

TARGET	RESPONSIBLE AGENCY	ACTIVITY	OUTPUT	OUTCOME/IMPACT
<p>Target D.1: [% of growth in the amount of] Companies adopt [and implement] corporate policies and practices that promote [innovation,] [resource efficiency][sustainability goals] [and] that incorporate the development, production and use of sustainable and safer alternatives [as well as product transparency mechanisms],[including new technologies [and non-chemical alternatives]].</p> <p>New Target D.1: Companies (globally, regionally, sub-regionally, nationally) adopt and implement policies and practices to</p>	<ol style="list-style-type: none"> 1. Industry Associations. 2. Chemical Industries or multinational companies or companies that do not belong to any association. 	<p>Policies and practices are adopted, implemented, and monitored.</p> <p>International safety, human and environmental health quality standards adopted, implemented and monitored.</p>	<ol style="list-style-type: none"> 1. Highly toxic, unsustainable and non-safe alternatives are neither produced, nor are they used. 2. Sustainable and natural products or non-chemicals alternatives are produced and used as input in the production processes. 	<p>D.1.1: % of companies that have adopted resource efficiency and sustainability in their policies.</p> <p>D.1.2: % Reduced production and use of toxic, unsustainable, and unsafe chemicals, and installation of non-cleaner technologies.</p> <p>D.1.3: [% of companies implement sustainable chemistry principles natural products or non-chemicals as a source for their products.</p> <p>D.1.4: % of companies that have developed and implemented an overall environmental or sustainability plan.</p>

Commented [NG1]: All companies should do this; the indicator will then reflect the % OF THOSE WHO HAVE DONE SO.

Commented [NG2]: % is inclusive of the number and it is indicative of the overall situation whereas a number alone tells nothing as the broader or overall number is not known.

<p>produce, use sustainable and safer alternatives and cleaner production technologies.</p>			<p>3. Non-cleaner production technologies are not developed.</p> <p>4. Cleaner production technologies are developed and installed.</p>	<p>D.1.5: % of start-up companies investing on innovative and sustainable chemical solutions, and cleaner production technology.</p> <p>D.1.6: % company turnover investment on research and development on safe alternatives, innovative and sustainable chemical solutions, and cleaner production technology.</p> <p>D.1.7: % associations, companies acknowledge; encourage; and reward through economic incentives the production and use of natural products or non-chemicals as input in production processes.</p> <p>D.1.8: % companies report reduced exposure of workers and nearby communities to highly toxic, unsustainable, and unsafe chemicals.</p> <p>D.1.9: % companies report reduced associated disease burden,</p>
---	--	--	---	---

				improved human health of workers, nearby communities and associated work environment.
<p>Target D.2: Governments implement policies that promote innovation to facilitate the recycling and re-use of products, the adoption of sustainable and safe alternatives, including new technologies and non-chemical alternatives (e.g., the prioritized licensing of reduced-risk alternatives, assessment frameworks, labelling schemes and purchasing policies).</p> <p>New Target D.2: Governments (globally, regionally, sub-regionally, nationally) implement policies that encourage production using natural products or non-chemicals, facilitate the recycling and re-use of products (circular economy), the adoption of sustainable</p>	Governments (globally, regionally, sub-regionally, nationally)	<p>Sustainable chemistry principles encouraged, and promoted as a foundation for ingredient development processes.</p> <p>Policies and practices are adopted, implemented, and enforced.</p>	<ol style="list-style-type: none"> 1. Active ingredient development processes informed by sustainable chemistry principles. 2. Production of toxic, unsustainable and non-safe alternatives are not produced, and used. 3. Sustainable and natural products or non-chemicals alternatives are produced and used as input in the 	<p>D.2.1: % of countries promoting and adopting circular economy and green procurement.</p> <p>D.2.2: % of countries using sustainable chemistry principles.</p> <p>D.2.3: % of countries using natural products or non-chemicals in their production processes.</p> <p>D.2.4: % of governments direct their companies to use natural products or non-chemicals as input in production processes.</p> <p>D.2.5: % of governments ended the production, use, import and export of banned, highly toxic, unsustainable, and unsafe chemicals.</p>

Commented [NG3]: Aimed at eliminating waste and promotes continual use of resources.

<p>and safe alternatives, including cleaner production technologies.</p>			<p>production processes.</p> <p>4. Non-cleaner production technologies are not developed.</p> <p>5. Cleaner production technologies are developed and installed.</p>	<p>D.2.6: % of governments with integrated pesticide management regulations.</p> <p>D.2.7: % of governments with the infrastructure for licensing, certification and labelling of pesticides</p> <p>D.2.8: % of government research funding allocated to safe alternatives</p> <p>D.2.9: % of governments developed and implement regulations on extended producer responsibility (EPR)</p> <p>D.2.10: % governments report reduced exposure of human beings to highly toxic, unsustainable, and unsafe chemicals.</p> <p>D.2.11: % government report reduced related disease burden; improved human health.</p> <p>D.2.12: % governments report improved environmental health.</p>
--	--	--	--	---

				D.2.13: % governments report reduced environment and human health management budget, due to improved outcomes.
<p>Target D.3: Companies, including from the investment sector, incorporate strategies and policies to support the sound management of chemicals and waste in their investment approaches and business models and apply internationally-recognized reporting standards where relevant.</p> <p>New Target D.3: Companies, including from the investment sector, incorporate strategies and policies to implement the sound management of chemicals and waste in their investment approaches and business models and apply internationally-recognized reporting standards.</p>	Companies (multinationals; SMMMs)	<p>Strategies and policies to implement the sound management of chemicals and waste incorporated in company's investment approaches and business models.</p> <p>Internationally-recognized reporting standards adopted and implemented by companies.</p> <p>International safety, human and environmental health quality (SHEQ)</p>	<p>Company's investment approaches and business models with tangible and specific sound management of chemicals and waste fundamentals.</p> <p>Companies report annually on the implementation of their tangible and specific sound management of chemicals and waste initiatives.</p> <p>2% investment of company annual turnover committed to</p>	<p>D.3.1: % of companies/ turnover/ investments that incorporate business models/approaches for sound management of chemicals and waste throughout the life cycle and value chain, including % of companies extended producer responsibility (EPR).</p> <p>D.3.2: % of investment in capacity building that address sound management of chemicals and waste throughout the life cycle, value chain.</p> <p>D.3.3: % of patents issued on n sustainable and safe alternatives produced from natural products or non-chemicals.</p>

Commented [NG4]: Support is vague and it cannot be measured against expectation unless you have a baseline and guide of what could be perceived as the different levels of support.

Commented [NG5]: Life cycle alone without value chain may miss the role players identified in the value chain such as the small medium and micro-enterprises (SMMEs), informal sector, and the end-users where the main problems or challenges are; resulting in fatal incidences at times.

Commented [NG6]: Life cycle alone without value chain may miss the role players identified in the value chain such as the small medium and micro-enterprises (SMMEs), informal sector, and the end-users where the main problems or challenges are; resulting in fatal incidences at times.

		standards adopted, implemented and monitored.	<p>tangible sound management of chemicals and waste initiatives.</p> <p>Reporting by companies in line with internationally recognized standards.</p> <p>Independently audited international SHEQ reports by companies.</p>	<p>D.3.4: % of patents issued on new cleaner production technologies.</p> <p>% of companies certified for EMS/HSE (e.g. ISO).</p> <p>D.3.5: % Improved company's environment's footprint.</p> <p>D.6.6: % Improved company's social responsibility (human health and communities).</p> <p>D.6.7: % Improved company's product stewardship throughout the life cycle, and the value chain.</p> <p>D.6.8: % company's Strategy, annual workplan for the implementation of tangible sound management of chemicals and waste capacity building initiatives developed, monitored and evaluated.</p> <p>D.6.9: % company's reports developed in line with internationally recognized standards.</p>
--	--	---	---	---

				D.6.10: % Companies submit independently audited international SHEQ reports.
<p>Target D.4: Companies apply sustainable production principles and lifecycle management in the design of chemicals, materials and products, taking reduced-risk, design-for-recycling and non-chemical solutions and processes into account.</p> <p>New Target D.4: Companies apply sustainable production principles and lifecycle management in the development of chemicals, materials and products, taking reduced-risk, design-for-recycling, natural products, and non-chemical solutions and processes into account.</p>	<ol style="list-style-type: none"> 1. Industry Associations. 2. Chemical Industries or multinational companies or companies that do not belong to any association. 	<p>Sustainable chemistry principles inform active ingredient development processes.</p> <p>Companies declare chemicals in their products throughout their lifecycle.</p> <p>Circular economy principles inform chemicals and product development, and design.</p> <p>Natural products, and non-chemical</p>	<ol style="list-style-type: none"> 1. Chemicals, and product development informed by sustainable chemistry principles. 2. Declaration of chemicals in products throughout their lifecycle by companies. 3. Increased chemical, and product recyclables. 	<p>D.4.1: % Companies declare the banned hazardous chemicals produced, imported, and exported on a yearly basis.</p> <p>D.4.2: %Companies report on the percent reduction of PRT in the total components of their chemicals, materials and products.</p> <p>D.4.3: %Companies report on the % of recyclability of the total components of their chemicals, materials and products.</p> <p>D.4.4: % Increased job creation, and country GDP contribution from the chemicals and product production sector due to increased recycling rates.</p>

		solutions and processes encouraged, and preferred in chemical production and product design.	<p>4. Pro-circular economy development and design of products.</p> <p>5. Informed consumers about the chemicals in products throughout their lifecycle</p> <p>6. Encouragement and preference of natural products, and non-chemical solutions and processes in chemical production and product design.</p>	<p>D.4.5: Companies report on the % of non-chemical solutions, emissions from energy consumption and reduction in occupational chemical exposures.</p> <p>D.4.6: % Safer product choice by consumers.</p> <p>D.4.7: % decrease in associated hazardous waste produced.</p> <p>D.4.8: % Improved company's environment's footprint.</p> <p>D.4.9: % Improved company's social responsibility (human health and communities).</p>
Target D.5: Industry associations promote change towards sustainability and the safe management of waste and of chemicals and consumer products	1. Industry Associations.	Industry associations, and companies, develop, adapt and adopt, provide	Industry associations, companies have in place and implement international training	<p>D. 5.1: % of member associations or companies that implement sustainable chemistry.</p>

Commented [NG7]: SMMEs especially in developing countries mostly do not afford the fees charged for belonging to an association

<p>throughout their life cycles, including in sharing information and building the capacity of small and medium-sized enterprises to reduce risks.</p> <p>NEW Target D.5: Industry associations encourage change towards sustainability and the safe management of chemicals and waste and consumer products throughout their life cycles, and their value chain, including in sharing information and building the capacity of small, medium, and micro-sized enterprises to reduce risks.</p>	<p>2. Chemical Industries or multinational companies or companies that do not belonging to any association.</p>	<p>international training and development programmes on sustainability and the safe management of chemicals and waste and consumer products throughout their life cycles, and their value chain for sharing of information and building the capacity of workers, SMMEs, and end-users or consumers.</p> <p>Industry associations, companies provide accessible, visible, understandable, and specific stakeholder group targeted relevant information and capacity-building</p>	<p>and development programmes on sustainability and the safe management of chemicals and waste and consumer products throughout their life cycles, and their value chain for sharing of information and building the capacity of workers, SMMEs, and end-users or consumers.</p> <p>Relevant information and capacity-building initiatives and programmes on sustainability and the safe management of chemicals and waste</p>	<p>D.5.2: % annual turnover (investment) in capacity building</p> <p>D.5.3: % of member companies providing capacity building workshops</p> <p>D.5.4: % of SMEs implementing sound management of chemicals and waste policies, strategies</p> <p>D.5.5: % technical publications/ detailed resources issued to members</p> <p>D.5.6: Positive change in stochastic risk (disease burden, excess mortality etc.)</p> <p>D.5.7: Ratio between indicator association member: new member (in these statistical measures)</p> <p>D.5.8: % declaration of hazardous substances in consumer products.</p> <p>D.5.9: % Improved company's environment's footprint.</p>	<p>Commented [NG8]: Accommodates currency differences; to ensure no company appears to be investing more than the other due to stronger currency. % is the same irrespective of currency differences.</p>	<p>Commented [NG9]: SMMEs especially in developing countries mostly do not afford the fees charged for belonging to an association.</p>
--	---	---	--	--	--	--

		<p>initiatives and programmes on sustainability and the safe management of chemicals and waste and consumer products throughout their life cycles, and their value chain for workers, and SMMEs, and end-users or consumers.</p>	<p>and consumer products throughout their life cycles, and their value chain is accessible, visible, understandable, and specific stakeholder group targeted for workers, and SMMEs, and end-users or consumers.</p>	<p>D.5.10: % Improved company's social responsibility (human health and communities).</p> <p>D.5.11: Informed, trained and capacitated workers, SMMEs, and the end-users or consumers on sustainability and the safe management of chemicals and waste and consumer products throughout their life cycles, and their value chain.</p> <p>D.5.12: % Informed, and environmentally friendly chemicals and product choices by workers, SMMEs, and end-users or consumers.</p> <p>D.5.13: % decrease in incidences related or associated with lack of information and knowledge or complacency on the sustainability and the safe management of chemicals and waste and consumer</p>
--	--	--	--	--

				<p>products throughout their life cycles, and their value chain.</p> <p>D.5.14: % decrease disease burden due to un-sustainability and the unsafe management of chemicals and waste and consumer products throughout their life cycles, and their value chain.</p>
--	--	--	--	--

STRATEGIC OBJECTIVE D:

Benefits to human health and the environment are maximized and risks are prevented or, where not feasible, minimized through safer alternatives, innovative and sustainable solutions and forward thinking. **Considerations: Intended to cover the ongoing need for innovative thinking and solutions to address current and future aspects of managing chemicals and waste, such as life-cycle management, the circular economy, green and sustainable chemistry, safer alternatives, better recycling technologies and resource efficiency.**