4th Meeting of the Virtual Group on Targets, Indicators and Milestones (VWG1)

12 January 2021
13:00 – 16:00 CET

Co-facilitators: Silvija Nora Kalnins (Latvia) and Wajira Palipane (Sri-Lanka)

Agenda

**We have reserved 3hrs for this meeting*

Agenda Item	Time	Topic of discussion	Presenter
1	13:00-13:05	• Welcome Remarks • Review of meeting agenda and meeting objectives	Dr. Wajira Palipane, (Sri Lanka)
2	13:05-13:40	Discussion on inputs provided for targets under SO C • Read out of general comments	Dr. Wajira Palipane, (Sri Lanka)
3	13:40-14:40	Discussion on decision diagram proposal by co-facilitators • General comments- oral interventions of registered participants	Ms. Silvija Kalnins (Latvia)
4	14:40-15:40	Discussion on facilitative tables for SO A-B, D-E • Discussion on next steps for targets under SO A-B, D-E • General comments- oral interventions of registered participants	Ms. Silvija Kalnins (Latvia) Dr. Wajira Palipane, (Sri Lanka)
5	15:40-16:00	Next steps • Review submission from VWG1 to IP4 • General comments- oral interventions of registered participants	Ms. Silvija Kalnins (Latvia)

A total of 12 electronic submissions were received:

Brazil
Canada
EU & MS
Iran
Japan
Norway
Switzerland
United Kingdom
USA

UNEP

A group of NGOs
ICCA/CropLife

Agenda Item 2- Discussion on inputs provided for targets under SO C

Objective C: Issues of concern [that warrant [global][and][joint] action] are identified, prioritized and addressed

Considerations: Intended to cover the need to effectively identify, select and address issues of concern that warrant global action. The intention is to cover topics similar in nature to those covered by the Strategic Approach, emerging policy issues and other issues of concern, as well as topics such as managing specific chemicals, the burden of disease and financing. There may be a need to develop and identify the criteria for issues of concern.

General aggrement on:

- In-depth discussion on target formulations under SOC needs to be conducted after results VWG deliberations on IOCs have completed;
- Favouring less process-oriented formulation, flexible enough to encompass future decisions made on IOCs by the Conference;
- Process-oriented side of IOCs (work plans, legislation) may be better suited to other SOs

Status of IOC group

Target C.1: Programmes of work including timelines are established, adopted and implemented for identified issues of concern. (original)

Target ALT. C1: As an ongoing process, stakeholders nominate, and the international conference adopts issues of concern with specific goals.

Target C.2: Information on the properties and risk management of chemicals across the supply chain and the chemical contents of products is available to all to enable informed decisions.

Target ALT. C2: As an ongoing process, stakeholders implement workplans for adopted issues of concern and report on progress achieving their goals, such that the use of sustainable solutions is maximized and significant negative impacts on human health and the environment are prevented or minimized.

The following “new targets” were proposed under SO C

New targets

- By 2030, pollution from chemicals and waste has been brought to levels that are not detrimental or harmful to ecosystem services and biodiversity

- By 20XX, chemicals identified to warrant global action, have been phased out, or where not feasible, are used in ways that prevent or minimize adverse impacts on human health and the environment to an unavoidable minimum throughout the life cycle

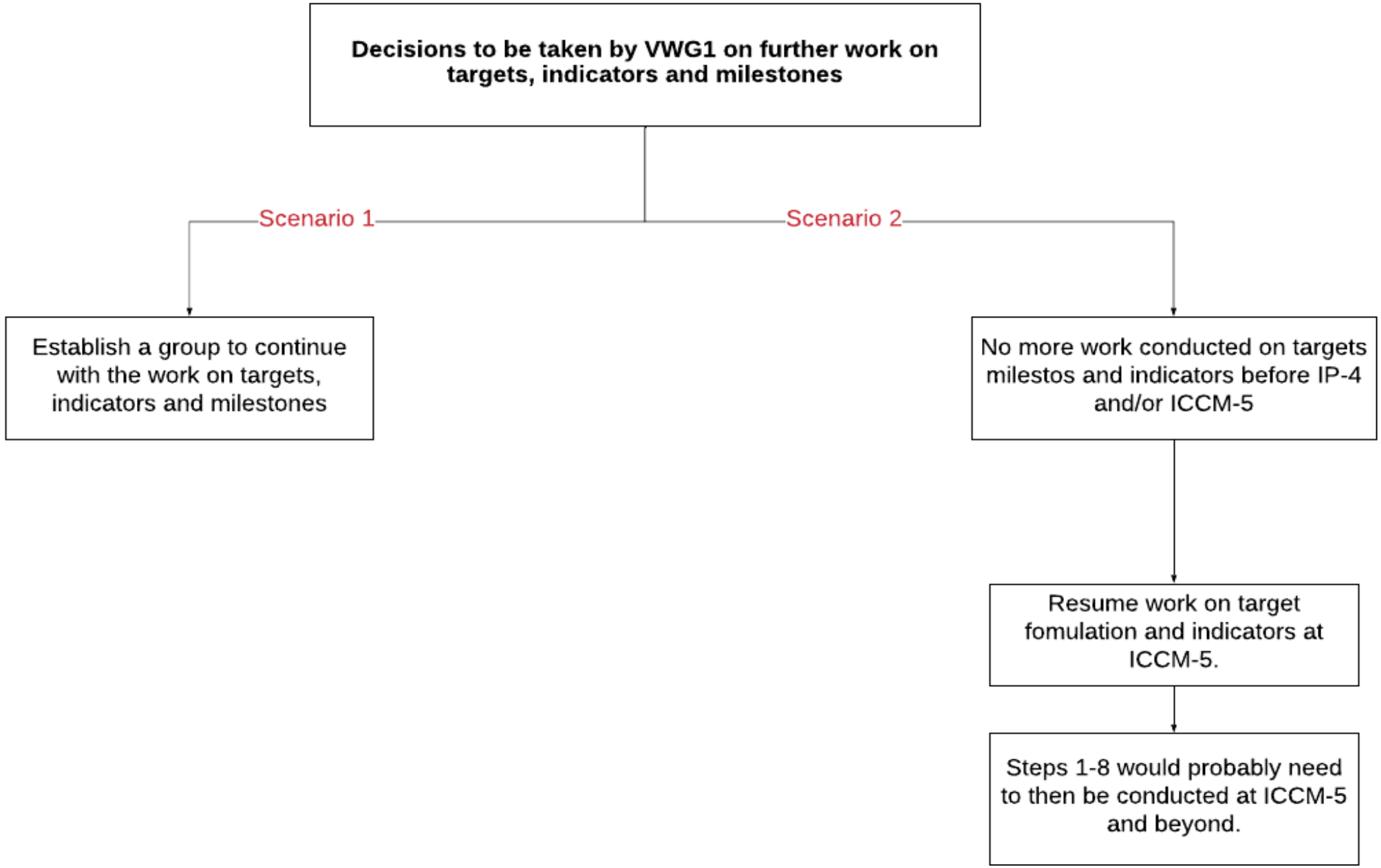
- By 2023, there is agreement on a model to strengthen the engagement of the scientific community to provide a consensus on the evidence for addressing issues of concern and provide a horizon scanning function to identify new issues of concern.

- By 2030, All countries have a legally binding limit for lead in paint (specific details to be agreed)

Agenda Item 2- Discussion on decision diagram proposal by co-facilitators

Decisions to be taken by the group:

- Whether work needs to be conducted on targets, indicators and milestones before IP-4 and/or ICCM-5
- Is there a necessity to establish a group to continue this work
- Type of group to be established
- Scope of work on targets, indicators and milestones


Decisions to be taken by VWG1 on further work on targets, indicators and milestones
Scenario 1
Scenario 2
Establish a group to continue with the work on targets, indicators and milestones
No more work conducted on targets milestos and indicators before IP-4 and/or ICCM-5
Resume work on target fomulation and indicators at ICCM-5.
Steps 1-8 would probably need to then be conducted at ICCM-5 and beyond.

Scenario 1

Establish a group to continue with the work on targets, indicators and milestones

Option 1

Following the definition of work provided by the VWG, a regionally-balanced group of experts nominated by the ICCM-5 Bureau will add to existing information with a proposed list of indicators relevant for the targets identified by the VWG.

The following guidance is provided to the group for the fulfilment of its mandate:

- Indicators have to be meaningful,i.e.providing a realistic picture of the effectiveness of the monitored measures with regard to achievement over time of the Objectives and Targets;
- Indicators have to be limited in number to make the review manageable and ensure compact and easy to communicate reporting outcomes;
- The monitoring effort should be as simple and affordable as possible without challenging the significance of the review process;
- Hence, it should be referenced to indicators that are monitored already, as far as possible, taking into account existing reporting schemes and data custodians outside the health- and environment sector as well; and
- These conditions have to be fulfilled at global level to ensure a comparable and meaningful picture for all regions.

Option 2

An expert group(i.e.,made up of the SAICM stakeholders, National Statistical Offices (or statistical offices in relevant Ministries) and international data providers,nominated by the ICCM-5 Bureau, identifies relevant indicators, related methodology, data coverage and availability, responsible entities for reporting and custodians.

Scenario 1- Option 1

Following the definition of work provided by the VWG, a regionally-balanced group of experts nominated by the ICCM-5 Bureau will add to existing information with a proposed list of indicators relevant for the targets identified by the VWG.
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•Hence, it should be referenced to indicators that are monitored already, as far as possible, taking into account existing reporting schemes and data custodians outside the health- and environment sector as well; and
•These conditions have to be fulfilled at global level to ensure a comparable and meaningful picture for all regions.

Option 1: Decision on elements to include in the mandate (steps 1-8)

1. Advance the work on indicators and, wherever possible, [draft milestones]

Step 1 Alt. 1 → Milestones could be identified at a later stage, after the targets and indicators have been decided, as they represent a partial fulfilment of a target as measured by its indicators.

2. Based on the results of the VWG on Issues of concern, propose targets for Issues of Concern and emerging policy issues and respective indicators

Step 2 Alt. 1 → As VWG on IoC are still considering approaches related to IoCs, further consideration of targets under SOC are to be considered at a later stage.

3. Consider links to existing frameworks, and instruments, indicators, data collection methods (Sustainable Development Goals, Aichi Target 8 (Annex 1), Chemical and waste conventions and agreements, Code of Conduct on Pesticide Management, ILO Conventions and the IHR (2005), etc).

4. Identify areas where existing indicators are insufficient/unsuitable for the post2020 framework and where the establishment of new indicators might potentially be needed.

5. Investigate the measurability of the current targets, by looking at the corresponding indicators. The investigation should consider the existing list of indicators together with alternative suggestions.

6. Include in the considerations, an assessment on the degree to which the indicators can be measured and if they actually meet to the needs of the targets.

7. Revisit the targets and, if necessary, provide suggestions for adjustments in target wording needed to provide clarity in the indicator framework.

8. Prior to IP-4 and/or ICCM-5, the work of the technical group is discussed within VWG1 for review and advancement to IP-4 and/or ICCM-5.

Scenario 1- Option 2

An expert group(i.e.,made up of the SAICM stakeholders, National Statistical Offices (or statistical offices in relevant Ministries) and international data providers,nominated by the ICCM-5 Bureau, identifies relevant indicators, related methodology, data coverage and availability, responsible entities for reporting and custodians.

Decision on elements to include in the groups mandate

The mandate of the group would include:
• Development of a draft indicator framework, (in particular with relevant indicators that already have an agreed methodology).
• Review and/or draft a process for developing an international standard methodology for those indicators that do not have a methodology.
• Identification of potential institutions responsible for collection / validation of data, and reporting,and development of a methodolgy in case it doesn't exist.
• Draft hosting options for a central open access database where all indicator data and the metadata will be available.
• Any combination of steps 1-8 could also be added.

SAICM/IP4/3 *Proposed targets prepared by the Technical Working Group on targets, indicators and milestones for SAICM and the sound management of chemicals and waste beyond 2020*

- It should also be noted that the group did not agree on the indicators or factsheet format, and that the considerations listed at the bottom of the factsheets were a collection of views exchanged. The format of the factsheets and identification of possible indicators is intended to inform participants at IP4. Some issues were discussed by the Technical Working Group, but it was felt that broader deliberations were required in the intersessional process leading up to fifth session of the International Conference on Chemicals Management. These issues included:
- The term ‘waste’ and how it would be reflected;
- Reference to ‘countries’ or ‘governments’’;
- Elaboration of timeframe for targets such as “by 20xx”;
- Definitions and glossary- some terms, though broadly accepted and used, may need defining or referenced in a glossary, e.g. “circular economy”.

Discussion on decision diagram proposal by co-facilitators

Decisions to be taken by the group:

- Whether work needs to be conducted on targets, indicators and milestones before IP-4 and/or ICCM-5
- Is there a necessity to establish a group to continue this work
- Type of group to be established
- Scope of work on targets, indicators and milestones

Agenda Item 3- Discussion on facilitative tables SOA-SOE

VWG1 Mandate

Make proposals that progress work on this topic in lead-up to IP4, building on the outcome of the Technical Working Group as presented in meeting documents SAICM/IP.4/3 and SAICM/IP.4/INF/15. Specific tasks include:

(i) Finalize the targets proposal currently set out in SAICM/IP.4/3, with a view to enable multistakeholder and multi-sectoral commitment and action, where appropriate;

(ii) Develop a set of recommendations for a process to establish indicators and milestones for finalized targets.

Discussion on facilitative tables for SO A

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOA **Proposed Strategic Objective A** [Measures are identified, implemented and enforced in order to prevent or, where not feasible, minimize harm from chemicals throughout their life cycle [and waste];] **Considerations** Intended to address the need for all countries to have basic capacity, legal frameworks and institutional mechanisms to manage chemicals and waste, including illegal trafficking thereof, and for other stakeholders, such as industry, to also assume their responsibilities to prevent harm from chemicals throughout their life cycle.	A1 [Countries][governments] develop and periodically review plans to achieve sound management of chemicals [and waste] throughout their life cycle. *Focus: plans* ALT A1.– Measures needed to be implemented to achieve sound management of chemicals throughout their life cycle are identified within the beyond 2020 instrument and updated every xx years. *Focus – measures*	Development and review Plans Life cycle Implementation of sound management Identification Measures Life cycle Update	Governments All stakeholders	• Roadmap of measures to be implemented at the national level to achieve SMCW are identified. • Roadmap of measures to be implemented by non-governmental stakeholders to achieve SMCW are identified. • [xx] "facilitation toolkits" for implementing measures identified are elaborated. • Number of countries with national profiles

	A2
	
	By [xx], Measures to prevent harm from [xx number] specific chemicals throughout their life cycle [and waste] are identified by [countries] [governments] and non-governmental stakeholders
	
	Focus: measures to prevent harm
		Measures
		Prevention of harm
		Life cycle
		Identification
		Governments and non-governmental stakeholders
			All stakeholders	• Chemicals to be assessed are "identified" and "prioritized", a work plan is agreed upon and updated every [xx] years.
				• Percentage of chemicals "prioritized" that have been assessed to identify measures to prevent or minimize harm throughout their life cycle and measures for its prevention / minimization have been identified
				  • Grade of accomplishment of the work plan
				  • Countries with controls for lead in decorative paint.

[1] further discussion is needed regarding the need for the development of plans at the country level.
[2] These brackets apply to considerations regarding 'waste' across the entire paper.

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators

SOA
 	
Proposed Strategic Objective A
[Measures are identified, implemented and enforced in order to prevent or, where not feasible, minimize harm from chemicals throughout their life cycle [and waste];]
 	
Considerations
Intended to address the need for all countries to have basic capacity, legal frameworks and institutional mechanisms to manage chemicals and waste, including illegal trafficking thereof, and for other stakeholders, such as industry, to also assume their responsibilities to prevent harm from chemicals throughout their life cycle.
	A3
	
	By [xx], measures identified to prevent or, minimize harm from chemicals throughout their life cycle [and waste], are implemented and enforced by [countries] [governments].
	
	Focus: Implementation
		Identified measures
		Prevention, minimization of harm
		Life cycle
		Implementation
		Governments
			Governments	• Percentage of countries with measures implemented (related to target Alt.A1 and A2)
				• Grade of accomplishment of roadmaps for implementation of SMCW for governments (related to target Alt.A1 and A2)
				• # of chemicals and waste related inspections undertaken/inspectors per:
				  • the number of relevant industries
				  • the volume of chemicals imported and produced
				  • population expressed as a % of GDP
				• # personnel in relevant roles related to chemicals and waste within Government per population & per employees
				• Amount of hazardous and non-hazardous waste generated nationally
				• % hazardous and non-hazardous waste treated as a proportion of total non-hazardous waste generated nationally:
				• % recovered, % recycled, %landfilled/incinerated.
				• # countries with a formal inter-ministerial coordinating body
				• Number of countries with a formal multi-stakeholder coordinating body

	A4
	
	By [xx], measures identified to prevent or, minimize harm from chemicals throughout their life cycle [and waste], are implemented by companies.
	
	Focus: Implementation
		Identified measures
		Implementation
		Prevention, minimization of harm
		Life cycle
		Companies
			Companies	• %/# of industry stakeholders with measures implemented (related to target Alt.A1 and Alt.A2)
				• Grade of accomplishment of roadmaps for implementation of SMCW for industry stakeholders (related to target Alt.A1 and Alt.A2)
				• Trends in participation of all relevant stakeholders at national level
				• # chemical associations participating in Responsible Care
				• % of Chemical Production by companies signing the Responsible Care Global Charter
				• #of chemical associations reporting RC KPIs
				  • # of employee fatalities
				  • Lost time injury rates for employees
				  • Process Safety Event Rate
				  • Rate of Transport Incidents
				• # of workplaces that have been audited on health and safety

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOA **Proposed Strategic Objective A** [Measures are identified, implemented and enforced in order to prevent or, where not feasible, minimize harm from chemicals throughout their life cycle [and waste];] **Considerations** Intended to address the need for all countries to have basic capacity, legal frameworks and institutional mechanisms to manage chemicals and waste, including illegal trafficking thereof, and for other stakeholders, such as industry, to also assume their responsibilities to prevent harm from chemicals throughout their life cycle.	A5 By [xx], Countries make and meet their commitments and obligations under the provisions of chemicals and waste-related multilateral environmental agreements to which they are a Party, as well as health, labour and other relevant instruments in which they participate **Focus: MEAs**	Commitments and obligations Chemicals and waste-related MEAs Parties Health, labour instruments Other relevant instruments	Governments	• # or % of countries signed key MEAs / agreements • % of Parties complying with their obligations under the MEAs / agreements • % countries reporting as a proportion of total country signatories • # or % of countries signed key MEAs / agreements

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOA **Proposed Strategic Objective A** [Measures are identified, implemented and enforced in order to prevent or, where not feasible, minimize harm from chemicals throughout their life cycle [and waste];] **Considerations** Intended to address the need for all countries to have basic capacity, legal frameworks and institutional mechanisms to manage chemicals and waste, including illegal trafficking thereof, and for other stakeholders, such as industry, to also assume their responsibilities to prevent harm from chemicals throughout their life cycle.	**New target** By 2030, illegal international trade and traffic of toxic, hazardous, banned and severely restricted chemicals and of waste is effectively prevented. *Focus: illegal trade and traffic*	Illegal trade and traffic Toxic, hazardous Banned Severely restricted Effective prevention	Governments	Data on illegal international trade and traffic (reduced numbers in occurrences)
	New target By 2030, pollution from chemicals and waste has been brought to levels that are not detrimental or harmful to ecosystem services and biodiversity *Focus: Pollution to ecosystem services and biodiversity*	Pollution from chemicals and waste Detrimental or harmful to ecosystem services and BD	Governments Industry	Data on pollution from chemicals and waste (reduced levels)
	New target (By xx) minimum requirements for third-party/private/non-governmental standards, labels and certification schemes are defined and reviewed on an ongoing basis, potential for harmonization is explored and adherence increased and applied by private sector and monitored by governments and other stakeholders. *Focus: third-party (private/non-governmental) standards, labelling and certification schemes.*	Private, non-governmental Standards, labelling and certification schemes	Private sector	

Discussion on facilitative tables for SO A

General issues on considerations identified by VWG1:

- Review coverage of the targets and their inclusion of 11 elements identfied in the OOG
- Targets under A could be merged (A1, A2, A4) to reduce number of targets without compromising the results that need to be achieved (measured) – via use of indicators

Discussion on facilitative tables for SO B

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOB **Proposed Strategic Objective B** Comprehensive and sufficient knowledge, data and information are generated available and accessible to all to enable informed decisions and actions. **Considerations** Intended to address the need for new information and data to be generated to address gaps for greater transparency and accessibility, as well as to address the need for training and education to protect all levels of society.	B1 By 20xx, comprehensive data and information on chemicals on the global market, throughout their life cycle, are generated [are shared], made available and accessible. *Focus – data and information generation and sharing, accessibility, registers, inventories*	Encompass all stakeholders All-inclusive data and information (non-restrictive) Including information on safer alternatives and substitutes Information on properties Chemicals on the global market Health and safety data Encompass the whole life cycle	Governments Industry Academia Trade Associations IOMC Organizations	Number of countries implementing GHS (existing GHS indicator UNECE, UNITAR, ILO/TWG document/4)
	B2 By 20xx all stakeholders have and are using [the most] appropriate and standardized tools, guidelines and best available practices for assessments and sound management [of chemicals and waste], as well as for the prevention of harm, risk reduction, monitoring and enforcement. *Focus: development of instruments, sharing of best practices*	Development of instruments	Governments Industry Trade Associations Academia Civil Society	• Number of tools, guidelines and best practices available (international, regional, national) • Number of tools used • Number of trainings organized to promote use of tools • Number of countries with poisons centres

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOB **Proposed Strategic Objective B** Comprehensive and sufficient knowledge, data and information are generated available and accessible to all to enable informed decisions and actions. **Considerations** Intended to address the need for new information and data to be generated to address gaps for greater transparency and accessibility, as well as to address the need for training and education to protect all levels of society.	**B3** By 20xx, stakeholders have put into place mechanisms to access information and standardized methods to assess, reduce and prevent health impacts at all stages of the chemical life cycle. Information and standardized methods are available and used to understand the impacts of chemicals and waste for improved burden-of-disease and cost-of-inaction estimates, to inform the advancement of chemical safety measure and to measure progress towards reducing those impacts. *Focus: unclear focus for this target*	Health and environmental impacts Burden-of-disease	Industry Trade Associations	Number of globally agreed standards for collecting data on: – Mortality – Morbidity – Environmental pollution – Economic costs Indicator 8.8.3: Mortality rate from diseases attributed to occupational risk factors, by disease, risk factor, sex, and age group. Number of governments implementing standardized data collection methods.
	B4 By 20xx educational, training and public awareness programmes on chemical safety, sustainability and safer alternatives have been developed and implemented *Focus: education and training, public awareness*	Development and implementation Education, training and public awareness Safety, sustainability and safer alternatives, benefits of chemicals Vulnerable populations and workers Gender-responsiveness	Governments Industry Trade Associations Academia Civil Society	Indicators for government, public sector, NGOs to capture responsible entities in this target

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOB **Proposed Strategic Objective B** Comprehensive and sufficient knowledge, data and information are generated available and accessible to all to enable informed decisions and actions. **Considerations** Intended to address the need for new information and data to be generated to address gaps for greater transparency and accessibility, as well as to address the need for training and education to protect all levels of society.	**New target** *By 2030, all governments have legally implemented and enforce the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in all relevant sectors.* *Focus: GHS implementation*	GHS		Target the same as possible indicator under B1
	New targets *By 2030, stakeholders in the value chain ensure that reliable information on chemicals in [materials and] articles is available throughout their life cycle, [including at the waste stage], to enable informed decisions and safe management of chemicals in a clean circular economy.* *Focus: availability of information, informed decisions, safe management, circular economy*			
	New target By 2030, 50 countries have adopted occupational health and safety laws or binding agreements with the assistance of ILO that include right to know about chemical identity and use, and right to refuse work in the face of serious potential harm. *Focus: occupational health and safety*	Governments/countries Laws and binding agreements Chemical identity and use Rights of workers		

Discussion on facilitative tables for SO C

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOC Proposed Strategic Objective C Issues of concern [that warrant [global][and][joint] action] are identified, prioritized and addressed. **Considerations** Intended to cover the need to effectively identify, select and address issues of concern that warrant global action. The intention is to cover topics similar in nature to those covered by the Strategic Approach, emerging policy issues and other issues of concern, as well as topics such as managing specific chemicals, the burden of disease and financing. There may be a need to develop and identify the criteria for issues of concern.	**Target C.1:** Programmes of work including timelines are established, adopted and implemented for identified issues of concern. (original) *Focus: programmes of work for IOCs* **Target ALT. C1 :** As an ongoing process, stakeholders nominate, and the international conference adopts issues of concern with specific goals. *Focus ALT: nomination and adoption of IoCs, inclusion of goals*	Issues of concern Programme of work Process of nomination, adoption of IOCs Timelines	Stakeholders (with respect to nomination) Conference (Instrument) as a decision-making body for adoption	Number of issues of concern nominated. Number of adopted issues of concern with specific goals, as proportion of the total number of issues of concern
	Target C.2: Information on the properties and risk management of chemicals across the supply chain and the chemical contents of products is available to all to enable informed decisions. **Target ALT. C2:** As an ongoing process, stakeholders implement workplans for adopted issues of concern and report on progress achieving their goals, such that the use of sustainable solutions is maximized and significant negative impacts on human health and the environment are prevented or minimized. *Focus: implementation of workplans for IOCs, reporting, sustainable solutions, prevention/minimization of impacts, human health & environment*	Development of instruments	All stakeholders	Number and percentage of adopted issues of concern with progress reported to ICCM. Number of adopted issues of concern with processes in place to manage issues of concern Number of issues of concern for which goals in programmes of work were achieved, as proportion of issues of concern

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOC Proposed Strategic Objective C Issues of concern [that warrant [global][and][joint] action] are identified, prioritized and addressed. Considerations Intended to cover the need to effectively identify, select and address issues of concern that warrant global action. The intention is to cover topics similar in nature to those covered by the Strategic Approach, emerging policy issues and other issues of concern, as well as topics such as managing specific chemicals, the burden of disease and financing. There may be a need to develop and identify the criteria for issues of concern.	New target(s) By 2030, pollution from chemicals and waste has been brought to levels that are not detrimental or harmful to ecosystem services and biodiversity *Focus: pollution, impact on ecosystem services and biodiversity*	Pollution from chemicals and waste Ecosystem services Biodiversity		
	By 20XX, chemicals identified to warrant global action, have been phased out, or where not feasible, are used in ways that prevent or minimize adverse impacts on human health and the environment to an unavoidable minimum throughout the life cycle *Focus: Global action*	Global action Phase out Prevention and minimization of adverse impacts Human health & environment Life cycle		
	By 2023, there is agreement on a model to strengthen the engagement of the scientific community to provide a consensus on the evidence for addressing issues of concern and provide a horizon scanning function to identify new issues of concern. *Focus: Scientific community*	Model Engagement of scientific community Consensus Evidence for addressing IoCs Function for identification of new IoCs		
	By 2030, All countries have a legally binding limit for lead in paint (specific details to be agreed) *Focus: lead in paint*	Lead in paint	Countries	# of countries with legal binding limit for lead in paint

Discussion on facilitative tables for SO C

General issues on considerations identified by VWG1:

- Too many process-oriented targets
- Delay formulation after results of VWG on IoCs
- Level of detail as to using indicator-level for specific IoCs or target-level

Discussion on facilitative tables for SO D

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOD Proposed 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.	D1 Companies adopt and implement policies and practices consistently, regardless of where they operate, to produce and use sustainable and safer alternatives and deploy life cycle management and cleaner production technologies. *Focus: company policies and practices* D1 alt *Sustainable chemistry is established as a core principle in all chemicals relate industries to ensure sound life-cycle management and high resource efficiency* ***Merge D1 and D2 Alt.*** *"By 2030, governments and companies have adopted, implemented and kept up to date policies and practices including chemicals free alternatives and green and sustainable chemistry to achieve safer materials and products, non-toxic material cycles, circular economy and resource efficiency*	Policies and practices Sustainable and safer alternatives Life cycle management Cleaner production technologies	Companies	% of companies that have adopted resource efficiency and sustainability in their policies % Reduced production and use of toxic, unsustainable, and unsafe chemicals, and installation of non-cleaner technologies. % of companies implement sustainable chemistry principles, use natural products or non-chemicals as a source for their products. % of companies that have developed and implemented an overall environmental or sustainability plan. % of start-up companies investing on innovative and sustainable chemical solutions, and cleaner production technology. % company turnover investment on research and development on safe alternatives, innovative and sustainable chemical solutions, and cleaner production technology. % associations, companies acknowledge; encourage; and reward through economic incentives the production and use of natural products or non-chemicals as input in production processes. % companies report reduced exposure of workers and nearby communities to highly toxic, unsustainable, and unsafe chemicals. % companies report reduced associated disease burden, improved human health of workers, nearby communities and associated work environment. % Companies declare the banned hazardous chemicals produced, imported, and exported on a yearly basis. % Companies report on the percent reduction of PRT in the total components of their chemicals, materials and products. % Companies report on the % of recyclability of the total components of their chemicals, materials and products. % Increased job creation, and country GDP contribution from the chemicals and product production sector due to increased recycling rates Companies report on the % of non-chemical solutions, emissions from energy consumption and reduction in occupational chemical exposures. % Safer product choice by consumers. % decrease in associated hazardous waste produced. % Improved company's environment's footprint. % Improved company's social responsibility (human health and communities). Industry conducts capacity building workshops and reports annually, including collection of KPIs to report outcomes and progress.

Further discussion is needed in regards to the use of the term "safe[r]".
It should be noted that the text on Considerations under all of the strategic objectives is not part of the draft text of the beyond 2020 instrument.

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOD Proposed 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.	D2 [Countries][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), and the adoption of sustainable and safe(r) alternatives, including cleaner production technologies. Alt. D.2. [Countries][governments] (globally, regionally, sub-regionally, nationally) implement policies that encourage production using sustainable and safe(r) alternatives including cleaner production technologies and facilitate recycling and re-use of products (circular economy). *Focus: Government policies* Alt2 D2 Sustainable growth and development through the production of goods and services that improve the quality of life is facilitated while minimizing the use of natural resources and harmful materials, as well as the generation of the waste.	Policies Production of natural products or non-chemicals Recycling and re-use of products Circular economy Sustainable and safe(r) alternatives Cleaner production technologies	Countries/Governments	• % of countries promoting and adopting circular economy and green procurement. • % of countries using sustainable chemistry principles. • % of countries using natural products or non-chemicals in their production processes. • % of governments direct their companies to use natural products or non-chemicals as input in production processes. • % of governments ended the production, use, import and export of banned, highly toxic, unsustainable, and unsafe chemicals.

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOD Proposed 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.	D3 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 *Focus: Company strategies and policies, including investment*	Strategies and policies Sound management of chemicals and waste Investment approaches Business models Reporting standards	Companies	% of companies/ turnover/ investments that incorporate business models/approaches for the sound management of chemicals and waste throughout the life cycle, and value chain, including % of companies with extended producer responsibility (EPR). % of investment in capacity building that address sound management of chemicals and waste throughout the life cycle, and value chain. % of patents issued on new sustainable and safe alternatives produced from natural products or non-chemicals. % of patents issued on new cleaner production technologies. % of companies certified for EMS/HSE (e.g. ISO). % Improved company's environment's footprint. % Improved company's social responsibility (human health and communities). % Improved company's product stewardship throughout the life cycle, and the value chain. % Company's strategy, annual workplan for the implementation of tangible sound management of chemicals and waste capacity building initiatives developed, monitored and evaluated. % Company's reports developed in line with internationally recognized standards. % Companies submit independently audited international SHEQ reports.

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOD Proposed 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.	**D4** This target is considered a subset of Target D1 with one amendment made to D1 to explicitly mention life cycle management. The target has been dropped and the indicators have all been moved to D1. **New D.4** *Stakeholders scale up efforts to strengthen the inter-connectivity among sectors toward adoption of sustainable approaches. *Focus: sustainable approaches*	Scaled up efforts Strengthen inter-connectivity Sustainable approaches	All stakeholders	
	D5 Industry associations facilitate 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. *Focus: social change from non-governmental sector (industry)*	Sustainability Safe management of chemicals and waste Consumer products Life cycle Sharing information Building capacity Small, medium and micro-sized enterprises	Industry	70 countries document chemical impacts on biodiversity with the assistance of UNEP and FAO and reduce pollution so that there are no detrimental effects on ecosystem function and biodiversity

*Combine with other targets.

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOD Proposed 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.	New target *[Countries][governments] (globally, regionally, sub-regionally, nationally) implement policies that protect and encourage the role that trade unions, NGOs and other civil society groups play in facilitating change towards the sustainable and 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.*	Policies Social change Trade unions, NGOs and civil society groups Sustainable and safe management Chemicals, waste and products Life cycle and value chain Sharing information Capacity building Small, medium and micro-sized enterprises	Government	
	New target *In research and innovation programs priority is given to sustainable solutions and safer alternatives to harmful substances in products and mixtures, including in consumer products.* *Focus: research and innovation*	Sustainable solutions Safer alternatives Products and mixtures Consumer products		

Discussion on facilitative tables for SO D

General issues on considerations identified by VWG1:

- Innovation and research concept captured in new target
- Overlap with targets under SOA, especially A4
- Green and sustainable chemistry concepts missing
- No clear definition for circular economy, safe(r) alternatives
- Clarification needed for' internationally recognized reporting standards' or re-worded/deleted

- General comments on D are that it needs to be postponed until the discussion on Intergrated Approach to finance is finished

Discussion on facilitative tables for SO E

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOE Proposed Strategic Objective E [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate, predictable and sustainable financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].] Considerations Intended to address the need for high-level commitment across sectoral boundaries, to ensure appropriate attention is given and action taken to accelerate progress, and to contribute to the 2030 Agenda for Sustainable Development.	E1 All countries and stakeholder organizations at the high[est] level recognize the importance of and demonstrate their commitment to the sound management of chemicals [and waste] as a contribution to sustainable development [and the 2030 Agenda]. *Focus: contribution to sustainable development*	Recognition and demonstration of commitment Sustainable development 2030 Agenda	All stakeholders	Industry involvement indicator Proportion of the sectors and stakeholders participating in the ICCM and its subsidiary bodies including the bureau and regional meetings. • # of high levels of stakeholder organizations who delivered speeches and messages that refer to the importance of and commit to action on the sound management of chemicals and waste and its relevance to sustainable development. • # of newspaper advertisement, TV commercial, posters, government's social media (website, facebook, twitter, etc.) that giving reference to the importance of and commitment to actions on the sound management of chemicals and waste and its relevance to sustainable development. • Proportion of the number of organizations that clearly state their recognition of the importance of sound management of chemicals and waste in their written/recorded official statements, documents and/or messages, within the total number of organizations in each stakeholder sector • Summary of the proportions throughout all stakeholder sectors in regional or global level.

Discussion on facilitative tables for SO E

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOE **Proposed Strategic Objective E** [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate, predictable and sustainable financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].] **Considerations** Intended to address the need for high-level commitment across sectoral boundaries, to ensure appropriate attention is given and action taken to accelerate progress, and to contribute to the 2030 Agenda for Sustainable Development.	E2 Policies for sound management of chemicals [and waste] are integrated into local, national, sub-regional [global] development strategies. *Focus: Policies*	Sound management of chemicals and waste Integration into policy Local National Sub-regional Regional Global Development strategies	All stakeholders	# of countries that have developed a national development strategy having a section of management of chemicals and waste with responsible agencies identified. # of regional development strategy having a section of management of chemicals and waste with responsible agencies identified. # of regional actions, regulations, policies that are reflected in national policies. proportion of the number of national development strategies having a section of management of chemicals and waste with responsible agencies identified. proportion of the number of regional development strategies having a section of management of chemicals and waste with responsible agencies identified. (if global level added, similar examples can be added). extent of coordination among national, regional, (and global) levels. It will be measured by the proportion of organization/agencies inter-coordinated against all possible combination among relating national-regional combination.

Discussion on facilitative tables for SO E

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOE **Proposed Strategic Objective E** [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate, predictable and sustainable financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].] **Considerations** Intended to address the need for high-level commitment across sectoral boundaries, to ensure appropriate attention is given and action taken to accelerate progress, and to contribute to the 2030 Agenda for Sustainable Development.	E3 Partnerships and networks amongst sectors and stakeholders are strengthened to achieve the sound management of chemicals [and waste]. *Focus: Partnerships and networks*	Strategies and policies Sound management of chemicals and waste Investment approaches Business models Reporting standards	All stakeholders	- # of establishment of inter- and intra-sectoral partnerships, networks and collaborative mechanisms within the region. - # of establishment of inter- and intra-sectoral partnerships, networks and collaborative mechanisms at international level. - # of mobilized resources, shared information/experiences/lessons learned, and coordinated actions at the regional and international levels through partnerships/networks/collaborative mechanisms. - # of companies with XX% of market share and/or $XX of sales of chemical related product and service that are members of recognized major partnership with ambitious SMCW goals in line with SAICM. - Sales of chemical products and services with disclosed risk information such as hazardous items etc. - % of inter-sectoral donor projects for SMCW combined with other category such as labour, health, agriculture etc. ($). # of national/regional governments that impose systematic registration and restriction of chemicals. # of stakeholders requested tech assistance # of stakeholders received technical assistance # of stakeholders cooperated technical assistance # of stakeholders promoted technical transfer

Discussion on facilitative tables for SO E

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOE **Proposed Strategic Objective E** [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate, predictable and sustainable financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].] **Considerations** Intended to address the need for high-level commitment across sectoral boundaries, to ensure appropriate attention is given and action taken to accelerate progress, and to contribute to the 2030 Agenda for Sustainable Development.	E4 Financial and non-financial resources needed to achieve the sound management of chemicals [and waste] are identified and mobilized in all sectors by and for all stakeholders. *Focus: Resource mobilization*	Financial resources Non-financial resources Identification and mobilization All sectors All stakeholders	All stakeholders	• 3 pillars of the Integrated Approach to financing as indicators • Mobilized national resources to international organizations for implementing SMCW • Mobilized national resources to credible research institution for implementing SMCW • Mobilized national resources for operating expense of a credible research institute(s) identified by each government (impact to be determined by human resources expense and numbers of articles published in quality peer reviewed SMCW related journals) • % of companies handling chemical products and related service that are members of recognized major partnership with ambitious SMCW goals in line with SAICM • # of companies with ambitious SMCW goals in line with SAICM as one of the company's core strategy
	E5 Gaps between developed and developing countries in the implementation of sound management of chemicals [and waste] are identified and narrowed. *Focus: Gap between developed and development countries*	Gaps between countries Developed and developing Implementation Identification of gaps Narrowing of gaps	All stakeholders	• Difference of indicators from E1 to E4, and maybe A to E, between developed and developing countries. • Amount of foreign direct investment by companies that handle chemical product and related service from developed countries to developing countries.

Discussion on facilitative tables for SO E

Strategic objective and considerations	Targets	Components of the target	Responsibles	Possible Indicators
SOE **Proposed Strategic Objective E** [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate, predictable and sustainable financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].] **Considerations** Intended to address the need for high-level commitment across sectoral boundaries, to ensure appropriate attention is given and action taken to accelerate progress, and to contribute to the 2030 Agenda for Sustainable Development.	**New target** All stakeholders identify and strengthen synergies and linkages between chemicals [and waste] and other environmental, health and societal priorities, such as climate change, biodiversity, human rights, universal health coverage and primary care. *Focus: commitment across sectoral boundaries*	Synergies and linkages Environmental priorities Health priorities Societal priorities Climate change Biodiversity Human rights Universal health coverage and primary care	All stakeholders	
	New target No concrete text proposed *Focus: internalization of costs/cost recovery mechanisms*			

Discussion on facilitative tables for SO E

General issues on considerations identified by VWG1:

- To be considered in light of discussions in the VWG on Financial Considerations and the integrated approach to financing
- Combine E1 and E2, including concept of mainstreaming. Current E1 difficult to measure
- Include specific reference to Integrated Approach to financing within Target E4
- Difficulty of definition of gaps referred to in E5and phrasing to denote positive advancements in countries, linkage to SOA

Agenda Item 5- Next steps

- Co- facilitators to prepare an outcome document of VWG1 and posted on VWG1 webpage by 18/19 January 2021.
- Stakeholder written inputs by 25th January 2021.
- Final meeting: 01 Feb. 2021, 13:00 - 16:00 CET