



**NSAI**

# ANNUAL REPORT FOR 2022

**NSAI TECHNICAL COMMITTEE  
NSAI/TC 66**

**CIRCULAR ECONOMY STANDARDS  
COMMITTEE**

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## 1 Chair's Statement

NSAI/TC066 was established in late 2019 to facilitate the participation of Irish experts in the newly formed ISO/TC/323 Circular Economy and to facilitate further work in the area of circular economy in different sectors as needed. NSAI/TC66 SC2 was formed in 2021 to facilitate the participation of Irish experts in the newly formed CEN TC/350-Circular economy in the Construction Sector

ISO standards can support governments and regulators with the development of better regulation thanks to the wide range of global expertise involved in standard development. As Ireland walks its path to net zero by 2050, the circular economy will play a major role in address the carbon emissions associated with products, the work currently under way developing the ISO/TC/323 Circular Economy suite of standards could provide a robust framework for companies to engage with the circular economy should NSAI choose to adopt the standard nationally.

In 2022, we saw the collaboration work transition from online meetings at both national and international level as a result of the pandemic and covid\_19 lockdown to a hybrid working model.

The early work in 2022, focused on reviewing and commenting on the ISO 59004, 59010 & 59020 during the Committee Draft (CD) consultation phase, with the later half of the year focused on comment resolution and preparing the documents for Draft International Standard (DIS) phase. This year, also saw the preparation of ISO 59040 (Circular Economy-Product circularity data sheet) and ISO 59014 (Secondary material – Product circularity data sheet) to enter CD phase.

As we enter 2023, which is a critical year for the ISO \TC 323 development phase, I would like to thank all the members of the national committee and in particular the Convenors for their work at both national and international level ensuring the needs of Irish industry and stakeholders are being taken into account in the development of the standards.

**David McCormack** – Chair NSAI/TC066

## 2 Introduction

David McCormack, Director of Sustainable Manufacturing at the Irish Manufacturing Research Ltd was appointed Chair of the National Committee NSAI/TC066 and its subcommittee NSAI/TC066/SC1 in March 2020 by NSAI. Janet Lynch, Arup is the appointed Chair of subcommittee NSAI TC66 SC2 “Circular Economy in the construction Sector”

The role of this committee is to facilitate national experts to participate in standards committees that are established in the area of Circular economy. It is foreseen as this area grows a high-level expert group will participate in NSAI TC/66 representing government, policy makers, industry, researchers, environmental stakeholders, societal stakeholders amongst others. NSAI/TC66 will be informed by the activities of its sub committees, working groups and external stakeholders.

### 3 Scope of NSAI/TC66

#### 3.1 Scope of NSAI/TC66

The scope of NSAI TC/66 is to facilitate national experts to participate in committees established within the area of Circular economy.

#### 3.2 Scope of NSAI/TC66/SC1

Sub Committee (SC) 1 is a subcommittee of the overarching committee NSAI TC/66 and is Chaired by David McCormack.

The SCOPE of NSAI/TC66/SC1 is aligned with that of ISO Technical Committee ISO/TC 323 Circular Economy. ISO/TC 323 is responsible for the development of standardization which includes the development of frameworks, guidance, supporting tools and requirements for the implementation of activities of all involved organizations, to maximize the contribution to Sustainable Development. It does not develop aspects of Circular Economy already covered by existing committees.

In parallel, the ISO TC 323 works in cooperation with existing committees on subjects that may support Circular Economy.

The Strategic Business Plan for ISO/TC323, its working groups (WG’s) can be viewed on the ISO website [www.iso.org](http://www.iso.org) or at this link ; [ISO - Publicly available resources](#)

The function and role of NSAI/TC 66/SC1 is to:

- facilitate national inputs to drafts under development from ISO TC/323, its working groups (WGs).
- Advise NSAI on national inputs to ballots under development from ISO TC/323, and its working groups (WGs).

Details of the ISO technical committee and its working groups are provided in Table 1.

**Table 1- ISO Technical Committee ISO/TC/323 and Working Groups**

Name	Title
ISO /TC 323/CAG	Concepts and Terminology
ISO/ TC 323/WG1	Terminology, principles, frameworks and management systems standard
ISO/ TC 323/WG2	Practical approaches to develop and implement Circular Economy
ISO/ TC 323/WG3	Measuring and assessing circularity
ISO/ TC 323/WG4	Circular Economy in practice; experience feedback
ISO/ TC 323/WG5	Product circularity data sheet

### 3.3 Scope of NSAI/TC66/SC2

Sub Committee (SC) 2 is a subcommittee of the overarching committee NSAI TC/66 and is Chaired by Janey Lynch.

The SCOPE of NSAI/TC66/SC2 is aligned with that of [CEN/TC 350](#) ‘Sustainability of construction works’. [CEN/TC 350](#) is responsible for the development of horizontal standardized methods for the assessment of the sustainability aspects of new and existing construction works (buildings and civil engineering works) in the context of the UN Sustainable Development Goals and of the circular economy. The methodological basis will be developed in the context of current needs, European strategies, such as mitigation, adaptation and resilience to climate change, and life cycle thinking.

The Strategic Business Plan for CEN/TC350, its working groups (WG’s) can be viewed on the CEN/CENLEC website [Sustainability, Safety and Accessibility - CEN-CENELEC \(cenelec.eu\)](https://www.cenelec.eu)

The function and role of NSAI/TC 66/SC2 is to:

- facilitate national inputs to drafts under development from CEN TC/350, its working groups (WGs).
- Advise NSAI on national inputs to ballots under development from CEN TC/350, and its working groups (WGs).

Details of the CEN technical committee and its working groups are provided in Table 2.

• **Table 2- CEN Technical Committee CEN/TC/350 and Working Groups**

Name	Title
CEN /TC 350/SC1	Circular Economy in the Construction Sector
CEN /TC 350/WG1	Environmental performance of buildings
CEN /TC 350/WG3	Products Level
CEN /TC 350/WG5	Social performance assessment of buildings
CEN /TC 350/WG6	Civil Engineering works
CEN /TC 350/WG7	Framework and Coordination
CEN /TC 350/WG8	Sustainable refurbishment

### 3.4 Sustainable Development Goals and standardisation

ISO/TC323 committee contributes to the following Sustainable Development Goals:



NSAI/TC66 Committee also acknowledges that this work contributes to Sustainable Development Goal 17 – “Partnerships for the goals”.

NSAI/TC66 supports NSAI commitment to the ISO Declaration on Gender Responsive Standards and acknowledges that applying a gender lens to the work of standardisation can bring us closer to achieving the Sustainable Development Goals.

## 4 Structure and Membership

### 4.1 Structure of NSAI/TC66

It is foreseen as this area grows a high level expert group will be established and participate in NSAI TC/66 and will be informed by the activities of its sub committees (SC's) , working groups (WG's) and external stakeholders/interested parties

### 4.2 Structure of NSAI/TC66/SC1

Table 3 outlines the structure NSAI/TC66/SC1 and its relationship with ISO/TC323.

**Table 3- NSAI/TC66/SC1/WG and relationship to ISO Technical Committee 323 and Working Groups**

NSAI/TC66	Title	Mapped to Name
NSAI/TC66/SC1/WG1	Frameworks and principles for implementation	ISO/ TC 323/WG1
NSAI/TC66/SC1/WG2	Guidelines on business models and value chains	ISO/ TC 323/WG2
NSAI/TC66/SC1/WG3	Measuring circularity framework	ISO/ TC 323/WG3
NSAI/TC66/SC1/WG4	Circular Economy in practice; experience feedback	ISO/ TC 323/WG4
NSAI/TC66/SC1/WG5	Product circularity	ISO/ TC 323/WG5

Table 4 outlines the structure of NSAI/TCV066/SC1 and the appointed Convenors of each of its working groups

**Table 4- NSAI/TC66/SC1/WG Structure**

NSAI/TC066	Convenor Role held by
NSAI/TC66/SC1/WG1	Amber, TCD
NSAI/TC66/SC1/WG2	IMR
NSAI/TC66/SC1/WG3	TCD
NSAI/TC66/SC1/WG4	Murphy Group
NSAI/TC66/SC1/WG5	Product Circularity Index

#### 4.2.1 Members of NSAI/TC66/SC1

Table 5 lists the membership for 2022.

**Table 5 – Member list for 2022**

Organisation	Role
IMR	Chair
NSAI	National Secretary
ARUP	Member
AMBER, TCD	Member
Bangor University	Member
Beauparc	Member
DCCAE	Member
EPA	Member
Fingal County Council	Member
GMIT	Member
IBEC	Member
IMR	Member
Jacobs	Member
Murphy Group	Member
NCAD	Member
Rediscovery Centre	Member
SYSPRO	Member
Trinity College Dublin	Member
University College Cork	Member
University of Limerick	Member
Up Thinks Works	Member
Huawei	National Observer

#### 4.3 Structure of NSAI/TC66/SC2

Table 6 outlines the structure NSAI/TC66/SC2 and its relationship with CEN TC/350.

**Table 6- NSAI/TC66/SC2/WG and relationship to ICEN Technical Committee 350 and Working Groups**

NSAI/TC66	Title	Mapped to Name
NSAI/TC66/SC2/WG1	Frameworks and principles for implementation	ISO/ TC 323/WG1
NSAI/TC66/SC1/WG2	Guidelines on business models and value chains	ISO/ TC 323/WG2
NSAI/TC66/SC1/WG3	Measuring circularity framework	ISO/ TC 323/WG3
NSAI/TC66/SC1/WG4	Circular Economy in practice; experience feedback	ISO/ TC 323/WG4
NSAI/TC66/SC1/WG5	Product circularity	ISO/ TC 323/WG5

Table 7 outlines the structure of NSAI/TCV066/SC2 and the appointed Convenors of each of its working groups

**Table 7- NSAI/TC66/SC2/WG Structure**

<i>NSAI/TC066</i>	<i>Convenor Role held by</i>
NSAI/TC66/SC2/WG1	Amber, TCD
NSAI/TC66/SC1/WG2	IMR
NSAI/TC66/SC1/WG3	TCD
NSAI/TC66/SC1/WG4	Murphy Group
NSAI/TC66/SC1/WG5	Product circularity

#### 4.3.1 Members of NSAI/TC66/SC2

Table 8 lists the membership for 2022.

**Table 8 – Member list for 2022**

<b>Organisation</b>	<b>Role</b>
ARUP	Chair
NSAI	National Secretary
AMBER, TCD	Member
Bamcontractors	Member
Barnmore Demolition	Member
Carrig Homes	Member
CIWM	Member
DCCAIE	Member
DHLG	Member
Dublin City Council	Member
ECOCEM	Member
EPA	Member
GMIT	Member
IGBC	Member
IMR	Member
IMSIRL	Member
Jacobs	Member
OGP	Member
McNally Living	Member
SISK	Member
TCD	Member
TII	Member
WSP	Member



## 5 Summary of 2022 Activities

### 5.1 National

#### 5.1.1 Meetings

Committee meetings held in NSAI during 2022 are shown in Table 9 and Table 10.

**Table 9 – Committee meetings held in 2022 for TC66 SC1**

Meeting No.	Date	Venue
1	10 <sup>th</sup> May 2022	Online Zooms
2	8 <sup>th</sup> September 2022	Hybrid - NSAI Head Office, Dublin
3	13 <sup>th</sup> December 2022	Online Teams

**Table 10 – Committee meetings held in 2022 for TC66 SC2**

Meeting No.	Date	Venue
1	25 <sup>th</sup> January 2022	Online Zooms
2	24 <sup>th</sup> March 2022	Online Teams
3	16 <sup>th</sup> June 2022	Online Teams
4	10 <sup>th</sup> August 2022	Online Teams

### 5.2 National Work

The 2022 National work for NSAI/TC66 was to focus on the provision of inputs to preliminary work items (PWI's) and then draft documents produced by ISO/TC323 and CEN TC350 and its working groups and advising NSAI on any open ballots.

### 5.3 International

#### 5.3.1 Meetings

A Plenary Meeting of ISO/TC323 was held in October 2022 in Kagali, Rwanda which was attended by one NSAI expert in person and 5 NSAI Tc66 committee members online. The working groups of ISO/TC323 had workshops/meeting during the week long Plenary Meeting in Kagali. Working Groups 1, 2 and 3 of ISO TC 323 meet throughout the year on 3 of the ISO 59000 standards series. The 3 standards were ISO 59004, ISO 59010 and ISO 59020. Representatives from NSAI TC66 were actively involved in these 3 working groups with ISO TC323 WG1 being chaired by NSAI expert.

#### 5.3.2 International Work

In 2022, the work programme for ISO/TC323 along with the work groups consisted of the following work items:

- ISO/CD 59004: Circular economy — Framework and principles for implementation
- ISO/CD 59010: Circular economy — Guidelines on business models and value chains
- ISO/CD 59020 ; Circular economy — Measuring circularity framework
- ISO/CD 59040 : Circular economy — Product Circularity Data Sheet
- ISO/CD TR 59032.2:-Circular economy - Review of business model implementation
- ISO/CD TR 59031 : Circular economy – Performance-based approach – Analysis of cases studies

### 5.3.3 International Voting Results

The National Committee participated in the following ballots opened by ISO/TC323.

Ballot Reference	Comments Rec'd	Decision	Ballot closed date
CIB – ISO 59020 – Proposal for including requirements	Yes	Approved	2023-01-10
Draft resolution C23/2022 - Creation of Category A liaison ICDPASO	No	Approved	2023-01-10
Draft resolution C6/2022 - Category C liaison with CORALIS	No	Approved	2022-10-09
CIB - Comments on ISO IEC CD 82474-1 Material declaration	Yes	Disapproved	2022-10-17
TC 323 meeting - Survey to estimate number of participants	No	Disapproved	2022-03-24

NOTE: Internal ballots raised by ISO/TC323/WG's are not recorded or tracked in system.

## 5.4 Regulatory Development/Update

NSAI/TC66 is currently not engaged in any standards development work of a regulatory nature.

## 6 Irish Publications/Reviews

### 6.1 Publications

The NSAI TC66 Committee did not publish any indigenous standards in 2022 and it is not foreseen that the production of indigenous standards will be part of its scope in the future.

### 6.2 Reviews

In the absence of indigenous Irish Standards reviews were not undertaken during 2022.

## 7 Work programme for 2023 onwards

- Because of the international nature of ISO/TC323, NSAI/TC66 will continue to contribute to standardisation work at the international level and at European level when standards work commences therein.
- NSAI/TC66/SC1 will continue to engage in the work of input as necessary to the ISO/TC323 work programme.
- NSAI/TC66 SC2 will continue to engage in the work of input as necessary to the CEN/TC 350 work programme.

.....End of Report .....