

Deep-Dive Dialogues on the Options for Scope of the Science-Policy Panel

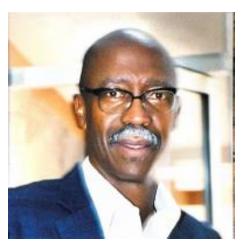
30 January 2023



### **Speakers**



Valerie Hickey World Bank



Santos Virgílio Angola



**Ahmad Ansari** 

ZDHC

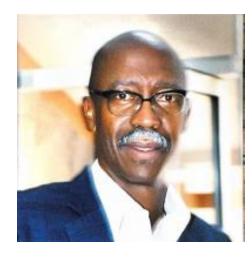
Martin Kayser BASF





Valerie Hickey World Bank

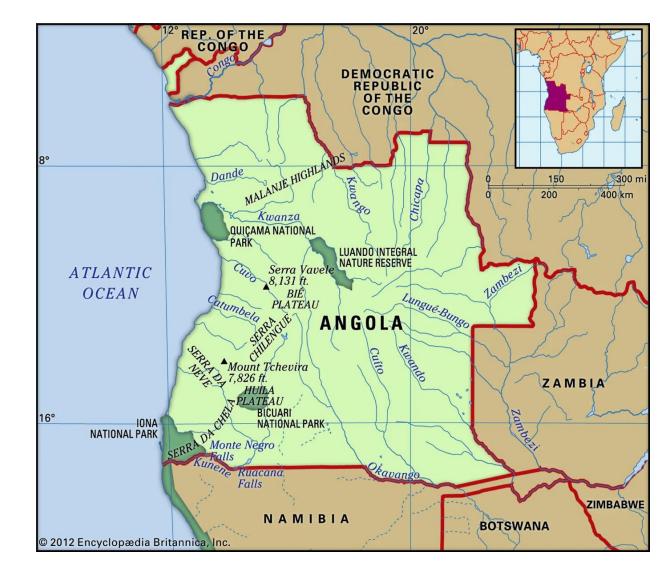




Santos Virgílio Angola



#### My country and its Northern neighbors



## Oil production in Africa



#### **Proximity of oil fields**



### My thoughts on the scope of the panel

- Developing Countries are keen to see the SPP acting to bring EVIDENCES, proving that mismanagement of all chemicals, their waste, and all sort of pollution, have impact on human health and the environment, as well as socioeconomic impacts.
- We need to have global perspective, but have to take into account particular aspects relevant to developing countries, e.g., industrialization taking place in developing countries, which are observing the old standards ...
- SPP can Identify problems and ways of how they can be solved



#### My thoughts on the scope of the panel

- Strengthen collaboration among academia around the world, recognizing that in developing countries there are also some research taking place, whose impact is currently not considered enough
- The only way to achieve good results is somehow to involve the industry at different levels, providing data, making available expertise, putting independent financial resources, and the waste practitioners







Ahmad Ansari ZDHC

# Human Impact & SPP scope

How ZDHC manages it





## How do chemicals & Waste impact us?

- Health: Workers, Consumers & Animals
- Pollution: Water, Air & Soil
- Environment & Biota
- Climate Change
- Loss of Biodiversity
- Issue with circularity
- Social & Economic dimension

Adverse Human Impact from chemicals & waste:

- Greenpeace
- River Blue (www.riverbluethemovie.eco)

#### **Chemicals: Human Hazard end-points**

Toxicity (Dermal, Oral, Inhalation)
Skin /Eye irritation

- Respiratory SensitizationCarcinogenic, Mutagenic, Reprotoxic
- Endocrine Disruptor
- Specific Target Organ Toxic
- Neurotoxic/Developmental toxin
- Persistent
- Bioaccumulative
- Toxic to Aquatic Life





SL	CoC Group (MRSL Group)	Use	No. of Substances	Category of chemical	Health impact	SL	CoC Group	Use	No. of Substances	Category of chemical	Health impact
1	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	detergents, scouring, wetting, levelling agents, spinning oils, softeners, emulsifier/dispersing agents for dyes and prints, dyes and pigment preparations	4	Auxillaries and dyestuffs	Endocrine disruptors	13	Organotin Compounds	antifoulants in marine paints, anti-odour finish, catalysts in plastic and glue production and heat stabilisers in plastics/rubber	11	Auxillaries	Endocrine disruptors
2	Anti- Microbials & Biocides	Anti- bacterial finishes	3	Auxillaries	Toxicity	14	Other/ Miscellaneous	chemicals/ substances/ process with a usage ban.	6	Auxillaries	
3	Chlorinated Paraffins	flame retardants, spin finishes, polymeric softeners	2	Auxillaries	CMR	15	Chemicals Perfluorinated and	Water, oil and stain	2	Auxillaries	vPvB,
4	Chlorobenzenes and Chlorotoluenes	carriers in polyester or wool/polyester dyeing; solvents; starting raw materials for disperse and vat dyes	2	Dyes and auxillaries	CMR		Polyfluorinated Chemicals (PFCs)	repellent agents. PFOA also may be in used in the production for polymers like PTFE		(Speciality material finishes)	Teratogenic
5	Chlorophenols	preservatives or pesticides	17	Auxillaries	CMR	16	Phthalates – including all other	Compounds commonly added to plastics to	18	Pigments, Auxillaries,	CMR and Endocrine
6	Dyes – Azo (Forming Restricted Amines)	Disperse, Basic, Acid dyes	28	Dyes and Pigments	Bladder Cancer		esters of ortho- phthalic acid	increase flexibility. Used in panel printing to give flexibility to prints		basic chemicals	Disruptors
7	Dyes – Carcinogenic or Equivalent Concern	Disperse, Basic and Acid dyes	15	Dyes	Carcinogenic	17	Polycyclic Aromatic Hydrocarbons (PAHs)	Oil containing PAHs are added to rubber and plastics as a softener or extender and may be	18	Dyes	Carcinogenic
8	Dyes – Disperse (Sensitising)	Disperse dyes used in synthetic fibre (e.g. polyester, acetate,	19	Dyes	Skin sensitising	18	Total Heavy Metals	found in rubber, plastics, lacquers, and coatings apply to dye and/or	14	Dyes and	Neurotoxic,
9	Dyes – Navy Blue	polyamide). Regulated. No longer	2	Dyes	Carcinogenic		Total Lieavy Metals	pigment formulations	14	Basic chemicals	STOT
10	Colourant Flame Retardants	should be used Flame retardant finish chemicals to meet flammability requirements	30	Auxillaries (Specialty finishes)	Carcinogenic	19	UV absorbers	These are frequently used in formulations to be stable to the influences of light and UV	4	Auxillaries	CMR
		in children's clothing and adult products.				20	Volatile Organic Compounds (VOC)	They are associated with solvent-based processes	5	Auxillaries	Respiratory sensitizer
11	Glycols / Glycol Ethers	solvents for finishing/ cleaning, printing agents, and degreasing or cleaning operations).	8	Auxillaries	CMR			like solvent-based polyurethane coatings and glues/ adhesives. They are used for any			and ozone depletion
12	Halogenated Solvents	finishing/ cleaning and printing agents, for dissolving/ diluting fats, oils and adhesives	5	Auxillaries	Ozone depletion, Cancer			kind of facility cleaning or spot cleaning of stains from garments & fabrics			

MRSL risks in textile/leather chemicals

## Scope: Solution Approach

#### **RSL Appraoch**



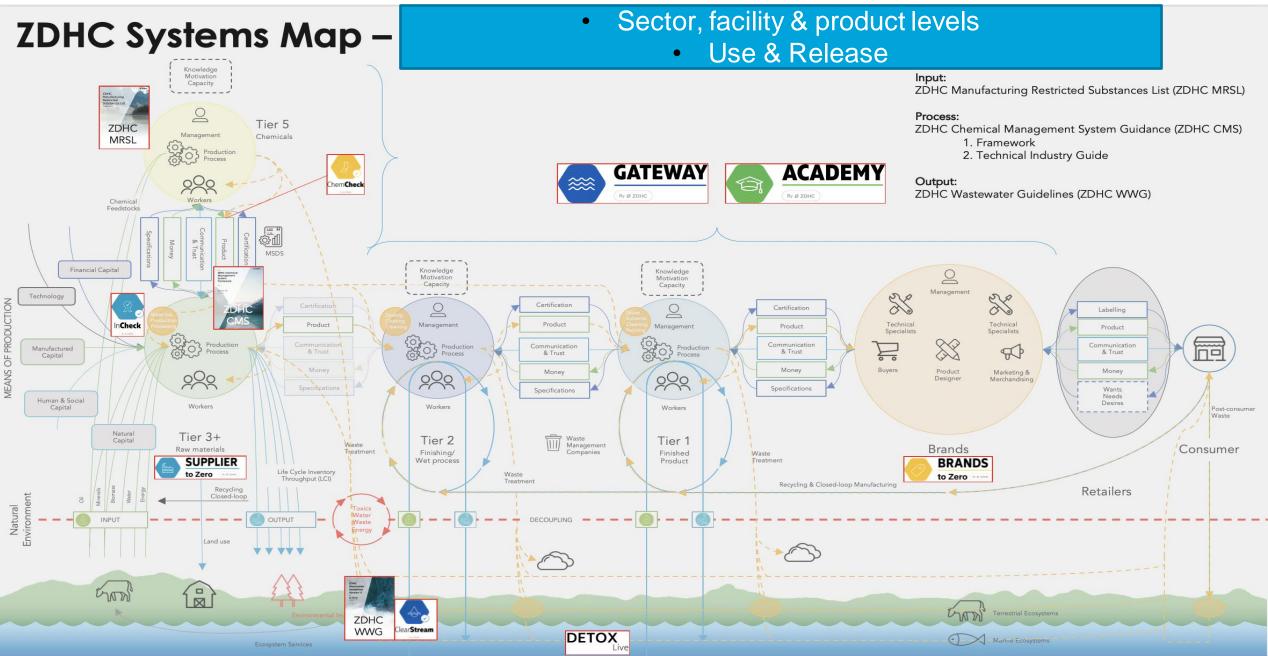
Consumer



#### **MRSL Appraoch**

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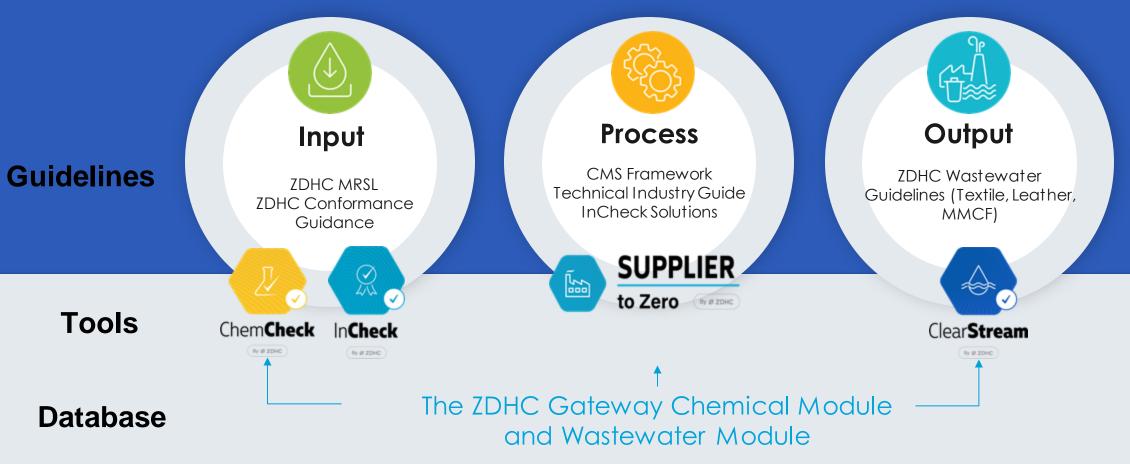
### Scope: LCA Framework as MUST



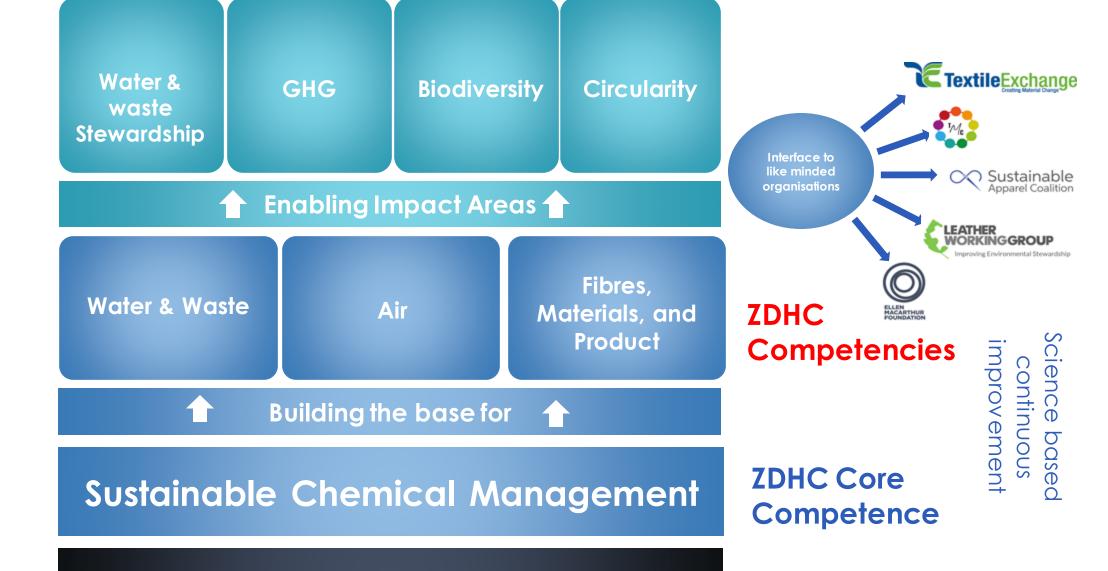
### **Input Chemical Management**

#### A HOLISTIC APROACH TO SUSTAINABLE CHEMICAL MANAGEMENT- ZDHC MRSL

#### AT EACH FACILITY IN CHEMICAL VALUE CHAIN



#### Holistic thinking: Way Forward



Streamlined Processes and Way of Working

#### Positive Impact: Key Results



**98%** of manufacturing suppliers within our community had no detection of ZDHC MRSL restricted substances in their wastewater. Metals follow the same trend, leading to the conclusion that metals are not intentionally being used in the textile supply chain.



**95%** of PFAS Isted on the ZDHC Wastewater Guidelines has been eliminated in facilities conducting wastewater testing.



Martin Kayser BASF

## Views on the Scope of the Panel





## A strong Supporter

 ICCA is a strong supporter of the concept of a Science **Policy Panel for chemicals**, waste, and pollution prevention and appreciates the opportunity to participate in these discussions

• SPP can elevate chemical, waste, and pollution issues within the global arena, providing relevant scientific assessments, information, and innovative policy recommendations to pressing environmental challenges







## Views on the Scope of the Panel

We agree with many other stakeholders that the panel should be broad, flexible, and include all facets of chemicals, waste and relevant pollution, including environmental pollution.

- We think that the work should be integrative, with the opportunity to involve value chains, as necessary
- The goal of the panel will be to provide policy-relevant scientific evidence, so that countries can make educated decisions about issues in the space of chemicals, waste, and pollution
- Coordination with other MEAs and frameworks is imperative, to minimize duplication and conserve resources





## **Engagement & Participation**

- As the manufacturers and processors of chemicals of all kinds, industry is well equipped to provide the panel with key scientific data and usage information to help the panel make recommendations grounded in sound science
- Within the OEWG meetings and any intersessional work, ICCA and our members look forward to providing ideas and solutions on how to utilize industry expertise





 ICCA looks forward to a constructive and collaborative OEWG scoping process, respecting and trusting each other, to help guide the OEWG in its development of the Science Policy Panel that can help us all better protect human health and the environment.







## Thank you!