations Economic Commission for Europe Email: physcentre.rubach@un.org Tel: +41 22 22 917 2458 Palais des Nations 8-14 avenue de la Paix CH - 1211 Geneva 10, Switzerland
2	Prevention / Preparedness / Response	Capacity development	UNECE	Promotion of the Online Toolkit and Training for Strengthening Mine Tailings Safety. The online toolkit serves as a hub for anyone working in the field of mine tailings safety and work and tools on mine tailings safety under the Industrial Accidents Convention. At the same time, it provides online training for countries, without physically meeting, to improve their knowledge and understanding of the challenge of mine tailings and to apply existing guidelines, including UNECE's tools, to improve tailings safety. The toolkit and training will support the practical implementation of decision 2010/1 on strengthening mine tailings safety in the Industrial Accidents Convention.	Nov 2020-Feb 2021 (completed). Promotion of use of online toolkit and training ongoing	Promotion of the English and Russian versions of the online toolkit and training course "Online Toolkit and Training for Strengthening Mine Tailings Safety". To access the online training course, see here: https://www.unece.org/environment-policy/industrial-accidents/online-toolkit-and-training-strengthening-mine-tailings-English2 and https://unece.org/ru/environment-policy/industrial-accidents/online-toolkit-and-training-strengthening-mine-tailings-Russian2. The decision 2010/1 on strengthening mine tailings safety, adopted by Parties to the UNECE Industrial Accidents Convention, is available at: https://unece.org/sites/default/files/2021-05/Decision%202010_1.pdf	UNECE	Promotion of the online toolkit and training on mine tailings at meetings and conferences of partner organisations.	Ms. Claudia Kamke, Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, Environment Division, United Nations Economic Commission for Europe, Geneva Tel: +41 22 917 1211 email: claudia.kamke@un.org
3	Prevention	Capacity Development	Central Asian countries, in particular Kazakhstan, Tajikistan, Uzbekistan	Projects on strengthening mine tailings safety in Kazakhstan (2018-2019), Tajikistan (2019-2021), Uzbekistan (starting end 2021) and Central Asia (ongoing since 2020)	Ongoing	The objective of the Projects is to strengthen the safety and management of tailings management facilities (TMFs) in Central Asian countries. The main beneficiaries are the competent authorities and operators from Central Asian countries. Expected outcomes are threefold: 1) Development of inventories and maps of TMFs (incl. transboundary ones) in Kazakhstan and Tajikistan (ongoing in Kyrgyzstan and Uzbekistan) and at the river basin level (ongoing in the Syr Darya River Basin); 2) Improved implementation of the UNECE Safety Guidelines and Good Practices for Tailings and Tailings Management Facilities and UNECE Decision on Tailings in Kazakhstan and Tajikistan (planned for 2021 in Uzbekistan); 3) Improved cooperation and coordination among authorities and with operators at all levels through inter-institutional working groups on tailings safety and the prevention of accidental pollution in Kazakhstan (ongoing - first meeting in Dec 2021), Tajikistan (ongoing - inaugural meeting end 2021) and Uzbekistan (starting soon); 4) Update of self-assessment of capacities and needs, including identification of capacity needs and actions related to tailings and hazards risks; 5) Enhanced transboundary cooperation on tailings management between Central Asian countries during subregional meetings and workshops (next one planned for May 2022). More information is available at: https://unece.org/project-supporting-countries-central-asia-strengthening-safety-mine-tailings	UNECE	Cooperation with EIAs involved in strengthening mine tailings safety as part of Mineral Resource Governance Project concerning tailings failures, incl. Karachi accident, is highly appreciated.	Ms. Claudia Kamke, Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, Environment Division, United Nations Economic Commission for Europe, Geneva Tel: +41 22 917 1211 email: claudia.kamke@un.org
4	Prevention / Preparedness / Response	Capacity development, safety-raising	Serbia	National Policy Dialogues (NPDs) for Industrial Safety - Launch & implementation. NPDs consist of a series of consultations on industrial safety, accident prevention, disaster risk reduction and emergency response with relevant national institutions, non-governmental organisations, industry representatives, parliamentary bodies, and other national stakeholders with the support of international experts. Overall objective of NPDs is to effectively assist countries by provided a platform for dialogue in view of advancing policy reforms and enhancing their environmental governance, disaster resilience and industrial safety.	Launch meeting held on 28 October 2020, implementation ongoing until 2022 (project extension)	Set-up of NPD steering Committee; First NPD meeting in March 2022 (provisionally); signature of MoU; holding of 3 NPD meetings/year. Expected outcome: sustainable and locally-owned coordination mechanisms and structures that will not cease to exist with the project termination	UNECE in cooperation with OECD	Synergies with other multilateral environmental agreements, such as the Convention on Pollutant Release and Transfer Registers, the UNECE Convention on the Protection and Use of Transboundary Watercourses and International Lakes as well as with the EU law, including the Seveso III Directive, the Union Civil Protection Mechanism and the Aarhus Partners. Cooperation with relevant CEIAs, mediated - especially	Lisa Rubach Environmental Affairs Officer Convention on the Transboundary Effects of Industrial Accidents Environment Division United Nations Economic Commission for Europe Email: physcentre.rubach@un.org Tel: +41 22 22 917 2458 Palais des Nations 8-14 avenue de la Paix CH - 1211 Geneva 10, Switzerland
5	Prevention	Information Exchange	UNECE	Special Session of the Working Group on Implementation - Seminar on Good Practices and Lessons Learned in Implementing the UNECE Convention on the Transboundary Effects of Industrial Accidents	4-5 Feb 2021, live broadcast and in Geneva	The main objective of the special session is to hold a seminar that promotes good practices and lessons learned in the implementation of the Industrial Accidents Convention in order to help overcome implementation gaps by facilitating the exchange of information among Parties and other countries. There will be sessions on the following topics: Risk assessment, Risk management, Prevention of notification of hazardous accidents, Prevention of industrial accidents, Emergency preparedness, response and mutual assistance, Information to and participation of the public, Decision-making on siting and land use planning, Scientific and technical cooperation and capacity-building, Transboundary cooperation, Good practices and lessons learned from their countries to a broad audience. The target audience includes national authorities, operators of hazardous installations, partner organisations, scholars and students within and beyond the UNECE region.	Preparatory Group for the Seminar, comprised of members from the UNECE Industrial Accidents Convention's Working Group on Implementation and the secretariat.		Ms. Claudia Kamke, Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, Environment Division, United Nations Economic Commission for Europe, Geneva Tel: +41 22 917 1211 email: claudia.kamke@un.org
6	Prevention / Preparedness / Response	Information Exchange	UNECE	UN/ECE/OSCE Focused thematic discussion under the Framework of the European Forum on Disaster Risk Reduction	Event planned for 15 November 2021 (online) - Central Central European time) in ENSI, RUS and FRY	The UNECE Industrial Accidents Convention, in cooperation and co-organisation with OECD, IEA, Norway and Slovenia, is organising a focused thematic discussion on chemical and industrial risk management, under the Framework of the European Forum on Disaster Risk Reduction Preparing another Vienna, Bern Bilan or Beryl accident: Perspectives on risk management in the context of the Sendai Framework and aims to integrate good practice in managing risks related to industrial and chemical hazard into the implementation of the Sendai Framework. Beyond the focused thematic discussion on 15 November, UNECE is preparing a broad discussion on the contribution of the Convention to implementation of the Sendai Framework for DRR and the UPDRR Roadmap 2021 - 2030, and to a working session on climate change adaptation and DRR. These sessions will reflect the perspectives of the Industrial Accidents Convention concerning technological risk management, including the Seveso III Directive and the Industrial Accidents Flexibility, transboundary risks, governance and the central role for accident prevention in risk management.		Visibility of partnership between UNECE, OECD, IEA, EC and UNDRR. A focused thematic discussion with focused thematic discussion includes the transgovernmental programme of the session. Broad outreach was realized, beyond the traditional stakeholders of the Industrial Accidents Convention, by integrating the special session into the EFDRR Forum, and the side-events are integrated into the overall EFDRR conclusions.	Oliver Bonas Limon, Consultant, Convention on the Transboundary Effects of Industrial Accidents Convention; Environment Division; United Nations Economic Commission for Europe, email: maximiliano.limon@un.org
7	Prevention / Preparedness / Response	Information Exchange	Global	UN/ECE/CIS seminar in follow-up to the 2020 Beirut port explosion - causes learned, prevention measures, emergency response, safety risks of ammonium nitrate storage, handling and transport in port areas, preventing accidents and mitigating their consequences	Seminar to be held online on 14 December 2021 (10:00 to 13:00 Central European time) in BRA, FRB, ORG, RUS and UKR	The seminar is being organised under an Organizing Committee, comprised of several UN/CIS partner organizations, and with inputs from experts from the Beirut port explosion. The Organizing Committee Group have held multiple meetings to discuss the scope, sessions and speakers of the seminar. The Organizing Committee has also conducted a global survey, to which UNECE analysed the 101 responses received from all UN regions, to inform the seminar's agenda. The survey results show that 1) Lessons learned and learned from the Beirut port explosion and other accidents involving ammonium nitrate (AN) and AN-based fertilizers; (2) Late stock of international laws, policies and other instruments and tools addressing AN and AN-based fertilizers that are relevant for the prevention of accidents and mitigation of their consequences; (3) Lessons learned, best practices, organizational arrangements, technical and risk management in storing, handling and transporting AN and AN-based fertilizers and related accident prevention, preparedness and response; and (4) Scalar cooperation at the international/national levels. The seminar will feature presentations by international organisations, experts, various national authorities, policymakers, industry and other stakeholders from the UN/CIS region and beyond. UNECE plans to convene the Organizing Committee following the seminar (i.e. in early 2022) to discuss work that each organization can do next to address the management of AN. More information is available at https://unece.org/sites/default/files/2021-11/Environmental-Policy/Industrial-Accidents/Events/210ANS	UNECE (lead) secretariats is the UNECE Industrial Accidents Convention and to the Sub-Committee of Experts on the TDG and GHS; ILO, OECD, UNEP/OCHA, IEA, UNDPA, OSCE	Initiation facilitated the seminar; promotion of the seminar; potential cooperation for these partners engaged already and consideration of follow-up work after the seminar	Joseph Stanigar, Consultant, Convention on the Transboundary Effects of Industrial Accidents Convention; Environment Division; United Nations Economic Commission for Europe, email: joseph.stanigar@un.org
8	Prevention	Information Exchange	UNECE	Development of 2 reports on risk assessment: "Risk Assessment for Industrial Accident Prevention: An Introduction to Methodologies and Available Software Tools" and "Risk Assessment Methodologies Applied in the Chemical Industry and Industrial Accident Prone Industrial Facilities", as a follow-up to the Seminar on risk assessment methodologies held in the framework of the Tenth Meeting of the Conference of the Parties (Geneva, 6 December 2018)	2021-2022	Risk assessment is an integral part of accident prevention and endorsed in the Industrial Accidents Convention's provision. The UNECE Seminar on Risk Assessment Methodologies, held in December 2018, sought to support UNECE countries in implementing the relevant Convention provisions by providing an opportunity to exchange information on risk assessment methodologies and software methodologies. Notable conclusions reached during the seminar include the challenges executing transboundary risk assessment, and the need for more information exchange on risk assessment methodologies used in the UNECE region, including available software tools. The seminar also underlined that some methodologies were more practical among the follows or recommendations from the seminar. The first report provides a general overview of risk assessment methodologies applicable to risks arising from hazardous activities and lists key software tools available to support chemical installation risk assessment. The second report provides examples of how the risk assessment methodologies have been applied at different industrial installations in the UNECE region. The reports will be presented at a transboundary seminar. The reports will be presented to the Conference of the Parties at its 11th meeting in May/Dec 2022 and be published in the Seminars thereafter.	Lead-working Group on Risk Assessment, comprised of members from the UNECE Industrial Accidents Convention's Bureau, Working Group on Implementation and the secretariat.	Promotion of the reports at meetings and conferences of partner organisations.	Ms. Claudia Kamke, Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, Environment Division, United Nations Economic Commission for Europe, Geneva Tel: +41 22 917 1211 email: claudia.kamke@un.org
International Labour Organization									
8	Prevention	Development of guidelines and tools	Global	Promotion of ratification and implementation of C 174 on prevention of major industrial accidents and the ORG code of practice on prevention of major industrial accidents.	Continuous	Revitalizing on-going activities by enhancing technical assistance to support the implementation of the principles in the instruments, including through collaborations with other international organisations	ILO, WHO, UNEP, OECD	Development and application of promotional materials	Manal AZZI, Senior Specialist on Occupational Safety and Health ZEIN Tsuyoshi Lead ILO-LABADMIN/OSH Branch GOVERNANCE and Tripartism Department International Labour Organization azzi@ilo.org +41227997351
9	Prevention	Development of guidelines and tools	Global	Consolidation of application of chemicals instruments	2021-2025	Drafting guidelines; Experts meeting; Publication and dissemination	ILO	All stages	Manal AZZI, Senior Specialist on Occupational Safety and Health ZEIN Tsuyoshi Lead ILO-LABADMIN/OSH Branch GOVERNANCE and Tripartism Department International Labour Organization azzi@ilo.org +41227997351
10	Prevention	Promotion of the Chemicals Convention, 1993 (No. 170) and the Convention of Major Industrial Accidents Convention, 1993 (No. 174)	Global	Promote the ratification and implementation of the conventions	Continuous	Development of promotional tools and materials; and targeted country/ sub-regional promotional workshops	ILO	All stages	Manal AZZI, Senior Specialist on Occupational Safety and Health ZEIN Tsuyoshi Lead ILO-LABADMIN/OSH Branch GOVERNANCE and Tripartism Department International Labour Organization azzi@ilo.org +41227997351
11	Prevention	Development of a number of tools and publications for safe chemicals management promotion in the world of work	Global	Promote the implementation of the convention	Continuous	Development of promotional tools related to the Globally Harmonized System for Classification and Labelling of Chemicals, including a report and a promotional brochure.	ILO	All stages	Manal AZZI, Senior Specialist on Occupational Safety and Health ZEIN Tsuyoshi Lead ILO-LABADMIN/OSH Branch GOVERNANCE and Tripartism Department International Labour Organization azzi@ilo.org +41227997351
12	Prevention / Preparedness / Response	Technical cooperation project to improve the safety of world of work stakeholders in Lebanon on CWL, chemicals management and the prevention of major industrial accidents	Lebanon	Responding to the Beirut explosion of 2020, the project aims to prepare, prevent and respond to the threat of Major Industrial Accidents (MIAs) through a legislative gap analysis and development of a national CWL profile	2021-2022	Development of a legislative gap analysis to identify the extent to which national laws, regulations, policies, mechanisms and other measures in Lebanon would need to be adjusted to meet the requirements of international labour standards, notably the ILO's Conventions No. 170 on Prevention of Major Industrial Accidents. The project further supports the development of a national CWL profile for Lebanon.	ILO	N/A	Manal AZZI, Senior Specialist on Occupational Safety and Health ZEIN Tsuyoshi Lead ILO-LABADMIN/OSH Branch GOVERNANCE and Tripartism Department International Labour Organization azzi@ilo.org +41227997351
European Union									
13	Prevention / Preparedness / Response	Lessons learned/accident / Lessons	Global	MARS Major Accident Reporting System	Ongoing	The Major Accident Reporting System (MARS) was first established by the EU's Seveso Directive 82/501/EEC in 1982 and has remained in place and has been revised in 1987 (Seveso I), 1996 (Seveso II) and 2012 (today). The purpose of the MARS is to facilitate the exchange of lessons learned from accidents and near misses involving dangerous substances, i.e. in order to improve chemical accident prevention and mitigation of potential consequences. MARS contains reports of industrial accidents and near misses, provided by the Member States and Iceland, Norway (EEA MS) of the European Commission's Joint Research Centre from EU, OECD and UNECE countries (under the Industrial Accidents Convention).	European Commission (JRC Ispra Accident Hazards Bureau), EU Member States, OECD, UNECE and associated countries	MARS is one of the first open source databases on industrial accidents and near misses worldwide. More participation of countries around the world will contribute more accident reports and therefore the database more more useful. Maintaining a good quality database is a significant investment. It is not easy enough to see by all countries encouraged. Moreover, collecting information on accidents is a relatively low resource effort that can help a country in prioritizing and targeting its accident prevention programmes.	Maxime Wood Dreal maxime.wood@ec.europa.eu
14	Prevention / Preparedness / Response	Capacity development	Regional: Armenia, Azerbaijan, Belarus, Georgia, Moldova, Ukraine	Prevention, Preparedness and Response to Natural and Man-made Disasters in the Eastern Partnership Countries (PPRD East 1), EUR 5.5 million EU-funded flagship initiative increasing disaster risk management capacities in Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine.	2014-2019	Expected results: 1. Improved alignment the Partner Countries' legal and institutional frameworks to EU legislation and good practices in the area of civil protection and disaster risk management; •strengthening civil protection capacities of Partner Countries through joint trainings and exercises; •further development and quality in practical use the Electronic Regional Risk Atlas; and •raising awareness about disasters.	European Commission (ECHO, SCHEF and DG NEAR) with several partner organisations	Participations in activities	http://ppdeast2.eu/en/
15	Prevention / Preparedness / Response	Capacity development, exercises	Regional: Armenia, Azerbaijan, Belarus, Georgia, Moldova, Ukraine	Prevention, Preparedness and Response to Natural and Man-made Disasters in the Eastern Partnership Countries (PPRD East 2), EUR 8 million EU-funded flagship initiative increasing disaster risk management capacities in Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine.	2020-2024	Objectives: 1. Build sustainable capabilities of Partner Countries' respective civil protection institutions for disaster risk prevention, preparedness and response to natural and man-made disasters. 2. Strengthen relationships between all relevant governmental actors and civil society stakeholders as well as the scientific community, promote a national inclusive approach to prevention, preparedness and response to natural and man-made disasters. 3. Enhance regional coordination, institutional and operational cooperation between the UCPM and the Eastern neighbourhood countries and among Eastern neighbourhood countries	European Commission (ESI SCHEF), implementing partner: EU Member State civil protection agencies	Resources to be shared: - Online content for training - Training roadmaps to be developed to strengthen capacities in various areas (e.g. EWS, DRA, CRM planning) - Regional guidelines to be developed - Training exercise to take place in spring 2023 (scal-based, TBD)	https://www.ppdeast2.eu/
16	Prevention / Preparedness / Response	Capacity development, partnership building	Member States and EU Neighbourhood Countries (East and South)	Developing Union Civil Protection Knowledge Network partnership among EU, European Neighbourhood Policy countries and international organisations (MET CBRN-RDACT)	2017-2019	Scenario-based approaches will be applied to disaster risks that are common to Eastern Europe and the Middle East and will involve cost effective and sustainable solutions to prevent and mitigate chemicals risks. Conducted within the project research and feasibility assessments of common good practices in preparedness and response to CBRN emergencies will result in new training and exercise opportunities and an on-line network of experts, to enhance knowledge Network.	European Commission (ESI SCHEF), implementing partner: consortium of EU Member States and third country civil protection	Online content, platform	UCPM Knowledge Network project
17	Prevention / Preparedness / Response	Capacity development, exercises	Member States and EU Neighbourhood Countries (East and South)	UCPM Full scale Exercise EU/EU-NEIGH-REACT	2022-2023	Exercise scenario: CBRN, natural disasters (flooding), outbreak of disease.	European Commission (ESI SCHEF), implementing partner: consortium of EU Member States and third country civil protection	Table-top exercise to take place in 2020 and full-scale exercise to take place in 2023 in Moldova (order confirmed once Moldova has requested allowed for beginning of 2022)	UCPM Knowledge Network project
18	Prevention / Preparedness / Response	Capacity building	EU Neighbourhood Countries	Capacity Building in EU Neighbourhood Countries	2014-2020	On behalf of EU DG ECHO, the EC- JRC NAMRI is leading a 7-year project to help build capacity in 6 EU Neighbour Countries in the East (Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine) and 3 in the South (Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Palestine, Tunisia, Lebanon and Jordan). The project aspects to offer both training and tools for countries with specific technical and/or awareness building needs among government and industry, and the general public, as the need is demonstrated and opportunities are available.	European Commission (JRC Ispra Accident Hazards Bureau, ESI SCHEF)	The project will strive to leverage the work of other partners when appropriate and leverage training tools developed by other partners and building on training and pilot or ongoing capacity building activities as may be appropriate.	Maxime Wood maxime.wood@ec.europa.eu
19	Prevention / Preparedness / Response	Capacity building, guidelines, tools, etc.	All partner countries in Europe, Africa and Asia	CBRN Centres of Excellence Initiative The EU CBRN Centres of Excellence (CoE) initiative is a worldwide network of CBRN risk mitigation experts, which aims at mitigating risks related to CBRN materials and promoting risk establishment of a culture of security.	Ongoing	Numerous regional projects (http://www.cbrn-coe.eu/Projects), for capacity building for example: Project 89: High risk chemical facilities and risk mitigation in the Wider Black Sea Region (2020-2021) Project 111: Risk management of chemicals and their associated wastes in Southeast Asia (09/2019-09/ 2021-2023) Project 117: Chemical safety and security in Central and Eastern Africa 2020-2027 Project 21: High risk chemical facilities and chemical risk mitigation in West Africa. 2020-2027 http://www.cbrncoe.eu/	European Commission (PPI and JRC), UNCTBT, EU Member States, OPCW and other international organisations	Participations in activities. Proposals for new activities, cooperation with other CoE partners and/or in CBRN regional activities with national projects.	http://www.cbrn-coe.eu/Contacts.aspx

20	Prevention/ Preparedness/ Response	Capacity building, exercises, tools	28 EU Member States + Iceland, Liechtenstein, Norway, Serbia, the Former Yugoslav Republic of Macedonia and Turkey	Civil Protection Mechanism In 2001, the EU Civil Protection Mechanism was established, fostering cooperation among national civil protection authorities across Europe. The Mechanism was set up to enable coordinated assistance from the participating states in victims of natural and man-made disasters in Europe and elsewhere.	Ongoing	The Mechanism provides, amongst others, participating countries with the opportunity to train their civil protection personnel by exchanging experts, organizing exercises and training courses, with the aim to increase their ability and effectiveness in responding to disasters. Additionally, the Mechanism provides emergency communications and monitoring tools, overseen by the European Response Crisis Centre (ERCC) through the Common Emergency Communication and Information System (CECIS), a web-based alert and notification application enabling real time exchange of information between participating states and the ERCC.	European Commission (DG ECHO)	Participation to activities, proposals to activities, proposals to partner countries, call for proposals or call for tenders.	http://ec.europa.eu/echo/what/civil-protection/mechanism_en
United Nations Environment Programme - Office for the Coordination of Humanitarian Affairs										
21	Response	International technical assistance	Worldwide	Technical assessment at emergencies	Active and ongoing	Technical with Terms and CODA Data (NOTE: in the case of FLEXT-Flexible response Terms Short Term Reading 2012; Response Missions to Guatemala (chemical spill in the river, July 2015); Response at transformer-depot containing certain polychlorinated biphenyls (PCBs), November 2015) and oil (pumping oil remover into the underground tunnel at the border between Gaza and Egypt, January 2016)	Joint UNEP/OCHA Environment Unit secondments.	Promote awareness of resources available to different countries. Use of the Flash Environmental Assessment Tool in response and in trainings. Promote the Flexible Terms and Conditions. Promote UNDAC methodology	UNEP/OCHA Joint Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
22	Response preparedness	Tools & Guidelines	all countries	Development of normative guidelines to improve national and international response	active and ongoing	1. Environmental Emergency Guidelines - Five In Respect Assistance Guidelines: 1. Environmental Emergency Response; 2. Establishment of Environmental Contingency Plan; 3. Assessment After Chemical Accidents; 4. Flash Environmental Assessment Tool (FEAT); 5. Guidelines for Environmental Emergency Response Mechanism. Tools and Guidelines are available on www.ennetrin.org	Joint UNEP/OCHA Environment Unit secondments.	Promote awareness of resources available to different countries. Use of the Flash Environmental Assessment Tool in response and in trainings. Promote UNDAC methodology	UNEP/OCHA Joint Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
23	Prevention/ preparedness	Thematic studies	all countries and organizations	Undertaking of thematic studies in the field of environmental emergencies	active and ongoing	1. Environment in Post-conflict Action Country Studies conducted in Haiti, Afghanistan and Nepal 2. Environmental Emergency Risk Index including technological hazards and environmental vulnerabilities into a single index 3. Strengthening international capacities in preparedness and response 4. Strengthening international Governance systems to respond to EE (the Bruch Project) 5. Integration of environmental emergencies in preparedness and contingency planning	Joint UNEP/OCHA Environment Unit secondments.	Develop and deepen existing studies environmental emergencies and response capacities and mitigating pollution. Provide input in new studies. Undertake pilot new studies. Interest in research and integration of technological hazards in GFDRR (Jamaica pilot)	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
24	Prevention and preparedness	Partnerships and advocacy	all countries	Environmental Emergencies Forum (EEF), Green Star Awards (GSA)	active and ongoing (every 2 years - next EEF is tabled for place in 2017)	Provision of platform for dialogue, policy setting and identification of future trends (EEF). Advocating for strong preparedness actions and mainstreaming environment into humanitarian action, in particular through rewarding humanitarian heros with GSA at the EEF (biennially)	Joint UNEP/OCHA Environment Unit secondments.	Participate and organize sessions - exploring options for the organization of 2017 EEF/GSA	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
25	Prevention/ Preparedness	Industrial hazard identification	Armenia and Kyrgyzstan, Tajikistan and Kyrgyzstan	Industrial hazard identification	active and ongoing	Missions to Armenia and Georgia - including the inclusion of environmental emergencies in national contingency plans; Training workshops on the use of EIGD methodology; Discussions with Central Asian Center on Disaster Risk Reduction on training workshop environmental emergency preparedness for Kyrgyzstan and Kazakhstan (in partnership with the UNDP and OCHA regional offices); Development of a Guidance Note on Environmental Emergencies in Action Plans and the Sendai Framework on Disaster Risk Reduction 2015-2030 (Sendai Framework) - Environmental Emergencies Section	Joint UNEP/OCHA Environment Unit secondments.	Joint implementation of activities in the region based on identified priorities. Technical support, trainings, joint projects to be discussed.	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
26	Prevention/ preparedness	Online training	Tajikistan, Russian speaking countries (global)	5 online adult learning modules in various official UN languages	active and ongoing (Russian and new languages)	Beyond Response: better preparedness for environmental emergencies (English, French and Russian); 2. Industrial hazard prevention, preparedness and response (English, French and Russian); 3. Post-Environmental Assessment Tool (English); 4. Disaster Waste Management (English and French); 5. Environment in Humanitarian Action (English and French) available on www.ennetrin.org	Joint UNEP/OCHA Environment Unit secondments.	Promote training opportunities and encourage participation. Development of new joint trainings (online and in-person). Strengthening of the partnership around the Environmental Emergencies Section	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
27	Prevention/ preparedness	Classroom training/workshops	Low and middle-income countries	Modular classroom training modules in various official UN languages available	active and ongoing	Beyond Response: better preparedness for environmental emergencies classroom training that includes elements of 1) Industrial hazard prevention, preparedness and response; 2) Post-Environmental Assessment Tool; 3) Disaster Waste Management; 4)	Joint UNEP/OCHA Environment Unit secondments.	Joint delivery of trainings. Development of new modules. Promote training at relevant academic and	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
28	Response preparedness	Classroom training including full-day field simulation exercise	Countries in need of international assistance in flood or earthquake	Environmental Emergencies Training (EET)	active and ongoing	Modular classroom training available and offered to humanitarian and disaster response partners through existing training programmes, including UNDAC, EU www.unecha.org/eet	Joint UNEP/OCHA Environment Unit secondments.	Organize and promote training as part of improving international assistance provision	Joint UNEP/OCHA Environment Unit. Mr. Brendan McDonald, Chief, Emergency Preparedness and Environment Section, OCHA, Geneva, Tel: +41 22 917 2543
United Nations Development Programme										
29	Prevention/ Preparedness/ Response	Guidelines, tools, expertise and technical support	Global	Project: Flexible Framework Initiative for Addressing Chemical Accident Preventiveness and Preparedness. Objective: Provide guidance to support any government that wants to develop, improve or review their programme for chemical accident prevention, preparedness related to hazardous installations. Budget: dependent on annual contributions and partner contributions.	coordination ongoing	Development of a guidance materials: 1) Flexible Framework for Addressing Chemical Accident Prevention and Preparedness: Guidance Document (2010) and Flexible Framework for Addressing Chemical Accident Prevention and Preparedness: An Implementation Support Package (2012); Flexible Framework Expert Working Group: Annual Report on Chemical Accident Prevention and Preparedness Programme Projects (GAPP Programme Projects); Report on Case Studies of Implementation of Chemical Accident Prevention and Preparedness Programmes (2015); regional CAPPs pending resources for East Asia and West Africa; Dedicated webportal available on www.capp.net; http://www.unep.org/resourceefficiency/Business/SectoralPromotion/Safe-Production/FlexibleFrameworkInitiative/Publications/tabid/103819/Default.aspx and www.unep.org/flexibleframework; Dedicated webportal available on: www.capp.ennetrin.org;	UNEP, SC NAMR, OECD WGCA, Swiss Glacier Preparedness Centre, public authorities (UK HSE, France, the Netherlands, UK, Switzerland, Cambodia, Senegal), industrial experts, UN organisations (UNECE, WHO, ILO, UNECE, Joint UNEP/OCHA Environment Unit)	• Promoting Flexible Framework Guidance and implementation Support Package into additional languages, including Russian, Arabic (Russian), or Up-lating Flexible Framework Expert Working Group. • Promoting to other partners: EU, OECD WGCA, SC NAMR, in development of sub-projects e.g. on sharing of information on chemical accidents. • Promoting to other OECD WGCA, SC NAMR and/or indicators to monitor the development of GAPP Programmes at the national level and use of the FF Guidance. In Emerging/Rising Flexible Framework Guidance on different organisations' websites	UNEP DTIE: Mr. Rita Triviai, Steve Fitzgerald, Industry and Urban Chem Unit, UNEP-DTIE, Paris, email: rita.trivisa@unep.org ; sandra.zwirner@unep.org
30	Prevention/ Preparedness/ Response	Capacity development	Mali, Senegal, Tanzania, Jordan, Cambodia, the Philippines and one other country (Ethiopia, Egypt, Pakistan, others)	Project: Chemical Accident Prevention and Preparedness Programme (Phase II). General objective: Strengthen capacity of countries to develop CAPP programmes, develop a Country Situation Report, Needs Assessment and Roadmap for future activities. Budget: 250,000 USD for each individual project.	2009-2010: completed; Philippines, Mali, Senegal (completed), 2012-2014 Sri Lanka (completed), 2013-2015 Tanzania (completed)	The project activities include: 1. Project inception workshop; 2. Establishment of a multi-stakeholder CAPP Taskforce; 3. Development of a Country Roadmap Report; 4. Training activities targeted to current situation; 5. Needs Assessment and Roadmap; 6. Project closure workshop.	UNEP, SACEM Quick Start Programme Trust Fund, various government agencies and multi-stakeholder taskforce, INERIS, GERP, MAMS, Ministry of Environment of France, Swiss Federal Office for the Environment	• Promotion of joint capacity building activities, including Online Training Course on Industrial Accidents, translating the Online Training Course on Industrial Accidents into Russian and Arabic, used in CAPP Programme Projects. • Expertise and technical support. Possible partners: EC, EU Member States, OECD, EPRC and others. Developing joint country projects in countries of mutual interest and/or regional projects. Possible partners: OECD, UNECE, EC, SC NAMR, IEC, Europalat and others. • Follow-up and mentoring after CAPP Programme Project phase.	UNEP DTIE: elisa.tonda@unep.org; sandra.zwirner@unep.org
31	Prevention/ Preparedness/ Response	Training materials and tools	Global	Project: A Flexible Framework Implementation Support Package Manual is to be hosted at the Environmental Emergencies Centre. Objective: provide a repository for all training materials used in CAPP Programme Projects and a central repository for training materials and resources for the development of a CAPP Programme. Budget: 30,000	2012-2015: completed	The web portal is established to continually expand and improve the collective experience with updated training materials, guidance and case studies that can be valuable for efficient and effective implementation of the country-level projects, and to particular capacity building activities in the area of chemical accident prevention and preparedness. See above for information on case study publication.	UNEP, IEC, JEU	Identifying training materials, expertise and other relevant materials to be collected and/or web-posted, "network" of training providers maintained. EC, JEU, SC NAMR, OECD WGCA, EC, EU NAMR, GERP, EPRC, Aarhus	UNEP DTIE: elisa.tonda@unep.org; sandra.zwirner@unep.org
32	Prevention/ Preparedness/ Response	Capacity development	Africa (Ghana, Kenya)	Project: A joint UNEP - GTZ project on Promoting Chemical Safety Management in the African Region, with a focus on transport and port actors. Objective: Improve chemical safety management practices along the supply chain - Responsible Production and SAFEL. Budget: USD 300,000	2010 - 2015: under completion / new project planned	1. Project launching workshop in Ghana and Kenya; 2. Mapping of main risks and stakeholders; 3. Capacity building workshop and demonstration exercise in port areas; 4. Development of case study report (upon feasibility); 5. Regional Awareness-raising workshop. The project, focusing on port areas and transportation routes for dangerous goods, is creeping up and. Discussions ongoing on development of a new project, with a Training of trainer approach, as a continuation to this project.	UNEP, GTZ, technical experts	Providing expertise and best practice in relation to transport of hazardous materials, participation in workshops and field missions, in filtering networks in countries in Africa, participation in brainstorming and follow-up activities post 2014 in Africa, replication of activities in other parts of Africa, Asia and Latin America. EC, EU Member States, OECD, CIEC, others	UNEP DTIE: elisa.tonda@unep.org; sandra.zwirner@unep.org
33	Prevention/ Preparedness/ Response	Training materials and tools	Global	Project: Awareness and Preparedness for Emergencies at Local Level (APELL). Objective: a) to Online APELL Network; b) updating the APELL Handbook, c) Regional APELL Trainings of Trainers. Budget: (a) 20,000 USD, (c) 60,000 USD	(a) 2012-2013 (completed), (b) 2012-2013 (completed), (c) 2012-2015 (completed)	(a) The Online APELL Network provides a global platform for APELL practitioners to share information, ideas and experiences. It aims to: facilitate partnership building between governments, the private sector and the community; a place to promote sharing lessons learned from APELL implementation worldwide among the users. Available online at www.apell.ennetrin.org. (b) The 2nd ed. of the APELL Handbook was launched in August 2015. (c) Regional APELL Trainings of Trainers were undertaken in Asia Pacific (August 2015), Latin America (Nov 2015) and Central Asia (Dec 2015). The Trainings of Trainers are designed as capacity building workshops which are: a) integrated and build training capacities of potential new APELL experts. A network is being set up. demonstration projects will be undertaken in 14-17 pending resources availability.	UNEP, APELL experts and partners	• Supporting collection of information and updating of a platform with relevant areas and information; 2) promotion of the platform, and APELL Handbook on websites and in relevant meetings. 3) Promotion of the Peer review and technical support	UNEP DTIE: elisa.tonda@unep.org; sandra.zwirner@unep.org
34	Prevention/ Preparedness/ Response	Methodology	Global	Responsible Production	ongoing	• Development of business case of Responsible Production, with case studies from developed and developing countries. 2. Responsible Production applications, relating to Aarhus under SAICM project led by UNEP Chemicals Branch (originalsize (implementation 52 2016), Energy training on safer Production to be organised under UNEP / OECD / UNIDO SAP Energy project(2 2016). 3. ongoing exchange with Business on Responsible Production, methodology update in their portfolio of business case studies	UNEP	Sharing of companies case studies on Responsible Production with demonstrated impacts, coordination of training in Armenia with EU-JEU	UNEP DTIE: elisa.tonda@unep.org; sandra.zwirner@unep.org
Organisation for Economic Cooperation and Development										
35	Prevention/ Preparedness/ Response	Guidelines	35 countries	Natural Hazard Triggered Technological Accidents (NATECH).	2015-2016	A brochure to raise awareness on Natech risk is close to completion. A Guidance on Natech Risk Management will be developed through to 2016.	OECD	A number of partner agencies are participating in the project steering group: UNEP, UNECE, UNISDR, Joint Unit and the EU JRC. Other agencies are much welcome to join the project group	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
36			35 countries	Review of the OECD Legal instruments on Chemical Accidents	2015-2016	A consolidated draft Decision-Recommendation of the Council concerning Chemical Accident Prevention, Preparedness and Response was presented to the last WPCA for discussion. The draft Recommendation aims at revoking, consolidating and replacing the three following legal texts: • Recommendation concerning Provision of Information to the Public and Public Participation in the Decision Making Processes related to the Prevention, Preparedness and Response to, Accidents Involving Hazardous Substances, 1988; • Decision on the Exchange of Information concerning Accidents Capable of Causing Transboundary Damage, 1988; • Recommendation concerning Chemical Accident Prevention, Preparedness and Response, 1988; The Recommendation concerning the Application of the Polluter-Pays Principle to Accidental Pollution (1989) (OECD/LEGAL/0292) stays as a standalone legal instrument and will be reviewed at a later stage.	OECD	Invited to provide input during the revision of the Principles	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
37	Prevention/ Preparedness/ Response	Guidance	35 countries	Revision of the Guiding Principles for chemical accidents prevention, preparedness and response	2015-2016	The revision of the second edition of the Guiding Principles from 2003 is ongoing. The third Editions is planned for publication toward the end of 2020.	OECD	Invited to provide input during the revision of the Principles	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
38	Prevention/ Preparedness/ Response	Guidance	35 countries	Measuring the Benefits of Regulations for chemical accidents prevention, preparedness and response	2015-2016	Development of a guidance for senior leaders on the benefits of regulations for chemical accidents prevention, preparedness and response. The guidance should provide common language for communication with decision makers on both the impacts that can be quantified and those that would rather be analyzed in a qualitative way.	OECD	Invited to provide input during the development of the guidance document	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
39	Prevention/ Preparedness/ Response	Information Exchange	35 countries	Inspections Approaches	2015-2016	This project aims to periodically collect examples of good practices for the management of inspections at hazardous installations. A case studies have been collected this year that are available at: https://community.oecd.org/docs/DOC-179021 A report on "Good Practices for the Management of Inspections at Hazardous Installations: Project Report" was published in February 2015 in the series Chemical Accidents Series, No. 26, OECD Publications.	OECD	Invited to support the provision of case studies.	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
40	Prevention/ Preparedness/ Response	Coordination and cooperation	OECD countries, open to non-member countries (and other IGOs, NGOs)	Meeting of the Working Party on Chemical Accidents	27-27 October 2015, OECD Headquarters, Paris France	Annual Meeting of the Working Party on Chemical Accidents.	OECD	Participate in the next Working Party on Chemical Accidents meeting	OECD Chemical Accidents Programme: Bertrand Dagallier bertrand.dagallier@oecd.org; Mrs. Marie-Ange Boucher Marie-ange.boucher@oecd.org , Environment, Health and Safety Division, Paris, France
World Health Organization										
41	Prevention/Preparedness/Response	capacity building	Ukraine	pilot testing of CBRN capacity assessment tool	completed	to support pilot testing of the WHO tool on capacity assessment	WHO HQ, WHO Europe	cooperation with representative of other organizations involved in implementation of the capacity assessment in Ukraine	WHO HQ Dr. Maurizio Barbeschi, Dr Soler Edwards, E-mail: barbeschim@who.int
42	Prevention/ Preparedness/ Response	Guidance	WHO	Brief document on public health consequences of NaTechevents	developed 2014	Provides information on the ways in which floods, earthquakes and hurricanes can cause chemical release and the likely health impacts, also the role of the health sector in preparedness and response.	WHO not Regional offices	Promotion for involvement of the health sector	WHO HQ Joanna Tempowski, Chemical Safety Team, tempowskij@who.int
CBRN										
43	Prevention	Guidance	27 countries	Indicative Guidelines for Chemical Safety and Security in Small and Medium-sized Enterprises facilitate the Peaceful Uses of Chemistry	Launched in April 2015	The indicative guidelines provide a global overview of chemical safety and security management for small and medium businesses, relevant for Member States from all the OPCW regions. The document does not aim to provide a comprehensive or detailed guide on chemical safety and security management but rather provides a reference for SMEs, emphasizing chemical safety and security measures.	OPCW, panel of independent subject matter specialists from different nationals	Promotion of guidelines. Promotion of the conference at partner organizations	Ms Irena Iarema, irena.iarema@opcw.org Senior Programme Officer, International Cooperation & Assistance Division (ICA) OPCW-TS Johan de Witthuisen 32 2517 JR The Hague The Netherlands
44	Preparedness	capacity building	Regions: EE, CIS/LAC, Africa, Asia	Chemical Safety and Security Programme Regional Workshops	Starting from 2015 and continues in current cycle is until 2020	1) series of regional workshops provide platforms for OPCW Member States to share experiences, lessons learned, and best practices and best practices related to chemical safety and security, and integrated chemicals management. Objectives: 1)Share needs, experiences, lessons learned, and best practices in chemical safety and security management that have been adopted in the respective States Parties. 2)Generate partnerships among key stakeholders to further strengthen activities related to chemical safety and security management across States Parties. 3)Identify priorities for the future to tailor to different stakeholders capacity building programmes. 4)Strengthen international cooperation in chemical safety and security management as well as chemicals chemicals management	OPCW	Participation in some of the tailored workshops	Ms Irena Iarema, irena.iarema@opcw.org Senior Programme Officer, International Cooperation & Assistance Division (ICA) OPCW-TS Johan de Witthuisen 32 2517 JR The Hague The Netherlands
45	Prevention/ Preparedness/ Response	Tools & Guidelines	All countries	Online Self-Assessment Tool (OSAT)	Developed in 2021. Implementation starting from 2022 and 2023	The On-line Self-Assessment Tool (OSAT) is the principle instrument used in the "Self-Evaluation", wherein stakeholders from the relevant national sectors use OSAT to assign scores on perceived risk levels and national capacity, and provide any relevant additional comments on the topic. The Questionnaire was designed in co-operation between international and national level experts with a strong "ownership feeling" at the recipient end. The Questionnaire will guide the interested nation to complete the self-evaluation figures and to help them understand that risk + capacity = capacity development assessment.	OPCW	Promotion of the OSAT tool at the meetings and conferences of partner organisations	Mr Anton Martyniuk, Anton.Martyniuk@opcw.org Senior Programme Officer, Assistance and Protection Branch, International Cooperation and Assistance Division (ICA) OPCW-TS Johan de Witthuisen 32 2517 JR The Hague The Netherlands
46	Preparedness/ Response	capacity building	27 countries	Online Basic Training course on Wireless Information System for Emergency Responders (WISER) and the use of Emergency Response Guidebook (ERG) for First Responders		The main focus of this training is to build the capacity of first responders in the Member States to deal with chemical accidents involving hazardous chemicals during the initial response phase, as well as to acquire basic knowledge and skills on the use of the Wireless Information System for Emergency Responders (WISER) and the Emergency Response Guidebook (ERG). The Wireless Information System for Emergency Responders (WISER) could provide a wide range of information on hazardous substances, including hazard identification, protective distance calculation, and containment. The course delivers lectures, training scenarios, videotutorials, quizzes and assignments that you will perform to learn and understand the software. Subject matters in conference design presentations, practical	OPCW	Promotion of the course at the meetings and conferences of partner organisations	Mr Anton Martyniuk, Anton.Martyniuk@opcw.org Senior Programme Officer, Assistance and Protection Branch, International Cooperation and Assistance Division (ICA) OPCW-TS Johan de Witthuisen 32 2517 JR The Hague The Netherlands