

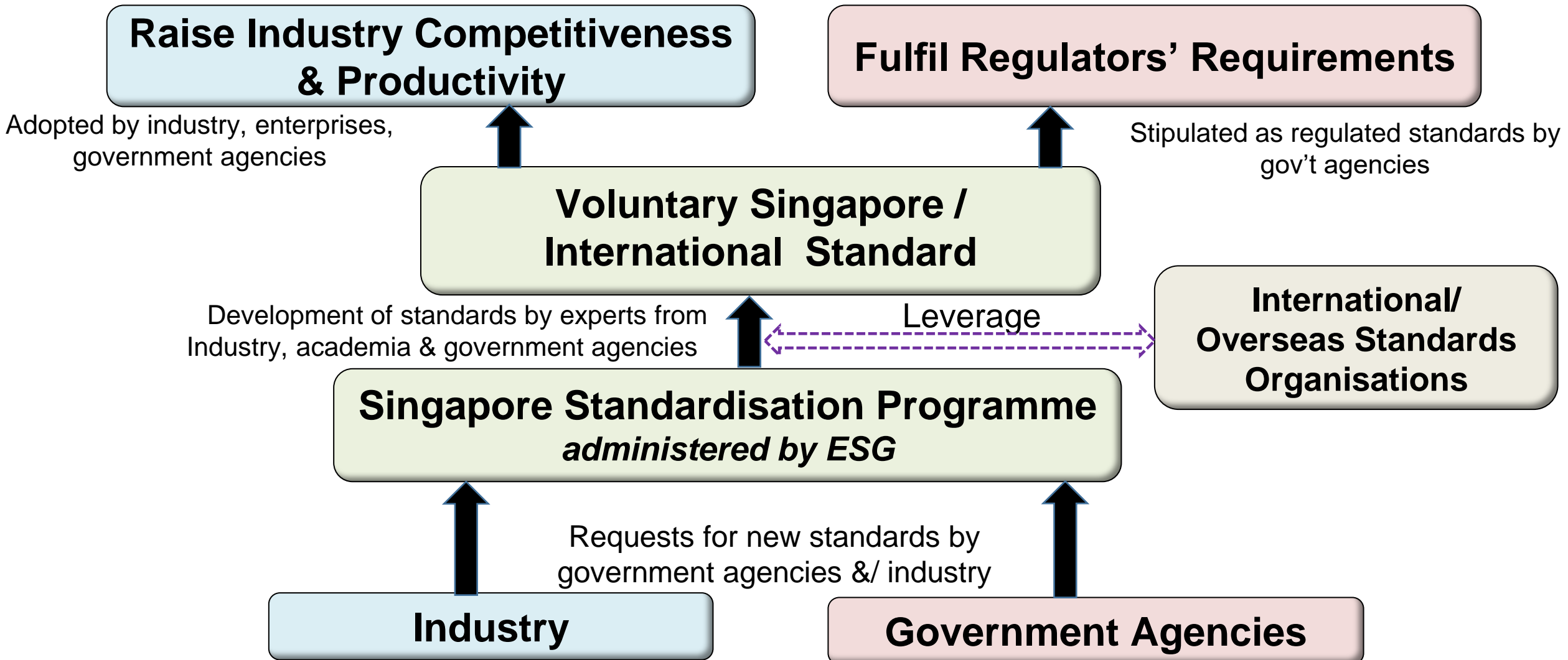
Role of International Standards - Facilitating Singapore's transition towards Circular Economy model

Mr Marc Allen

Co-Convenor of Singapore's National Mirror Working Group on Circular Economy



Standards Development Process



Singapore Standardisation Structure



About 2600 Standards Partners from industry, business, research / professional institutions, academia, regulators and consumers



- Coordinating Committee for Smart Nation (CCSN)
- Coordinating Committee for Silver Industry (CCSI)
- Coordinating Committee for Cybersecurity
- Standards Promotion Committee

STANDARDS COMMITTEES

Managed by SDO@SCIC

- Overseeing standardisation work in specific sectors



Biomedical & Health



Building & Construction



Chemical



Electrical & Electronic



Environment & Resources



Food



Information Technology



Manufacturing



Quality & Safety



Services



Trade & Connectivity
(New)

TECHNICAL COMMITTEES

- Overseeing standardisation work in specific focus areas

WORKING GROUPS

- Draft new standards and review existing standards

Environment and Resources Standards Committee (ERSC)

Objectives

Spearheads the development and adoption of standards to address sustainable development.

Scope

Develops, promotes and supports the implementation of standards for

- Climate change mitigation and adaptation
- Circular economy
- Water management
- Sustainable energy
- Sustainable finance
- Clean technologies

ITMs supported by SC: Environment Services

Emerging areas supported by SC: Cleantech, Sustainable Finance, Circular Economy

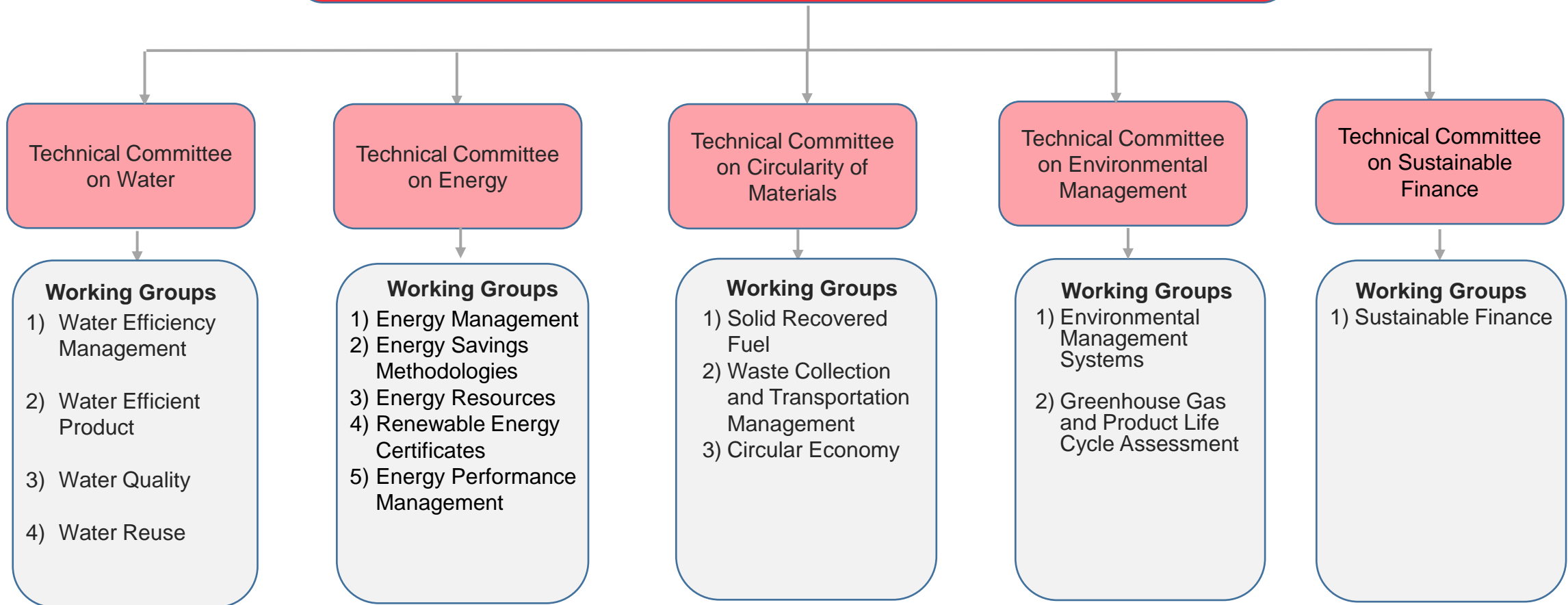
Key Stakeholders Engaged in ERSC



Environment and Resources Standards Committee (ERSC)

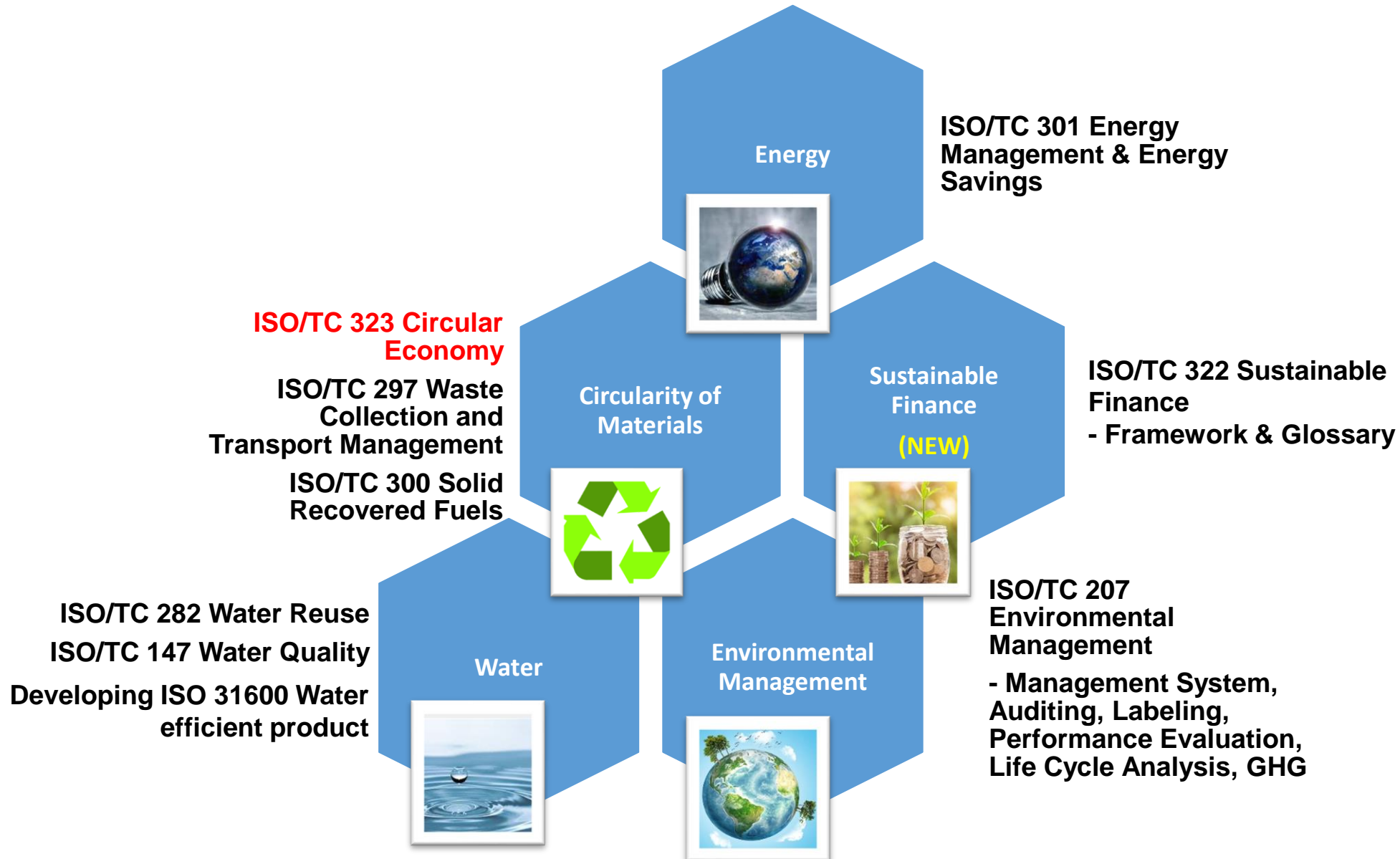
Environment and Resources Standards Committee
Chair: Mr Wim Roels

Deputy Chairs: Ms Neo Gim Huay and Mr Dalson Chung



20 committees & approx. 220 Standards Partners

ERSC – Strategic involvement in international standards committees



National Mirror WG on Circular Economy



Objective

Standards as an enabler to support Singapore moving towards zero waste and circular economy

Current progress

NMWG on Circular Economy experts attended the 3rd virtual ISO/TC 323 plenary and WG 1-4 meetings from 18-22 Jan 2021 to support the development of 4 new internationally-recognised standards on circular economy, with over 200 nominated participants from 79 countries.

Moving forward, our NMWG will continue to contribute their technical expertise in the drafting of these 4 new ISO standards via webinars and hosted meetings.

Composition – WG on Circular Economy



S/N	Role	Name of individual (company for reference only)
1	Co-convenor	Mr Marc Allen (Engeco)
2	Co-convenor	Mr Dalson Chung (National Environment Agency)
3	Member	Ms Lydia Lim (JTC Corporation)
4	Member	Prof Seeram Ramakrishna (National University of Singapore)
5	Member	Prof Madhavi Srinivasan (Nanyang Technology University)
6	Member	Prof Jonathan Low (SIMTech)
7	Member	Assoc Prof Adrian Kuah (James Cook University)
8	Member	Mr Vincent Teo (Singapore Environment Council)
9	Member	Ms Cui Mengmeng (Metabolic, Asia Pathway)
10	Member	Mr Paul Fong (Dow Chemical)
11	Member	Mr Chris Messer (Kimberly Clarke)
12	Member	Ms Amita Baecker (GA Circular)

Note: Co-convenors and Members are participating in their individual capacity.

Current Standards Work Items



S/N	No. and Title of proposed ISO Standard	Current development status under ISO TC 323	Schedule
1	ISO/WD 59004 Circular economy — Framework and principles for implementation	On-going remote WG 1 meetings <ul style="list-style-type: none"> Current WG standards partner(s) attending – Mr Marc Allen 	Target for publication – 1 Mar 2023
2	ISO/WD 59010 Circular economy — Guidelines on business models and value chains	On-going remote WG 2 meetings <ul style="list-style-type: none"> Current WG standards partner(s) attending – Ms Cui Mengmeng 	Target for publication – 1 Mar 2023
3	ISO/WD 59020 Circular economy — Measuring circularity framework	On-going remote WG 3 meetings <ul style="list-style-type: none"> Current WG standards partner(s) attending – Prof Seeram Ramakrishna 	Target for publication – 1 Mar 2023
4	ISO/CD TR 59031 Circular economy – Performance-based approach – Analysis of cases studies	On-going remote WG 4 meetings <ul style="list-style-type: none"> Current WG standards partner(s) attending – Prof Jonathan Low and Prof Adrian Kuah 	Target for publication – 15 Sep 2021

**Enterprise
Singapore**



The Singapore Standards Council (SSC) facilitates the development, promotion and review of Standards and Technical References in Singapore. This work is done through partnerships with the industry, academia and government organisations, under the national standardisation programme overseen by Enterprise Singapore.

Visit www.enterprisesg.gov.sg/standards for more information.

Enquiry email: sdo@scic.sg

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Organisation**



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