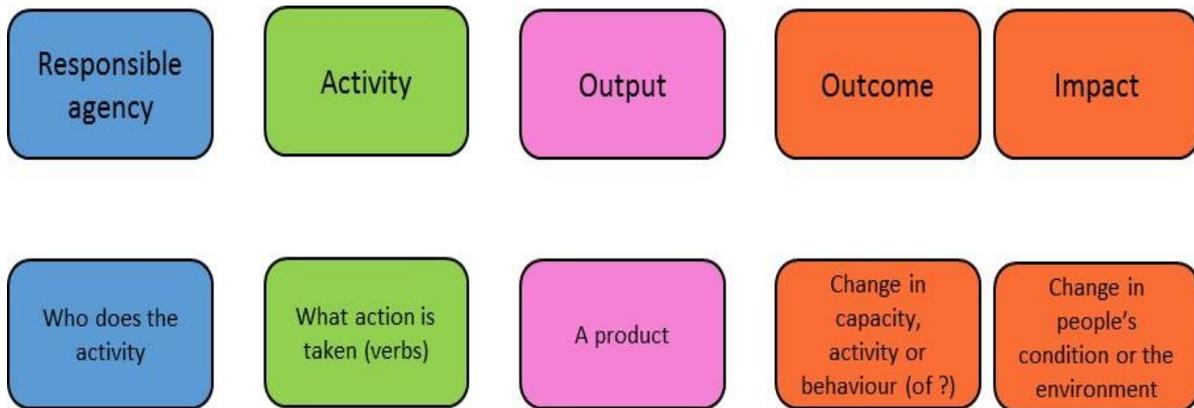


Strategic objective E: [The importance of the sound management of chemicals and waste as an essential element to achieving sustainable development is recognized by all[; adequate financial and non-financial resources are [identified and] mobilized; actions are accelerated; and necessary [transparent and accountable] partnerships are established to foster cooperation among stakeholders].]

Target E1: The highest levels of stakeholder organizations, including government, industry, civil society and international organizations in all relevant sectors, formally recognize the importance of and commit to action on the sound management of chemicals and waste, and recognize its relevance to sustainable development.

Step 1 – Understanding the structure of the draft target

The breakdown of the draft target into its components can help to analyse how the target is structured. Not all components need to be present for a target to be ‘SMART’ but it can highlight where the focus of the draft target lies, and whether you agree.



Responsible agency	Activity	Output	Outcome/impact
Highest level of stakeholder organization - National government - Industry - Civil society - International organization	Recognize and Commit	Importance of sound management of chemicals and waste are recognized and committed by the organizations	Active recognition and commitment of the stakeholder organizations on the importance of sound management of chemicals and waste

Step 2 – identifying the purpose of the target

In identifying the purpose of the target, it is important first to consider the Strategic Objective within which it sits.

The key message of the Target E1 would be asking recognition of the importance of the sound management of chemicals and waste, by all highest levels of stakeholder organizations, through their actual commitment in the context of sustainable development.

Based on the above understanding, we propose to shorten the target such as:

Proposing modified E1: All highest levels of **stakeholder organizations recognize importance of sound management of chemicals and waste**, through their **actual commitment** in the context of sustainable development.

But this still tells two issues, namely “recognition” and “commitment”. It may be better to separate the two but we stay on the original sense of E1 only with minor possible simplification as above.

Step 3: Make it SMART

Specific:

- What data and information?
Information that state active recognition and commitment of the stakeholder organization for the sound management of chemicals and waste
- What is ‘comprehensive’?
Involvement of all highest levels of stakeholder organization means the comprehensive recognition and commitment
- Who makes the data available?
Stakeholder organizations themselves, and/or compiled summary of the statements for the organizations
- What ‘sufficient’ and ‘knowledge’?
When recognition and commitment are clearly stated in official expression by the organizations, it will be sufficient and knowledgeable
- Available and accessible to who?
When the organizations’ statements on this target appears more open to public, it will be better available and accessible information

Measurable:

- What is the ideal indicator?
The proportion that all relevant stakeholder organizations actually recognize and commit the importance of sound management of chemicals and waste
- What can realistically be measured?
Written/recorded statements or documents by stakeholder organization that clearly state actual recognition and commitment of the importance of sound management of chemicals is the basis of number to calculate proportions
- What indicators already exist?
Various stakeholder organizations show some relating indicators in their statement, report, organization structures or others, but there are no general indicator that summarize all relating but various metrics of stakeholder organizations
- What is the baseline?
Current level of the indicator will be the baseline
- Is this draft target measurable?
If data is effectively collected and summarized the target will be measurable

Achievable:

- ~~Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?~~

(Comments from A-P group: we prepared our idea for “Achievable” as below, but without considering text above, maybe as discussed in first e-meeting)

Ultimate goal may be the proportion become 100%, but realistic goal may need to be set to be achievable.

Relevant

- Is the target relevant to the Strategic Objective?
The target is relevant to the Objective E
- Is the target relevant to other Strategic Objectives or targets?
The target is closely relevant to other objectives as this target is to achieve recognition and commitment to support activities relevant to other objectives

Timebound

- What is the date by which this must be achieved?
At least by 2030 because this objective asks all stakeholder organizations to start more substantial actions based on the recognition and commitment.

Step 4- Identify 2-5 indicators per target

The Mapping Exercise of existing global and regional data and indicators that could be relevant for the Beyond 2020 Framework should guide the identification of indicators.

<Process level indicators>

- The number 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
- The number 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

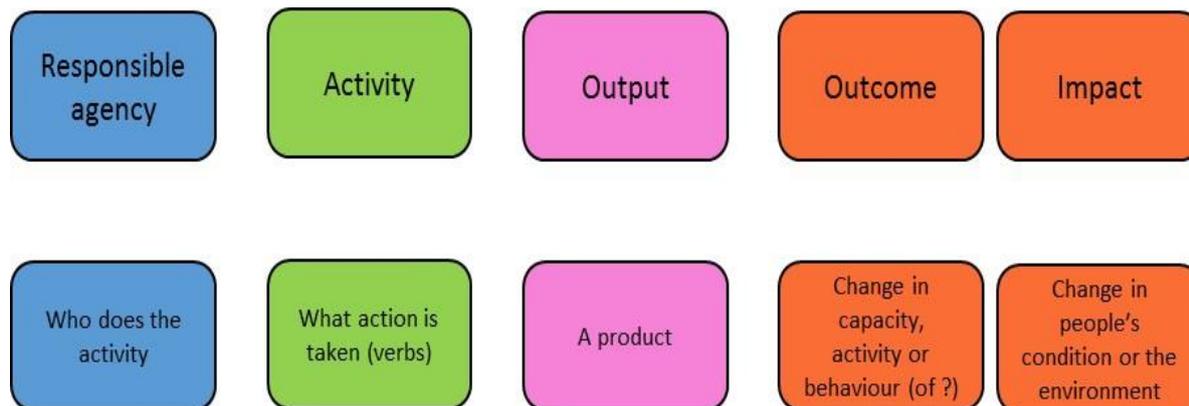
<output/outcome indicators>

- 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
 - Proportion of the number of organizations that clearly show their active commitment to the sound management chemicals and waste in their written/recorded official statements, documents and/or messages, within the total number of organizations of each stakeholder sector.
 - Summary of the proportions throughout all stakeholder sectors in regional or global level.
-

Target E2: Policies and processes for the management of chemicals and waste are integrated into national and regional development strategies.

Step 1 – Understanding the structure of the draft target

The breakdown of the draft target into its components can help to analyse how the target is structured. Not all components need to be present for a target to be ‘SMART’ but it can highlight where the focus of the draft target lies, and whether you agree.



Responsible agency	Activity	Output	Outcome/impact
National government and/or nationally-based organizations	Integration of the policy of sound management of chemicals and waste into national development strategies	Well-integrated national development strategies are established	High-level coordination of national, regional (and global) integration of policy of sound management of chemicals and waste into each development strategies.
Regionally-based/regional-international organizations	Integration of the policy of sound management of chemicals and waste into regional development strategies	Well-integrated regional development strategies are established	See above
Global-based/international	Integration of the policy	Well-integrated global development	See above

organizations (if appropriate)	of sound management of chemicals and waste into regional development strategies	strategies are established	
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Step 2 – identifying the purpose of the target

In identifying the purpose of the target, it is important first to consider the Strategic Objective within which it sits.

The key message of this target would be asking substantial integration of the sound management of chemicals and waste into national/regional development strategies, compared to the recognition and commitment asked by target E1. Based on our understanding, we propose to modify the target E2 as:

Proposing modified target E2: Policies of sound management of chemicals and waste are integrated into **local**, national, regional and **global** development strategies

We propose expansion of the scope of E2 to include “local” and “global” development strategies, in addition to national/regional ones, to be more comprehensive over scales.

Step 3: Make it SMART

Specific:

- What data and information?
National/regional development strategies documents that show integration of policies of sound management of chemicals and waste
- What is ‘comprehensive’?
Covering all national/regional development strategies will prove comprehensive policies integration
- Who makes the data available?
National governments, national-based organizations, regional organizations will make data available through their development of strategies’ documents that referring integration of the policies of sound management of chemicals and waste.
- What ‘sufficient’ and ‘knowledge’?
When all national/regional organizations complete integration of the policies into development strategies, the target will be sufficiently and knowledgeably achieved
- Available and accessible to who?
Although there may be interim strategy that is not accessible from outside of the organization, here we can focus on only development strategies that is available and accessible by wider public to be used in the evaluation of the target.

Measurable:

- What is the ideal indicator?
Proportion of national/regional development strategies that integrate the sound management of chemicals and waste, among all available national/regional development strategies

- What can realistically be measured?
When we define the appropriate range of available national/regional development strategies clearly, the ideal indicator can be realistically measurable, as the proportion against the total number of the range of available strategies. It may be necessary to give definition whether real integration of the policy is successfully done or not, to evaluate the integration status of each development strategies. Also there may be development strategies that is clearly have no reference to the issue of sound management of chemicals and waste. Such strategies may need to be excluded in the evaluation.
- What indicators already exist?
Some process indicators are close relation to the above ideal indicator
- What is the baseline?
Current status of the established indicator, or simply zero-proportion
- Is this draft target measurable?
If the indicator is really established, the target will be measurable

Achievable:

- ~~Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?~~
If the range of relevant national/regional development strategies be clear, the target will be measurable with the ideal goal to be 100% achievement. However, probably more realistic goals need to be set to be practically achievable (like e.g. 50%).

Relevant

- Is the target relevant to the Strategic Objective?
This relevant to the objective E.
- Is the target relevant to other Strategic Objectives or targets?
This target is relevant to other Strategic Objectives, as it will measure the achievement of well-integrated development strategies that will be the basis of more substantial activities under other objectives.

Timebound

- What is the date by which this must be achieved?
By 2030, but it may need national/regional discussion for the realistic feasibility.

Step 4- Identify 2-5 indicators per target

The Mapping Exercise of existing global and regional data and indicators that could be relevant for the Beyond 2020 Framework should guide the identification of indicators.

<Process level indicators>

- The number of countries that have developed a national development strategy having a section of management of chemicals and waste with responsible agencies identified.
- The number 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

<Output indicators>

- The proportion of the number of national development strategies having a section of management of chemicals and waste with responsible agencies identified

- The 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)

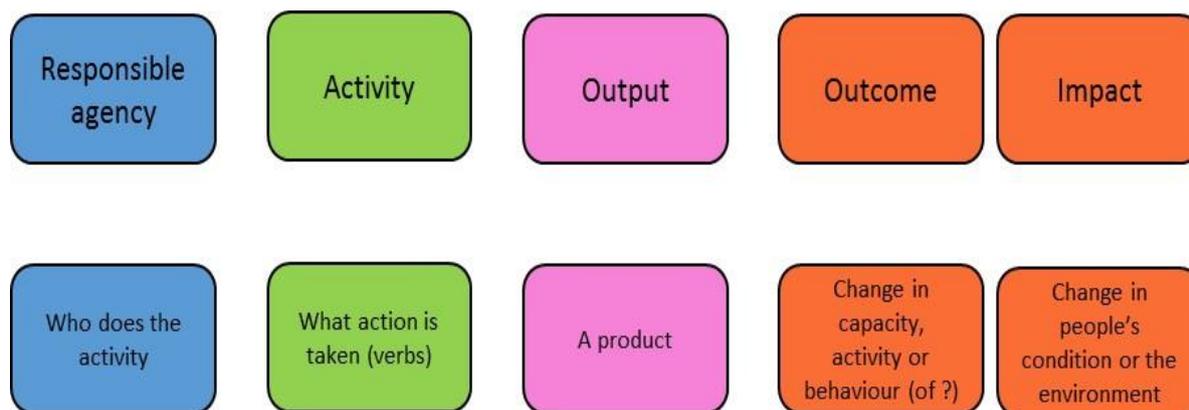
<Outcome indicators>

- The 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.
-

Target E3: Inter- and intra-sectoral partnerships, networks and collaborative mechanisms are established to mobilize resources, to share information, experiences and lessons learned, and to promote coordinated action at the regional and international levels.

Step 1 – Understanding the structure of the draft target

The breakdown of the draft target into its components can help to analyse how the target is structured. Not all components need to be present for a target to be ‘SMART’ but it can highlight where the focus of the draft target lies, and whether you agree.



Responsible agency	Activity	Output	Outcome/impact
Sectors that is responsible for sound management of chemicals and waste at regional level	Inter-sectoral partnerships, ... within the region	Effective partnerships, ... be established at the region	Variety of collaborative networks be established among national and international sectors
Sectors that is responsible for sound management of chemicals and waste at international level -IOMC	Inter-sectoral partnerships, ... at international scales	Effective partnerships, ... be established at international level	As above
All sectors that s responsible for sound management of chemicals and waste and both regional and international levels	Intra-sectoral partnerships, ... within the region, at international scale, and covering both regional and international	Effective partnerships, ... be established among variety of intra-sectoral system	As above

Step 2 – identifying the purpose of the target

In identifying the purpose of the target, it is important first to consider the Strategic Objective within which it sits.

The key message of target E3 is to strengthen the intra- and inter- sectoral collaborative mechanisms in terms of resources, information, experiences and actions in regional and international levels. This is rather clear in the current form of target text, but we feel issue of resource mobilization may need to be re-structured between target E4.

Step 3: Make it SMART

Specific:

- What data and information?
Documents, statements, or messages that states collaborative mechanisms among sectors of national and international levels
- What is ‘comprehensive’?
When we successfully establish effective network among various sectors, the goal would be comprehensive
- What market?
Some collaborative mechanisms may appear on the market practice/operation, but I don’t have clear idea on this
- Who makes the data available?
Network participants will make basic data for indicator calculation be available
- What ‘sufficient’ and ‘knowledge’?
It may be difficult to determine when the target is sufficiently achieved, as there could be nearly infinite possibility of network establishment among various sectors.
- Available and accessible to who?
Some information may be publicly available, but others may only be shared among network participants

Measurable:

- What is the ideal indicator?
It is difficult to think about ideal indicator, because idea state when “best networking” established cannot be imagined
- What can realistically be measured?
Progress of the process may be realistically measured, but the definition of progress may not be clear and/or sharable for all potential sectors
- What indicators already exist?
Some indicators give reference to the networking
- What is the baseline?
It is not clear, but current state or simply zero-baseline
- Is this draft target measurable?
It is not clear whether this draft target is measurable.

Achievable:

- Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?

We don't think the target is achievable against ideal goal, because the ideal goal is not clear. However relative enhancement, such as 50% increase from 2020, could be the achievable in the defined context.

Relevant

- Is the target relevant to the Strategic Objective?
- Is the target relevant to other Strategic Objectives or targets?
This target is relevant to the objective E and other Strategic Objectives. However the target may have substantial linkages to the targets E2 and E4, and it may be better to re-structure the scope especially among targets E3 and E4 to be more clearly understandable.

Timebound

- What is the date by which this must be achieved?
This target needs higher level of establishment so the data will be by 2030 or maybe later.

Step 4- Identify 2-5 indicators per target

The *Mapping Exercise of existing global and regional data and indicators that could be relevant for the Beyond 2020 Framework* should guide the identification of indicators.

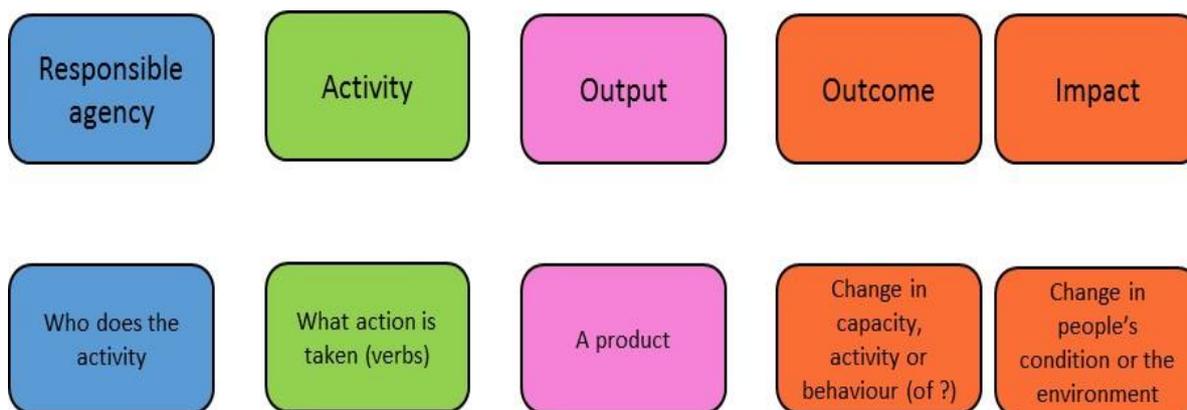
<Process indicators>

- Number of establishment of inter- and intra-sectoral partnerships, networks and collaborative mechanisms within the region
- Number of establishment of inter- and intra-sectoral partnerships, networks and collaborative mechanisms at international level
- Number 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

Target E4: Identify and mobilize the financial and non-financial resources needed to promote the sound management of chemicals and waste in all sectors, by and for all stakeholders.

Step 1 – Understanding the structure of the draft target

The breakdown of the draft target into its components can help to analyse how the target is structured. Not all components need to be present for a target to be 'SMART' but it can highlight where the focus of the draft target lies, and whether you agree.



Responsible agency	Activity	Output	Outcome/impact

Step 2 – identifying the purpose of the target

In identifying the purpose of the target, it is important first to consider the Strategic Objective within which it sits.

There may be some overlap between the target E4 and E3. We propose to re-structure the E3 and E4, as an example of below:

Proposing revised target E3:

Increasing collaborative mechanisms among sectors and stakeholders, by inter- and intra-sectoral partnerships and networks, to share information, experiences and lessons learned, at the regional and international levels.

In this proposal, the key message of the revised E3 will promote progress of collaborative mechanisms among sectors and stakeholders.

Proposing revised target E4:

Promoting identification and mobilization of the financial and non-financial resources effectively to promote the sound management of chemicals and waste in all sectors, by and for all stakeholders.

In this proposal, the key message of the revised target E4 is to measure how effectively resource mobilization works to promoting sound management of chemicals and waste in sectors and stakeholders. This proposing target can be measured by the number, proportion, ratio or amount of resources that effectively contributed to establish real policies and/or strategies in, e.g., as discussed in the target E1 and E2.

We believe it is more productive to work on E3 and E4 after we come to general consensus of targets' direction.

Step 3: Make it SMART

Specific:

- What data and information?
- What is 'comprehensive'?
- What market?
- Who makes the data available?
- What 'sufficient' and 'knowledge'?
- Available and accessible to who?

Measurable:

- What is the ideal indicator?
- What can realistically be measured?
- What indicators already exist?
- What is the baseline?
- Is this draft target measurable?

Achievable:

- Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?

Relevant

- Is the target relevant to the Strategic Objective?
- Is the target relevant to other Strategic Objectives or targets?

Timebound

- What is the date by which this must be achieved?

Step 4- Identify 2-5 indicators per target

The Mapping Exercise of existing global and regional data and indicators that could be relevant for the Beyond 2020 Framework should guide the identification of indicators.

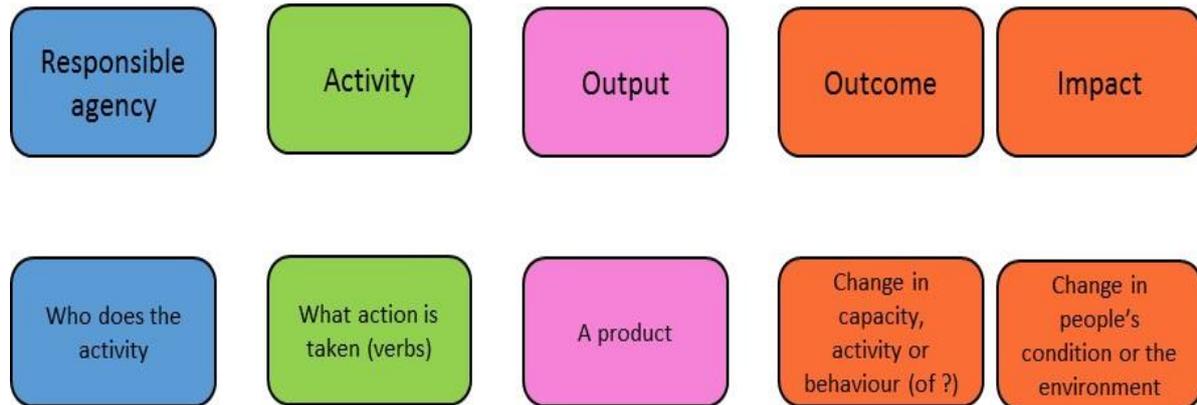
<Possible process indicator for original E4 or proposing modified E4>

- 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 companies core strategy
-

Target E5: Gaps between developed and developing countries are narrowed in terms of the implementation of sound management of chemicals and waste. 6 Stakeholders may wish to decide whether targets should be time bound. Dates have not been inserted in the present draft.

Step 1 – Understanding the structure of the draft target

The breakdown of the draft target into its components can help to analyse how the target is structured. Not all components need to be present for a target to be ‘SMART’ but it can highlight where the focus of the draft target lies, and whether you agree.



Responsible agency	Activity	Output	Outcome/impact

Step 2 – identifying the purpose of the target

In identifying the purpose of the target, it is important first to consider the Strategic Objective within which it sits.

The purpose of this target is clear, which is going narrowing gaps between developed and developing countries in terms of sound management of chemicals and waste. The purpose can be measurable by using appropriate summary of targets/indicators of E1 to E4 and probably other Strategic Objectives to evaluate the gaps between developed and developing countries.

Step 3: Make it SMART

Specific:

- What data and information?
All indicators under Strategic Objectives will be the data and information
- What is ‘comprehensive’?
By summarizing appropriately the all aspects of Strategic Objectives and their indicators will give comprehensive views.

- Who makes the data available?
Indicator developers will make available the data for this target
- What 'sufficient' and 'knowledge'?
When combining all Strategic Objectives, the information will be sufficient and knowledgeable.
- Available and accessible to who?
Indicator information is expected to be available and accessible to public after all indicators are established successfully.

Measurable:

- What is the ideal indicator?
Average of all indicators for developed and developing countries groups, or weighting average of indicators.
- What can realistically be measured?
If all indicators established, realistically ideal indicators can be measured for comparing values for developed and developing countries groups.
- What indicators already exist?
- What is the baseline?
- Is this draft target measurable?
Baseline will be current state and the target will be measurable.

Achievable:

- ~~Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?~~
The target will be achievable if appropriate goal values in terms of indicators are set.

Relevant

- Is the target relevant to the Strategic Objective?
- Is the target relevant to other Strategic Objectives or targets?
The target is relevant to all Strategic Objectives

Timebound

- What is the date by which this must be achieved?

Step 4- Identify 2-5 indicators per target

The Mapping Exercise of existing global and regional data and indicators that could be relevant for the Beyond 2020 Framework should guide the identification of indicators.

- 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
-

Target ??: Summarizing goals through all Strategic Objectives

This is only the idea, but after we established all indicators for all Strategic Objectives, we can calculate summarised indicators. Those summarized indicator may be used not only estimate the gaps between developed and developing countries, but also can be used to measure summarized achievement of Strategic Objectives.

**Proposal by TWG co-chairs
Suggested framework to support the development of targets & indicators¹**

Task for the Technical Working Group: Agree to adopt the suggested framework to support the development of targets & indicators.

Use the following framework to review group assigned targets.

Example: Target B1

Target B1: Comprehensive data and information for chemicals on the market are available and accessible, including information and data on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status throughout their life cycle.

Responsible agency	Activity	Output	Outcome/impact
	Comprehensive data and information are available and accessible	Information and data on properties, health effects, environmental effects, uses, hazard and risk assessments, risk management measures, monitoring results.	

- From this we notice that no responsible agency is highlighted. Responsibility for action has to be clear in order for a target to be met, however this could be laid out in the target, in the indicators or in the overarching document within which the target sits.
- There is also no outcome or impact included, however it is noted that the use of such data and information is implicit in targets B2, B3, B4, & B5. Consideration of the impact of this target could be considered here.
- It is obvious that much of the text is focused on highlighting the different types of priority data that should be available and accessible. This makes the target rather long.

Step 2 – identifying the purpose of the target

In identifying the purpose of the target it is important first to consider the Strategic Objective within which it sits:

*Strategic Objective B: **Comprehensive** and **sufficient knowledge, data and information** are **generated, available and accessible** to all to enable informed decisions and actions*

¹ The suggested framework for target development was developed by the Government of the United Kingdom and presented to the Targets, Indicators and Milestones contact group for consideration during IP3.

Target B1: **Comprehensive data and information** for chemicals on the market are **available and accessible**, including information and data on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status throughout their life cycle.

The common words to both the Strategic Objective and draft target are highlighted. Comprehensive data and information being available and accessible could be considered the primary focus of this target.

Doing this exercise for the other targets in the Objective highlights whether any aspects of the Objective are not covered by a target.

- It is noted that ‘informed decisions and actions’ are implicit in draft targets B2-5.
- ‘Sufficient knowledge’ is not included in any other draft target. It is therefore included here
- ‘Generated’ is not included in any other draft target. It is therefore included here.

Interim target no.1: Comprehensive data and information and sufficient knowledge is generated, available and accessible.

Step 3: Make it SMART

Specific:

- What data and information?
 - High-level - chemicals on the market throughout their life cycle
 - Detail - including information and data on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status
- What is ‘comprehensive’?
 - At a minimum, including information and data on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status
- What market?
 - The global market
- Who makes the data available?
 - Given the definition of ‘comprehensive data’ above, industry and regulators.
- What ‘sufficient’ and ‘knowledge’?
 - Knowledge of chemicals, however this does not add to the more specific terms ‘data’ and ‘information’, so is removed. ‘Sufficient’ is therefore also removed (and noted to be hard to define and measure).
- Available and accessible to who?
 - The stakeholders outlined in Objectives B2-5, for the purposes outlined in those targets

Best Practice is not to include the detail in a target. A target should be short, concise and easily communicable. Alternative placements include in footnotes, supplementary guidance documents or, as in this case, in the indicator.

Interim target no.2: Industry and regulators generate comprehensive data and information on chemicals on the global market, throughout their lifecycle, and make it available and accessible.

More information on the purpose and the users of the data is not needed, since these are implicit in the following targets.

Measurable:

- What is the ideal indicator?
 - The number/percentage² of chemicals on the market, at every stage of their lifecycle, that have data and information on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status available and accessible.
- What can realistically be measured?
 - The number of chemical data and information repositories or navigators available for public use. ('available')
 - The number of chemicals on these repositories or navigators with information and data available on properties, health and environmental effects, uses, hazard- and risk-assessment results and risk-management measures, monitoring results and regulatory status at every stage of their lifecycle. ('available' & 'comprehensive')
 - The number of visitors / downloads at these repositories, split by stakeholder or sector. ('accessible')
- What indicators already exist?
 - Number of countries with national chemical inventories (existing IOMC indicator – PRTR)
 - Number of countries that have ratified the Aarhus Convention on Access to Information
- What is the baseline?
 - The first year of measurement of the indicator(s)
- Is this draft target measurable?
 - Yes, for the most part.

Achievable:

- Can comprehensive data and information on chemicals on the market, throughout their lifecycle, be made available and accessible?
 - Yes!

Relevant

- Is the target relevant to the Strategic Objective?
 - We based the draft target wording on text from the Strategic Objective, so yes.
- Is the target relevant to other Strategic Objectives or targets?
 - This target relies on targets B2 – B5 to explain the users, uses and impact of this data being made available
 - D5: *Industry associations promote change towards sustainability and the safe management of waste and of chemicals and consumer products throughout their life cycles, including in sharing information and building the capacity of small and medium-size enterprises to reduce risks.*

² Percentage can only be used if we know the total number of chemicals on the global market.

- Suggested response: If the overlap serves no purpose then delete it from D5. If it is key, keep it and share an indicator.

Timebound

- What is the date by which this must be achieved?
 - To be determined

Proposed target B1: *By 20xx, industry and regulators generate comprehensive data and information on chemicals on the global market, throughout their lifecycle, and make it available and accessible.*