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Implementation Programme

"Industry Engagement and Action along Value Chains"

Electronics Industry Sector Programme

Mapping of electronics-sector industry initiatives, programs, tools, and standards, beyond regulatory compliance, contributing towards GFC Targets

Convenors:
Minseo Ju, UNEP: minseo.ju@un.org
Ainhoa Carpintero Rogero, UNEP: Ainhoa.carpintero@un.org (interim)

About this document:

The document refers to a Mapping of electronics-sector industry initiatives, programs, tools, and standards, beyond regulatory compliance, contributing towards GFC Targets.

The original mapping refers to an Excel workbook. This version is an adapted version to meet the required format.

Mapping of electronics-sector industry initiatives, programs, tools, and standards beyond regulatory compliance contributing towards GFC Targets

Electronics Industry Sector Programme (EISP)
Under the Global Framework on Chemicals (GFC)

1. INTRODUCTION

1.1 Purpose

This document maps electronics-sector industry initiatives, programs, tools, and standards beyond regulatory compliance (from 'Summary of Industry Initiatives DRAFT Feb 2026') and against the Global Framework on Chemicals (GFC) Targets relevant to industry and the private sector, as identified in the IP2 'Terms of Reference for a GFC Implementation Programme' (6 July 2026, rev. 13 July). Alignment between each initiative and specific GFC Targets was assessed using the categories set out in 'Proposed Criteria for Screening Existing Electronics Initiatives, Standards, and Platforms' (March 5, 2026).

1.2 Screening Criteria Applied

The original March 5, 2026 proposal defined alignment categories for seven targets (B2, B3, B5, D1, D4, D6, D7). This document expands that approach to cover all 17 GFC Targets that the IP2 ToR identifies as relevant to industry/private sector, using each target's own description (from the 'Global Framework on Chemicals – For a Planet Free of Harm from Chemicals and Waste' document) as the screening criterion.

An initiative is mapped to a target where its documented activities directly advance the actions described in that target.

a) Direct relevance to process and/or product chemical management in the electronics industry
b) Documented concrete action taken (e.g., documented adoption by electronics companies, quantified outcomes, substitution/procurement process change).
c) Alignment with the description of at least one GFC Target relevant to industry/private sector:
    - A3 – companies implement measures to prevent/minimize adverse chemical effects throughout the life cycle
    - A4 – prevention of illegal trade and traffic of chemicals and waste
    - A7 – phase-out of highly hazardous pesticides in agriculture and transition to safer alternatives
    - B1 – generation of comprehensive, accessible data on chemical properties

- B2 – availability of reliable information on chemicals in materials/products along the value chain (transparency)
- B3 – generation of data on chemical production/use and emissions/releases (data collection)
- B4 – application of standardized guidelines, best practices and tools for hazard/risk assessment and management
- B5 – education, training and awareness programmes on chemical safety and safer alternatives
- B7 – monitoring/surveillance data on chemical concentrations and exposure in humans, biota and the environment
- D1 – company investment in and achievement of sustainable chemistry/resource-efficiency innovation
- D3 – private sector (incl. finance) incorporation of sound chemical/waste management into business models and reporting standards
- D4 – prioritization of sustainable solutions/safer alternatives in research and innovation programmes
- D6 – sector-level chemical/waste management strategies identifying priority chemicals of concern and footprint-reduction measures
- D7 – occupational health and safety and environmental protection measures across the supply chain
- E2 – strengthened partnerships and networks among sectors/stakeholders
- E3 – mobilization of adequate, predictable, sustainable financial resources
- E6 – synergies/linkages between chemicals and waste management and other policy areas (climate, biodiversity, human rights, health)

1.3 How to use this document

- Section 2: 'GFC Targets Reference' – full list of GFC Targets flagged as relevant to industry/private sector in the IP2 ToR, with descriptions where provided in the source documents.
- Section 3: 'Initiative Details' – one row per initiative with category, description, lead organization, and the two screening-criteria checks (direct relevance; documented concrete action).
- Section 4: 'Initiative-Target Matrix' – a matrix of initiatives (rows) by GFC Target (columns), marked with an X where the initiative supports that target, plus a formula-driven count of targets supported per initiative.
- Section 5: 'Summary by Target' – count of initiatives mapped to each GFC Target, calculated with COUNTIF formulas referencing the matrix.

1.4 Note on Scope

All 17 GFC Targets that the IP2 ToR identifies as relevant to industry/private sector (A3, A4, A7, B1, B2, B3, B4, B5, B7, D1, D3, D4, D6, D7, E2, E3, E6) are now used as screening criteria and populated in the 'Initiative-Target Matrix' and 'Summary by Target' tabs, using each target's own description as the basis for assessing alignment. Based on the activities documented in the source initiatives summary, no electronics-sector initiative in scope was found to align with Targets A4 (illegal trade and traffic in chemicals/waste), A7 (phase-out of highly hazardous pesticides in agriculture), B7 (human/environmental biomonitoring data), or E3 (mobilization of financial resources) – these topics are outside the scope of the process/product chemical management initiatives catalogued for the electronics sector. These four targets therefore show a count of zero on the 'Summary by Target' tab; this reflects an absence of matching initiatives in the current inventory, not a data or methodology gap, and should be revisited if new initiatives addressing these topics are identified.

1.5 Source Documents

- Summary of Electronics Industry/Stakeholder Chemical Management Programs, Tools and Initiatives – DRAFT, Feb. 10, 2026
- Proposed Criteria for Screening Existing Electronics Initiatives, Standards, and Platforms – March 5, 2026
- “Strengthening Engagement and Action of Economic and Industry Sectors for the Sound Management of Chemicals along Value Chains”: Draft Terms of Reference for a GFC Implementation Programme (IP2) – 6 July 2026, rev. 13 July
- Global Framework on Chemicals – For a Planet Free of Harm from Chemicals and Waste (full Target descriptions)

2. GFC TARGETS REFERENCE

Target	Relevant to Industry per IP2 ToR	Description	Used as Screening Criterion in This Mapping?
A3	Yes	By 2030, companies implement measures identified to prevent or, where prevention is not feasible, minimize adverse effects from chemicals throughout their life cycle.	Yes
A4	Yes	By 2030, stakeholders have effectively prevented all illegal trade and traffic of chemicals and waste.	Yes
A7	Yes	By 2035, stakeholders have taken effective measures to phase out highly hazardous pesticides in agriculture where the risks have not been managed and where safer and affordable alternatives are available, and to promote transition to and make available those alternatives.	Yes
B1	Yes	By 2035, comprehensive data and information on the properties of chemicals are generated and made available and accessible.	Yes
B2	Yes	By 2030, stakeholders make available, to the extent possible, reliable information on chemicals in materials and products throughout the value chain.	Yes
B3	Yes	By 2035, stakeholders generate data on the production of chemicals, including the use of chemicals in materials and products, in addition to data on emissions and releases of chemicals and waste to the environment, making these data available and publicly accessible.	Yes
B4	Yes	By 2035, stakeholders apply appropriate guidelines, best available practices and standardized tools for hazard and risk assessment and chemical and waste management.	Yes
B5	Yes	By 2030, educational, training and public awareness programmes on chemical safety, sustainability, safer alternatives and the benefits of reducing chemicals and waste risks have been developed and implemented, taking into consideration a gender-responsive approach.	Yes

B7	Yes	By 2030, stakeholders generate, to the extent possible, and make available comprehensive and accessible monitoring and surveillance data and information on concentrations and potential exposure sources of chemicals in humans (disaggregated by sex, age, region, other demographic factors, and other relevant health determinants as feasible), other biota and environmental media.	Yes
D1	Yes	By 2030, companies consistently invest in and achieve innovations towards advancing sustainable chemistry and resource efficiency throughout the life cycle of chemicals.	Yes
D3	Yes	By 2030, the private sector, including the finance sector, incorporates strategies and policies to implement the sound management of chemicals and waste in its finance approaches and business models and applies internationally recognized or equivalent reporting standards.	Yes
D4	Yes	By 2030, relevant stakeholders give priority to sustainable solutions and safer alternatives to harmful substances in products and mixtures, including in consumer products, in their research and innovation programmes.	Yes
D6	Yes	By 2030, sustainable chemical and waste management strategies have been developed and implemented for major economic and industry sectors that identify priority chemicals of concern and standards and measures, such as the chemical footprint approach, to reduce their impact and, where feasible, their input along the value chain.	Yes
D7	Yes	By 2030, stakeholders implement measures and strive to ensure effective occupational health and safety practices as well as environmental protection measures in all relevant sectors and throughout the supply chain.	Yes
E2	Yes	By 2030, partnerships and networks among sectors and stakeholders are strengthened to achieve the sound management of chemicals and waste.	Yes
E3	Yes	Adequate, predictable and sustainable financial resources from all sources needed to support achieving the sound management of chemicals and waste are identified and mobilized in alignment with the vision, strategic objectives and targets of the Framework in all sectors by and for all stakeholders, including by leveraging private finance and promoting innovative and blended-finance schemes.	Yes
E6	Yes	By 2030, stakeholders identify and strengthen, as appropriate, synergies and linkages between chemicals and waste management and other key environmental, health and labour policies, such as those related to climate change solutions, biodiversity conservation, human rights protection, universal health coverage or primary health care.	Yes

3. INITIATIVE DETAILS

#	Initiative	Category	Lead Organization	Description	Direct Relevance to Process / Product Chemical Mgmt?	Documented Concrete Action?	GFC Targets Supported	Rationale / Notes
1	**CEPN Toward Zero Exposure (TZE) Program**	Programs	CEPN	Global voluntary commitment program to reduce worker exposure to toxic process chemicals by eliminating high-priority chemicals; includes verification and progress reporting.	Y	Y	A3, D1, D6, D7, E2, D4	Companies commit to and implement measures to eliminate priority process chemicals (A3); verification/progress reporting on eliminating priority chemicals (D6); reduces worker exposure (D7); seeks to accelerate supplier development of safer solutions (D1); multistakeholder, market-wide signaling network among signatories and suppliers (E2). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
2	**RBA Chemical Management Leadership Program (CMLP)**	Programs	RBA	Voluntary commitment program for electronics supply chains to harmonize and accelerate adoption of responsible chemical management practices, with tiered participation (Catalyst/Leader) and third-party verification.	Y	Y	A3, D6, D7, E2, D4	Companies implement harmonized responsible-management measures across supply chains (A3, D6) with worker-protective practices (D7); tiered, verified participation strengthens a cross-company partnership network (E2). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).

3	**CEPN Priority Chemicals**	MRSL Initiatives	CEPN	Multistakeholder-identified list of process chemicals recommended for elimination or substitution in electronics manufacturing.	Y	Y	B4, D6, D4	Directly identifies priority chemicals of concern for elimination/substitution (D6); the standardized, multistakeholder-vetted list functions as a best-available-practice tool for hazard/risk prioritization (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
4	**RBA Industry Focus Process Chemicals (IFPC) Policy & List**	MRSL Initiatives	RBA	Sector-wide policy/MRSL restricting process chemicals of concern; facilities must control exposure and prioritize elimination/substitution per hierarchy of controls.	Y	Y	A3, B4, D6, D7, D4	Sector-wide policy that facilities/companies must implement to control and reduce chemical risk (A3); functions as an authoritative MRSL and standardized management tool (B4, D6); mandates exposure controls and hierarchy-of-controls application (D7). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
5	**CEPN Electronics Companies' MRSLs (Compilation)**	MRSL Initiatives	CEPN	Hub compiling links to publicly available company MRSLs, enabling comparison of company requirements.	Y	N	B2, B4, D6, D4	Aggregates public disclosure of company chemical restrictions (B2, transparency); functions as a standardized reference tool for comparing company MRSLs (B4); supports chemicals-of-concern identification (D6), though the hub itself does not document a specific company action. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).

6	**RBA Chemical Platform**	Data Collection	RBA	Chemical data collection, assessment and reporting platform incorporating CEPN PCDC variables and ChemFORWARD hazard assessments to identify chemicals of concern and reduce worker exposure.	Y	Y	B1, B3, B4, D6, D4	Standardized data generation on chemicals used/produced (B3); incorporates ChemFORWARD hazard assessments, contributing to comprehensive chemical-property data (B1); the platform itself is a standardized assessment/reporting tool (B4); supports identification and prioritization of chemicals of concern (D6). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
7	**CEPN Process Chemicals Data Collection (PCDC) Tool**	Data Collection	CEPN	Free, publicly available, standardized reporting tool for collecting and managing process-chemical data, supporting confidential data handling.	Y	Y	B3, B4	Standardized tool for generating and managing process-chemical data (B3); the tool itself is a standardized reporting/data-management tool (B4).
8	**CEPN Chemical Safety Training Program**	Chemical Safety Training	CEPN	Worker/manager training across the electronics supply chain, including training materials, a qualified trainer network, and a public registry recognizing supplier facilities that deliver the training.	Y	Y	B5, D7, E2	Education/training programme on chemical safety (B5) that supports occupational health and safety practice (D7); the qualified-trainer network and public supplier registry build a cross-supply-chain partnership network (E2); public registry documents supplier participation.
9	**CEPN/IPC Guide to Safer Alternatives**	Guides, Tools and Resources	CEPN / IPC	Guide to increase knowledge- and resource-sharing across the supply chain to help substitute hazardous chemicals with safer alternatives.	Y	N	B4, D1, D6, D4	Directly supports a credible substitution pathway for chemicals of concern (D6) and promotes innovation toward safer chemistry (D1); as a standardized guidance resource it also functions as a best-practice tool (B4); guide itself is not a quantified-outcomes program. Per the paired D4/D6 'chemicals of

								concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
10	**RBA Practical Guide to Chemical Management Due Diligence in Supply Chains**	Guides, Tools and Resources	RBA	Standardized, risk-based due diligence template (aligned to the OECD due diligence process) for identifying, managing, mitigating, and reporting chemical risks.	Y	N	A3, B2, B4, D6, D4	Provides a template companies implement to identify/manage/mitigate chemical risk (A3); structures identification/management of chemicals of concern (D6); standardizes reporting of chemical risk information (B2); the template itself is a standardized risk-assessment tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
11	**RBA Process Chemical Management Guide**	Guides, Tools and Resources	RBA	Resource to help facilities implement the IFPC policy in practice, strengthening process-chemical management systems and controls.	Y	N	B4, D6, D7, D4	Operationalizes chemicals-of-concern management under IFPC (D6) with a focus on facility controls (D7); the guide itself is a standardized management tool/best practice resource (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
12	**RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM)**	Guides, Tools and Resources	RBA	Deeper facility assessment by qualified independent assessors (industrial hygiene/occupational safety), covering hazard communication, emergency preparedness, hazardous materials	Y	Y	B4, D6, D7, D4	Third-party facility assessment of chemical safety risk (D6) with strong occupational safety/hygiene focus (D7); the assessment protocol is itself a standardized risk-assessment tool (B4); independent assessment provides documented evidence. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in

				management, and occupational hygiene.				products and mixtures in research and innovation programmes).
13	**CEPN Alternatives Assessment Guide & Worksheet**	Guides, Tools and Resources	CEPN	Practical guide to help companies identify/evaluate safer substitutions for chemicals of concern while avoiding regrettable substitutions.	Y	N	B4, D1, D6, D4	Directly supports testing/availability of safer alternatives (D6) and sustainable chemistry innovation considerations (D1); the worksheet is a standardized hazard/feasibility assessment tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
14	**CEPN Qualitative Exposure Assessment (QEA) Tool**	Guides, Tools and Resources	CEPN	Form-based assessment for facilities without exposure monitoring data, helping EHS staff rank risks and prioritize controls.	Y	N	B4, D7	Directly supports occupational health and safety practice by prioritizing exposure controls (D7); the form-based tool is explicitly a standardized risk-assessment tool for facilities lacking monitoring data (B4).
15	**CEPN Joint Chemical Safety Committee Guidance**	Guides, Tools and Resources	CEPN	Guidance and templates for establishing joint worker-management chemical safety committees.	Y	N	B4, B5, D7	Strengthens worker engagement/communication on chemical safety (B5) as part of occupational safety practice (D7); the guidance/templates are a standardized management tool (B4).
16	**CEPN Worker Survey on Chemical Safety**	Guides, Tools and Resources	CEPN	Survey instrument to gauge worker awareness, training effectiveness, and engagement on chemical safety; used broadly and by TZE signatories.	Y	N	B3, B4, B5	Assesses training effectiveness/awareness (B5); generates data on chemical-safety engagement (B3); the survey instrument itself is a standardized assessment tool (B4).

17	**CEPN Definitions (Glossary/Reference)**	Guides, Tools and Resources	CEPN	Shared definitions to standardize terminology across process chemicals, exposure, and related concepts.	Y	N	B4	Standardizes terminology used across other tools and guidance, functioning as a shared best-practice/standardized-tool resource for consistent hazard and risk assessment communication (B4); does not itself map to any other target.
18	**ChemWorks (Collaboration / Program)**	Other Initiatives	ChemFORWARD (with brands, NGOs, certifiers)	ChemFORWARD-led collaboration to scale availability/adoption of safer cleaners & degreasers, from pre-screening to certification and buyer amplification via a registry.	Y	Y	D1, D6, E2, D4	Certified safer-alternatives registry documents a substitution pathway for chemicals of concern (D6) and safer-chemistry innovation (D1); the collaboration itself is a multi-stakeholder partnership among brands, NGOs and certification programs (E2). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
19	**Clean Production Action Chemical Footprint Project Survey**	Other Initiatives	Clean Production Action	Survey to benchmark corporate chemical-management maturity, used by investors/brands (including in electronics), advancing chemical footprinting.	Y	Y	B3, B4, D3, D6, E2, D4	Chemical footprinting approach explicitly linked to Targets D6 and B3; the standardized survey/benchmark is itself a best-practice assessment tool (B4); used by investors and brands to integrate chemical management into finance/business decisions (D3); brings together investor and brand stakeholders (E2); benchmark results provide documented, quantified outcomes. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
20	**SEMI**	Other Initiatives	SEMI	Microelectronics industry association; ESG working groups and standards (S2, S6, S10, S21, S23, S26)	Y	N	B4, D6, D7, E2, D4	Equipment EHS standards address occupational protection from hazardous chemicals (D7); the standards are standardized risk-assessment/management tools (B4); some standards touch chemicals-

				set baseline EHS expectations for equipment (ventilation, risk assessment, worker protection, decontamination).				of-concern controls (D6); an industry association and its working groups constitute a cross-company partnership network (E2). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
21	**Global Electronics Association (GEA) Evolve Program**	Other Initiatives	GEA (formerly IPC)	Industry association program bringing together standards, expert insights and industry leaders to help companies integrate sustainability, including chemical management.	Y	N	A3, B4, B5, D1, D6, E2, D4	Helps companies implement sustainability/chemical-management measures (A3); broad sustainability/chemical-management integration touches chemicals of concern (D6), innovation (D1) and awareness-building (B5); draws on standards as best-practice tools (B4); convenes industry leaders in a partnership network (E2); program is newly launched with limited documented outcomes to date. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
22	**Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP)**	Global Multi-stakeholder Initiatives	GFC / multi-stakeholder	Multi-stakeholder initiative under the GFC to strengthen chemical safety/sustainable management across the electronics value chain, mobilizing governments, industry, IOs and civil society toward Target D6.	Y	N	B2, D6, E2, D4	Explicitly aimed at Target D6; supports transparency on chemicals of concern (B2); mobilizes collaboration among governments, industry, international organizations and civil society, directly strengthening cross-sector partnerships (E2); roadmaps/knowledge exchange are in development, so documented outcomes are still emerging. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in

								products and mixtures in research and innovation programmes).
23	**UNEP Circularity in the Electronics Sector**	Global Multi-stakeholder Initiatives	UNEP	UNEP-led multi-stakeholder initiative to reduce toxic chemicals, improve resource efficiency, and minimize e-waste; includes consumer surveys and a Mexico pilot project (2025-2026).	Y	Y	D6, E2, E6, D4	Reducing toxic chemicals ties to chemicals of concern (D6); brings together governments, IOs, industry associations and private-sector actors in partnerships (E2); links chemical/waste reduction with circular-economy and resource-efficiency policy goals, illustrating cross-policy synergies (E6); has documented pilot activities (Mexico project, four-country survey), though its primary focus is broader circularity/e-waste rather than process chemical management. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
24	**EPEAT (Global Electronics Council)**	Standards, Ecolabels and Certifications	Global Electronics Council	Major electronics ecolabel; 'Reduction of Chemicals of Concern' criteria drive safer chemicals via substances management, inventory/transparency, and safer-alternatives expectations.	Y	Y	A3, B2, B4, D6, D4	Manufacturers implement measures to meet certification criteria (A3); criteria directly target chemicals of concern (D6) and require inventory/transparency (B2); the certification criteria are a standardized assessment tool (B4); widely adopted ecolabel with public criteria documentation. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).

25	**TCO Certified (IT products)**	Standards, Ecolabels and Certifications	TCO Development	IT hardware sustainability certification requiring certain manufacturing chemicals (e.g., cleaners/solvents) be approved as safer via a defined Accepted Substance List approach.	Y	Y	A3, B2, B4, D6, D4	Certification requires companies to implement substance-approval measures (A3); substance-approval requirement supports safer alternatives/chemicals-of-concern management (D6); Accepted Substance List approach adds transparency (B2) and functions as a standardized tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
26	**IEC 62474 (Material Declaration for the Electrotechnical Industry)**	Standards, Ecolabels and Certifications	IEC	Standardized material declaration framework, including a Declarable Substance List with thresholds, enabling consistent substance reporting.	Y	Y	B2, B4	Directly enables reliable, standardized chemical/substance information disclosure across the value chain (B2); the framework and its Declarable Substance List are themselves a standardized reporting tool (B4).
27	**IPC-1750X Family of Standards (Materials Declaration Data Exchange)**	Standards, Ecolabels and Certifications	Global Electronics Association	Standard reporting format for exchanging material/substance declaration data between supply-chain participants (parts, boards, assemblies, products).	Y	Y	B2, B4	Standardizes substance-declaration data exchange, directly supporting chemical transparency along the value chain (B2); the reporting format is itself a standardized data-management tool (B4).
28	**IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing)**	Standards, Ecolabels and Certifications	Global Electronics Association	Electronics-specific standard defining minimum criteria for 'greener cleaners' used on products/components and manufacturing equipment.	Y	Y	A3, B4, D1, D6, D4	Companies implement the standard's minimum criteria when selecting cleaners (A3); defines criteria for safer process-chemical products, i.e., testing/availability of safer alternatives (D6) and sustainable chemistry (D1); the standard is itself a standardized best-practice tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives

								to harmful substances in products and mixtures in research and innovation programmes).
29	**GreenScreen for Safer Chemicals**	Standards, Ecolabels and Certifications	Clean Production Action	Transparent hazard-assessment method assigning benchmark scores to characterize a chemical's overall hazard; widely used to identify chemicals of high concern and select safer alternatives.	Y	Y	B1, B4, D1, D6, D4	Hazard benchmarking directly supports identification of chemicals of concern and selection of safer alternatives (D6, D1); generates comprehensive chemical hazard-property data for benchmarked substances (B1); the method itself is a standardized hazard-assessment tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
30	**U.S. EPA Safer Choice**	Standards, Ecolabels and Certifications	U.S. EPA	EPA label/program; reviews formulated-product ingredients against Safer Choice criteria for human health and environmental safety.	Y	Y	A3, B4, D1, D6, D4	Government-run ingredient review/certification supports safer-alternatives adoption (D6, D1); companies implement measures to meet Safer Choice criteria to earn the label (A3); the review criteria are a standardized assessment tool (B4); labeled products document concrete substitution outcomes. Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).
31	**ChemFORWARD (Chemical Hazard Assessments + Verification;**	Standards, Ecolabels and Certifications	ChemFORWARD	Chemical hazard assessments across many endpoints with an assessment-quality verification program; SAFER offering verifies/amplifies raw	Y	Y	B1, B2, B4, D1, D6, D4	Hazard assessment and verification supports chemicals-of-concern identification and safer alternatives (D6, D1); assessments across many endpoints generate comprehensive chemical-property data (B1); public verification adds transparency (B2); the assessment/verification methodology is itself

	SAFER Program)			materials meeting rigorous criteria.				a standardized tool (B4). Per the paired D4/D6 'chemicals of concern' criterion, this also supports Target D4 (prioritizing sustainable solutions and safer alternatives to harmful substances in products and mixtures in research and innovation programmes).

4. INITIATIVE-TARGET MATRIX

Initiative	Category	A3	A4	A7	B1	B2	B3	B4	B5	B7	D1	D3	D4	D6	D7	E2	E3	E6	# Targets Supported
CEPN Toward Zero Exposure (TZE) Program	Programs	X									X		X	X	X	X			6
RBA Chemical Management Leadership Program (CMLP)	Programs	X			X			X			X		X	X	X	X			8
CEPN Priority Chemicals	MRSL Initiatives							X					X	X					3
RBA Industry Focus Process Chemicals (IFPC) Policy & List	MRSL Initiatives	X						X					X	X	X				5
CEPN Electronics Companies' MRSLs (Compilation)	MRSL Initiatives					X		X					X	X					4
RBA Chemical Platform	Data Collection	X			X		X	X					X	X	X				7
CEPN Process Chemicals Data Collection (PCDC) Tool	Data Collection						X	X											2
CEPN Chemical Safety Training Program	Chemical Safety Training								X						X	X			3
CEPN/IPC Guide to Safer Alternatives	Guides, Tools and Resources							X			X		X	X					4
RBA Practical Guide to Chemical Management Due Diligence in Supply Chains	Guides, Tools and Resources	X				X		X					X	X					5
RBA Process Chemical Management Guide	Guides, Tools and Resources							X					X	X	X				4

RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM)	Guides, Tools and Resources	X						X					X	X	X				5
CEPN Alternatives Assessment Guide & Worksheet	Guides, Tools and Resources							X			X		X	X					4
CEPN Qualitative Exposure Assessment (QEA) Tool	Guides, Tools and Resources							X							X				2
CEPN Joint Chemical Safety Committee Guidance	Guides, Tools and Resources							X	X						X				3
CEPN Worker Survey on Chemical Safety	Guides, Tools and Resources						X	X	X										3
CEPN Definitions (Glossary/Reference)	Guides, Tools and Resources							X											1
ChemWorks (Collaboration / Program)	Other Initiatives										X		X	X		X			4
Clean Production Action Chemical Footprint Project Survey	Other Initiatives						X	X				X	X	X		X			6
SEMI	Other Initiatives							X					X	X	X	X			5
Global Electronics Association (GEA) Evolve Program	Other Initiatives	X						X	X		X		X	X		X			7
Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP)	Global Multi-stakeholder Initiatives					X							X	X		X			4
UNEP Circularity in the Electronics Sector	Global Multi-stakeholder Initiatives												X	X		X		X	4
EPEAT (Global Electronics Council)	Standards, Ecolabels and Certifications	X				X		X					X	X					5

TCO Certified (IT products)	Standards, Ecolabels and Certifications	X				X		X					X	X					**5**
IEC 62474 (Material Declaration for the Electrotechnical Industry)	Standards, Ecolabels and Certifications					X		X											**2**
IPC-1750X Family of Standards (Materials Declaration Data Exchange)	Standards, Ecolabels and Certifications					X		X											**2**
IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing)	Standards, Ecolabels and Certifications	X						X			X		X	X					**5**
GreenScreen for Safer Chemicals	Standards, Ecolabels and Certifications				X			X			X		X	X					**5**
U.S. EPA Safer Choice	Standards, Ecolabels and Certifications	X						X			X		X	X					**5**
ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program)	Standards, Ecolabels and Certifications				X	X		X			X		X	X					**6**

5. SUMMARY BY TARGET

Target	Description	# Initiatives Supporting This Target	Initiatives (see Matrix tab for full detail)
A3	By 2030, companies implement measures identified to prevent or, where prevention is not feasible, minimize adverse effects from chemicals throughout their life cycle.	**11**	CEPN Toward Zero Exposure (TZE) Program; RBA Chemical Management Leadership Program (CMLP); RBA Industry Focus Process Chemicals (IFPC) Policy & List; RBA Practical Guide to Chemical Management Due Diligence in Supply Chains; Global Electronics Association (GEA) Evolve Program; EPEAT (Global Electronics Council); TCO Certified (IT products); IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing); U.S. EPA Safer Choice
A4	By 2030, stakeholders have effectively prevented all illegal trade and traffic of chemicals and waste.	**0**	—
A7	By 2035, stakeholders have taken effective measures to phase out highly hazardous pesticides in agriculture where the risks have not been managed and where safer and affordable alternatives are available, and to promote transition to and make available those alternatives.	**0**	—
B1	By 2035, comprehensive data and information on the properties of chemicals are generated and made available and accessible.	**4**	RBA Chemical Platform; GreenScreen for Safer Chemicals; ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program)

B2	By 2030, stakeholders make available, to the extent possible, reliable information on chemicals in materials and products throughout the value chain.	**8**	CEPN Electronics Companies' MRSLs (Compilation); RBA Practical Guide to Chemical Management Due Diligence in Supply Chains; Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP); EPEAT (Global Electronics Council); TCO Certified (IT products); IEC 62474 (Material Declaration for the Electrotechnical Industry); IPC-1750X Family of Standards (Materials Declaration Data Exchange); ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program).
B3	By 2035, stakeholders generate data on the production of chemicals, including the use of chemicals in materials and products, in addition to data on emissions and releases of chemicals and waste to the environment, making these data available and publicly accessible.	**4**	RBA Chemical Platform; CEPN Process Chemicals Data Collection (PCDC) Tool; CEPN Worker Survey on Chemical Safety; Clean Production Action Chemical Footprint Project Survey
B4	By 2035, stakeholders apply appropriate guidelines, best available practices and standardized tools for hazard and risk assessment and chemical and waste management.	**29**	CEPN Priority Chemicals; RBA Industry Focus Process Chemicals (IFPC) Policy & List; CEPN Electronics Companies' MRSLs (Compilation); RBA Chemical Platform; CEPN Process Chemicals Data Collection (PCDC) Tool; CEPN/IPC Guide to Safer Alternatives; RBA Practical Guide to Chemical Management Due Diligence in Supply Chains; RBA Process Chemical Management Guide; RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM); CEPN Alternatives Assessment Guide & Worksheet; CEPN Qualitative Exposure Assessment (QEA) Tool; CEPN Joint Chemical Safety Committee Guidance; CEPN Worker Survey on Chemical Safety; CEPN Definitions (Glossary/Reference); Clean Production Action Chemical Footprint Project Survey; SEMI; Global Electronics Association (GEA) Evolve Program; EPEAT (Global Electronics Council); TCO Certified (IT products); IEC 62474 (Material Declaration for the Electrotechnical Industry); IPC-1750X Family of Standards (Materials Declaration Data Exchange); IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing); GreenScreen for Safer Chemicals; U.S. EPA Safer Choice;
B5	By 2030, educational, training and public awareness programmes on chemical safety, sustainability, safer alternatives and the benefits of reducing chemicals and waste risks have been developed and implemented, taking into	**4**	CEPN Chemical Safety Training Program; CEPN Joint Chemical Safety Committee Guidance; CEPN Worker Survey on Chemical Safety; Global Electronics Association (GEA) Evolve Program

	consideration a gender-responsive approach.		
B7	By 2030, stakeholders generate, to the extent possible, and make available comprehensive and accessible monitoring and surveillance data and information on concentrations and potential exposure sources of chemicals in humans (disaggregated by sex, age, region, other demographic factors, and other relevant health determinants as feasible), other biota and environmental media.	**0**	—
D1	By 2030, companies consistently invest in and achieve innovations towards advancing sustainable chemistry and resource efficiency throughout the life cycle of chemicals.	**10**	CEPN Toward Zero Exposure (TZE) Program; CEPN/IPC Guide to Safer Alternatives; CEPN Alternatives Assessment Guide & Worksheet; ChemWorks (Collaboration / Program); Global Electronics Association (GEA) Evolve Program; IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing); GreenScreen for Safer Chemicals; U.S. EPA Safer Choice; ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program)
D3	By 2030, the private sector, including the finance sector, incorporates strategies and policies to implement the sound management of chemicals and waste in its finance approaches and business models and applies internationally recognized or equivalent reporting standards.	**2**	Clean Production Action Chemical Footprint Project Survey

D4	By 2030, relevant stakeholders give priority to sustainable solutions and safer alternatives to harmful substances in products and mixtures, including in consumer products, in their research and innovation programmes.	**24**	CEPN Toward Zero Exposure (TZE) Program; RBA Chemical Management Leadership Program (CMLP); CEPN Priority Chemicals; RBA Industry Focus Process Chemicals (IFPC) Policy & List; CEPN Electronics Companies' MRSLs (Compilation); RBA Chemical Platform; CEPN/IPC Guide to Safer Alternatives; RBA Practical Guide to Chemical Management Due Diligence in Supply Chains; RBA Process Chemical Management Guide; RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM); CEPN Alternatives Assessment Guide & Worksheet; ChemWorks (Collaboration / Program); Clean Production Action Chemical Footprint Project Survey; SEMI; Global Electronics Association (GEA) Evolve Program; Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP); UNEP Circularity in the Electronics Sector; EPEAT (Global Electronics Council); TCO Certified (IT products); IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing); GreenScreen for Safer Chemicals; U.S. EPA Safer Choice; ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program)
D6	By 2030, sustainable chemical and waste management strategies have been developed and implemented for major economic and industry sectors that identify priority chemicals of concern and standards and measures, such as the chemical footprint approach, to reduce their impact and, where feasible, their input along the value chain.	**24**	CEPN Toward Zero Exposure (TZE) Program; RBA Chemical Management Leadership Program (CMLP); CEPN Priority Chemicals; RBA Industry Focus Process Chemicals (IFPC) Policy & List; CEPN Electronics Companies' MRSLs (Compilation); RBA Chemical Platform; CEPN/IPC Guide to Safer Alternatives; RBA Practical Guide to Chemical Management Due Diligence in Supply Chains; RBA Process Chemical Management Guide; RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM); CEPN Alternatives Assessment Guide & Worksheet; ChemWorks (Collaboration / Program); Clean Production Action Chemical Footprint Project Survey; SEMI; Global Electronics Association (GEA) Evolve Program; Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP); UNEP Circularity in the Electronics Sector; EPEAT (Global Electronics Council); TCO Certified (IT products); IPC-1402 (Standard for Greener Cleaners Used in Electronics Manufacturing); GreenScreen for Safer Chemicals; U.S. EPA Safer Choice; ChemFORWARD (Chemical Hazard Assessments + Verification; SAFER Program)
D7	By 2030, stakeholders implement measures and strive to ensure effective occupational health and safety practices as well as environmental protection measures in all relevant sectors and throughout the supply chain.	**10**	CEPN Toward Zero Exposure (TZE) Program; RBA Chemical Management Leadership Program (CMLP); RBA Industry Focus Process Chemicals (IFPC) Policy & List; CEPN Chemical Safety Training Program; RBA Process Chemical Management Guide; RBA Specialty VAP (SVAP) on Chemical Management (SVAP-CM); CEPN Qualitative Exposure Assessment (QEA) Tool; CEPN Joint Chemical Safety Committee Guidance; SEMI

E2	By 2030, partnerships and networks among sectors and stakeholders are strengthened to achieve the sound management of chemicals and waste.	**11**	CEPN Toward Zero Exposure (TZE) Program; RBA Chemical Management Leadership Program (CMLP); CEPN Chemical Safety Training Program; ChemWorks (Collaboration / Program); Clean Production Action Chemical Footprint Project Survey; SEMI; Global Electronics Association (GEA) Evolve Program; Global Framework on Chemicals - Electronics Sector Implementation Programme (Electronics IP); UNEP Circularity in the Electronics Sector
E3	Adequate, predictable and sustainable financial resources from all sources needed to support achieving the sound management of chemicals and waste are identified and mobilized in alignment with the vision, strategic objectives and targets of the Framework in all sectors by and for all stakeholders, including by leveraging private finance and promoting innovative and blended-finance schemes.	**0**	—
E6	By 2030, stakeholders identify and strengthen, as appropriate, synergies and linkages between chemicals and waste management and other key environmental, health and labour policies, such as those related to climate change solutions, biodiversity conservation, human rights protection, universal health coverage or primary health care.	**2**	UNEP Circularity in the Electronics Sector