

Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

Thursday 28 January 2021 | 14.00 CET

#GENeva #BeatPlasticPollution

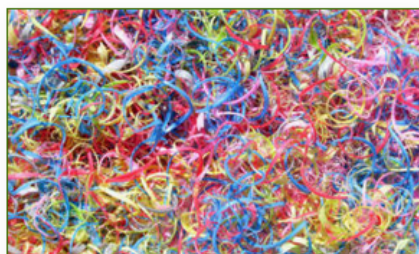


Permanent Mission of Norway
Geneva



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra





EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Waste

26 NOV 2020 09:00 – 10:00

Online | Webex
GEN

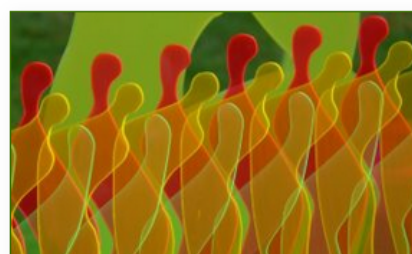


EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics, Climate and Air Pollution

10 DEC 2020 14:00 – 15:00

Online | Webex
GEN



EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Human Rights

14 JAN 2021 14:00 – 15:00

Online | Webex
GEN



EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Health

21 JAN 2021 14:00 – 15:15

Online | Webex
GEN



EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

28 JAN 2021 14:00 – 15:15

Online | Webex
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EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Trade

04 FEB 2021 14:00 – 15:15

Online | Webex
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EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP

11 FEB 2021 14:00 – 15:20

Online | Webex

High-Level Dialogue





EVENT | VIRTUAL

Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

28 JAN 2021 14:00 - 15:15

Online | Webex
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🕒 Chemicals and Pollution | Green Economy

🌐 SDG3 | SDG12 | SDG9

Speakers



Reinhard WEISSINGER

Former Senior Expert, Research and Education, ISO Central Secretariat



Karen RAUBENHEIMER

Lecturer, Australian National Centre for Ocean Resources and Security (ANCORS), University of Wollongong



Justin WILKES

Executive Director, ECOS



Feng WANG

Coordinator, Circularity and Waste, Consumption and Production Unit, United Nations Environment Programme



Anja VON DER ROPP

Senior Program Coordinator, Climate Change and Food Security, World Intellectual Property Organization



Carolyn DEERE BIRKBECK

Senior Researcher, Global Governance Centre, The Graduate Institute (moderator)



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- **Introduction to the Session** | Carolyn DEERE BIRKBECK, Global Governance Centre

Setting the Scene

- **Mapping the Status of the Plastics and Standards Landscape: Institutions, Processes, Gaps, and Opportunities** | Reinhard WEISSINGER
- **Standards and a New Global Agreement to Prevent Plastic Pollution** | Karen RAUBENHEIMER, ANCORS

Challenges, Opportunities and Emerging Issues in the Plastics and Standards Landscape

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Q&A

Closing



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Senior Researcher, Global Governance
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Setting the Scene



#GENeva #BeatPlasticPollution



Reinhard WEISSINGER

Former Senior Expert, Research and
Education, ISO Central Secretariat



Geneva Environment Network (GEN):

Plastics and Standards

The standardization landscape and an overview of standards work on plastics

Reinhard Weissinger, Former Senior Expert, Research and Education,
ISO Central Secretariat, Geneva

Date: 28 January 2021

What are standards?

Standards are **voluntary instruments** that address products, processes, systems, services etc. and are **developed by consensus** between different stakeholders.

The purpose of standards is to provide, for common and repeated use, rules, guidelines or characteristics for activities or their results.

Standards should be based on the consolidated **results of science, technology, and experience**, and aimed at the promotion of optimum community benefits.

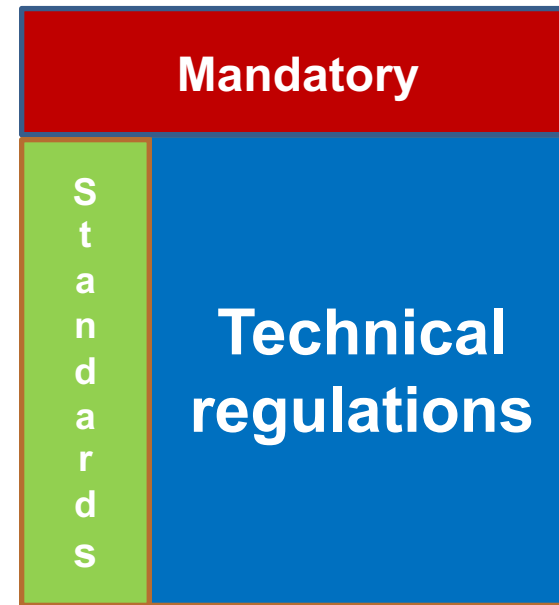
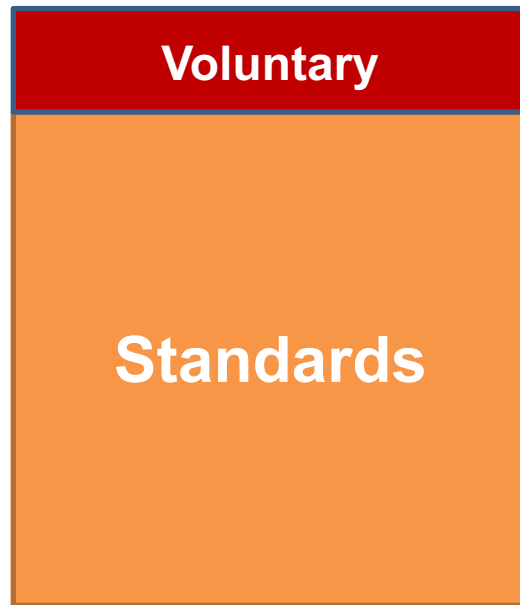
The **legal status of standards as voluntary instruments can change** e.g. through their incorporation into law or private contracts.

Sources: *ISO/IEC Guide 2* and *WTO TBT Agreement, Annex 1*

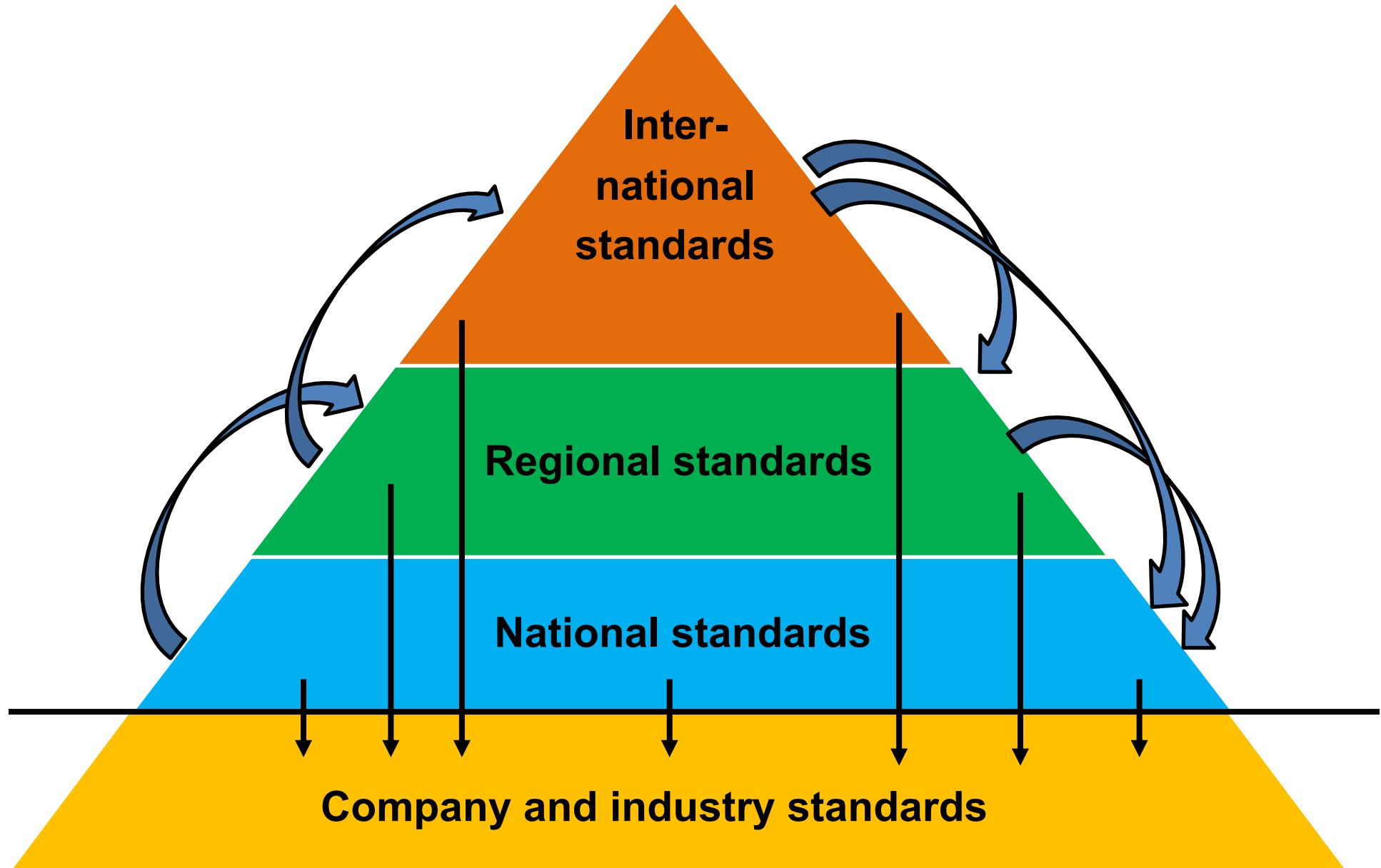
Standards are not Technical regulations!



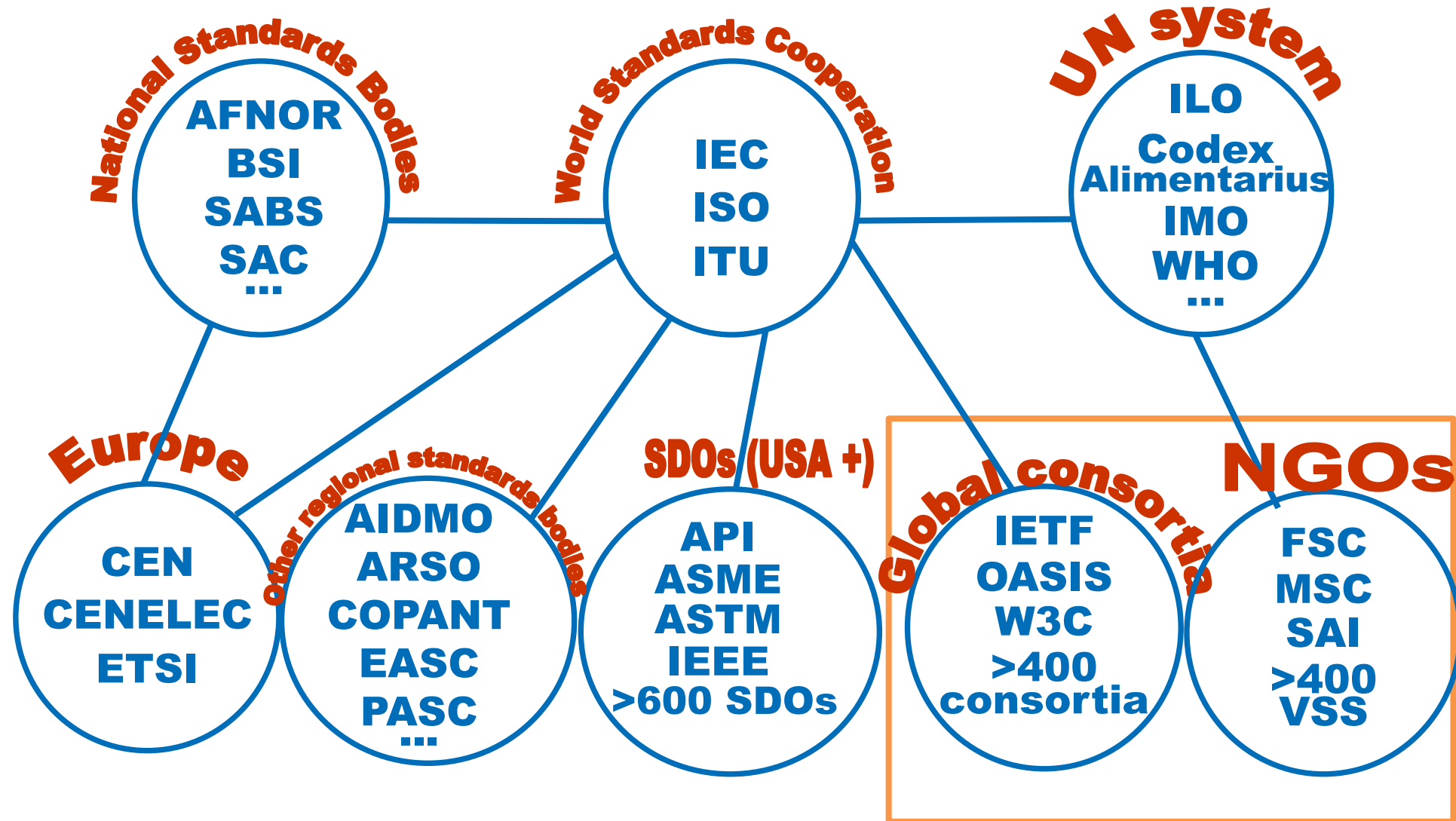
**However, Standards can become (part of) or support
Technical regulations**



The “formal” standardization system

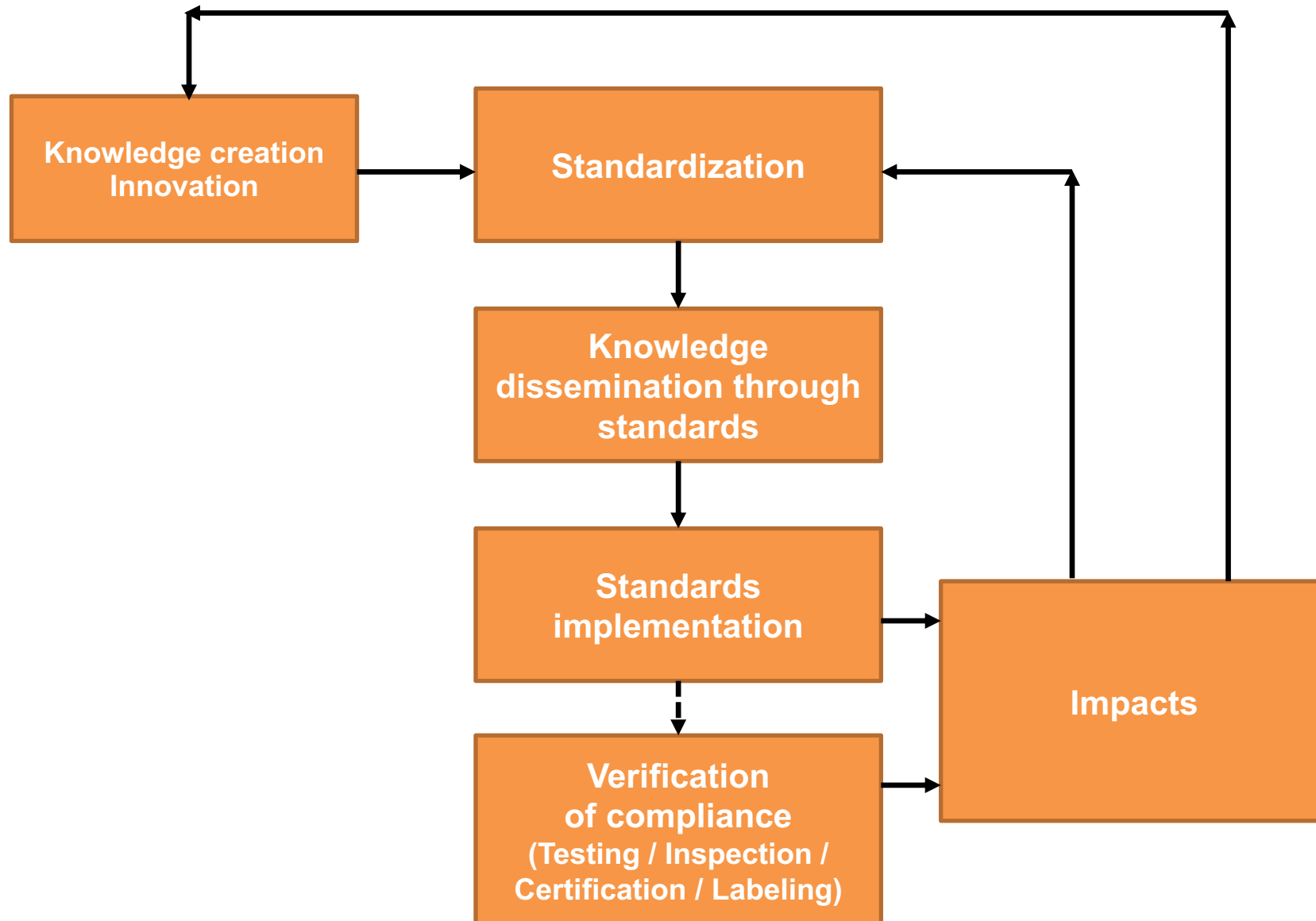


Standards organizations – a snapshot



= refers to organizations “**outside**” the formal system

Standards: Instruments to generate impacts






Plastics and standards – An overview

- ISO (International Organization for Standardization)
- CEN (European Committee for Standardization)
- ASTM International (formerly: *American Society for Testing and Materials*)

Plastics and standards: ISO

■ ISO/TC 61 *Plastics*

REFERENCE 	TITLE
ISO/TC 61/SC 1	Terminology
ISO/TC 61/SC 2	Mechanical behavior
ISO/TC 61/SC 4	Burning behaviour
ISO/TC 61/SC 5	Physical-chemical properties
ISO/TC 61/SC 6	Ageing, chemical and environmental resistance
ISO/TC 61/SC 9	Thermoplastic materials
ISO/TC 61/SC 10	Cellular plastics
ISO/TC 61/SC 11	Products
ISO/TC 61/SC 12	Thermosetting materials
ISO/TC 61/SC 13	Composites and reinforcement fibres
 ISO/TC 61/SC 14	<u>Environmental aspects</u>
ISO/TC 61/WG 4 	Plastics joining

Plastics and standards: ISO

- ISO/TC 61/SC 14 *Environmental aspects of plastics*

REFERENCE ↓	TITLE
ISO/TC 61/SC 14/WG 1 ⓘ	Terminology, classifications and general guidance
ISO/TC 61/SC 14/WG 2 ⓘ	Biodegradability
ISO/TC 61/SC 14/WG 3 ⓘ	Biobased plastics
ISO/TC 61/SC 14/WG 4 ⓘ	Characterization of plastics leaked into the environment (including microplastics) and quality control criteria of respective methods
ISO/TC 61/SC 14/WG 5 ⓘ	Mechanical and chemical recycling

Plastics and standards: CEN

■ CEN/TC 249 *Plastics*

Working group	Title
→ CEN/TC 249/WG 11	<u>Plastics recycling</u>
CEN/TC 249/WG 13	Wood Plastics Composites (WPC)
CEN/TC 249/WG 16	Welding of thermoplastics
CEN/TC 249/WG 19	Light exposure
CEN/TC 249/WG 2	Plastics warning devices for underground cables and pipelines
CEN/TC 249/WG 21	Profiles for windows and doors
CEN/TC 249/WG 22	Wallcovering panels for building applications
→ CEN/TC 249/WG 24	<u>Environmental aspects</u>
CEN/TC 249/WG 25	Static thermoplastic tanks for above ground storage of fuel
CEN/TC 249/WG 4	Decorative laminated sheets based on thermosetting resins
CEN/TC 249/WG 5	Thermoplastic profiles for building applications
CEN/TC 249/WG 7	Thermoplastic films for use in agriculture
→ CEN/TC 249/WG 9	<u>Bio-based and biodegradable plastics</u>

Plastics and standards: CEN

- CEN/TC 411 *Bio-based products*

CEN/TC 411 Subcommittees and Working Groups

Working group	Title
CEN/TC 411/WG 1	Terminology
CEN/TC 411/WG 3	Bio-based content
CEN/TC 411/WG 4	Sustainability criteria, life cycle analysis and related issues
CEN/TC 411/WG 5	Certification and declaration tools

Plastics and standards: ASTM International

- **ASTM D20** *Plastics*, **D20.95** *Recycled plastics* and **D20.96** *Environmentally degradable plastics and Biobased products*

[D20.09](#) Specimen Preparation

[D20.10](#) Mechanical Properties

[D20.13](#) Statistical Methods

[D20.15](#) Thermoplastic Materials

[D20.16](#) Thermosetting Materials

[D20.18](#) Reinforced Thermosetting Plastics

[D20.19](#) Film, Sheeting, and Molded Products

[D20.20](#) Plastic Lumber

[D20.22](#) Cellular Materials - Plastics and Elastomers

[D20.23](#) Reinforced Thermosetting Resin Piping Systems and Chemical Equipment

[D20.24](#) Plastic Building Products

[D20.30](#) Thermal Properties

[D20.40](#) Optical Properties

[D20.50](#) Durability of Plastics

[D20.61](#) US TAG ISO/TC-61 on Plastics

[D20.70](#) Analytical Methods

[D20.90](#) Executive

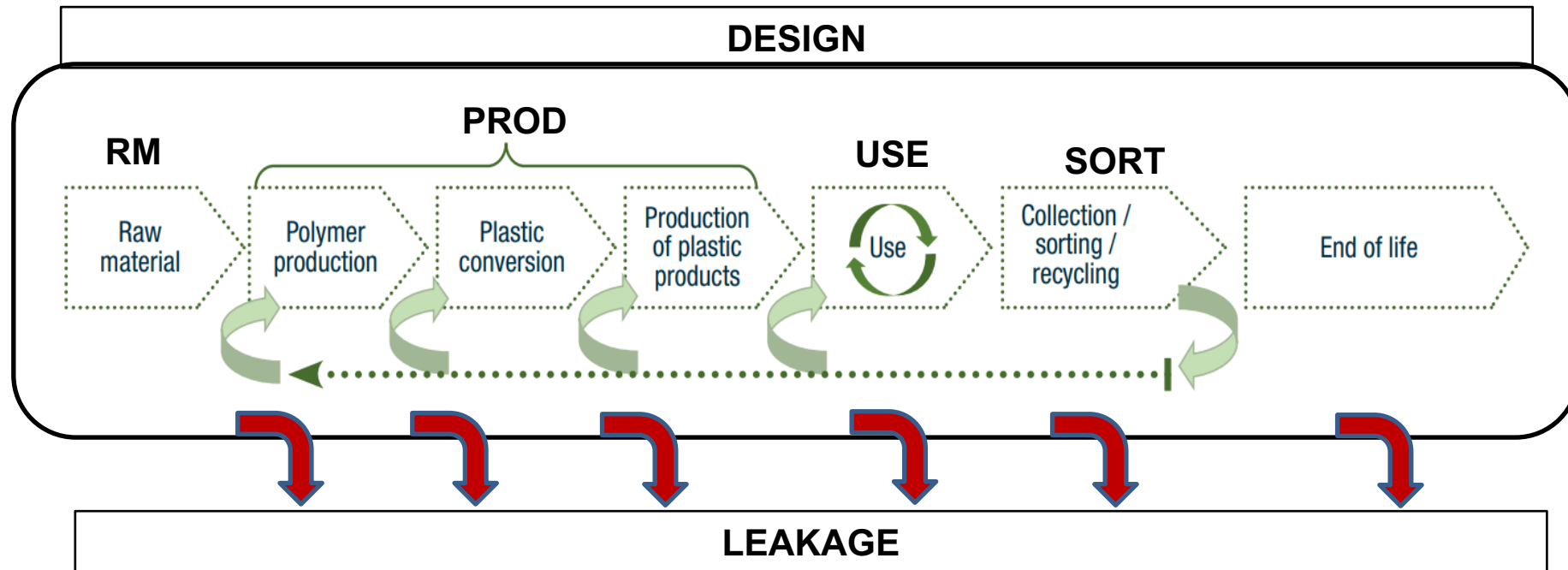
[D20.92](#) Terminology

[D20.93](#) Advisory

→ [D20.95](#) Recycled Plastics

→ [D20.96](#) Environmentally Degradable Plastics and Biobased Products

A holistic view: The plastics value chain



Source: Adapted from UNEP, Technical University of Denmark (2018), *Mapping of plastics value chain and plastics losses to the environment*, p. 10, available at: <https://wedocs.unep.org/handle/20.500.11822/26745>

Some recommendations for standardization & standards

- Standards should be developed with a systemic, whole value chain approach that considers re-use and end-of-life aspects
- Mappings should be undertaken to identify any equivalence between standards developed by different standards bodies
- Taxonomies of plastics and of their quality-levels are needed
- Material passports for plastics and their embedded substances (material transparency)
- Reduction in the use of different types of plastics
- Simple and clear labelling systems
- Plastics leakage into the environment throughout the value chain

Upscaling the impacts of standards

- Standards are voluntary instruments, so their uptake is mainly voluntary
- In order to scale up the impacts of standards to combat the plastics pollution, they need to be part of national and international policies, that include
 - Clear and measurable policy objectives
 - Regulatory measures
 - Incentive systems
 - Financial support
 - Training and educational programmes

Thank you!

Contact:

reinhard.weissinger@yahoo.com



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GEN

🕒 Chemicals and Pollution | Green Economy

🌐 SDG3 | SDG12 | SDG9

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#GENeva #BeatPlasticPollution



Karen RAUBENHEIMER

Lecturer, Australian National Centre for
Ocean Resources and Security (ANCORS),
University of Wollongong



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Standards and a new global agreement

THE NORDIC REPORT

Dr Karen Raubenheimer | ANCORS | University of Wollongong | Australia kraubenh@uow.edu.au
Geneva Beat Plastic Pollution Dialogues | Plastics and Standards | 28 January 2021



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OF WOLLONGONG
AUSTRALIA

Global standards to achieve four strategic goals

1

Elimination of
problematic,
avoidable
products

2

Sustainable
management
of all products

3

Sustainable
waste
management

4

Chemical
hazard
reduction

www.nordicreport2020.com

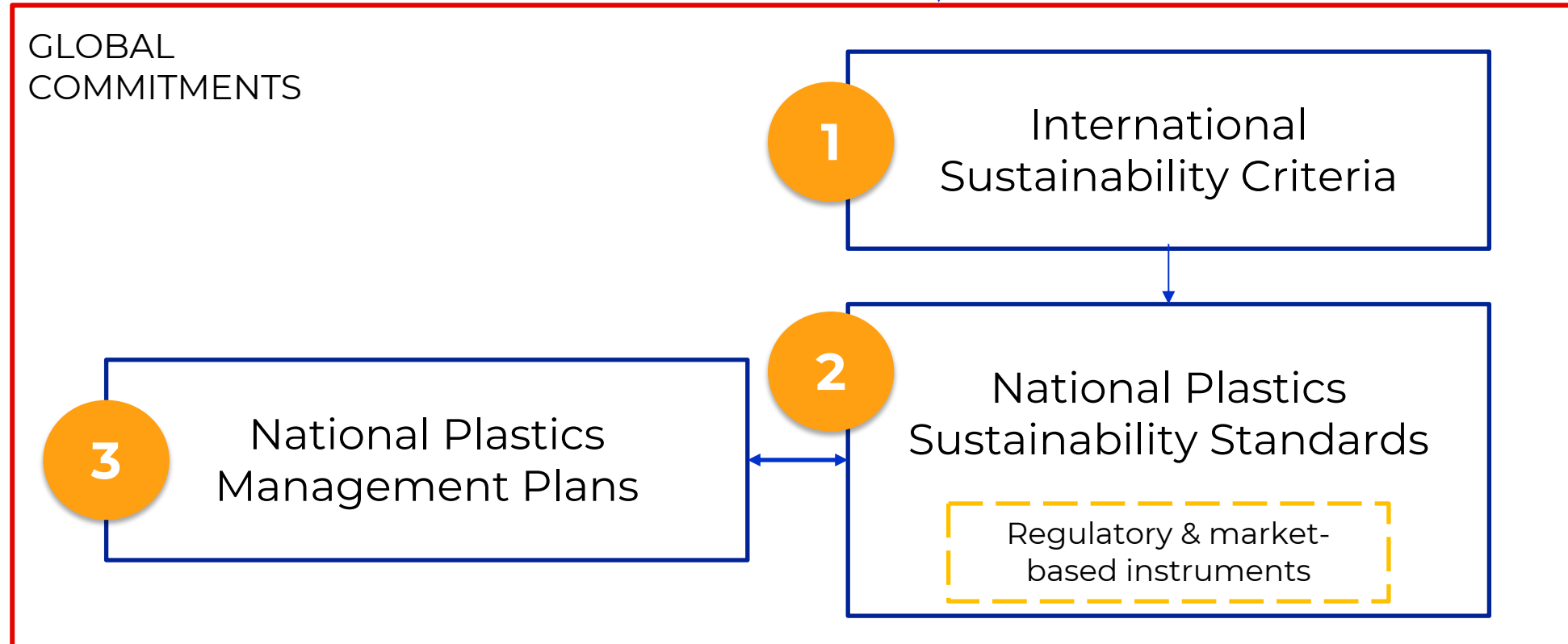


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AUSTRALIA

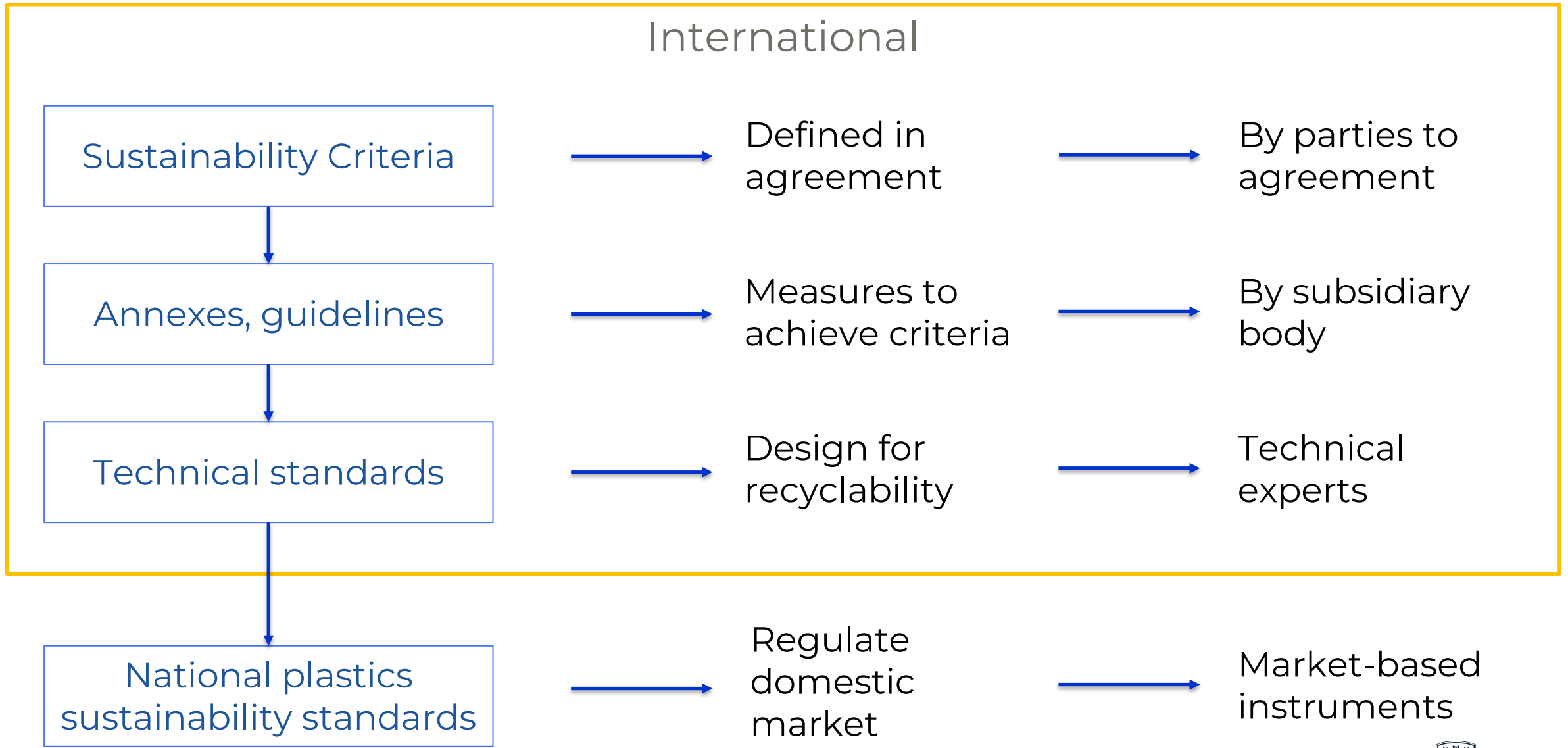
GLOBAL
OBJECTIVE

Elimination of discharge to the environment

GLOBAL
COMMITMENTS



International



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Thank you

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Justin WILKES
Executive Director, ECOS





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Coordinator, Circularity and Waste,
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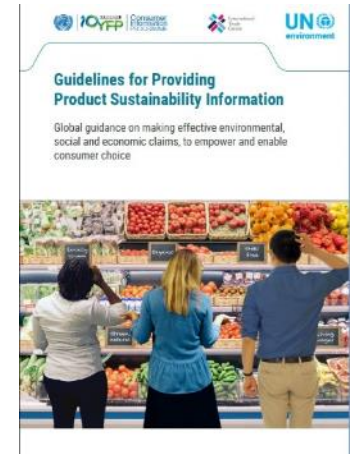
Plastics Standards Towards a Pollution Free Planet

Feng Wang
Consumption and Production Unit, Economy Division

27 January 2021

UNEP's work on standards, eco-labels and consumer information

- **Review** of global, regional and national **policies, standards, labels, claims**
- **Guidance and policy support** on national policy and standards
- **Guidelines** for Providing Product Sustainability Information
- Assessment of **eco-labelling schemes** on Environment Footprint, Chemicals of Concern, Climate Change, Biodiversity etc.
- Compilation of case studies and **best practices**
- Knowledge sharing and **capacity** development



One planet
inform with care

Roles of standards on reducing plastic pollution

- **Material and product:** characteristics and composition (quality, safety, health, hazardous content, recyclability, reusability, composability, biodegradability...)
- **Labelling and claims**
- **Recycled plastics**
- **Treatment processes:** quality of technologies and facilities

Pros

- Influence product design, production, consumption and market creation
- Ensure fair competition, reduce inconsistent specifications and communication

Cons

- Unharmonized terminology
- Many different standards exist
- Variation of standards not visible to consumers
- Disconnection with real-life scenarios
- Lack of public access to information

Actions for the future

- Harmonize definition, terminology and criteria
- Align standards at national, regional and global levels
- Provide reliable sustainability information and assessment to support standard development
- Embed actual conditions and real-life scenarios in standard development, and differentiate per sector or context
- Create better synergies between standards and consumer information (eco-labels and claims etc.)
- Match the work of standards with enforcement mechanism (compliances, verification, certification, inspection, audit etc.), market buy-in, consumer behavior, reuse, and state-of-the-art treatment



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Change and Food Security, World
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WIPO GREEN

An online platform for technology exchange that contributes to the accelerated adaptation, adoption and deployment of green technology solutions

WIPO GREEN connects those seeking environmentally sustainable solutions with technology and service providers

Further information:

www.wipo.int/green

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wipo.green@wipo.int



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QUESTIONS

Q & A

ANSWERS

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Senior Program Coordinator, Climate
Change and Food Security, World
Intellectual Property Organization



Carolyn DEERE BIRKBECK

Senior Researcher, Global Governance
Centre, The Graduate Institute
(moderator)



Geneva Beat Plastic Pollution Dialogues

Sessions

- Opening Session: [Plastics and Waste](#) | 26 November 2020 | 9:00-10:00 CET
- [Plastics, Climate and Air Pollution](#) | 10 December 2020 | 14:00-15:00 CET
- [Plastics and Human Rights](#) | 14 January 2021 | 14:00-15:00 CET
- [Plastics and Health](#) | 21 January 2021 | 14:00-15:00 CET
- [Plastics and Standards](#) | 28 January 2021 | 14:00-15:00 CET
- [Plastics and Trade](#) | 4 February 2021 | 14:00-15:00 CET
- [Plastics in the Life Cycle/SCP](#) | 11 February 2021 | 14:00-15:00 CET
- High-Level Dialogue on Plastic Governance



EVENT | VIRTUAL
Geneva Beat Plastic Pollution Dialogues | Plastics and Trade
04 FEB 2021 14:00 - 15:15
Online | Webex
GEN

🕒 Chemicals and Pollution | Plastics | Green Economy
🌐 SDG3 | SDG12



EVENT | VIRTUAL
Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP
11 FEB 2021 14:00 - 15:20
Online | Webex

🕒 Chemicals and Pollution | Green Economy
🌐 SDG3 | SDG12

Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

Thursday 28 January 2021 | 14.00 CET

#GENeva #BeatPlasticPollution



Permanent Mission of Norway
Geneva



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

