



ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEES

INNOVATION MANAGEMENT – NSAI TC45

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1 Chairman's Statement

I am happy to present this annual report on behalf of the NSAI Innovation Management Committee (NSAI TC45) for 2020. As we review, 2020 was certainly a challenging year for all of us, between the continuation of our disrupted work routines and ongoing tragic loss of life due to Covid, locally and globally. Our NSAI TC 45 Innovation Committee grew in members as the value and benefits of having an ISO Innovation Management System grew due to the excellent external messaging by all the committee members and NSAI. The main game changer during 2020 was the awarding of a fund to design and develop a digital innovation scorecard for companies of all types, aligned to the new ISO 56000 series of guide standards. This initiative was led by David Keeley of Enterprise Ireland, Helen Burke, IDA and Breda O'Brien of DPER Innovation team within the Public Service - with support from Paul Killeen of NSAI and myself in my role as chair of TC45 at the official 'innovation scorecard' launch during DPER public service innovation week.

This innovation scorecard initiative involved many of our TC45 experts in supporting roles and pilot testing as these assessment tools were being designed and developed during 2020 to help ensure usability of the tools. In parallel, the TC45 committee took on the role to support a special ISO Task Force to review and refine their SME guide handbook, evolved from the ISO 56002 - to help make it more comprehensible for any business owner to read and understand the practical benefits innovation could deliver for them. This SME Guide will be published through ISO jointly with UNIDO, and we will review the final version when it is published and adapt it for the Irish market and our emerging challenges during 2021/2.

Additionally, NACEC, the National Association for Community Enterprise Centres, also started exploring a programme to bring Quality Management and Innovation principles and standards to their members and this work is ongoing - again supported by the TC45 Committee.

I think we all agree that there will be major changes in the coming years as we emerge from this pandemic, with many unknown consequences which will impact on how we do business. The innovative mindset is to create our future, by innovating in a structured process and creating new hybrid services and products to build on the beneficial aspects and new routines that have emerged as a result of the various Covid restrictions. Ireland and our SMEs, MNC and public service organisations can leverage the ISO 56000 series of guide standards - leading with confidence to address the major global challenges around climate change, sustainability, and digitisation by scaling our services and customer experiences successfully in international markets. It has never been a more relevant time to be innovative and this practical ISO 56000 series of guidance standards can give our ambitious leaders a systematic framework system to follow for future socio-economic impact.

I'd like to say a great 'thank you' to each of the TC45 team members for their energy and voluntary involvement, and belief in the value this ISO series of guide standards will give to our SMEs, who now need better customer and consumer outcomes and experiences to compete in global and highly competitive markets.

Finally, I also want to thank the NSAI for their constant support to Irish Industry in facilitating and supporting the TC 45 team on the national roll out and adoption of ISO 56000 series by our national innovation policy and funding programme influencers and managers.

Sean McNulty, Chair of NSAI TC45 on Innovation Management

Introduction

Standards on innovation management will allow International and Irish organisations, particularly SMEs, to share their best practices across various aspects of innovation management. This will facilitate collaboration and also develop the capability of Irish-based companies to innovate and to bring new innovations successfully to competitive global markets.

Innovation is key to global competitiveness and human and technological progress over the coming decades. International management system standards on innovation will help break down the existing cultural, structural and organisational obstacles among/between organisations. These standards will provide best practices to support the implementation of innovation policies and best practices in SMEs, public institutions, universities, research & innovation centres and non-profit organisations.

To achieve this goal the work focuses on a management system for innovation, with supporting 'Tools & Methods'. The ISO 56000 Series of Innovation Management guidance standards address: terminology, tools and methods such as open innovation, design innovation, strategic intelligence, intellectual property management, creativity/idea management and also assessment of innovation management practices in all types of organisations.

Innovation Policy - Standards as Key Enablers of SME Productivity & Growth

The stated vision of Innovation 2020 – the current National strategy for research and innovation – is for Ireland to move from its current position as an 'innovation follower' in the European Innovation Scoreboard, to a 'Global Innovation Leader'. To help make this vision a reality, a key government strategy within Innovation 2020 is to '*promote standards and regulations as a source of competitive advantage*'. In this context, NSAI has been given the following specific Action under Innovation 2020: "*Work with firms to stimulate and support the embedding of standards and regulatory compliance into their R&D (& Innovation) processes*"

The development and implementation of International ISO standards on systematic (versus ad hoc) Innovation Management within Irish-based companies, particularly SMEs, will help deliver on this key action for Ireland over the coming years. NSAI is proud to support this 'innovation transformation' of Irish-based enterprises and public sector organisations via our NSAI TC45 'national mirror committee' consisting of Irish-based innovation management experts from industry (including Start-ups, SMEs and MNCs), academia and public sector bodies - working in close collaboration with our Enterprise Ireland colleagues and other key national innovation stakeholders, including LEOs, Skillnet Ireland¹, IDA, NACEC² and various other public sector organisations throughout 2020. As outlined in their comprehensive report³ and related roadmap⁴ launched in 2019, the OECD placed a strong emphasis on the potential for increased engagement in international standards

¹ Skillnet Ireland's mandate is to advance the competitiveness, productivity and innovation of Ireland businesses through enterprise-led workforce development

² National Association of Community Enterprise Centres (NACEC) is a network of 120 community enterprise centres in the Republic of Ireland supporting Start-ups and SMEs

³ *SME and Entrepreneurship Policy in Ireland (OECD, October 2019)*

⁴ *A Road Map for SME and Entrepreneurship Policy in Ireland - A report by the Centre for Entrepreneurship, SMEs, Cities and Regions of the Organisation for Economic Co-operation and Development (OECD, October 2019)*

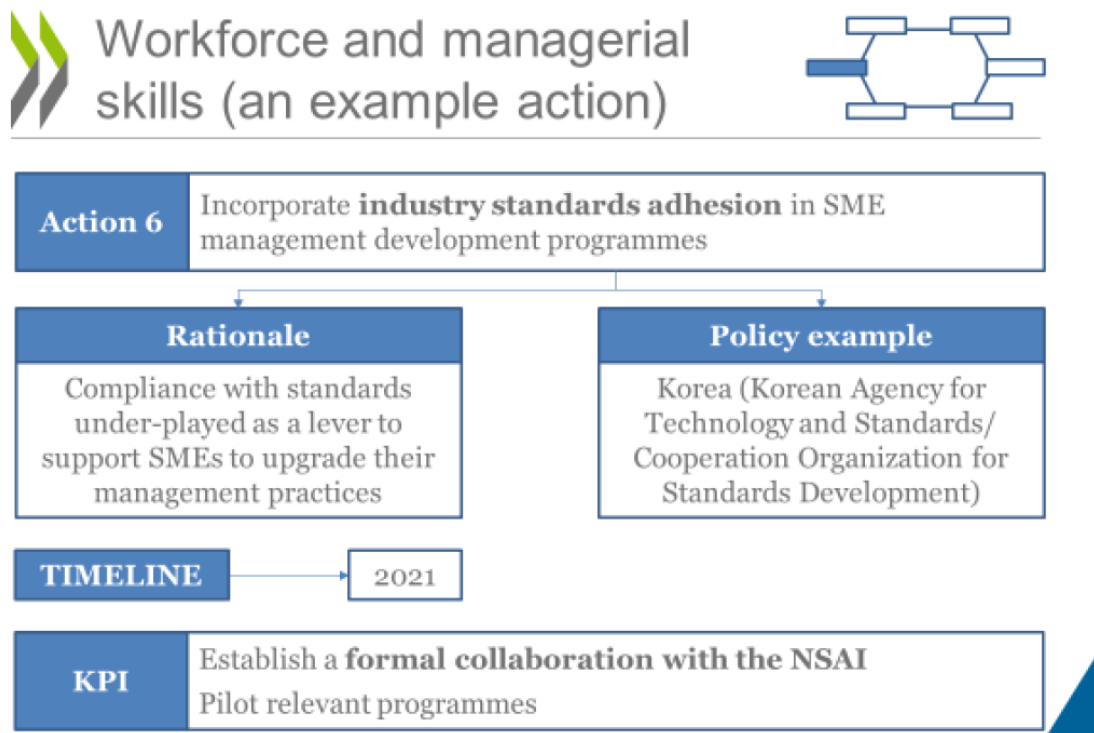
development and use to help improve the capabilities, competitiveness and productivity of Irish SMEs. According to the OECD, Ireland’s levels of direct SME exports are very low by international standards, with only about 6% of Irish SMEs directly trading across borders. As stated in the OECD roadmap for Ireland:

Internationalisation commonly plays a key role in building the productivity, innovation, income generation and niche specialisations of SMEs. Across the world, exporters have been shown to be larger, more productive, more skill- and capital-intensive, and to pay higher wages than non-exporting firms. Evidence indicates that Irish SMEs “learn by export”, i.e. improve their productivity by entering and expanding into foreign markets.

Of course, engagement in international standards development and use can directly support the type of productivity improvement alluded to above by the OECD, including via the implementation of the ISO 56000 series on systematic Innovation Management. In relation to the potential for standards to improve SME productivity in Ireland, the OECD report states:

One of the potential levers that has not yet been fully explored in this respect is working with SME management on compliance with international industry standards as a vehicle for upgrading management practices.

At the launch of the OECD report in October 2019, the OECD presented the slide below – again emphasising the role of standards in helping to ‘upgrade (SME) management practices’.



The following section is taken directly from the OECD Roadmap⁵ report presented to the Irish government in October 2019, in the context of the above OECD slide / recommendation.

Action 11: Incorporate industry standards adherence in SME management development programmes

Action

- *Collaborate more closely with the National Standards Authority of Ireland (NSAI) when delivering business development services to SMEs in the form of information, advice, consultancy, mentoring and management training on industry standards adoption.*
- *Include “high potential” SMEs with export ambitions and/or the potential to become part of the value chains of multinational enterprises as a specific target group for this support.*

Rationale

Industry standards are requirements, guidelines, specifications or characteristics that firms apply consistently to ensure that products, processes, materials, and services are fit for purpose. Standards play a key role for quality assurance, enhancing interoperability and technology adoption, and facilitating the division of labour. Compliance with industry standards could be a lever to support SMEs to upgrade their management practices more generally. They are also often critical to enable SMEs to meet the quality requirements of multinational firms, thus facilitating their insertion into supply chains and other modes of collaboration. Adoption of industry standards by SMEs can also support the development of Intellectual Property (IP) and enable e-commerce, as illustrated by the example of the European standard on e-invoicing. Although industry standards adoption does form part of the advice that business development services providers will offer to some SMEs, it is not a systematic part of the business development services system and there seems to be a lack of awareness of the benefits of standards within the Irish policy context.

The NSAI TC45 innovation management committee will continue its efforts during 2021 and beyond to help address the above OECD recommended action, specifically in the context of the broad national roll-out and adoption of best international practices in the systematic (versus ad hoc) and strategic management of innovation across Irish SMEs, as outlined in the new and evolving ISO 56000 series of guidance standards.

⁵ *A Road Map for SME and Entrepreneurship Policy in Ireland - A report by the Centre for Entrepreneurship, SMEs, Cities and Regions of the Organisation for Economic Co-operation and Development (OECD, October 2019)*

2 Scope of TC

The NSAI TC 45 technical committee mirrors the following international committees:

Committee Name	Committee Title
ISO/TC 279	<p>Innovation Management</p> <p>This is now the active international TC on Innovation Management, following on from the initial work of CEN TC 389. Refer to section 4 below for details on structure, work programme etc. In summary, the current ISO TC 279 working groups are as follows:</p> <ul style="list-style-type: none"> - WG1 “Innovation management system” - WG2 “Terminology, terms and definitions” - WG3 “Tools and methods” - TF1 Taskforce for SME Handbook on ISO 56002
CEN/TC 389	<p>Innovation Management</p> <p>This CEN committee produced the 7-part Technical Specification: CEN/TS 16555 Parts 1-7</p> <p>NOTE: The European Technical Specifications are being replaced by their ISO 56000 series equivalents by the adoption of the relevant ISO 56000 series guidance standards as ENs (European Norms / Standards) over the coming months and years.</p>

3 Structure and Membership

3.1 Structure

The table below illustrate the structure of the ISO TC 279 Committee, which is mapped directly by NSAI TC45.

STRUCTURE		LIAISONS	MEETINGS
REFERENCE ↓	TITLE		
ISO/TC 279/STTF ⓘ	Spanish translation task force		
ISO/TC 279/TF 1 ⓘ	Taskforce for the Handbook ISO 56002		
ISO/TC 279/WG 1 ⓘ	Innovation management system		
ISO/TC 279/WG 2 ⓘ	Terminology, terms and definitions		
ISO/TC 279/WG 3 ⓘ	Tools and methods		

3.2 Members

The table below includes the NSAI TC 45 members during the year 2020:

Name	Organisation	Committee Role
Sean McNulty	Dolmen Design & Innovation (Managing Director, Dolmen)	Chair
Joe Doyle	Enterprise Ireland (Intellectual Property Manager, EI)	Member
Dave Feenan	ICT Skillnet & Technology Ireland Innovation Forum (Manager)	Member
David Trevitt	Innovation Consultant & Innovation Management Lecturer in Maynooth University MSc programme	Observer
Anthony McCauley	Fujitsu (Head of Research and Development)	Member
Stephen Smith	Innovation Consultant	Member
Dr Bill O’Leary	J&J Depuy Synthes	Member
Eoin Flavin	Innovation Consultant	Member
Prof Gerry Byrne	Innovation Consultant GBI Ltd.	Member
Laurence Knell	Innovation Consultant StrategicInnovation.ie	Observer
Mary White (Tomey)	Evoquent IP	Member
Nikos Minas	Hanna Moore + Curley, IP Attorneys (European Patent Attorney, IP Strategy lead)	Member
Keith Finglas	Innovation Delivery Ltd. Innovation Consultant	Member
Leo Clancy	IDA Ireland (Head of Technology, Consumer & Business Services)	Member
Aileen Deasy	Bord Iascaigh Mhara (BIM) Innovation Facilitator	Member
Charlie Tuxworth	Innovate XL Innovation Consultant	Member
Alan Doherty	Citi Innovation Lab Dublin (Head of Innovation Design)	Member
Dr Peter Robbins	DCU Business School (Assistant Professor)	Member
Ronan Coleman	Innovation and Enterprise Office, MTU (Commercialisation Specialist)	Member
Dave Townley	CTO Neurent Medical	Member

Colm O Rourke	NSAI Medical Devices (Industry Engagement)	Member
Dr Anu Sahni	National College of Ireland / NCI (Program Director Innovation & Commercialisation)	Member
Aideen O'Hora	SustainabilityWorks (Business & Innovation Consultant)	Member
Derek Bridges	Ariadne Consultants	Member
Helen Burke	IDA	Member <i>(new 2020)</i>
David Walsh	NSAI - Market and Regulatory Support	Member <i>(new 2020)</i>
Breda O'Brien	DPER Innovation Team	Member <i>(new 2020)</i>
Adrian Cronin	Ervia	Member <i>(new 2020)</i>
Tom Quinn	LFQ Consulting	Member <i>(new 2020)</i>
Kathryn Lynch	Chronos Consulting	Member <i>(new 2020)</i>
David Keeley	Enterprise Ireland	Member <i>(new 2020)</i>
Sven Spollen-Behrens	SFA (Small Firms Association, Ibec)	Member <i>(new 2020)</i>
Gary O'Meara	NACEC - National Association of Community Enterprise Centres	Member <i>(new 2020)</i>
Paul Gilsean	Abcon Ireland	Member <i>(new 2020)</i>
Joan Hyland	Mergon	Member <i>(new 2020)</i>
James Hubbard	Centre for Excellence in Universal Design, National Disability Authority	Member <i>(new 2020)</i>
Clare Dillon	NuaWorks	Member <i>(new 2020)</i>
William Egenton	Dromone Engineering	Observer
Bernadette McGahon	IRDG	Observer
Paul Killeen	NSAI	Committee Manager

New Members, 2020

As outlined in the table above, 13 new members joined NSAI TC45 during 2020

3.3 Liaisons, ISO TC 279

ORGANIZATIONS IN LIAISON (CATEGORY A AND B)

ACRONYM ↓	TITLE	CATEGORY
CERN	European Organization for Nuclear Research	A
EPO	European Patent Office	A
FICPI	Fédération Internationale des Conseils en Propriété Intellectuelle	A
ISPIM	International Society for Professional Innovation Management	A
LESI	Licensing Executives Society International	A
OECD	Organisation for Economic Co-operation and Development, OECD	A
The World Bank	The World Bank Group	A
UNDP	United Nations Development Programme	B
UNESCO	United Nations Educational, Scientific and Cultural Organization	A
UNIDO	United Nations Industrial Development Organization	A
WIPO	World Intellectual Property Organization	A
WTO	World Trade Organization	A

As illustrated above, during 2020 ISO TC 279 had active liaison relationships with key international players in Innovation Management, including OECD, EPO, WIPO, UNESCO, UNIDO, LESI, World Bank and others who are actively following and participating in the ISO TC279 work programme. For example, per NSAI TC45 manager discussions with the ISO TC279 secretary and Chair, the future revised version of the influential and highly cited OECD Oslo manual on innovation will be aligned with the outputs from ISO TC279. The Chinese and many other countries (47 Participating and 19 Observing members during 2020) are also heavily involved in ISO TC 279 work programme, such that ISO believe the outputs from ISO TC 279 could well be the basis for ‘the next ISO 9000 series’ of key International management system standards, to support the systematic management of innovation systems in organisations of all types and sizes globally.

4 Summary of 2020 Activities

4.1 Meetings & Events

Committee members attended the following national meetings and events:

Date	Notes – National & International Meetings / Events
10-Feb-2020	N284 - Minutes & Actions. Meeting in NSAI Swift Square
06-Apr-2020	N300 - Minutes & Actions. Online Meeting given Covid lockdown (online meetings for all other meetings during 2020 listed below)
15-July-2020	N308 - Minutes & Actions
02-Sept-2020	N317 - Minutes & Actions
11-Nov-2020	N327 - Minutes & Actions
05-Mar-2020	CEN/TC 389 - Plenary meeting. Discussed European adoption of ISO TC 279 standards as European standards (and hence, subsequent adoption as Irish standards)
11-15 May 2020	ISO TC279 Plenary & WG Meetings (Paris/Virtual)
10-Sept-2020	CEN CENELEC Standards + Innovation Awards, 2020
14-Oct-2020	NSAI Innovation Awards - Standards Forum
Ongoing	Training: NSAI Committee manager provided training on ISO standards development process and related online Livelink document management & alerts system for new TC45 members

4.2 National Work

See 'Notes' in table above, and additional information below.

Innovation Maturity Assessment for Ireland – based on ISO 56000 Series

During 2020, the committee discussed 'innovation maturity assessment' frameworks based on the ISO 56000 Series. Sweden developed and deployed such a tool, and Enterprise Ireland (EI) and IDA are developing similar versions for their clients. The following is a summary of the 3 types of planned EI innovation maturity assessments:

- **Basic** innovation framework: based on the ISO 56000 series 'innovation principles'. IDA also planning on using this framework for their 'small FDI clients'
- Online Innovation **Scorecard** Questionnaire: a more detailed innovation maturity assessment, in the form of an online self-assessment questionnaire with 9 sections, taking about 15-20 minutes to complete. When completed, the client company 'will receive an automatically generated tailored report that will contain a high-level analysis and proposed actions based on the user responses. This tool will be useful for clients with limited knowledge or experience of 'innovation management', as a first step on their innovation journey and a way for EI to gauge their level of current innovation capabilities, and hence appropriate EI supports. EI is open to exploring ways of making this tool widely available to all SMEs and related supporting organisations nationally e.g. LEOs, SFA etc

- **Detailed Diagnostic:** this will be a more in-depth maturity assessment based on the original EI 'Innovation Health Check' diagnostic tool that was itself based on the older CEN/TS 16555 series of Innovation guidance specifications. The EI plan to is complete this comprehensive assessment as part of a facilitated client engagement process that would include a number of senior people from the client organisation and would take place face-to-face over a number of hours or days. Suitable for clients with high level of innovation capabilities & experience versus the 'scorecard' clients – some scorecard clients may of course progress to the full 'innovation assessment' over time.

The official **launch of the 'innovation scorecard'** (the DPER version for public sector organisations – based on the EI version) took place on 23rd October as part of 'Our Public Service Innovation Week' via a webinar entitled '*Innovation: What's the score? Score a successful first step in your innovation journey*'. Four members of NSAI TC45 participated in the launch webinar – David Keeley, Sean McNulty, Breda O'Brien and Paul Killeen. A video of the webinar is available [here](#).

The NSAI brochure on the ISO 56000 Series was also made available via the DPER Innovation website – see [here](#).

Design for All (Universal Design) & Innovation Management

James Hubbard presented to all TC45 members on the links between 'Universal Design' (UD) or 'Design for All' and 'Innovation' in general, and specifically the connections between the new Europe standard on design for all / universal design (I.S. EN 17161) and ISO 56002.

- James is chair of the European Standards Technical Committee 'CEN/CLC/JTC 12 - Design for All' that developed EN 17161, and as per all ENs it was subsequently adopted by Ireland / NSAI as I.S. EN 17161. See here for JTC 12 website.
- 'Universal Design is the design and composition of an environment so that it can be accessed, understood and used to the greatest extent possible by all people regardless of their age, size, ability or disability'. By 'Oversampling the tails (extremes) of the distribution curve' designers / innovators can 'inform Universal Design and inspire innovation' for all users / customers, not just those with disabilities. In summary it takes account of human diversity to extend the range of potential users of innovative products and services.
- In line with the 'UN Convention on the Rights of Persons with Disabilities', James pointed out that 'Directive 2019/882 on the accessibility requirements for products and services' places a legal obligation on organisations in the EU.
- James summarised the scope of EN 17161 (a 'hEN') as follows:
 - Specifies requirements that can enable an organisation to meet applicable statutory and regulatory requirements related to the accessibility of its products, goods and services.
 - The requirements are generic and are intended to be applicable to all relevant parts of all organisations, regardless of type, size or products, goods and services provided.
 - Promotes accessibility following a UD/Design for All approach in mainstream products and services, and interoperability of these with assistive technologies.

As ISO 56002 references 'design' as a key element of innovation, all should be aware of the links between 'design for all' (EN 17161) and innovation for all users, per the ISO 56000 series.

4.3 International/Regional Work & Standards Reviewed and Voting Results – 2020

Published International Standards

- ISO 56000:2020 Innovation management - Fundamentals and vocabulary
- ISO 56005:2020 Innovation management - Tools and methods for intellectual property management – Guidance

Ballots & Voting Results

Reference	Title	Decision
FprCEN ISO/TR 56004	Innovation Management Assessment - Guidance <i>Direct European adoption of published ISO TR 56004:2019 (Supersedes CEN/TS 16555-7:2015)</i>	Approved
EN ISOs	Adoption of 5 x ISO 56000 Series standards as EN ISOs (replacing related & older CEN TSs) NWI EN ISO 56000 NWI EN ISO 56002 NWI EN ISO 56003 NWI EN ISO 56007 NWI EN ISO 56008	Approved
ISO/FDIS 56005	Innovation management – Tools and methods for intellectual property management – Guidance	Approved
ISO/DIS 56006	Innovation management – Tools and methods for strategic intelligence management – Guidance	Approved
prEN ISO 56000	Innovation management - Fundamentals and vocabulary (ISO 56000:2020)	Approved
prEN ISO 56002	Innovation management - Innovation management system - Guidance (ISO 56002:2019)	Approved
prEN ISO 56003	Innovation management - Tools and methods for innovation partnership - Guidance (ISO 56003:2019)	Approved
ISO Plenary – Resolutions	ISO/TC 279 Plenary - 8 draft resolutions taken by correspondence N319	Approved - 7 Abstained (comments)- 1
ISO 56001 - NWIP	Innovation management – Innovation management system – Requirements	Approved (with comments)

ISO/UNIDO Handbook on ISO 56002 for SMEs via ISO Task Force

The chair of TC45, Sean McNulty, facilitated extensive committee discussions and inputs to ISO TC279 Task Force on development of an 'SME Handbook' (based on an initial draft document developed by chair of ISO WG1 for UNIDO – United Nations Industrial Development Organisation). The following in a summary:

- concerns expressed by members on the draft SME Handbook, many felt far too long and not currently fit-for-purpose for Irish SMEs. Based on past experiences, members also felt it could be better to ignore the current draft document and start afresh with a totally new approach that would enable a better development process and outcome. TC45 members would like / want the 'SME Handbook' to add real & practical value to Irish SMEs who may not be expert (or even familiar in any way) with 'innovation management', and who certainly would not have time to read a long 'academic-type book' of a guide to the ISO 56002 (and planned 'Layman's guide' to 56000) standards. Also, more visuals and more innovative and contemporary content and 'format' suggested by members
- Sean compiled inputs via TC45 members and arranged a call with Handbook taskforce leader - Johan Claire of France - and TC45 handbook taskforce sub-group members to discuss TC45 inputs on the SME Handbook in advance of ISO plenary meetings in May
- the key 'Introduction' section will be useful for SME & Micro enterprises, and 'introduction' being led by Irish TC45 experts (Sean & TC45 taskforce including Charlie Tuxworth, Eoin Flavin, Alan Doherty, Joan Hyland, Kathryn Lynch)

5 Irish Publications/Reviews

The Committee did not publish any Irish-specific standards deliverables this year.

6 Work programme for 2021 onwards

The NSAI TC45 strategy is to continue to actively engage in the development of the various emerging ISO TC 279 standards over the coming year and beyond.

A particular focus will be the continued National roll-out of the initial ISO 56000 series of standards. Such a broad roll-out will support and enable NSAI actions under Innovation 2020 and Enterprise 2025, and the national vision therein of positioning Ireland 'Global Innovation Leader'. The widespread introduction of systematic (vs ad-hoc) innovation management practices as outlined in the ISO 56000 series will also help indigenous Irish SMEs to deliver much needed improvements in productivity and international competitiveness – as outlined in the OECD report on SME Productivity in Ireland published in 2019.

Below is a summary of the current approved work programme for ISO TC 279.

STANDARD AND/OR PROJECT UNDER THE DIRECT RESPONSIBILITY OF ISO/TC 279 SECRETARIAT (s) ↓	STAGE
<p>Ⓞ ISO/AWI 56001 Innovation management – Innovation management system – Requirements</p>	20.00
<p>Ⓞ ISO/FDIS 56006 Innovation management – Tools and methods for strategic intelligence management – Guidance</p>	50.20
<p>Ⓞ ISO/AWI 56007 Innovation management – Tools and methods for idea management – Guidance</p>	20.00
<p>Ⓞ ISO/WD 56008 Innovation management – tools and methods for innovation operation measurements – Guidance</p>	20.20
<p>Ⓞ ISO/DTS 56010 Innovation management - Illustrative examples of ISO 56000</p>	30.60

7 Innovation Awards

European 'Standards + Innovation Awards' 2020 - Irish Winner

First Irish winner of the CEN CENELEC European 'Standards + Innovation Awards' 2020:



- News link on NSAI page, including video of award acceptance speech by winner - *Irish agri-food blockchain pioneer takes home the European 'Standards+Innovation' Award*
 - <https://www.nsa.ie/about/news/irish-agri-food-blockchain-pioneer-takes-home-the-european-standardsinnovat/>
- The start-up, Origin Chain Networks, uses Blockchain to create agri-food supply chain solutions. Founder and CEO at Origin Chain Networks (OCN), Fiona Delaney, picked up a prestigious award at the European Committee for Standardization's (CEN and CENELEC) "Standards+Innovation" Awards. The 2020 ceremony celebrates and acknowledge the important contributions of research and innovation to standardization across Europe.
- Fiona submitted a unique agri-food application of blockchain called Universal Farm Compliance to the ISO 'Blockchain and distributed ledger technologies' Standards Committee. Fiona is also co-editor of the overall ISO Blockchain Use Cases Standard – soon to be published

- The Universal Farm Compliance use case describes a blockchain-enabled platform available to farmers and agri-compliance bodies, facilitating rapid and near real-time data-sharing. Universal Farm Compliance helps farmers and the entire agri-food ecosystem to implement a safer, more transparent food supply chain, and advances digital transformation in the agri-food industry.

NSAI Standards Innovation Award

- Annual NSAI award for the integration of standards development and innovation in Irish-based organisations, to support competitive advantage for Irish companies in global markets
- Presented during the annual NSAI Standards Forum event
- The 2020 Innovation awards went to:
 - Dr Pamela Hussey – Director of Centre eIntregrated Care (CeIC) DCU and Dr.Subhashis Das – Post Doctorate researcher – CeIC, DCU
 - Fiona Delaney, Origin Chain Networks (OCN)