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This is an interesting and exciting time to be involved in European standardization. Looking back at 2015, we can say that CEN and CENELEC made positive progress in terms of growing our community, reinforcing our relationships with stakeholders and expanding our activities in new and emerging areas.

As technologies develop and new areas of activity emerge, innovative standardization solutions are required. To respond to this ever-changing environment, we have to provide the most appropriate platform that brings together a wide range of stakeholders from different sectors. CEN and CENELEC are actively involved in several areas where technologies are evolving rapidly - including digital technologies, cybersecurity, smart appliances and the Internet of Things (IoT), Intelligent Transport Systems (ITS), bio-based products, nanomaterials and nanotechnologies. In our Annual Report we provide an overview of our main achievements in 2015, and more information about our current activities can be found in our Work Programme 2016.

In order to develop standards that meet market needs and incorporate the latest innovations, all of our Technical Bodies depend on the participation of experts with relevant knowledge and experience. This is why CEN and CENELEC actively engage with the business community and seek to ensure that companies of all sizes are encouraged and supported to get involved in standardization activities.

Since June 2013, when the General Assemblies of CEN and CENELEC approved new rules regarding ‘Partnership with European Organizations and other stakeholders’ (CEN-CENELEC Guide 25), more than 250 European associations, consortia and federations have been accepted as Partner or Liaison Organizations of CEN and/or CENELEC. In 2015, over 50 Liaison Organizations were added to the list. Most of them are associations and federations representing businesses in different sectors, so they can make relevant and valuable contributions towards our standardization activities.

As part of our ongoing efforts to encourage and facilitate wider participation in standardization, we aim to make information available to all stakeholders. Following on from the ‘SME Toolbox of Solutions’ and the ‘Societal Stakeholders Toolbox’, in 2015 we launched the ‘CEN-CENELEC e-Learning Tool for SMEs’, which was developed in close cooperation with Small Business Standards (SBS).

We continue to develop our cooperation with societal stakeholder organizations such as ANEC, representing consumer interests, and ECOS, which represents environmental interests. In 2015, CEN signed a partnership agreement with the European Trade Union Confederation (ETUC). These stakeholder organizations play a key role in the European Standardization System, especially by providing experts who contribute vital perspectives and knowledge to the work of numerous technical bodies in CEN and CENELEC.

For over 30 years, European standardization has supported the implementation of European policies and legislation, and this role has been confirmed by EU Regulation 1025/2012. In 2015, CEN and CENELEC approved and published some 473 ‘harmonized’ standards which were intended for citation in the Official Journal of the EU, in support of specific Directives and Regulations. Furthermore, CEN and CENELEC accepted 14 new standardization requests from the European Commission. These included six requests for the development of standards relating to ecodesign and energy labelling of energy-related products, including one on material efficiency aspects – which is highly relevant for supporting the transition to a circular economy.

Standards facilitate market access and support international trade, which is why CEN and CENELEC continue to cooperate with the international standardization organizations ISO and IEC. At the end of 2015, 71% of all the standards in the CENELEC catalogue were identical to IEC standards, while 32% of standards in the CEN catalogue were identical to ISO publications. In those areas where no suitable international solution is available, we encourage our partners around the world to take-up ‘homegrown’ European Standards. In 2015, the Affiliates of CEN and CENELEC adopted almost 13 000 standards identical to European deliverables, while national standardization bodies in another 18 countries adopted more than 1 800 standards identical to European ones.

Reinforcing the links between standardization, research and innovation remains a major priority for CEN and CENELEC, following the completion of the ‘Bridge the Gap’ (BRIDGIT) project, which ended in 2015. We are developing our cooperation with the Commission’s Directorate-General for Research and Innovation, notably in the context of the Horizon 2020 programme, mainly by contributing to...
Meanwhile, as part of our ongoing efforts to reinforce our engagement with business and industry across a wide range of sectors, we are organizing a series of thematic workshops focusing on key standardization topics such as the circular economy, cybersecurity, digitalization and services.

The increasing role of digital technologies is spreading through society and affecting stakeholders across a wide range of sectors, creating new challenges and also new opportunities for standardization. I believe that CEN and CENELEC are ready to seize these opportunities, and show that standards can support the digital transformation of Europe's economy. To this end, we will continue to work with our national members, with our partner and liaison organizations, with the European Commission and EFTA, with ETSI, and with ISO and IEC.

Finally, I would like to express my gratitude to everyone who has contributed to the success of our activities over the past year. In particular: the Presidents, Vice-Presidents and Board Members of CEN and CENELEC; Members and Affiliates; Partner and Liaison Organizations; all of the experts who participate in our Technical Bodies, and the staff of the CEN-CENELEC Management Centre. Many thanks for all your hard work and dedication to standardization!

Looking ahead, we can already say that 2016 will be another exciting year for CEN and CENELEC. In the framework of the Single Market Strategy, we are participating in an exciting dialogue with the European Commission and a wide range of stakeholders to develop a ‘Joint Initiative on Standardization’, which is due to be finalized in June 2016.

European workshops to explain how standardization can support the dissemination and take-up of research results. Our collaboration with the Commission’s Joint Research Centre (JRC) and the European Association of Research and Technology Organisations (EARTO) is making good progress in the framework of the ‘Putting Science into Standards’ initiative.

It is crucial that EU officials and national authorities are aware of how the European Standardization System works, and all the ways in which standards can support the implementation of policies and legislation. In 2015, we finalized and published a European Guide on Standards and Regulation (CEN-CENELEC Guide 30), which is mainly intended for public officials, politicians and policy-makers. We also cooperated with the European Commission to organize an intensive half-day training session, which was attended by over 100 officials from various Directorates General and Services.

As part of our ongoing efforts to support the implementation of EU Regulation 1025/2012, CEN and CENELEC supported the Commission to develop a revised set of guidance documents (‘Vademecum on European Standardization in support of Union Legislation and policies’). Furthermore, in the context of the Commission’s Better Regulation Package, we are actively participating in discussions on how standardization can help to simplify and improve EU legislation in the framework of the Regulatory Fitness and Performance Programme (REFIT).

Through all of these dialogues, CEN and CENELEC are working with our partners to promote respect for the fundamental pillars of the European Standardization System, based on an inclusive multi-stakeholder model. We seek to strengthen the public-private partnership and actively promote standardization as a means to support the implementation of policies in areas where there is untapped potential. We know that our system delivers positive results, and we have a positive story to tell, so let’s spread the message as far and wide as possible!

Elena Santiago Cid
Director General of CEN and CENELEC
CEN-CENELEC PRESIDENTIAL COMMITTEE

MEMBERS OF THE CEN-CENELEC PRESIDENTIAL COMMITTEE FOR 2016

The CEN-CENELEC Presidential Committee (PC) is composed of the Presidents and Vice-Presidents of CEN and CENELEC (and, when applicable, their Presidents-Elect), plus the Director General of CEN and CENELEC. The PC is mandated by the Administrative Boards (CAs) of both organizations to address policy and strategic issues of common concern to CEN and CENELEC (not including sector-specific issues).

The Presidential Committee deals with a wide range of issues, including: membership (applications from potential new members, affiliates, etc.); relations with the European institutions; relations with societal stakeholder organizations; international cooperation activities; common communication and visibility activities; linking standardization with research and innovation; and the optimization of resources.

In those areas where CEN and CENELEC have decided to develop joint activities, the PC may set up joint advisory bodies or working groups. These include the CEN-CENELEC Joint Working Group on Education about Standardization (JWG-EaS), the CEN-CENELEC ‘Small and Medium-sized Enterprises’ Working Group (SME-WG) and the CEN-CENELEC Societal Stakeholders Group (SSG).

The PC oversees the development of joint technical activities and the setting up of joint CEN-CENELEC Technical Committees and Working Groups. It also deals with strategic issues relating to the European Standardization System as a whole, and the ongoing cooperation among the three European Standardization Organizations (CEN, CENELEC and ETSI). This cooperation is managed by the Presidents of the three organizations, who meet together on a regular basis as the CEN-CENELEC-ETSI Joint Presidents’ Group (JPG).
STANDARDIZATION ACTIVITIES IN 2015
While CEN and CENELEC continue to support separate standardization activities in their respective sectors and fields of competence, there are a number of areas in which both organizations are actively involved. CEN and CENELEC also collaborate with ETSI (the European Telecommunications Standards Institute) to coordinate standardization activities in several areas where digital technologies play a significant role.

By working together in areas of mutual interest, CEN and CENELEC are able to access and share knowledge and expertise from their respective communities. Such collaboration helps to ensure that European Standards and other standardization deliverables developed by CEN and CENELEC are up-to-date and state-of-the-art, meeting market needs and taking into account the views of all interested stakeholders.

In some cases, CEN and CENELEC are supporting common standardization activities, which are undertaken by joint technical bodies. In other areas, the two organizations are developing activities in parallel. Continuous coordination and sharing of information between the relevant technical bodies ensures that these activities are complementary, and that the resulting European Standards and other deliverables are mutually compatible.

CEN and CENELEC aim to ensure that accessibility is addressed during the development of standards for products and services. They cooperate with ISO and IEC so that issues relating to accessibility can be addressed in a coherent and systematic way, following a ‘Design for All’ approach. All of the relevant Technical Bodies within CEN and CENELEC are encouraged to follow a common set of ‘Guidelines for addressing accessibility in standards’ (CEN-CENELEC Guide 6, which is identical to ISO/IEC Guide 71). The overall aim is to ensure that products and services may be used by as many people as possible – including people with disabilities and older persons.

In 2015, the CEN-CENELEC Joint Working Group ‘Design for All’ (JWG 5) continued its work with the aim of ensuring that accessibility is addressed by relevant standardization activities, in line with EC request M/473 and in support of the European Disability Strategy 2010-2020. This ongoing work is being developed with the participation of interested stakeholders, including organizations representing people with disabilities and older people.

CEN’s Strategic Advisory Group on Accessibility (CEN/BT WG 213 ‘SAGA’) has also continued to focus on how to address and integrate accessibility following a ‘Design for All’ approach in standardization activities (in accordance with EC request M/473). In this context, the SAGA group prepared a report on the identification of priority areas where it is most urgent to take accessibility into account (such as electrical and electronic equipment and appliances, self-service machines and kiosks, packaging, etc.), and a work plan for carrying out the necessary standardization work in these areas.

In April 2015, CEN and CENELEC published an editorially updated version of the European Standard EN 301549 ‘Accessibility requirements suitable for public procurement of ICT products and services in Europe’, which was developed by the CEN-CENELEC-ETSI Joint Working Group on e-Accessibility (in response to EC request M/376).

Aerospace

CEN collaborates with the AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN) in the framework of a Cooperation Agreement. Under this agreement, standards and specifications are developed within ASD-STAN and then submitted to CEN for formal approval and publication as European Standards. In 2015, CEN published some 119 standards in the aerospace domain. CEN and ASD-STAN have also started work on preparing a new Cooperation Agreement that will align their procedures more closely with the requirements of EU Regulation 1025/2012, while continuing to ensure that their standards meet the needs of Europe’s aerospace industry.

Air Traffic Management

Standardization work in the area of Air Traffic Management (ATM) is managed by CEN’s Technical Committee ‘Air Traffic Management’ (CEN/TC 377). In 2015, CEN/TC 377 started work on the preparation of a new standard in relation to software for communications, navigation, surveillance and air traffic management (CNS/ATM) systems. CEN and CENELEC also met with officials from the European Commission to discuss the role of standards in support of the new EASA (European Aviation Safety Agency) Regulation.

Space

Standardization activities relating to the space industry are managed by a joint CEN-CENELEC Technical Committee ‘Space’ (CEN/CLC/TC 5), which works in close collaboration with the European Cooperation for Space Standardization (ECSS). In 2015, CEN and CENELEC published more than 20 new European Standards in relation to Space project management (EN 16601 series), Space product assurance (EN 16602 series) and Space engineering (EN 16603 series), while progress was made on numerous further standards in accordance with EC request M/496.

Bio-based products

CEN is developing European Standards and other deliverables covering horizontal aspects common to bio-based products, as well as standards for specific product groups such as bio-based solvents, surfactants, lubricants and plastics. Much of this work relates to standardization requests from the European Commission (M/430, M/491 and M/492).

In 2015, CEN published new European Standards dealing with the life cycle assessment of bio-based products (EN 16760) and how to determine bio-based content using radiocarbon analysis and elemental analysis (EN 16785-1). These standards were developed by CEN’s Technical Committee ‘Bio-based products’ (CEN/TC 411), which also finalized a European Standard on sustainability criteria for bio-based products (EN 16751).

Regarding standards for specific types of bio-based products: CEN published a new Technical Specification on
bio-based solvents (CEN/TS 16766 - developed by CEN/TC 411), while CEN/TC 19 ‘Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin’ prepared a draft standard setting out criteria and requirements of bio-lubricants and bio-based lubricants (FpEN 16807).

Explosives and pyrotechnics

European Standards in relation to fireworks and other pyrotechnic articles are developed by CEN's Technical Committee 'Pyrotechnic articles’ (CEN/TC 212). In 2015, CEN published six new European Standards relating to ‘Other pyrotechnic articles’ (EN 16263 parts 1-5, EN 16265), which were developed in response to EC request M/416. CEN also published five revised European Standards relating to ‘Fireworks, Categories F1, F2 and F3’ (EN 15947 parts 1-5), developed in the framework of EC request M/504. All of these standards will support the implementation of European Directive 2013/29/EU.

Fertilizers

The CEN Technical Committee ‘Fertilizers and liming materials’ (CEN/TC 260) is in charge of standardization work regarding methods for the analysis of fertilizers, as requested by the European Commission (M/335, M/418 and M/454) in support of Regulation (EC) 2003/2003. In 2015, CEN published a new European Standard for determining NBPT and NPPT content in urea based fertilizers using high-performance liquid chromatography (HPLC) (EN 16651). Furthermore, CEN/TC 260 proceeded with work to develop more than 20 other draft European Standards and amendments to existing standards.

CONSTRUCTION

CEN and CENELEC have more than 90 Technical Committees (TCs) developing standards that set out requirements and methods for testing the performance of various types of construction products and materials. ‘Harmonized’ European Standards (cited in the Official Journal of the European Union) provide a means for manufacturers to prepare declarations of performance (DoP) in accordance with the provisions of the EU Construction Products Regulation (CPR - 305/2011), and affix CE marking to their products.

In 2015, CEN and CENELEC finalized and approved 92 European Standards, which were offered to the European Commission for citation under the CPR. The Technical Boards of CEN and CENELEC also decided to set up a joint Working Group to discuss the implications of the CPR for the European Standardization System and develop a strategic approach towards the construction sector (CEN-CLC/WT WG 9). CEN also contributed to the preparation of a Workshop on the ‘Elaboration of maps for climatic and seismic actions for structural design in the Balkan region’, which was organized by the European Commission's Joint Research Centre in Zagreb (Croatia) in October 2015.

Structural Eurocodes

Eurocodes are a set of European Standards that relate to the structural design of building and civil engineering works. The European Commission has asked CEN (EC request M/515) to revise existing Eurocodes and extend the scope of structural Eurocodes. In 2015, CEN continued the preparatory work that will lead to the development of a new generation of Eurocodes. The Technical Committee ‘Structural Eurocodes’ (CEN/TC 250) has established several Working Groups and Project Teams, and has started revising the full series of Eurocodes to take account of new methods, materials, regulatory requirements and societal needs.

Energy Performance of Buildings

CEN/TC 371 coordinates the development of standards to promote the Energy Performance of Buildings (EPB) in accordance with a standardization request from the European Commission (M/480) to support the implementation of Directive 2010/31/EU. In 2015, CEN/TC 371 collaborated with ISO/TC 163 on developing a draft standard that sets out a general framework and procedures for assessing the Energy Performance of Buildings (pEN ISO 52000-1). Following approval by CEN and ISO, this new standard will be published both as a European Standard (superseding EN 15603:2008) and as an international standard (in the framework of the Vienna Agreement).

Building Information Modelling

Building Information Modelling (BIM) makes use of computer software applications to compile complete and integrated data about a building that can be easily shared among all the parties involved in the design, construction and maintenance of a building. Increasingly, public authorities in European countries may require the use of such electronic modelling technology in the context of public works contracts and design contests.

In 2015, CEN created a new Technical Committee on ‘Building Information Modelling’ (CEN/TC 442) which is cooperating with the ISO subcommittee ISO/TC 59/SC 13 ‘Organization of information about construction works’. CEN/TC 442 has started the process of adopting relevant ISO standards as European Standards, so that they may eventually be used in the context of public procurement.

Dangerous substances

CEN's Technical Committee ‘Construction Products - Assessment of release of dangerous substances’ (CEN/TC 351) prepares standardized methods to test the release of dangerous substances from construction products - in the framework of EC request M/366.

In 2015, CEN approved and issued a new European Standard setting out relevant terminology (EN 16687). CEN/TC 351 finalized a new Technical Specification specifying an Up-flow Percolation Test (CEN/TS 16637-3) and proceeded with work that will lead to the adoption of a new European Standard relating to “Determination of emissions into indoor air” (EN 16516 - based on CEN/TS 16516:2013).

CONSUMER PRODUCTS

The development of European Standards in relation to various types of consumer products is a major area of activity for CEN, which has more than 20 Technical Committees working in this field. Standardization work is being carried out in the framework of the relevant EU legislation, such as the General Product Safety Directive (2001/95/EC), Toy Safety Directive (2009/48/EC) and Cosmetics Regulation (EC/1223/2009).
STANDARDIZATION ACTIVITIES IN 2015

Child safety

The CEN Technical Committee ‘Safety of toys’ (CEN/TC 52) has proceeded to work on the revision of toy-related standards in line with the Toy Safety Directive (2009/48/EC), as requested by the European Commission (M/445). In 2015, CEN finalized and approved a revised edition of the European Standard on ‘Chemical toys (sets) other than experimental sets’ (EN 71-5), which is aligned with the requirements of Regulation (EC) 1272/2008. CEN also published several new and revised Technical Reports developed by CEN/TC 52, including CEN/TR 16918, which presents the results of a European Study on ‘Children’s mouthing behaviour in contact with toys’.

With regard to products other than toys, CEN approved a revised edition of the European Standard EN 13209-2, which sets out requirements and test methods for soft baby carriers, as prepared by CEN/TC 252 ‘Child use and care articles’ (under EC request M/264). CEN also published a series of Technical Reports with general safety guidelines for child use and care articles (CEN/TR 13387 parts 1-5).

Significant progress was made on developing and revising European standards in relation to various types of seats for children – including products such as high chairs, chair-mounted seats, table-mounted chairs and children chairs (in the framework of EC request M/527) as well as bathing equipment (under EC request M/464). CEN also proceeded with the development of standards relating to cot bumpers, children’s duvets, children’s sleep bags, mattresses for cots and suspended baby beds (in line with EC request M/497).

CEN’s Project Committee ‘Lighters’ (CEN/TC 355) worked to revise the European Standard EN 13869, which sets out safety requirements and test methods for lighters with the aim of preventing accidents involving children (under EC request M/427). Furthermore, CEN proceeded with the collection and analysis of anthropometric data regarding the physical characteristics of children across Europe, as part of an ongoing research project that will support the definition of requirements and test methods to enhance child safety.

Cosmetics

European Standards in relation to cosmetic products are developed by CEN’s Technical Committee on ‘Cosmetics’ (CEN/TC 392) in the framework of EU Regulation EC/1223/2009, and most of this work is carried out in collaboration with ISO. In 2015, CEN approved revised editions of four European Standards (also approved and published by ISO) relating to microbiological methods of analysis to detect the presence of different kinds of bacteria and fungus in cosmetics (in accordance with EC request M/426).

Electronic cigarettes

CEN has established a new Technical Committee ‘Electronic cigarettes and e-liquids’ (CEN/TC 437). This TC has started working on developing standardized test methods for electronic cigarettes devices, e-liquids and emissions, as well as standardized terminology for these products.

Defence

The CEN-CENELEC-ETSI Defence Standardization Coordination Group (DSCG), established in 2014, provides a European platform for relevant stakeholders to discuss issues related to standardization, notably regarding standards that could be applied in both civilian and military contexts (i.e. ‘dual use’ standards). The group facilitates the allocation of new work items and enables cooperation between CEN, CENELEC, ETSI and other standards developing bodies such as NATO and ASD-STAN. The secretariat of DSCG is provided by BSI, which is a member of both CEN and CENELEC.

In 2015, the DSCG agreed a methodology to collaborate with the European Defence Agency’s Material Standardization Harmonization Team (EDA-MSHT) on the definition of new proposals for work to develop dual-use standards. A proposal for run-flat combat tyres and protective shields was selected to be the pilot example for testing the methodology.
In the framework of the partnership agreement between the European Defence Agency (EDA) and CEN (signed in 2011), work has continued on maintaining the European Defence Standards Reference System (EDSTAR). EDSTAR is a database of references to standards and specifications, selected on the basis of consensus among industry and governmental organizations to be the best applicable for defence purposes. The EDSTAR maintenance process is supported by the French CEN member AFNOR.

Cybersecurity
European standardization activities related to cybersecurity are managed by the CEN-CENELEC-ETSI Cybersecurity Coordination Group (CSCG). This body also advises the technical boards of CEN, CENELEC and ETSI on technical and strategic matters related to Network and Information Security (NIS), data protection and supporting the digital economy. During 2015, the CSCG continued to participate in discussions on cybersecurity-related issues in the framework of the European Multi-Stakeholder Platform (MSP) on ICT standardization, which was set up by the European Commission in 2011.

CEN and CENELEC developed and submitted a joint response to the public consultation on standards for the Digital Single Market (DSM), which was launched by the European Commission in September 2015. CEN and CENELEC’s response was prepared on the basis of input from their members and stakeholders, and highlighted cybersecurity as the top priority domain for standardization activities to support the Digital Single Market.

Societal and citizen security
In 2015, the CEN Technical Committee ‘Societal and citizen security’ (CEN/TC 391) initiated new standardization work items in relation to crisis management (strategic issue resolution), indicators for quality of service and terminology relating to CBRN-E (Chemical, Biological, Radiological, Nuclear and Explosives). CEN/TC 391 has also continued to collaborate with the international Technical Committee ISO/TC 292 ‘Security and resilience’ in order to facilitate the adoption of international standards as European Standards.

Privacy management
CEN and CENELEC’s Joint Working Group on ‘Privacy management in products and services’ has started to prepare a work programme for standardization activities relating to privacy and personal data protection management for security technologies and related services, in the framework of a request from the European Commission (M/530). This work should lead to the development of standards that will enable manufacturers and service providers to address and manage privacy and personal data protection issues by developing and implementing a ‘Privacy by Design’ (PbD) approach in their processes.

DIGITAL SOCIETY

e-Business
Standardization has an important role to play in facilitating the increasing use of information and communication technologies (ICT) for business applications, including electronic systems to support the efficient and transparent procurement of goods and services by public authorities (or ‘e-Procurement’).

In 2015, CEN established a new project Committee on ‘Electronic Public Procurement’ (CEN/TC 440), in order to develop standardization activities to support electronic public procurement processes and their accompanying information flows in the physical and financial supply chains. CEN/TC 440 has started work on preparing a roadmap for the implementation of business interoperability specifications, as well as a series of Technical Specifications setting out a consolidated vocabulary of business terms for use in the context of e-procurement, as well as interoperability specifications in relation to e-notification, e-tendering, e-catalogue, e-ordering and e-fulfilment.

CEN’s Project Committee on ‘Electronic Invoicing’ (CEN/TC 434) has proceeded with developing a draft European Standard on ‘Electronic invoicing - Semantic data model of the core elements of an electronic invoice’ (prEN 16931), in accordance with EC standardization request M/528. This draft standard specifies the essential information elements that an electronic invoice needs to ensure legal/fiscal compliance and to enable interoperability for cross-border and cross-sector commerce.

Furthermore, the CEN Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ Phase 3 (BII3), building on the work done by a previous CEN Workshop (BII2), has proceeded with preparing some 130 documents in relation to various stages of the pre-award process (e-notification, e-tendering and pre-award e-catalogue) as well as the completion of the post-award process. When these documents have been finalized, they will be published as CEN Workshop Agreements (CWAs).

Radio Frequency Identification (RFID)
CEN’s Technical Committee ‘Automatic Identification and Data Capture (AIDC) Technologies and Applications’ (CEN/TC 225) develops standards for information and communication technologies (ICT) applied to radio frequency identification (RFID) and systems. Much of this work is related to EC standardization request M/436. In 2015, CEN/TC 225 started work on preparing new standardization deliverables in relation to electronic identification plates and RFID in the railway sector.

ELECTROTECHNOLOGY
European standardization activities in the electrotechnical sector are managed and supported by CENELEC, which supports a wide range of Technical Committees, Task Forces and Working Groups dealing with different topics and types of products. Thanks to the successful and long-standing technical cooperation between CENELEC and the International Electrotechnical Commission (IEC), more than 70% of all CENELEC standards are identical to international standards adopted by the IEC.

Around 24% of the standards published by CENELEC are ‘harmonized European Standards’ developed in response to standardization requests issued by the European Commission, which are intended to help manufacturers,
operators and other stakeholders to respect the essential requirements of relevant EU legislation.

Standards in the domain of ‘Industrial-process measurement, control and automation’ are developed by CENELEC’s Technical Committee CLC/TC 65X in collaboration with IEC/TC 65 at international level, in the framework of the Dresden agreement. CENELEC also cooperates with ETSI to exchange information regarding wireless communication in the context of industrial automation. In 2015, CENELEC published 33 new and revised standards, plus 7 amendments and corrigenda, developed by CLC/TC 65X.

CENELEC BT Task Force 116-2 ‘Alcohol interlocks’ has continued to revise the EN 50436 series of European Standards, which specify test methods and performance requirements for alcohol interlocks. These are automatic control systems which are designed to prevent people from driving with excess levels of alcohol by requiring the driver of a vehicle to blow into an integrated breathalyser before the motor can be started.

Electromagnetic compatibility

CENELEC has continued to develop standards that enable electromagnetic compatibility (EMC) in line with relevant EU legislation, mainly through its Technical Committees ‘Electromagnetic Compatibility’ (CLC/TC 210) and ‘Electromagnetic fields in the human environment’ (CLC/TC 106X), in the framework of relevant standardization requests from the European Commission (including M/305, M/313, M/351, M359, M/404 and M/536).

CLC/TC 210 has proceeded with work to develop and finalize new and revised standards relating to ‘Electromagnetic Compatibility’ including parts of the EN 55014 series (requirements for household appliances, electric tools and similar apparatus), the EN 55016 series (radio disturbance and immunity measuring apparatus and methods) and the EN 61000 series (generic standards, standards for testing and measurement techniques).

CENELEC has continued to collaborate with ETSI through their Joint Working Group ‘Digital Dividend’, which has prepared a draft Technical Report on Electromagnetic compatibility and Radio spectrum Matters (ERM) related to the implementation of the European Commission’s ‘800 MHz Decision’ (2010/267/EU).

Household appliances

Working in close cooperation with its international counterpart (IEC/TC 61), CENELEC’s Technical Committee ‘Safety of household and similar electrical appliances’ (CLC/TC 61) develops European Standards in relation to a wide range of electrical appliances - from toasters to tumble dryers. These standards contribute to ensuring a high level of safety for the end-users of these appliances, and they also enable manufacturers to make sure that their products comply with the essential requirements set out in relevant European legislation (including Directives on Machinery, Low Voltage, Toys, etc.).

In 2015, CENELEC published a new European Standard developed by CLC/TC 61 on safety requirements for fire prevention and suppression devices for electric hobs or cooktops (EN 50615), and revised editions of standards setting out safety requirements for dishwashers, cooking ranges, hobs and ovens, shavers and hair clippers, and electrical drives for garage doors, gates, doors and windows (EN 60335-2 series). In addition, CENELEC published amendments to several other parts of the EN 60335-2 series relating to various kinds of electrical appliances such as tumble dryers, massage appliances, electrical drives for shutters and blinds, skin and hair care appliances, surface-cleaning appliances, microwave ovens and dishwashing machines; as well as to standards for electric toys (EN 62115) and commercial dishwashing machines (EN 50416).

Furthermore, CLC/TC 61 proceeded with work to revise and amend various parts of the EN 60335-2 series regarding safety requirements for electric irons, kitchen machines, microwave ovens, electric fishing machines, commercial refrigerating appliances, instantaneous water heaters and appliances for heating liquids, as well as gas, oil and solid-fuel burning appliances with electrical connections.

Cables

CENELEC has continued to develop standards for power, control and communication cables. This work is being carried out by various Technical Committees including CLC/TC 20 ‘Electric cables’, CLC/TC 46X ‘Communication cables’, CLC/TC 86A ‘Optical fibres and optical fibre cables’, CLC/TC 86BXA ‘Fibre optic interconnect, passive and connectorized components’, CLC/TC 209 ‘Cable networks for television signals, sound signals and interactive services’, CLC/TC 213 ‘Cable management systems’ and CLC/TC 215 ‘Electrotechnical aspects of telecommunication equipment’.

In 2015, CENELEC published new and revised European Standards developed by CLC/TC 20 relating to: electrical test methods for electric cables (EN 60885-3), methods for testing fire resistance of unprotected electric cables (EN 50200 and EN 50577) and requirements for accessories for use on distribution cables (EN 50393). CENELEC also published a new edition of EN 50289-4-17 (Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable) developed by CLC/TC 46X ‘Communication cables’.

CENELEC published a new European Standard relating to telecommunications cabling infrastructure for use in data centre facilities (EN 50600-2-4 developed by CLC/TC 215), several standards relating to optical fibres and optical fibre cables (developed by CLC/TC 86A), and numerous standards for fibre optic interconnecting devices and components (developed by CLC/TC 86BXA). Furthermore, CENELEC published a new edition of EN 62275 ‘Cable management systems - Cable ties for electrical installations’ (developed by CLC/TC 213), as well as standards relating to cable networks for television signals, sound signals and interactive services (developed by CLC/TC 209).

Charging of electric vehicles

In 2015, CEN and CENELEC accepted an official standardization request from the European Commission to draft European standards for alternative fuels infrastructure (M/533) including recharging points for electric vehicles, which will support the implementation of Directive 2014/94/EU on the deployment of alternative fuels infrastructures. In this context, a number of different Technical Committees within CEN and CENELEC (CEN/TC 301, CLC/TC 238X, CLC/TC 23 H and CLC/TC 69X) have started work on revising existing standards and developing new standards that will facilitate the charging of electric vehicles. This work
CEN and CENELEC support a wide range of standardization activities relating to the generation, distribution, management and sustainable use of energy. CEN supports activities in relation to gas, fuels (including bio-fuels) and solar (thermal) energy, while CENELEC activities address electricity, solar (photovoltaic) and wind energy. Furthermore, CEN and CENELEC pursue joint or parallel activities in relation to energy management and energy efficiency, ecodesign and energy labelling, e-mobility and alternative transport fuels, fuel cells, smart grids and smart metering.

Electricity

CENELEC has continued to work on the development of standards to support the successful integration of the European electricity market. Much of this work is associated with a request from the European Commission (M/511) for harmonized standards in line with the Low Voltage Directive (LVD). CENELEC’s Technical Bodies have continued to prepare new standards and amendments taking into account the requirements of the revised LVD (2014/35/EU). This new Directive will become legally applicable in April 2016, replacing the previous edition (2006/95/EC).

Alongside the work in relation to Low Voltage circuits and appliances, CENELEC also develops European Standards and other deliverables in relation to other voltage ranges, including Medium Voltage (MV), High Voltage (HV) and Extra High Voltage (EH-V). Most of these standards are developed in collaboration with the IEC, and adopted using parallel procedures (under the Dresden Agreement), but others developed and adopted by CENELEC members at European level (‘homegrown’ standards).

In 2015, CENELEC published four European Standards developed by CLC/TC 14 ‘Power transformers’ relating to basic accessories for power transformer and reactor fittings (EN 50216-4), energy performance of large power transformers (EN 50629), general requirements of medium power transformers (EN 50588-1) and the measurement of the losses on power transformers and reactors (EN 60076-19).

European Standards relating to ‘System aspects of electrical energy supply’ are developed by CLC/TC 8X, which works in collaboration with IEC/TC 8. In 2015, CENELEC published a new standard on use case methodology (EN 62559-2), an amendment to EN 50160 (Voltage characteristics of electricity supplied by public electricity networks) and Technical Specifications containing requirements for generating plants to be connected in parallel with distribution networks (CLC/TS 50549-1 and -2). In addition, CENELEC has continued to share information with ENTSO-E (European Network of Transmission System Operators for Electricity), notably by organizing joint workshops regarding the preparation of Network Codes that support the integration of the European electricity market.

Gas

In 2015, CEN published a new European Standard that specifies quality characteristics, parameters and limits for high-calorific gases (Group I). This new standard (EN 16726) was developed by CEN/TC 234 ‘Gas infrastructure’ in the framework of a request from the European Commission (M/400). CEN also published revised editions of standards on functional requirements of gas measuring systems (EN 1776) and functional requirements for steel used in gas pipelines (EN 12007-3), also developed by CEN/TC 234.

CEN and CENELEC published a revised European standard for the ‘Gas appliances - Combined heat and power appliance of nominal heat input inferior or equal to 70 kW’ (EN 50465), which was developed by the CEN-CENELEC Joint Working Group ‘Fuel Cells and Gas Appliances’ (FCGA). This standard specifies requirements and test methods for the construction, safety, fitness for purpose, rational use of energy and the marking of a micro combined heat and power appliance.

Nuclear energy

CEN and CENELEC collaborate with the international standardization organizations ISO and IEC in order to ensure that Europe’s nuclear energy industry has access to standards that enable high levels of health and safety to be achieved and maintained.

Within CEN, the Technical Committee ‘Nuclear energy, nuclear technologies, and radiological protection’ (CEN/TC 430) cooperates closely with its international counterpart (ISO/TC 85). In 2015, CEN adopted 8 international standards as European Standards, including EN ISO 361 describing the basic ionizing radiation symbol, EN ISO 3925 on the identification and documentation of unsealed radioactive substances, and 6 parts of the EN ISO 11665 series on methods for measuring radioactivity in the environment.

In the field of instrumentation, control and electrical systems of nuclear facilities, CENELEC’s Technical Committee 45AX collaborates with IEC Sub-Committee 45A. In 2015, CENELEC adopted two European Standards for nuclear power plants that are identical to IEC standards relating to hardware design requirements for computer-based systems (EN 60987) and alarm functions and presentation in the main control room (EN 62241).

CENELEC’s Technical Committee 45B has continued to cooperate with IEC/SC 45B regarding standards for radiation protection instrumentation. In this context, CENELEC adopted two international standards as European Standards on hand-held instruments for neutron detection of radioactive material (EN 62534) and on spectroscopy-based portal monitors for detecting and identifying illicit trafficking of radioactive material (EN 62484).

Solar energy

CENELEC’s Technical Committee CLC/TC 82 collaborates with IEC/TC 82 on the development and adoption of standards which meet market needs in relation to ‘Solar photovoltaic energy systems’. In 2015, CENELEC published 6 European Standards which are identical to international standards published by IEC. These standards relate to: requirements for photovoltaic reference devices (EN 60904-2); performance testing of photovoltaic concentrators (EN 62670-2); transportation of photovoltaic concentrators (EN 62670-3); safety of photovoltaic modules (EN 62612) and photovoltaic modules (EN 62601-2) and systems (EN 62610).
module package units (EN 62759-1); junction boxes for photovoltaic modules (EN 62790); design qualification of solar trackers (EN 62817) and safety requirements of connectors (EN 62852).

Wind energy
CENELEC’s Technical Committee ‘Wind turbines’ (CLC/TC 88) collaborates with its international counterpart IEC/TC 88 to support the development and adoption of standards in relation to all aspects and subsystems of wind turbines. In 2015, CENELEC published 3 European Standards relating to wind turbines (parts of the EN 61400 series), which are identical to international standards published by IEC.

Fuels, infrastructure and labelling
CEN has published several new and revised European Standards developed by CEN/TC 19 ‘Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin’, including a new European Standard specifying requirements and test methods for diesel fuel with a high FAME (fatty acid methyl esters) content (EN 16709). Meanwhile, CEN/TC 19 has continued to develop numerous standards including a draft European Standard relating to fast pyrolysis oils for use in industrial boilers (prEN 16900), which is being developed in the framework of a specific standardization request from the European Commission (M/525).

CEN and CENELEC have accepted a request from the European Commission (M/533) to develop and revise European standards to support the implementation of the EU Directive on the deployment of alternative fuels infrastructure (2014/94/EU). This request covers the supply of electricity and natural gas (including bio-methane) for road transport, maritime transport and inland navigation, as well as the supply of hydrogen for road transport.

In the framework of EC request M/533, CEN and CENELEC have developed a coherent work programme and started to develop the identified standards. This work is being carried out by the relevant Technical Committees including CEN/TC 268 ‘Cryogenic vessels and specific hydrogen technologies applications’, CEN/TC 326 ‘Natural Gas Vehicles - Fuelling and Operation’, and CLC/TC 69X ‘Electrical systems for electric road vehicles’.

CEN has established a new Technical Committee on ‘Fuel labelling’ (CEN/TC 441), which has started to develop a set of harmonized graphical symbols to identify various kinds of liquid and gaseous fuels, which could be used to provide information to consumers at dispensers and refuelling points, on vehicles and in owner’s manuals, etc. These symbols or identifiers will be described in a new European Standard (EN 16942).

Energy management
European standardization activities in the area of energy management and energy efficiency are coordinated by the CEN-CENELEC Sector Forum Energy Management (SFEM). In September 2015, the SFEM organized a European Seminar on ‘Funding Energy Efficiency Projects’, which took place, with more than 60 participants representing a wide range of interested stakeholders. Following this event, the SFEM decided to create a working group to further discuss this topic and identify any related standardization needs.

The SFEM’s hydrogen working group produced a report on the state of the art in this area, including an analysis of gaps in terms of potential standardization needs. On the basis of this report, a proposal for the creation of a new CEN Technical Committee ‘Hydrogen’ was elaborated. The new committee (CEN/TC 446) will support standardization activities in relation to systems, devices and connections, production, storage, transport, measurement and use of hydrogen from renewables and other sources.

CEN and CENELEC published a new European Standard specifying the competences required by energy auditors (EN 16247-5), which was drafted by the CEN-CENELEC Joint Working Group ‘Energy Audits’ (CEN/CLC JWG 1). This completes the EN 16247 series of European Standards on Energy Audits, which were developed in response to a request from the European Commission (M/479 – issued in 2010).

Ecodesign and energy labelling
Ecodesign is an approach whereby manufacturers seek to minimize the amount of energy used during the lifecycle of a product. At EU level, the Ecodesign Directive (2009/125/EC) establishes a framework for setting energy performance requirements for energy-related products, and the Energy Labelling Directive (2010/30/EU) provides a framework for a common European system of labels that give clear information to consumers regarding the energy consumption of such products.

Within CEN and CENELEC, around 20 Technical Committees are involved in developing European Standards that will support the implementation of specific EU Regulations issued in the framework of the Ecodesign and Energy Labelling Directives. The overall coordination of this work is the responsibility of the CEN-CENELEC Ecodesign Coordination Group (Eco-CG), which brings together representatives from relevant Technical Committees and partner organizations, the European Commission and other interested stakeholders.

In 2015, CEN and CENELEC approved 16 new and revised European Standards and amendments to existing standards in support of Ecodesign Regulations on space heaters (EN 12309-2 and EN 15502-1), water heaters (EN 13203-1, EN 13203-2, EN 26, EN 50440 and EN 89), lamps (EN 13032-4), domestic cooking appliances (EN 30-2-1 and EN 61591), medium and large power transformers (EN 50588-1 and EN 50629), power drive systems (EN 50598-3), vacuum cleaners (EN 60704-2-1), and refrigerators (EN 60704-2-14). These standards and amendments were developed by various Technical Committees within CEN (TCs 48, 49, 109, 169 and 299) and CENELEC (TCs 14, 22X and 59X). Meanwhile, work has proceeded to develop further standards in the framework of product-specific requests from the European Commission regarding air conditioners (M/488), dishwashers (M/481), small power transformers (M/495 Am. 2) and pumps (M/498) – among others.

CEN and CENELEC accepted several new standardization requests from the European Commission to develop European Standards on how to measure the energy performance of water heaters (standardization request M/534), space heaters (M/535), ventilation units (M/537), non-household washing machines, dryers and dishwashers (M/539), vacuum cleaners (M/540), networked standby (M/544), and computers and computer servers (M/545). CEN and CENELEC also accepted a request to develop horizontal
standards on material efficiency aspects of energy-related products in support of the Ecodesign Directive 2009/125/EC. This request (M/543) covers various aspects including the lifetime of products, the ability to re-use components or recycle materials from products at end-of-life, and the use of re-used components and/or recycled materials in products.

**ENVIRONMENT**

CEN and CENELEC develop standards that help companies and other organizations to improve their environmental performance, and which in many cases support the implementation of European environmental legislation. They also promote a horizontal approach to protecting the environment, by integrating objectives such as sustainability, resource efficiency and climate resilience into a wide range of standardization activities.

The CEN Strategic Advisory Body on Environment (SABE) advises the CEN Technical Board on strategic issues related to the environment, and CENELEC TC/111X ‘Environment’ also provides advice to the Technical Board of CENELEC. All Technical Bodies in CEN and CENELEC are expected to take environmental aspects into account, and CEN also has an Environmental Helpdesk that provides support and services to Technical Bodies regarding how to address environmental aspects in standards.

In 2015, CEN and CENELEC launched a communication campaign with the aim of raising awareness among their stakeholders and the wider public about how European Standards combine competitiveness and sustainability by addressing environmental aspects. This campaign, which began with a series of articles published on the CEN-CENELEC website and promoted via social media, will be continued in 2016 with a series of video interviews, a Special Report in CONNECT, and a new CEN-CENELEC brochure.

Furthermore, CEN and CENELEC organized a Seminar on ‘Benefits of integrating the environment in standards’, which was held in Brussels on 19 May 2015. This event brought together representatives from business and industry (including SMEs), policy makers and societal and environmental stakeholders. The participants shared experiences and exchanged views on how standardization can contribute to the development of a resource-efficient, green, and competitive low-carbon economy.

CEN and CENELEC collaborated on the development of a ‘Guide for addressing environmental issues in testing standards’ (to be published in 2016 as CEN-CENELEC Guide 33). In addition, CEN started work on the development of a new CEN Guide focusing on how to incorporate requirements in product standards that can contribute to minimising the use of hazardous chemicals in products.

**Air quality**

CEN supports a range of standardization activities that support the European Union’s policies in relation to air quality and climate. The Technical Committee on ‘Air quality’ (CEN/TC 264) has proceeded with work to develop European Standards to support the implementation of Directive 2008/50/EC on ambient air quality and cleaner air for Europe (in the framework of EC request M/503), as well as European Standards (EN 19694 series) regarding methods for assessing and measuring greenhouse gas (GHG) emissions of various energy-intensive industries (under EC request M/478).

In 2015, CEN published a revised edition of EN 14662-3 on sampling methods for the measurement of benzene concentrations in ambient air, which was developed by CEN/TC 264 under EC request M/257. CEN also published Technical Specifications on: technical and biological pollen sampling to monitor the effects of genetically modified organisms (CEN/TS 16817-1 and -2), long-term sampling of polychlorinated dibenzodioxins, dibenzofurans and biphenyls (PCDDs/PCDFs and PCBs) (CEN/TS 1948-5), and sampling and analysis of airborne pollen grains and fungal spores for allergy networks (CEN/TS 16868).

**Climate change adaptation**

CEN and CENELEC are cooperating with the European Commission to ensure that standardization contributes to the successful implementation of the EU Strategy on adaptation to climate change (COM(2013) 216), notably by increasing the resilience of Europe’s ecological and economic systems to climate change and extreme weather events.

In response to a standardization request from the European Commission (M/526), the CEN-CENELEC ‘Adaptation to Climate Change’ Coordination Group has proceeded with the elaboration of a preliminary work programme containing lists of standards that should be developed or revised in 3 priority sectors: construction, energy and transport. In this context, a series of 3 thematic workshops has been organized, focusing on the role of standardization in relation to adaptation of buildings, transport infrastructure and energy infrastructure. These workshops were held in Delft, Madrid and Berlin in December 2015 and January 2016 (hosted by NEN, AENOR and DIN respectively).

Furthermore, CEN and CENELEC have developed a ‘Guide for addressing climate change adaptation in standards’ (to be published in 2016 as CEN-CENELEC Guide 32). This new Guide is intended to help standard writers address the consequences and implications of climate change, and it includes a simple checklist to help establish whether climate change adaptation is relevant to a particular standardization activity.

**Soil and sludge**

CEN has published a new European Standard EN 14742 ‘Characterization of sludges - Laboratory chemical conditioning procedure’ (based on CEN/TR 14742:2006). Meanwhile, CEN/TC 308 ‘Characterization and management of sludge’ has continued work on preparing a standardized method for determining the flowability of sludge by means of the extrusion tube apparatus (to be published as EN 16720-1).

In the area of ‘Characterization of soils’, CEN/TC 345 cooperates closely with the international Technical Committee ISO/TC 190 ‘Soil quality’. In 2015, CEN has adopted another 8 European Standards that are identical to ISO standards. Furthermore, CEN and ISO published a new Technical Specification (CEN ISO/TS 16558-2) on a method for testing semi-volatile petroleum hydrocarbons using gas chromatography with flame ionization detection (GC/FID).
Waste

In the field of ‘Characterization of waste’, CEN published 4 revised European Standards developed by CEN/TC 292 in the framework of a request from the European Commission (M/328). These standards relate to leaching behaviour tests (EN 14429, EN 14997 and EN 15863) and the preparation of test portions from the laboratory sample (EN 15002). CEN also published 2 Technical Specifications relating to leaching behaviour tests (CEN/TS 16660 and CEN/TS 15864). CEN/TC 292 also proceeded with work to revise European Standards regarding tests to determine the leaching behaviour of inorganic constituents from granular waste (EN 14405), the presence of halogen and sulfur in waste materials (EN 14582), and the presence of polychlorinated biphenyl congeners (PCBs) in solid waste (EN 15308).

Within CENELEC, CLC/TC 111X ‘Environment’ is leading the development of standards and other deliverables that will support the implementation of the EU Directive on Waste Electrical and Electronic Equipment (WEEE - 2012/19/EU), in the framework of a request from the European Commission (M/518). These documents address various aspects of the treatment of electronic waste, including collection, treatment requirements, de-pollution and preparing for re-use.

In 2015, CEN/TC 230 published an new European Standard (EN 50625-2-2), which sets out requirements for the treatment of Waste Electrical and Electronic Equipment (WEEE) containing cathode-ray tubes (CRTs) and flat panel displays (such as LED, LCD and plasma screens). CENELEC also published a new Technical Specification on general requirements for de-pollution (CLC/TS 50625-3-1), to be used in conjunction with the European Standard on general requirements for the treatment of WEEE (EN 50625-1).

Water quality

In 2015, CEN completed the work that was requested by the European Commission in 2007, regarding the development of European Standards to support the implementation of the Water Framework Directive (WFD - 2000/60/EC). The standards prepared by CEN/TC 230 ‘Water analysis’ under EC request M/424 will facilitate the monitoring of water quality throughout Europe by ensuring that national laboratories can measure the chemical and ecological status of surface and ground waters in a consistent and comparable way.

CEN published 5 new European Standards developed by CEN/TC 230 in the framework of EC request M/424. They include 3 standards specifying methods for determining selected polycyclic aromatic hydrocarbons (PAH), organochlorine pesticides (OCP) and selected polybrominated diphenyl ether (PBDE) in whole water samples (EN 16691, EN 16693 and EN 16694); and 2 standards containing guidance on the estimation of phytoplankton biovolume (EN 16695) and sampling of phytoplankton from inland waters (EN 16698).

CEN also published a revised version of EN 14757 on ‘Sampling of fish with multi-mesh gillnets’ and a new Technical Specification regarding a method to determine tributyltin (TBT) in whole water samples (CEN/TS 16692) and guidance for the validation of physico-chemical analytical methods (CEN/TS 16800). Furthermore, CEN adopted as European Standards 7 international standards developed by ISO/TC 147/SC 3 ‘Radioactivity measurements’ regarding methods for determining the presence of radioactive substances in water.

Food & Feed

CEN’s activities in relation to food safety are in line with the European Union’s objective to achieve the highest possible level of health protection for consumers, and many European Standards and other deliverables are developed in response to standardization requests from the European Commission (including M/381, M/422, M/463 and M/520 to 523). CEN also collaborates with ISO to ensure that international standards in the field of food can be adopted and published as European Standards.

Food analysis: CEN published a number of new and revised European Standards relating to methods of food analysis. These included methods to determine the presence of fumonosins, acrylamide and other toxic substances in various foodstuffs (EN 16187, EN 16618 and EN 16619), and a method to determine the presence of furan in coffee and coffee products (EN 16620). Most of these standards were developed by CEN/TC 275 in response to a standardization request from the European Commission (M/463). CEN also published 3 European Standards and 2 Technical Specifications related to microbiological test methods, which are identical to international deliverables developed by ISO/TC 34/SC 9.

Cereal products: Regarding cereals and cereal products, CEN published a revised European Standard specifying a method to determine the presence of moisture and protein in cereal kernels using Near-Infrared-Spectroscopy (EN 15948) and a Technical Report on tests to detect the presence of impurities in maize and sorghum (CEN/TR 16875), both developed by CEN/TC 338. CEN also adopted and published several European Standards that are identical to international standards developed by ISO/TC 34/SC 4.

Fish products: CEN published a Workshop Agreement on ‘Batch-based Calculation of Sustainability Impact for Captured Fish Products’ (CWA 16960), which was developed by the ‘WhiteFish BCS!’ Workshop (CEN/WS 078). This new document contains guidance on how to calculate the sustainability impact of fish products (not including farmed fish).

Health & Safety

CEN and CENELEC develop and adopt standards in relation to Occupational Health and Safety (OHS), Personal Protective Equipment (PPE) and Explosive Atmospheres (ATEX). Harmonized European Standards enable stakeholders such as clothing and equipment manufacturers to ensure that their products comply with the essential requirements of European legislation, including Directives relating to PPE (89/686/EEC) and ATEX (94/9/EC).

Occupational Health and Safety (OHS)

CEN’s Strategic Advisory Board for Occupational Health and Safety (SAB OH&S) coordinates European standardization activities addressing various kinds of hazards in the workplace and health-related issues such as noise, vibration, ergonomics or exposure to hazardous substances.

In 2015, CEN published an amendment to the European Standard EN 482 regarding the measurement of exposure to chemical agents in the workplace. CEN also published a new
European Standard (EN ISO 17621) setting out requirements and test methods for measuring concentrations of specified chemical agents in workplace air using detector tubes, which is identical to an international standard developed by ISO/TC 146/SC 2.

CEN/TC 137 ‘Assessment of workplace exposure to chemical and biological agents’ proceeded with work to develop draft European Standards relating to the assessment and measurement of exposure by inhalation to chemical agents, nano-objects, nanoparticles, ultrafine aerosols and nanoaerosols in the workplace. Some of these standards correspond to a request from the European Commission (M/461).

Regarding noise exposure in the workplace, CEN’s Technical Committee ‘Acoustics’ (CEN/TC 211) has continued to collaborate with its international counterpart ISO/TC 43 to enable the adoption of European Standards that are identical to international standards. In 2015, CEN published new editions of standards relating to reference values for acoustical and vibratory levels (EN ISO 1683) and the measurement of high-frequency sound power levels emitted by machinery and equipment (EN ISO 9295).

Personal Protective Equipment (PPE)

The CEN-CENELEC ‘Personal Protective Equipment (PPE)’ Sector Forum coordinates standardization activities carried out by several Technical Committees within CEN and CENELEC in relation to various types of equipment such as footwear, harnesses and helmets – among others.

In 2015, CEN and CENELEC approved some 19 new and revised European Standards relating to various types of PPE, including 14 harmonized standards that can be used to ensure conformity with the PPE Directive (89/686/EEC).

European Standards published by CEN include standards developed by CEN/TC 162 regarding test methods to determine the resistance of material to liquid and gaseous chemicals (EN 16523-1 and -2), performance requirements for chemical protective suits (EN 943-1), and protective gloves for motorcycle riders (EN 13594). CEN also published a revised edition of EN 13634 relating to protective footwear for motorcycle riders (developed by CEN/TC 161), and a revised edition of EN 12277 on mountaineering harnesses (developed by CEN/TC 138).

Explosive Atmospheres (ATEX)

CEN and CENELEC collaborate with ISO and IEC on the development of standards relating to equipment and protective systems for use in potentially explosive atmospheres. In 2015, CENELEC published 11 European Standards and 2 Technical Reports drafted by CLC/TC 31 ‘Electrical apparatus for potentially explosive atmospheres’, which is responsible for maintaining and developing the EN 60079 series of standards. Meanwhile, CEN’s Technical Committee ‘Potentially explosive atmospheres - Explosion prevention and protection’ (CEN/TC 305) proceeded with work to develop standards for various kinds of non-electrical equipment including bucket elevators, flame arresters and fans.

HEALTHCARE

CEN and CENELEC develop European Standards setting out safety, quality and performance requirements for various kinds of medical devices, and other products and methods related to healthcare. Many of these standards support the implementation of the EU Directives dealing with Medical Devices, Active Implantable Medical Devices and In Vitro Diagnostic Medical Devices. Harmonized European Standards enable manufacturers to ensure that their products comply with the compulsory requirements that are defined in these Directives.

Within CEN and CENELEC, more than 20 Technical Committees are involved in developing standards for the healthcare sector. In order to ensure the efficient coordination of activities and the sharing of relevant information, CEN and CENELEC have created a joint Advisory Board for Healthcare Standards (ABHS). CEN also develops standards in relation to healthcare services (see under ‘Services’ for more information).

Medical equipment

In the field of medical equipment, 128 European Standards, Technical Specifications and Technical Reports (including amendments to existing documents) were published by CEN and/or CENELEC in 2015. As many as 114 European Standards (including amendments to existing standards) published in 2015 were intended for citation in the Official Journal of the European Union (OJEU) in support of the Medical Devices Directive (93/42/EEC), 10 in support of the In Vitro Diagnostic Medical Devices Directive (98/79/EC), and 8 in support of the Active Implantable Medical Devices Directive (90/385/EEC).

In the domain of molecular in vitro diagnostics, CEN published 8 Technical Specifications developed by CEN/TC 140 ‘In vitro diagnostic medical devices’ with recommendations for the handling, documentation and processing of frozen tissue specimens (CEN/TS 16826-1 and -2), venous whole blood specimens (CEN/TS 16835-1 to -3) and FPPE (Formaldehyde-fixed, Paraffin-embedded) tissue specimens (CEN/TC 16827-1 to -3).

Following a 5-year research and development process funded by the European Commission, CEN/TC 170 ‘Ophthalmic optics’ finalized a new edition of the European Standard EN 16128, which sets out a reference method for measuring the rate of nickel release from spectacle frames and sunglasses. This revised standard was developed in the framework of a specific request from the European Commission (M/448).

In the field of ‘Non-active surgical implants’, CEN adopted 5 new and revised European Standards that are identical to international standards published by ISO. These standards relate to cardiac valve prostheses (EN ISO 5840-1 and -2), copper-bearing contraceptive intrauterine devices (EN ISO 7439), vascular device-drug combination products (EN ISO 12417-1) and instrumentation (EN ISO 16061). All of these standards were developed in accordance with a request from the European Commission (M/023), and in the framework of continuous collaboration between CEN/TC 285 and ISO/TC 150.

With regard to ‘Active Implantable Medical Devices’ (AIMD), CEN and CENELEC published a revised edition of the European Standard regarding ‘general requirements for safety,
marking and information to be provided by the manufacturer’ (EN 45502-1). This revised standard was developed in line with a request from the European Commission (M/432), and is intended to support the implementation of Directives 90/385/EEC and 2007/47/EC.

CENELEC published some 32 new and revised European Standards and 14 amendments to European Standards resulting from the ongoing collaboration between CLC/TC 62 and IEC/TC 62 in the field of ‘Electrical equipment in medical practice’. Most of the standards concerned are parts of the EN 60601 and EN 80601 series of standards for ‘medical electrical equipment’, developed in the framework of a request from the European Commission (M/295) and intended for citation in support of Directives 90/385/EEC and 93/42/EEC.

**e-Health**

CEN’s Technical Committee ‘Health informatics’ (CEN/TC 251) collaborates closely with its international counterpart (ISO/TC 215) to develop standards in relation to information and communication technology (ICT) products and systems used in the delivery of healthcare services. These standards, which are adopted by CEN as European Standards and by ISO as international standards, ensure compatibility and interoperability between products and systems and also address aspects such as safety and security.

In 2015, CEN adopted and published at European level a revised edition of the standard EN ISO 10781 (HL7 Electronic HealthRecords - SystemFunctionalModel) and an amendment to EN ISO 11073-30200 (Point-of-care medical device communication), as well as Technical Specifications on clinical models, characteristics and processes (CEN ISO/TS 13972), identification of medicinal products (CEN ISO/TS 19844), requirements for machine-readable coding of package identifiers (CEN ISO/TS 16791) and automatic identification and data capture marking and labelling (CEN ISO/TS 18530).

**MACHINERY**

Within CEN and CENELEC there are around 50 Technical Committees that are developing European Standards in relation to various kinds of machinery. In addition, CEN has a ‘Safety of Machinery’ Sector Network, which facilitates the exchange of information among all the relevant stakeholders, coordinates standardization activities and identifies areas where new standards may be required. Many of the standards adopted by CEN and CENELEC are ‘harmonized standards’ that support the implementation of relevant European legislation, such as the Machinery Directive (2006/42/EC) and Lifts Directive (2014/33/EU).

In total, some 91 standards relating to various types of machinery were adopted by CEN and CENELEC in 2015, including 47 ‘harmonized standards’ that can be used to comply with the essential requirements of the Machinery Directive (2006/42/EC). CEN and CENELEC also provided information and advice to the European Commission regarding the drafting of standardization requests, notably in relation to lifts and offshore equipment.

**Additive manufacturing:** CEN has established a new Technical Committee (CEN/TC 438) in order to meet the needs of European stakeholders in this important area of technological innovation. CEN/TC 438 has started to collaborate with ISO/TC 261 with the aim of adopting a number of existing international standards as European Standards, including parts 2, 3 and 4 of the ISO 17296 series (Additive manufacturing - General principles) and ISO/ASTM 52921 (Standard terminology for additive manufacturing).

**Agricultural, forestry and gardening machinery:** CEN published amendments to European Standards regarding the safety of garden blowers and vacuums (EN 15503) and requirements for passenger seats on agricultural and forestry tractors (EN 15694), developed by CEN/TC 144 in the framework of requests from the European Commission (M/396 and M/398). CEN also published as European Standards a number of new and revised standards developed at international level by ISO/TC 23, including 4 parts of the EN ISO 16122 series (Inspection of sprayers in use) and EN ISO 17989-1 on how to integrate sustainability into the design and manufacturing of tractors and machinery. Meanwhile, CEN/TC 144 proceeded with work to develop a standardized format for reporting accidents involving tractors and machinery (FprEN 16831) and revised editions of standards concerning the protection of tractor/sprayer operators against hazardous substances (EN 15695-1 and -2).

**Landmine clearance:** CEN has approved the creation of two new CEN Workshops that have started work on preparing standardization deliverables addressing issues related to the clearance of landmines, which will eventually be published as CEN Workshop Agreements (CWAs). The ‘D-Box’ Workshop is developing 3 documents which together will provide the basis of a demining tool-box for humanitarian clearing of large scale areas from anti-personnel landmines and cluster munitions. Meanwhile, the ‘Humanitarian Mine Action’ Workshop (CEN/WS 080) is developing a CWA on the testing and evaluation of mechanical equipment used in demining operations (not including equipment whose stated purpose is the detonation, destruction or removal of landmines).

**Lifts, escalators and moving walks:** CEN published a revised edition of the European Standard EN 81-72 regarding safety rules for the construction and installation of firefightercs lifts (developed by CEN/TC 10). CEN also published as European Standards two new standards developed by ISO/TC 178 regarding the energy performance of lifts, escalators and moving walks (EN ISO 25746-2 and -3).

**Motor-operated electric tools:** CENELEC published 10 new European Standards and 7 amendments to existing standards developed by CLC/TC 116 ‘Safety of motor-operated electric tools’. The new standards include 5 parts of the 62841 series on ‘Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery’, relating to general safety requirements (EN62841-1), hand-held tappers and threaders (EN62841-2-9), hand-held planers (EN 62841-2-14), transportable cut-off machines (EN 62841-3-10) and mitre saws (EN 62841-3-9). Other new standards include 4 parts of the EN 50632 series on dust measurement procedures for electric motor-operated tools, and a standard setting out safety requirements for robotic battery powered electrical lawnmowers (EN 50636-2-107).

**Plastics and rubber machines:** CEN published a new European Standard on safety requirements for tyre curing machines (EN 16474), which was developed by CEN/TC 145 with the active involvement of machinery manufacturers and tyre producers. Meanwhile, CEN/TC 145 proceeded
MATERIALS

CEN develops standards in relation to a wide range of materials from metallic alloys to textile products. Some of these are harmonized standards that support the implementation of the EU’s Construction Products Regulation (CPR). CEN also develops standards in relation to nanotechnologies and nanomaterials, which is an area of growing importance that has been identified as a Key Enabling Technology by the European Commission.

Nanomaterials

CEN collaborates with ISO and other partners including the OECD (Organization for Economic Cooperation and Development) on the development of standards relating to nanotechnologies and nanomaterials. Some 15 different Technical Committees at European and international levels have been involved in standardization activities associated with a request from the European Commission (M/461), which cover a range of topics related to the characterization of nanomaterials, measuring and simulating exposure to nanomaterials, as well as aspects related to health, safety and the environment (HS&E).

In the area of nanotechnologies, CEN/TC 352 adopted a number of Technical Specifications developed by ISO/TC 229 at international level, while CEN TCs worked on the development of Technical Specifications at European level. CEN/TC 137 (‘Assessment of workplace exposure to chemical and biological agents’) proceeded with work to develop new European Standards addressing issues related to workplace exposure to nano-objects and nanoparticles, ultrafine aerosols and nano-aerosols. CEN/TC 195 (‘Air filters for general air cleaning’) collaborated with ISO/TC 142 on the development of test methods to measure the efficiency of air filtration media against spherical nanomaterials.

Graphene

CENELEC has established a new Workshop on Specifications for Graphene Related Material (WS SGRM), in order to provide a bridge between the international Technical Committee IEC/TC 113, which focuses on ‘Nanotechnology standardization for electrical and electronic products and systems’, and the ‘Graphene Flagship’ initiative supported by the European Union. The SGRM Workshop will collaborate with IEC/TC 113 on the preparation of standardization deliverables addressing measurements and methods for the key control characteristics and specifications of graphene related materials.

PRESSURE EQUIPMENT

CEN provides a platform for industry experts to develop European Standards that contribute to ensuring high levels of safety in relation to pressure. Standards for various types of pressure equipment are developed and maintained by 29 CEN Technical Committees (TCs) and 4 TCs of the European Committee for Iron and Steel Standardization (ECISS), which is an Associated Standards Body of CEN. Many of these standards are intended to support the implementation of EU Directives relating to Pressure Equipment and Simple Pressure Vessels (in accordance with EC standardization request M/071).

In 2015, CEN has proceeded with planning and undertaking work to review and revise relevant standards in order to ensure alignment with the latest European Directives relating to Pressure Equipment (2014/68/EU) and Simple Pressure Vessels (2014/29/EU), which are due to be implemented by all of the EU Member States in 2016.

SERVICES

Standardization has a key role to play in supporting the development of a single market for services in Europe. The EU Directive on Services (2006/123/EC) highlights the need for European standards to facilitate compatibility between services, enhance the quality of service delivery and ensure the provision of relevant information to service users. Within CEN, the Strategic Advisory Group on Services (SAGS) acts as an advisory and coordination body on policy and strategic matters in relation to the standardization of services.

CEN organized together with AFNOR a conference ‘Services ‘made in Europe’ - What tools are there to create leading services markets?’, which took place in Paris with around 100 participants on 19 November 2015. The aims of this event were to raise awareness about service standardization and its benefits for service providers and users, and to identify recommendations that could be followed-up at European
level to further develop or improve standardization in relation to services.

**Horizontal standards**

In response to a request from the European Commission regarding horizontal service standards (M/517), CEN has produced a report containing proposals for standardization activities that should be developed. In this context, CEN members were invited to consider a proposal for the creation of a new Technical Committee which will develop standards in relation to ‘Services - procurement, contracts and performance assessment’ (CEN/TC 447).

CEN published a new Technical Specification (CEN/TS 16880), which sets out recommendations for giving rise to outstanding customer experiences through service excellence in order to exceed the expectations of service-users. This document was developed by CEN/TC 420 (Service Excellence Systems), and is intended for all kinds of organizations that deliver services (commercial, public and not-for-profit).

**Healthcare services**

The ad-hoc group on healthcare services, which was set up by the CEN Strategic Advisory Group on Services (SAGS) and the CEN-CENELEC Advisory Board for Healthcare Standards (ABHS), has proceeded with the preparation of a strategy for standardization in relation to healthcare services. This work involves taking stock of the work done so far at European level, identifying areas where European standards could add value to healthcare services and developing a common CEN-CENELEC strategy on how to approach European standardization and stakeholders in relation to healthcare services.

CEN adopted and issued a European Standard on Osteopathic Healthcare Provision (EN 16686), which was developed by a Project Committee on ‘Services for Osteopaths’ (CEN/TC 414). CEN also published a Technical Report on care services for babies born with cleft lip and/or palate (CEN/TR 16824:2015), developed by a Project Committee on ‘Care services for cleft lip and/or palate’ (CEN/TC 424).

In addition, CEN’s Project Committee on ‘Aesthetic Surgery and aesthetic non-surgical medical Services’ (CEN/TC 403) has proceeded to prepare a draft European Standard for aesthetic non-surgical medical treatments (EN 16844) including recommendations relating to the ethical framework and general principles for providing such services.

**Postal services**

In 2015, CEN published a number of new and revised European standardization deliverables that were developed by CEN’s Technical Committee on ‘Postal Services’ (CEN/TC 331) including Technical Specifications on Extensible Common Structure and Representation for Postal Rates (CEN/TS 16735), XML definition of encapsulation of letters for automated postal handling (CEN/TS 14014), and technical features of parcel boxes (CEN/TS 16819).

Meanwhile, CEN/TC 331 proceeded with work to develop revised editions of European Standards relating to methods for measuring transit times for different categories of mail (EN 14508 and EN 14534) and the development of specifications for applications of digital postage marks (EN 14615). This TC also finalized a new Technical Specification (CEN/TS 15472 based on CEN/TR 15472:2006) on a method for measuring parcel transit time for cross-border parcels within the EU and EFTA using Tracking and Tracing.

CEN established a new Workshop on postal supply chain security (CEN/WS 81 ‘SAFEPOST’), which will map existing standards, identify gaps and define standardization needs related to security aspects of postal item delivery services. In addition, CEN took part in discussions with the European Commission regarding the preparation of a new standardization request for standards to support the implementation of the Commission’s ‘Roadmap for completing the single market for parcel delivery’.

**Security services**

A new European Standard for ‘Maritime and port security services’ (EN 16747), which sets out requirements for the organization, processes, staff and management of security services in ports and maritime environments, was finalized by CEN/TC 417 and published by CEN.

The joint CEN-CENELEC Project Committee (CEN/CLC/TC 4) ‘Services for fire safety and security systems’ has proceeded to develop a draft European Standard (FprEN 16763) regarding the requirements for the provision of services for fire safety systems and security systems. Meanwhile, the newly-established CEN Technical Committee ‘Private security services’ (CEN/TC 439) has started work on drafting a European Standard in relation to ‘services for critical infrastructure protection’.

**Various services**

CEN approved and published a European Standard relating to ‘Pest management services - Requirements and competences’ (EN 16636) developed by CEN’s Project Committee on ‘Services of pest management companies’ (CEN/TC 404). In order to promote this new standard to stakeholders, CEN contributed to an event organized by the Confederation of European Pest Management Associations (CEPA) in March 2015.

CEN has cooperated with ISO on developing a number of standards that set out requirements in relation to facilities and equipment used to provide simultaneous interpretation. These standards will be adopted by CEN as European Standards, in line with EC standardization request M/516.

A new European Standard regarding general requirements for expertise services (EN 16775) was published by CEN. This standard, developed by CEN/TC 405, specifies minimum requirements for expertise services provided by experts or groups of experts.

CEN approved a new Workshop Agreement on ‘Dog training professionals - Knowledge, skills and competence requirements’ (CWA 16979). This document was developed by experts from several different European countries who participated in a CEN Workshop on ‘Competences for dog training professionals’ (CEN/WS 078).

CEN’s Technical Committee ‘Service Chain for Social Care Alarms’ (CEN/TC 431) has continued with work to develop common terminology and definitions relating to the service chain for social care alarms, which could eventually be published as a standard.
A new Technical Committee on ‘e-Business Processes in the Insurance Industry’ was established in 2015. CEN/TC 445 will develop standardization activities in the field of electronic business processes and relevant data in the European insurance industry.

**SMART LIVING**

CEN and CENELEC have continued to collaborate with ETSI through their joint ‘Smart and Sustainable cities and Communities’ Coordination Group (SSCC-CG). This group includes representatives of various stakeholders including members and partner organizations of CEN and CENELEC, international standardization organizations (ISO, IEC and ITU), European networks of municipal public authorities, consumers and other interested organizations.

‘Smart and sustainable cities and communities’ refers to a holistic approach that integrates digital technologies with energy, transport and the built environment. It encompasses various aspects such as energy-efficient buildings, clean modes of transport and smart mobility, smart electricity grids and waste management. Standards have an important role to play in relation to each of these aspects, and also more generally in terms of ensuring interoperability, connectivity and cohesion between systems.

Through the SSCC-CG, the ESOs are collaborating with ISO’s Technical Committee on ‘Sustainable development in communities’ (ISO TC/268), as well as with IEC and ITU, in order to facilitate the coordination of European and international standardization activities. They are also working with the European Commission and participating in the European Innovation Partnership on Smart Cities and Communities (EIP-SCC), in order to promote standardization as a key enabler to ensure consistency and interoperability.

In 2015, the Technical Boards of CEN and CENELEC considered and accepted a series of recommendations that were contained in a report produced by the SSCC-CG. These recommendations address aspects such as: the collaboration between CEN, CENELEC and ETSI and their cooperation with the international standardization organizations; the need to work in partnership with cities and communities; and how the ESOs’ should contribute to the EIP-SCC and other relevant initiatives at European and global levels.

**TRANSPORT**

CEN and CENELEC develop standards for various transport modes (road, rail and maritime), as well as in relation to horizontal topics such as interoperability, intermodal transport, intelligent transport systems (ITS) and the transport of dangerous goods.

**Railways**

In the railways sector, CEN and CENELEC, together with ETSI, maintain the Sector Forum Rail (previously known as JPC Rail), which brings together representatives from the railway industry (supply industry and networks), relevant European and international organizations (such as UIC, UNIFE, UITP), Technical Committee chairs and project leaders.

Most European Standards relating to the rail transport sector are developed in the CEN Technical Committee ‘Railway Applications’ (CEN/TC 256) and in the CENELEC Technical Committee ‘Electrical and electronic applications for railways’ (CLC/TC 9X). These TCs collaborate with the European Railway Agency (ERA), in order to ensure that European Standards are compatible with the latest Technical Specifications for Interoperability (TSI).

In 2015, CEN published 13 new, revised and amended European Standards that were developed by CEN/TC 256 in the framework of standardization request M/483 from the European Commission. These include standards in relation to: brake discs (EN 14535-3); brake blocks (EN 16452); brake pad holders (EN 16451); brake block holders and shoe keys (EN 15329); fire safety requirements (EN 45545 – parts 2 and 5) and ‘call for aid and communication device’ requirements (EN 16683).

CENELEC published 9 European Standards developed by CLC/TC 9X including newly revised editions of 6 standards relating to electromagnetic compatibility of trains, power supply installations and telecommunications apparatus, etc. (parts of the EN 50121 series – revised in line with EC standardization request M/483), as well as new standards in relation to ‘Train Communication Network’ (EN 61375-2 – parts 3 and 5) and an amended edition of EN 50500 (measurement of magnetic field levels).

**Road transport**

CEN published a new European Standard regarding the interoperability between Tyre Information Systems (TIS) and Tyre Pressure Gauges (TPG) (EN 16661), which was developed by CEN/TC 301 ‘Road vehicles’ in the framework of standardization request M/457 from the European Commission. CEN also adopted as a European Standard a new international standard developed by ISO/TC 22 (Road vehicles) regarding ‘Standardized access to automotive repair and maintenance information (RMI) - Part 4: Conformance test’, which relates to EC standardization request M/421.

**Intelligent Transport Systems**

European Standards and Technical Specifications in the domain of Intelligent Transport Systems (ITS) are being developed by CEN/TC 278, within the framework of relevant standardization requests from the European Commission (such as M/270, M/338 and M/453). These standards cover aspects including: cooperative systems, travel and traffic information, route guidance and navigation, public transport, emergency vehicles and electronic fee collection. CEN cooperates closely with CENELEC, ETSI and ISO in order to ensure a coherent approach to standardization in this area.

In 2015, CEN published 12 new, revised and amended European Standards relating to ITS including 5 that are identical to ISO standards (developed by ISO/TC 204). These standards relate to: ‘service interface for real-time information relating to public transport operations’ (EN 15531 - parts 1 to 3); the ‘eCall’ system for automatic notification of road accidents (EN 15722, EN 16062, EN 16072 and EN 16454); Electronic Fee Collection systems (EN ISO 12813, EN ISO 12855, EN ISO 13141 and EN ISO 14906) and an interoperable fare management system for public transport (EN ISO 24014-1). CEN also published 9 Technical Specifications relating to ITS (including 4 identical to ISO

CEN/TC 278 has proceeded with the development of new and revised European Standards in relation to: a reference data model for public transport (EN 12896 – parts 1 to 3); electronic fee collection (EN 15876 – parts 1 and 2) and DATEX II data exchange specifications for traffic management and information (EN 16157 – parts 1 to 3). Other ongoing work includes the development of draft standardization deliverables in relation to Electronic Fee Collection systems (such as FprCEN/TR 16968 and FprCEN/TS 16986).

Transport of dangerous goods

CEN and CENELEC have continued to develop and adopt standards that are intended to support the implementation of EU Directives on the inland transport of dangerous goods (2008/68/EC) and on Transportable Pressure Equipment (2010/35/EU).

In 2015, CEN published revised and/or amended editions of 4 European Standards developed by CEN/TC 286 ‘Liquefied Petroleum Gas (LPG) equipment and accessories’ in the framework of EC standardization request M/086. These standards relate to: pressure relief valves for transportable refillable cylinders (EN 13953); inspection and maintenance of LPG cylinder valves (EN 14912); transportable refillable welded steel cylinders (EN 14140) and welded steel pressure vessels for LPG road tankers (EN 12493). CEN also published new Technical Specifications on environmental considerations (CEN/TS 16765) and terminology (CEN/TS 16769) in relation to LPG equipment and accessories.

Furthermore, CEN published revised editions of 2 European Standards relating to ‘Tanks for the transport of dangerous goods’ (EN 12972 and EN 13094), as developed by CEN/TC 296 in the framework of EC standardization request M/086.

Cableways

CEN has published newly revised editions of 7 European Standards concerning ‘Safety requirements for cableway installations designed to carry persons’ (EN 1908, EN 12930 – parts 1 and 2, EN 12930, EN 13107, EN 13223 and EN 13243). These standards, developed by CEN/TC 242, are intended to support the implementation of the European Directive on cableway installations designed to carry passengers (2000/9/EC).
ENSURING A STRONG AND EFFICIENT SYSTEM
CEN and CENELEC have continued to participate in the Committee on Standards (CoS), which was set up by the EC under EU Regulation 1025/2012. The CoS provides a forum for the European Standardization Organizations (ESOs) to discuss issues relevant to the implementation of EU Regulation 1025/2012, and the interaction between European policies and standardization, together with representatives of the EC, EFTA, national governments and the recognized European stakeholder organizations (namely ANEC, ECOS, ETUC and SBS)**.

In this framework, CEN and CENELEC were involved in discussions with the EC regarding the preparation of “The annual Union work programme for European standardisation for 2016” (COM(2015) 686 final). This document, which sets out the EC’s priorities and expectations in relation to the European Standardization System and identifies areas in which standardisation requests may be issued, was published on 8 January 2016.

CEN and CENELEC and their members took part actively in discussions regarding the development of a revised ‘Vademecum on European Standardization in support of Union Legislation and policies’ to support the implementation of EU Regulation 1025/2012. This work has resulted in a set of guidance documents that are intended for use by officials of the EU institutions and by national governments, as well as by other stakeholders. The new Vademecum was published (in 3 parts) on 27 October 2015, replacing the previous edition, which was published by the EC in 2009.

Standardization Requests

In 2015, CEN published 296 standards and CENELEC published 177 standards that have been cited (are intended for citation) in the Official Journal of the European Union (OJEU). These so-called ‘harmonized standards’ support the implementation of European legislation, notably by providing a means for manufacturers to ensure that their products comply with the requirements of EU Directives and Regulations.

CEN and CENELEC were involved in discussions with officials from various Directorates General of the EC regarding the preparation of several standardization requests, to be issued in accordance with EU Regulation 1025/2012. CEN and CENELEC jointly accepted seven standardization requests regarding the development of standards for alternative fuels infrastructure, measuring instruments, recreational craft and personal watercraft, privacy and personal data protection management, ecodesign and energy labelling requirements for water heaters, hot water storage tanks, space heaters and combination heaters, as well as for material efficiency aspects of energy-related products.

In addition to those standardization requests accepted by both CEN and CENELEC, CEN also accepted another four requests from the EC regarding the development of standards for alcohol-powered flueless fireplaces and textile products, as well as ecodesign and energy labelling of ventilation units, washing machines, dryers and dishwashers. Furthermore, CENELEC accepted three standardization requests regarding the development of standards for laser products and radio equipment, and requirements for ecodesign and energy labelling of vacuum cleaners.

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*CEN and CENELEC’s ambitions to 2020 as approved by the General Assemblies of CEN and CENELEC in June 2013

**ANEC, ECOS, ETUC and SBS have been selected by the European Commission as European stakeholder organizations representing consumers, environmental interests, social interests and SMEs respectively. These 4 organizations are eligible to receive financial support from the European Union in the framework of EU Regulation 1025/2012 (Annex III).
Single Market Strategy

“A deeper and fairer internal market” is one of the top 10 priorities identified by President Juncker for the current European Commission mandate (2014-2019). In October 2015, the EC published a Communication on “Upgrading the Single Market” (COM(2015) 550 final), which includes a section on modernizing the European Standardization System.

In its Communication, the EC states that standards are “crucial for innovation and progress in the Single Market” and “essential for European competitiveness” because they “help remove trade barriers” and “increase safety, interoperability and competition”. It recognizes that the European Standardization System is based on “a unique public-private partnership between the European regulator and the European standardization community”.

Both before and after the publication of the Single Market Strategy, the European Standardization Organizations (CEN, CENELEC and ETSI) have been proactively involved in discussions with the EC and various stakeholders regarding the preparation of a ‘Joint initiative on Standardisation’, which would reinvigorate the public-private partnership that underpins the European Standardization System. In this context, the three ESOs participated actively in the First Stakeholders’ Meeting on 23 November.

On the occasion of World Standards Day (14 October 2015), CEN and CENELEC partnered with the Commission to jointly organize an open online conversation on Twitter (‘Tweet Chat’) focusing on the theme of ‘Standards and the EU Single Market’. This initiative attracted the support and participation of various members and partners of CEN and CENELEC, alongside ETSI and other stakeholders.

Digital Single Market

The Digital Single Market is another of the Commission’s top 10 priorities, and the Digital Single Market Strategy (COM(2015) 192 final) was presented in May 2015. In this context, the Commission has stated that interoperability and standardization are crucial elements for boosting the EU’s competitiveness and maximising the growth potential of the digital economy.

The CEN and CENELEC Work Programme includes standardization activities in relation to many different topics that are mentioned in the Commission’s Rolling Plan for ICT Standardisation, such as: cybersecurity and e-privacy, e-health, e-accessibility, e-skills and e-learning, e-procurement and e-invoicing, smart grids and smart metering, smart and sustainable cities or Intelligent Transport Systems (ITS).

CEN and CENELEC have continued to participate in the European Multi Stakeholder Platform (MSP) on ICT standardization, which was set up by the EC in 2011. CEN and CENELEC participated in all four MSP meetings that were held in 2015, and contributed to the process of updating the EU Rolling Plan for ICT Standardisation. Furthermore, CEN and CENELEC successfully applied to become a partner of the ‘Alliance for the Internet of Things Innovation’ (AIOTI), which brings together a wide range of stakeholders including companies active in a wide range of different sectors and industries.

Better Regulation Agenda


In this context, the EC decided to establish a REFIT Platform, which would enable Member States and stakeholders to be involved in an ongoing dialogue on how to simplify and improve EU legislation in the context of the Regulatory Fitness and Performance (REFIT) Programme (which was originally launched in December 2012).

CEN and CENELEC are actively promoting the role of European standardization in the context of the Better Regulation Agenda, and in September 2015 they met with officials from the Cabinet of EC Vice-President Timmermans to discuss the benefits of market driven standardization as a means of supporting European policy objectives. In December 2015, the Director General of CEN and CENELEC, Elena Santiago Cid, was appointed to represent the European Standardization Organizations in the Stakeholder group of the REFIT Platform.

In June 2015, the members of CEN and CENELEC adopted a new publication which clarifies the benefits of using voluntary standards to support the implementation of legislation and policies. CEN-CENELEC Guide 30 ‘European Guide on Standards and Regulation - Better regulation through the use of voluntary standards - Guidance for policy makers’ is intended for politicians and policy-makers, as well as other stakeholders of the European Standardization System.

Furthermore, CEN and CENELEC liaised with several EC officials to provide advice on how standards should be referred to in various policy documents and draft regulations. They also provided input to the revision of the Commission’s ‘Blue Guide’ on the implementation of EU product rules 2016 (C(2016) 1958 final – published on 5 April 2016).

TECHNICAL COOPERATION BETWEEN CEN AND CENELEC

The CEN and CENELEC Technical Boards (BTs) are responsible for the governance and coordination of technical work and related processes, leading to the development of European standardization deliverables by the two organizations within their respective domains. With the increased importance of horizontal topics that are relevant to both electrotechnical and non-electrotechnical areas, the CEN and CENELEC BTs cooperate on a growing range of joint initiatives addressing both technical and operational matters.

The areas in which CEN and CENELEC cooperate with each other include: ecodesign, energy management, e-mobility, healthcare, lighting, machinery, nuclear energy, personal protective equipment (PPE), rail transport and adaptation to climate change. They also cooperate with ETSI in a number of areas where digital technologies are playing a particularly important role, such as: defence, smart energy grids and smart metering, energy efficiency of communication networks and data centres, as well as smart and sustainable cities and communities.

In addition, CEN and CENELEC BTs have set up joint Working Groups to address operational issues such as how to evaluate the market relevance of new standardization work and how to reduce the development time for new standards,
a common approach to project management within Technical Bodies, and how to work with the European Commission during the preparation of standardization requests.

During 2015, CEN and CENELEC concluded a new agreement with the EC regarding the role and responsibilities of so-called ‘New Approach Consultants’ (NACs). NACs help to verify that European Standards (and other deliverables) developed by CEN and/or CENELEC in response to standardization requests from the EC are in conformity with the requirements of the relevant EU legislation and policies. The work of NACs is being coordinated and managed by the CEN-CENELEC Management Centre (CCMC).

The joint CEN-CENELEC BT Working Group on ‘New Approach Consultants’ (CEN-CLC/BTWG 127-2) started work on developing a framework for Technical Bodies to assess draft standards’ compliance with the requirements of EC Standardization Requests. The same BTWG has also prepared a modified version of Annex C of CEN-CENELEC Guide 15, in order to enhance the process.

The relationship between European Standards and EU legislation relating to construction products (Construction Products Regulation - 305/2011) was the main focus of an Interactive Workshop organized by CEN and CENELEC, which took place in Brussels on 26 October 2015. Following this workshop, the Technical Boards of CEN and CENELEC decided to create a new joint Working Group ‘Strategy for the construction sector’ (CEN-CENELEC/BTWG 9).

CEN and CENELEC provide online presentations which are opportunities to learn about various topics related to the European Standardization System. The ‘10-10 webinars’ can be accessed via the internet and are normally held on the 10th of each month, starting at 10:00 (CET). They are intended for officers and members of Technical Bodies, as well as for staff of members and partners and other stakeholders. Participants are invited to interact and submit questions in writing – both during and after each presentation. CEN and CENELEC produced nine ‘10-10 webinars’ in 2015; the average number of participants was 107 and the average satisfaction rate was 80%.

### SEMINAR FOR TECHNICAL BODY OFFICERS

Every two years, a seminar is organized in Brussels for Chairpersons and Secretaries of CEN and CENELEC Technical Bodies. These seminars are also open to representatives from national standardization organizations (i.e. members of CEN and CENELEC). They provide a platform for participants to share information and exchange ideas.

The most recent Seminar for CEN and CENELEC Technical Body Officers took place in Brussels on 2 December 2015. A wide variety of topics were presented, including: rules and processes (CEN-CENELEC Internal Regulations); the links between standards and EU legislation (Regulation 1025/2012 and the revised Vademecum on European Standardization); the adaptation of standards to market needs (enhancing the involvement of partner organizations, with a particular focus on societal stakeholders and SMEs); technical cooperation with national and regional standardization organizations in other parts of the world; and links with research and innovation. Participants also learned about the IT tools that CEN and CENELEC provide for Technical Body Officers, and discussed the interaction between the Technical Bodies and the CEN-CENELEC Management Centre, including the support offered by the Programme Managers and the Publications team.

Before the Seminar (on 1 December), separate Training Sessions were held for recently-appointed Chairpersons and Secretaries of CEN Technical Bodies, and for those of CENELEC Technical Bodies. These Training Sessions provided opportunities for recently-appointed Technical Body Officers to become acquainted with various concepts and tools that are relevant to their work.

### CEN-CENELEC LEGAL ACTIVITIES

The Legal Affairs Department of CCMC continues to enforce and protect the Intellectual Property Rights (IPR) of both organizations, working in partnership with the CEN-CENELEC Legal Platform, which brings together legal experts from the national members of both organizations, as well as from ISO and IEC.

As part of their ongoing efforts to ensure respect for copyright, CEN and CENELEC, in coordination with ISO and IEC, have invited their respective members to consider using the ‘Digimarc Guardian’ anti-piracy service, based on a proposal that was negotiated with Digimarc Corp. In addition, they have contributed to the work of an informal web anti-piracy group managed by ISO secretariat. In this context, CEN and CENELEC have agreed with ISO and IEC to assess the efficiency and effectiveness of the ‘Digimarc Guardian’ service in 2016, and to further strengthen copyright enforcement with new initiatives.

In the context of the debate regarding the inclusion of ‘essential’ patents in standards, CEN and CENELEC, supported by ISO and IEC, submitted a joint response to the European Commission’s Public Consultation on Patents and Standards (in February 2015). In this context, CEN and CENELEC also took part in discussions with the European Commission and contributed to a new study being prepared by the EC.

In September 2015, the members of CEN and CENELEC approved a new edition of CEN-CENELEC Guide 8 ‘Guidelines for Implementation of the Common Policy on Patents (and other statutory intellectual property rights based on inventions)’. The revised edition of CEN-CENELEC Guide 8 was updated in order ensure continued close alignment with the common policy of the international standardization organizations (ISO, IEC and ITU).

In December 2015, CEN and CENELEC published a new Guide aimed at participants in their activities, providing guidance on how to comply with competition law. CEN-CENELEC Guide 31 ‘Competition law for participants in CEN-CENELEC activities’ contains a set of rules that have to be followed by all persons participating in the work of CEN and CENELEC’s technical and governing bodies and their working groups. The guide was drafted in coordination with ISO and IEC, following exchanges of information with ETSI.

### CEN-CENELEC COMMERCIAL ACTIVITIES

The role of the CEN-CENELEC Joint Commercial Advisory Group (JCAG) is to develop and monitor the commercial activities of both organizations and their Members, including issues linked to the distribution of European Standards and other publications produced by CEN and/or CENELEC.
In February 2015, CEN and CENELEC published a revised edition of CEN-CENELEC Guide 10 ‘Policy on dissemination, sales and copyright of CEN-CENELEC Publications’. This Guide provides members and stakeholders with important guidance on how to manage the distribution of CEN and CENELEC publications, taking into account the evolving needs of the market.

■ CEN AND CENELEC PUBLICATIONS

Within the CEN-CENELEC Management Centre (CCMC), the Standards Directorate is responsible for the platform that serves for establishing high quality CEN and CENELEC publications through the maintenance of the rules and processes for standardization work, facilitating the achievement of the work programmes, and editing and processing of European standardization deliverables.

The total number of technical documents published by CEN and CENELEC in 2015 was 1616. At the end of the year, the total number of valid (or ‘living’) documents in the CEN portfolio was 15985, while the total number of CENELEC documents was 6937.

In 2015, CEN and CENELEC introduced a modified ‘enquiry’ procedure, which is closely aligned with the procedures in ISO and IEC, and should reduce the time to market of standards whenever possible. Depending on the results of the vote associated with the new enquiry, it is possible to skip the formal vote and proceed directly with the publication of a standard.

■ CEN-CENELEC MEMBERSHIP CRITERIA

CEN and CENELEC have proceeded to implement a common system (as described in CEN-CENELEC Guide 22) for assessing their members’ compliance with common membership criteria (as set out in CEN-CENELEC Guide 20). Under this system, each member of CEN and/or CENELEC has to undergo a regular assessment (once every four years) to check that they comply with the membership criteria.

The Membership Relations & Monitoring Committee (MRMC) of CEN and CENELEC is responsible for reviewing the assessment reports and for identifying good practices that are then shared with all the members of CEN and CENELEC.

In 2015, the MRMC reviewed and approved assessment reports from 17 national members of CEN and CENELEC. These reports resulted from 16 self-assessment exercises (including 7 that were combined with EN ISO 9001 audits done by recognized certification bodies) and 1 peer assessment (carried out by assessors appointed by the MRMC).

The MRMC has continued to identify and promote ‘good practices’ that may be of interest to the whole CEN and CENELEC community. In this regard, in 2015 the MRMC decided to promote two additional good practices among all members (in addition to the three good practices that were promoted in 2014). These good practices relate to: (1) visibility, easy access and wide consultation of all stakeholders on New Work Item (NWI) proposals at national level; and (2) coaching and training activities of experts and stakeholders participating in technical bodies at national, European and/or international levels. At the end of 2015, the first good practice (on NWI proposals) had been implemented by 24 national members of CEN and/or CENELEC, while 32 members were already engaged in implementing the second good practice (on coaching and training activities).

Following the completion of the first round of assessments in 2015, a second round of assessments will begin in 2016. In order to support this process, CEN and CENELEC organized a training workshop in Brussels on 5 May 2015, which was attended by 29 participants representing 22 different members of CEN and CENELEC. The workshop focused on aspects relevant to the second round of assessments, including: the links and synergies between the requirements of EU Regulation 1025/2012 and the membership criteria of CEN and CENELEC; the implications of choosing a peer assessment or a self-assessment combined with an EN ISO 9001 audit; and how good practices should be shared and promoted among the members.

Participants of the training workshop for CEN and CENELEC members on 5 May 2015
In 2015, CEN and CENELEC invested in developing enhanced IT applications and automations in the framework of a CEN and CENELEC IT Strategy. One of the key principles of the CEN and CENELEC IT Strategy is the alignment of relevant and achievable tools used at international level (ISO and IEC).

**Improved eCommittee**

The modernized CEN collaborative platform, ‘eCommittee’ presents an advanced interface giving better performance. The harmonized look and feel across various servers offer a greater user experience, creating a more seamless CEN working experience.

**Projex-online boost**

CEN and CENELEC PROJEX-ONLINE, an online work programme monitoring tool for TC and NSB-NC Officers, was also reworked with additional data, functionalities, and extended accessibility hours.

**Upgraded voting system**

The standard acceptance process is now shorter and associated with a vote supported by the upgraded Enquiry voting system, launched on 1 January 2015 for CEN, and 1 April 2015 for CENELEC.

Partners can now submit online comments on a draft standard, and have comments automatically integrated into the electronic voting platform.

Today, CEN and CENELEC members can better monitor their organizations’ votes on standards acceptance through the newly available voting statistics.

**Modernized reviewing of ENs**

The electronic voting system supports the new centralized CEN ENs reviewing process.

**Advancement on data feed for the national databases**

Significant enhancements were also made on PROJEXDATA, including a feedback system allowing efficient reporting, follow-up, and visibility on issues.

**Supporting national alert services for SMEs**

In December 2015, CEN and CENELEC launched a new web service, an up-to-date information utility from the CEN and CENELEC database to support and increase awareness of the national alert services for SMEs.

**XML production process**

As of January 2016, CENELEC Members receive home-grown CENELEC Standards content in XML.

**More automation**

CENELEC AG decision process improved through a new electronic voting tool.
In January 2016, 80 people were working at CEN-CENELEC Management Centre (CCMC) in Brussels, and 3 were under hiring.

**Employee development**

Stimulate project-based working

Unit Managers followed a four-month training and coaching programme receiving hands on experience in a number of project management techniques. Two workshops fostered teamwork and were completed by tailored individual coachings.

Enhancing behavioural competences

This dedicated development plan links individual competences to performance management, resulting in an increased exchange of best practices.

New law to prevent psychosocial risks at work

73% of employees attended a one-day workshop focusing on stress reduction. The methodology applied at CCMC ensured employees partook in the risk screening and subsequently proposing a series of recommendations.

**Quality Management System (QMS)**

In 2015, CCMC prepared the groundwork for the transition of its Quality Management System (QMS) in line with the new edition of EN ISO 9001, published on 15 September 2015.

The new generation of management standards

More efficient.

Driven by competences.

Lower costs, improve quality, and timely delivery.

Effective process management.

Adapting to a complex, demanding, and dynamic environment.

Responding to evolving technologies and Quality Management Practices.

Elements anchored in the QMS

Understanding of the organizational context, managed through the CCMC Business Plan (supporting CEN and CENELEC’s Ambitions to 2020).

Significant HR Management efforts related to training programmes and development of employees’ competences to support the business.

Improved CCMC business performances and tools

Implementing a risk based approach for each QMS process.

Broadening knowledge and developing competences.

Enhancing leadership and accountability concepts.
The CEN-CENELEC Management Centre provides high-quality meeting facilities which are used by the CEN and CENELEC communities, for example to host meetings of Technical Committees and Working Groups.

The CEN-CENELEC Meeting Centre offers a professional environment for large and small gatherings, with a choice of 9 different meeting rooms. Wireless internet access, digital projectors, microphone systems and printing facilities are all available. The Meeting Centre team is ready to assist with the registration of participants, the provision of meals and refreshments, as well as information on local transport and hotel accommodation.

The Meeting Centre also provides online conferencing facilities, so that people can participate in European meetings without travelling to Brussels. With these facilities, participants are able to follow presentations and share documents via the internet and actively contribute to discussions in real time.

### CEN-CENELEC Meeting Centre - Occupancy

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Number of Meetings</th>
<th>Total Number of Persons Attending</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>1,106</td>
<td>2011</td>
</tr>
<tr>
<td>2012</td>
<td>998</td>
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<td>2014</td>
</tr>
<tr>
<td>2015</td>
<td>982</td>
<td>2015</td>
</tr>
</tbody>
</table>

### CEN-CENELEC Meeting Centre - Web Meetings

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Number of Web Meetings</th>
<th>Total Number of Online Participants</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2012</td>
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<td>2014</td>
<td>888</td>
<td>2014</td>
</tr>
<tr>
<td>2015</td>
<td>833</td>
<td>2015</td>
</tr>
</tbody>
</table>

The Meeting Centre provides high-quality meeting facilities which are used by the CEN and CENELEC communities, for example to host meetings of Technical Committees and Working Groups.
CEN and CENELEC, together with their national members, are determined to engage with the business community and to ensure that companies of all sizes are encouraged and supported to get involved in standardization activities. As well as participating in technical work, industry representatives (alongside other stakeholders) can contribute to discussions on policy-related and strategic matters, and they can also help to identify areas where standardization could bring benefits to businesses and consumers.

In this context, CEN and CENELEC organized a ‘Workshop on Industry Engagement’ on 5 October 2015, which was attended by representatives of 18 European industry federations and 16 national standardization organizations (members of CEN and CENELEC). Discussions during this workshop resulted in recommendations regarding the role of the CEN-CENELEC Joint Policy Group as a platform for partner organizations to raise strategic and policy-related issues, and the participation of industry representatives in Coordination Committees that liaise with technical bodies in specific sectors. These recommendations were submitted to the Administrative Boards of CEN and CENELEC for further discussion and follow-up.

SME PARTICIPATION

CEN and CENELEC remain committed to supporting the participation of small and medium-sized enterprises (SMEs) in standardization, which is also a key objective of EU Regulation 1025/2012. Together with their national members, they have developed a range of tools and means to make it easier for SMEs to learn about standardization, to access and apply standards, and to get involved in standardization activities.

The CEN-CENELEC SME Working Group, chaired by CEN’s Vice-President Policy, includes representatives of national standardization organizations, SBS (Small Business Standards), the European Commission and other relevant stakeholders. The SME Working Group facilitates the sharing of experiences among the national members of CEN and CENELEC, builds links between different initiatives that could be relevant for SMEs, and promotes close cooperation with SBS through joint activities.

In 2015, CEN and CENELEC launched an ‘e-Learning Tool for SMEs’, which was developed in close cooperation with Small Business Standards (SBS). This online tool can be accessed via the CEN-CENELEC website (free of charge) and is available in 23 different languages. It provides an interactive environment that enables entrepreneurs, managers and employees to learn about standards and standardization in a way that corresponds with their own needs.

All the national members of CEN and CENELEC provide information on their respective websites that is tailored to the needs of SMEs (following the example of the ‘SME Toolbox of Solutions’ on the CEN-CENELEC website). The ‘SME Alert System’, launched at the end of 2015, will enable national members to further develop and improve the information services they offer to SMEs.

Furthermore, CEN and CENELEC cooperate with IFAN (International Federation of Standards Users), which brings together representatives of companies, professional and trade associations, academia, conformity assessment bodies, consultancies and governmental agencies. In particular, CEN and CENELEC participate in the activities of the IFAN European Group in order to ensure an efficient sharing of information between standard makers and standard users. In this context, CEN and CENELEC also hosted a meeting of the IFAN European Group in June 2015.

Further information: www.cencenelec.eu/sme

SOCIETAL STAKEHOLDERS

European Standards take into account the needs and concerns of all stakeholders, including consumers, workers and the wider society. These societal stakeholders are represented through dedicated umbrella organizations: ANEC (the European consumer voice in standardization), ECOS (the European Environmental Citizens Organization for Standardization), and ETUC (the European Trade Union Confederation). These organizations are represented in the CEN-CENELEC Societal Stakeholders Group (SSG), which is chaired by CEN’s Vice-President Policy, and provides a framework for cooperation and dialogue on a wide range of relevant issues.

On 22 May 2015, CEN signed a Partnership Agreement with ETUC (European Trade Union Confederation). Under this agreement, ETUC may participate (with observer status) in the CEN Annual Meeting (General Assembly) and in meetings of the CEN Technical Board. ETUC may also nominate observers to participate in the work of CEN Technical Bodies. In this way, trade unions can directly contribute to the development of European Standards relating to the health and safety of workers, the delivery of services, and other issues of relevance to employees.

The ‘CEN-CENELEC e-Learning Tool for SMEs’ uses animated videos to tell educational stories addressing different aspects of standards and standardization

Bernadette Ségol (General Secretary of ETUC) and Elena Santiago Cid (Director General of CEN and CENELEC) signed the Partnership Agreement between CEN and ETUC in Brussels on 22 May 2015
Following the completion of the ‘Societal Stakeholders Toolbox’, which can be accessed via the CEN-CENELEC website, the SSG has started to consider the possibilities to develop an e-Learning tool for societal stakeholders. The SSG has also established online ‘logs’ for ANEC, ECOS and ETUC to raise questions and issues that require a response or follow-up from CEN and CENELEC.

The Administrative Boards of CEN and CENELEC have decided to launch a project (in 2016) with the aim of supporting the full and effective participation of societal stakeholders organizations in standardization activities at European and international levels (notably in relation to standards developed in the framework of cooperation between CEN and ISO or between CENELEC and IEC).

Further information: www.cencenelec.eu/societal

■ RESEARCH AND INNOVATION COMMUNITIES

CEN and CENELEC’s activities in relation to research and innovation are coordinated by the CEN-CENELEC Working Group on Standardization, Innovation and Research (STAIR).

During 2015, CEN and CENELEC sought to develop their links with European Technology Platforms (ETPs), which are ‘industry-led stakeholder fora recognized by the European Commission as key actors in driving innovation, knowledge transfer and European competitiveness’. ETPs were mapped against existing Technical Committees and CEN and CENELEC gave presentations to ETP members at selected events. In addition, CEN and CENELEC produced two webinars aimed at members of the research and innovation communities, which were followed by more than 400 stakeholders.

‘Bridge the Gap’ (BRIDGIT)

The ‘Bridge the Gap’ (BRIDGIT) project, which ended in March 2015, sought to highlight the various ways in which standardization can support innovation, and to reinforce the links between the standardization, research and innovation communities. The project partners included CEN and CENELEC alongside nine of their national members, supported by the European Commission and EFTA.

The implementation of the BRIDGIT project involved the completion of a research study looking at the benefits of linking innovation and standardization, and the preparation of information materials highlighting success stories and examples of best practice. Various training and awareness-raising events were organized including national workshops in seven countries, and a large scale European conference was held in Brussels on 30 October 2014.

The outcomes of the BRIDGIT project include: new publications aimed at national members of CEN and CENELEC, developers and proposers of research and innovation projects, and the National Contact Points (NCP) of the Horizon 2020 programme; 20 ‘success stories’ with information about research and innovation projects in different sectors that have linked-up with standardization activities; and a series of four training videos for CEN and CENELEC members, addressing various aspects of how to link standardization with research and innovation activities.

The successful completion of the BRIDGIT project has strengthened the capacity of CEN and CENELEC and their national members to engage with the research and innovation communities. In particular, there is a much greater level of awareness about the possibilities and practical aspects of feeding the outcomes of research and innovation projects into the work of Technical Committees, Working Groups and Workshops within CEN and/or CENELEC.

Horizon 2020

European standardization has an important contribution to make towards achieving the objectives of the Innovation Union initiative that has been launched by the European Commission in the framework of the Europe 2020 Strategy. Within this context, standardization is especially relevant for the successful implementation of Horizon 2020 – the European Union’s multi-annual programme for research, development and innovation, which was launched in 2014.

The European Commission launched the second wave of calls for projects in the framework of Horizon 2020 at the end of 2015, and CEN and CENELEC were pleased to see that many of these calls include explicit references to standardization. This is especially the case for calls opened under ‘Leadership in Enabling and Industrial Technologies’ and the ‘Societal Challenges’ pillar.

Largely as a result of the close cooperation with the research and innovation community developed during the BRIDGIT project, an increasing number of project developers have been seeking advice on how to include standards in their project proposals. Such advice is provided by the CEN-CENELEC Research Helpdesk and also by the members of CEN and CENELEC, via a network of national Research, Development and Innovation Correspondents (RDI-COR).

In certain cases, a national member of CEN and/or CENELEC may decide to get involved in a research/innovation project that could contribute to an ongoing or potential standardization activity. This is also a way of ensuring that standards and standardization are being properly addressed by these projects. At the end of 2015, CEN and CENELEC members were partners in 25 projects supported by Horizon 2020.

Putting Science into Standards

CEN and CENELEC cooperate with the European Commission’s Joint Research Centre (JRC) and the European Association of Research and Technology Organisations (EARTO) on developing the ‘Putting Science into Standards’ (PSIS) initiative, which was launched in 2013 in the framework of the European Forum for Science and Industry (EFSI). In this context, CEN and CENELEC co-organized a conference on ‘Evidence-based quality assurance – an example for breast cancer’, which was held at the European Institute for Healthcare and Consumer Protection in Ispra (Italy) on 20 and 21 October 2015. This event focused in particular on the European Commission Initiative on Breast Cancer (ECIBC), and the proposal to establish a European Quality Assurance (QA) scheme for services provided for breast cancer patients.

The conference in Ispra attracted some 70 participants including researchers and representatives of various stakeholders such as patients, clinicians, medical centres, regulatory authorities, accreditation bodies and the medical technology industry. Karl Grün, Director Standards Development of Austrian Standards, made a presentation about the role and potential benefits of standardization. There was a general acceptance among the participants that
standardization can play an important role in the provision of quality healthcare services. CEN is following-up a number of standardization-related issues that were identified during the conference.

**Standardization and Metrology**

CEN and CENELEC have renewed in 2015 their cooperation agreement with the European Association of National Metrology Institutes (EURAMET), which brings together the national metrology institutes of 37 European countries. The three partners are working to promote closer links between standardization and metrology, notably in the framework of the European Metrology Programme for Innovation and Research (EMPIR), which is supported by the European Union.

In this context, the partners have set up the ‘STAIR-EMPIR Platform’ to provide a forum for sharing expertise between the standardization and metrology communities, and for discussing strategic issues of common interest. At the STAIR-EMPIR meeting on 17 December 2015, participants identified a number of specific standardization needs that could potentially be addressed by research projects supported by the EMPIR programme. The outcomes of this meeting have been forwarded to EURAMET so that they may be taken into consideration during the preparation of calls for proposals to be launched in 2016.

Further information: www.cencenelec.eu/research

### EDUCATION ABOUT STANDARDIZATION

The CEN-CENELEC Joint Working Group on ‘Education about Standardization’ (JWG-EaS) includes representatives of national standardization organizations (members of CEN and CENELEC) alongside observers from the European Commission, ISO and IEC, academia and business organizations.

The main aim of JWG-EaS is to raise awareness of standardization and increase the number of people who know about how standards are made and the benefits of standardization – for example in terms of sharing knowledge and spreading best practice. Education activities are not only aimed at students (by working in partnership with schools, colleges, universities, etc.), but also at other groups such as managers and employees, public officials and policy makers.

In order to promote education about standards and standardization, four of CEN and CENELEC’s national members (BSI, DS, NSAI and SFS) have worked in partnership with the University of Zagreb to develop materials suitable for higher education students. The resulting textbook ‘A World Built on Standards’ is available in English, and may be downloaded free of charge from the Danish Standards website (www.ds.dk/education). Supporting materials include multiple choice questions, presentation slides and case studies.

Another example of a successful initiative can be found in Luxembourg, where ILNAS (member of CEN and CENELEC) is cooperating with the University of Luxembourg to include information about standards and standardization in a specialist course on ‘Smart ICT for business innovation’. Meanwhile, CEN and CENELEC have continued to develop their cooperation with the College of Europe in Bruges (Belgium), and contributed to the development of proposals for new course modules that would enable students to learn about standards and standardization.

Further information: www.cencenelec.eu/standards/education
FOSTERING GLOBAL OUTREACH
Fostering global outreach

International standards (ISO and IEC) and ENs play a crucial role in supporting the global outreach of Europe’s industries and fostering technical alignment with Europe’s major trading partners. CEN and CENELEC aim at contributing to the removal of Technical Barriers to Trade (TBTs) and engaging in cooperation activities with national and regional standardization bodies worldwide.

1. Promoting market harmonization with neighbouring countries

The 16 CEN Affiliates and 13 CENELEC Affiliates are essential partners for Europe at all levels and work towards greater market harmonization and technical alignment with Europe. The adoption of European Standards by CEN and CENELEC Affiliates plays a key role in supporting free circulation of goods between the EU and EFTA Member States and neighbouring countries.

The champions of ENs adoption (% of ENs adopted from the CEN and CENELEC portfolio)

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serbia</td>
<td>90.90%</td>
</tr>
<tr>
<td>Albania</td>
<td>88.52%</td>
</tr>
<tr>
<td>Bosnia and Herzegovina</td>
<td>79.76%</td>
</tr>
</tbody>
</table>

The champions in adopting most ENs in 2015

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of ENs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Republic of Moldova</td>
<td>5,362 ENs</td>
</tr>
<tr>
<td>Montenegro</td>
<td>2,501 ENs</td>
</tr>
<tr>
<td>Ukraine</td>
<td>1,977 ENs</td>
</tr>
</tbody>
</table>

The big picture

26% Average share of standards in CEN and CENELEC portfolios adopted by Affiliates

93,448 Total number of ENs adopted by all CEN and CENELEC Affiliates

12,997 Number of ENs adopted by CEN and CENELEC Affiliates in 2015

Sectorial perspective

On average, the Affiliates have adopted 30% of European Standards (ENs) in the nine leading technical sectors, with building and civil engineering, machinery and toys being the most popular.

The average adoption level of European Standards among CEN and CENELEC Affiliates in leading sectors
Affiliates’ involvement in CEN and CENELEC technical work

In addition to their interest in adopting European Standards (ENs), the Affiliates also contribute to their development, nominating observers to CEN and CENELEC Technical Committees (T Cs).

### The big picture

| 261 observerships in 129 CEN and CENELEC TCs | 46 observerships in Building and Civil Engineering | 43 observerships in Mechanical Engineering |

### Supporting the integration of Affiliates

In order to support the integration of Affiliates in the CEN and CENELEC community, the Technical Assistance Information Exchange Instrument of the European Commission (TAIEX) organized two events, inviting contributions from CEN and CENELEC.

At the "Multi-Country Seminar on Increased Cooperation with Countries from the Eastern Partnership in the field of Standardization" organized in Warsaw as well as an event in Sofia targeting countries from the Western Balkans and Turkey, CEN and CENELEC addressed the Affiliation status of the European Neighbourhood Policy (ENP) countries and their involvement in standardization work at European level.

CEN and CENELEC participation in such events greatly benefits the Affiliates by tackling issues they have encountered in efforts to harmonize with the European market and access ENs. Positive outcomes have included a higher level of commitment from the Affiliates to respecting their obligations by notifying the adoption of European Standards.

### 2. Region-to-region cooperation

The European Union is the most advanced and successful model of regional integration, mainly due to its regulatory approach which goes beyond tariff and non-tariff barriers issues.

The success, specificities and uniqueness of the European Standardization System has attracted the interest of other regions who are trying to reinforce their economic integration. These regions are aiming for greater regional harmonization while seeking inspiration from the European experience.

CEN and CENELEC have signed Memoranda of Understanding (MoUs) with ten regional standardization bodies, and in 2015 organized information activities with six of these organizations.

#### Sharing the success of the European standardization model

In 2015, two organizations undergoing institutional reform, the EuroAsian Interstate Council for Standardization, Metrology and Certification (EASC) and the Standardization Organization of the Cooperation Council for the Arab States of the Gulf (GSO), invited CEN and CENELEC to share their success in building a strong standardization system and to explore solutions which could facilitate a greater inter-regional alignment of standards.

<table>
<thead>
<tr>
<th>CEN-CENELEC-ETSI and AMN</th>
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<tbody>
<tr>
<td>MERCUSOR Association for Standardization</td>
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</table>

<table>
<thead>
<tr>
<th>CEN-CENELEC-ETSI and COPANT</th>
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<tbody>
<tr>
<td>Pan-American Standards Commission</td>
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<table>
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<tr>
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<tr>
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<td>Arab Industrial Development and Mining Association</td>
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<tbody>
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<td>African Organization for Standardization</td>
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<tr>
<td>African Electrotechnical Standardization Commission</td>
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<td>Arab Industrial Development and Mining Organization</td>
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<tr>
<th>CENELEC and CANENA</th>
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<tbody>
<tr>
<td>Council for Harmonization of Electrotechnical Standards of the Nations of the Americas</td>
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</tbody>
</table>
**Inter-regional technical cooperation**

AFSEC (African Electrotechnical Standardization Commission) has observer status in the CEN-CENELEC-ETSI Smart Energy Grids Coordination Group and, together with CENELEC, is exploring measures which would facilitate the adoption of European Standards among its members.

Following CEN and CENELEC participation in the COPANT (Pan American Standards Commission) General Assembly and promotion of the progress and achievement made in the Smart Energy Grids sector, COPANT expressed specific interest in exchanging information and expertise on this topic.

Invited to contribute to the 52nd ARSO (African Organization for Standardization) Council, CEN shared its expertise in the “Standards development and implementation” process while also highlighting the role European Standards play in supporting the European Union integration process and the European Single Market, a topic of high interest for the ARSO community.

**Promotion of the European standardization model**

2015 was particularly busy hosting study visits made by several national and regional standardization bodies interested in learning more about the European standardization model. Of specific interest was how this model supports the European economic integration process and how it has successfully achieved a level of technical alignment with no equivalent elsewhere in the world.

Just some of the standardization bodies making study visits to CEN and CENELEC in 2015:

- the recently created South Asian Regional Standards Organization (SARSO),
- the Brazilian National Institute of Metrology, Quality and Technology (INMETRO),
- the Agence des Normes et de la Qualité (ANOR) from Cameroun,
- the State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan (SCSMP)
- the Sub-group 3 “Technical Regulations and Conformity Assessment” of the common market group of MERCOSUR composed of representatives from Uruguay, Paraguay, Brazil and Argentina.

Follow-up activities included the signature of a first License Agreement with ANOR for the identical adoption of over 100 homegrown CEN and CENELEC ENs in Cameroon.

**3. Cooperation with other National Standardization Bodies**

CEN and CENELEC cultivate close relationships with the National Standardization Bodies (NSBs) and National Committees (NCs) of numerous countries around the globe. These relations help remove TBTs and cut compliance costs by promoting the broadest possible adoption of ISO and IEC standards and the identical adoption of homegrown European Standards where no international solution is available.
Adoption of homegrown European Standards

24 NSBs (excluding CEN and CENELEC Members and Affiliates) requested ENs for adoption or review while 18 of them notified the adoption of 1,858 ENs in total.

Compared to previous years, there was an increase of 12.8% in the requests for homegrown European Standards by NSBs and NCs of third countries (i.e., excluding Affiliates).

Cooperation with key national partners

Reaching a high level of technical harmonization with the EU’s main trade partners is a key objective for CEN and CENELEC. In this regard, CEN and CENELEC have signed five Cooperation Agreements with NSBs/NCs contributing to the removal of TBTs by supporting information exchanges and technical cooperation.

Fostering cooperation

CEN and CENELEC signed a Joint Letter of Intent with the Standardization Administration of China (SAC) in the framework of the EU-China Summit in Brussels, confirming the commitment of the three partners to work together to facilitate trade and support sustainable economic growth in Europe and China.

2015 technical cooperation achievements

In 2015, Rosstandart, the Russian NSB, started observing CENELEC TC 9X (Electrical and electronic applications for railways) and CEN TC 408 (Project Committee - Natural gas and biomethane for use in transport and biomethane for injection in the natural gas grid). Meanwhile CEN and CENELEC have initiated the procedure to gain observer status in several Rosstandart TCs.

The cooperation with the Japanese Industrial Standards Committee (JISC) facilitated direct interactions among experts in sectors where JISC is observing CEN and CENELEC Technical Committees including Mechanical Engineering, Food and Environment. During the CEN-CENELEC-JISC Annual Secretariat Meeting, the partners exchanged views on Patents in Standards, their respective activities in the field of Smart Appliances, and on the early involvement of ISO and IEC in the process of CEN and CENELEC response to EC standardization requests.

CEN, CENELEC and Standards Council of Canada (SCC) facilitated a dialogue on concerns expressed by Canadian stakeholders in relation to a draft European Standard on timber. In response to various exchanges, the Canadian concerns were successfully addressed and reflected in the finalization of the EN. The three organizations also agreed to renew their cooperation agreement for a period of three years, starting in 2016.
4. Support to regulatory dialogues and trade talks

When the European Union is involved in regulatory dialogues and trade talks with its major trading partners, CEN and CENELEC are often invited to participate in Working Groups addressing issues related to standardization and TBT. By participating in trade dialogues and regulatory dialogues, CEN and CENELEC contribute to promoting technical alignment, thereby facilitating market access and supporting economic integration.

Transatlantic Trade and Investment Partnership (TTIP) negotiations

CEN, CENELEC and ANSI (American National Standards Institution) met in February 2015 in London to exchange information and discuss matters of mutual interest, including the role of standardization in the context of the TTIP negotiations between the European Union and the US.

In answer to one of the most controversial questions around the TTIP negotiations, CEN and CENELEC issued a position paper warning about the risks that mutual recognition of standards would entail for Europe in the context of TTIP.

Contribution to the EU-Japan regulatory dialogue

CEN and CENELEC participated in the 18th meeting of the EU-Japan Working Group Conformity Assessment and Standardisation. The participants provided an overview on current activities in the area of Technical Regulation, Conformity Assessment and Accreditation. They also exchanged views on issues of mutual interest such as the Circular Economy and the emergence of Smart Appliances.

5. Increasing awareness of the European Standardization System

The European Standardization Organizations (CEN, CENELEC and ETSI) together with the European Commission (DG GROW) and the European Free Trade Association (EFTA) have two visibility projects in China (the Seconded European Standardization Expert in China-SESEC) and in India (the Seconded European Standardization Expert in India-SESEI). These projects aim to increase awareness of the European Standardization System, and to support dialogue and cooperation between Europe, China and India on standards and standards-related activities in order to enhance mutual understanding and facilitate increasing trade.

Focus on China

Since 2014, Mrs Betty Xu is the expert of the third phase of the SESEC project. One of the topics covered by the SESEC expert in 2015 was the Chinese policy initiative “One Belt One Road” (OBOR). This initiative supports China’s ambitions to go global and is backed by a dedicated action plan on standardization. CEN and CENELEC will carefully monitor the implementation of this action plan and its potential impact on their strategy and activities.

Focus on India

Since 2013, Mr Dinesh Chand Sharma is the expert of the second phase of the SESEI project. In 2015, the SESEI expert supported discussions between BIS (Bureau of Indian Standards) and CEN on the adoption of European Standards in relation to lifts. The SESEI project also supported an international conference on Low Voltage Direct Current (LVDC), in direct line with the CENELEC strategic goals, and contributed to major events on Smart Cities, linked with India’s commitment to build 100 smart cities in India.
RAISING AWARENESS AND VISIBILITY
CEN and CENELEC intend to reinforce the visibility of the European Standardization System to all relevant stakeholders. CEN and CENELEC employ various communication channels to increase knowledge and generate awareness of the value and benefits standards bring, targeting business and industry (including SMEs), regulators and policy-makers, researchers and scientists, the education and training sector, and societal organizations.

**1. Publications**

- **CEN and CENELEC Work Programme 2016**
  An overview of the most significant standardization activities to be implemented by CEN and CENELEC.

- **The Annual Reports of CEN and CENELEC for 2014**
  With information about CEN activities, CENELEC activities and joint activities.

- **New publications issued in 2015**
  CEN and CENELEC publications are available at www.cencenelec.eu/news/publications

- **CONNECT Newsletter**
  CEN and CENELEC produce a newsletter ‘CONNECT’, which is published on the CEN-CENELEC website in PDF format. Two issues of CONNECT were published in 2015. In total, some 4,000 email messages are sent out when each issue of CONNECT is published.

- **A total of 13 Press Releases in 2014**
  - Partnership Agreement between CEN and ETUC: 2015-05-28
  - Cooperation between CEN, CENELEC and ENTSO-G: 2015-06-05
  - Outcomes of European Standardization Summit in Riga: 2015-06-08
  - Cooperation with Standardization Administration of China (SAC): 2015-07-01
  - CEN General Assembly elects Vincent Lafèche to be the next CEN President: 2015-07-10
  - Development of standards for smart energy grids: 2015-02-27
  - New European Standard for pest management services: 2015-03-16
  - Technical report on care services for babies born with cleft lip/palate: 2015-05-07
  - European Standards for energy audits: 2015-07-09
  - International standards for management systems: 2015-09-16
  - European Standards for aesthetic surgery services: 2015-01-20
  - European Standards for energy audits: 2015-07-09
  - Launch of new SESEC website: 2015-11-02
  - Launch of the CEN-CENELEC e-Learning Tool for SMEs: 2015-07-03

- **Smart and sustainable cities and communities - A role for European standardization**
  Promoting the Final Report of the CEN-CENELEC-ETSI Smart and Sustainable Cities and Communities Co-ordination Group (SSCC-CG).
# Events

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Date</th>
<th>Participants</th>
<th>Summary</th>
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<tbody>
<tr>
<td>European Standardization: a tool for efficient shaping of EU policy and legislation</td>
<td>5 February 2015</td>
<td>100</td>
<td>The training session was organized by the European Commission's DG Internal Market, Industry, Entrepreneurship and SMEs' (DG GROW), in partnership with the European Standardization Organizations (CEN, CENELEC and ETSI). The aim of the training session was for EU officials to learn how the European Standardization System works, and how voluntary European Standards can be used as tools to support the implementation of EU policies and legislation.</td>
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<tr>
<td>European Standardization Summit - in Riga (Latvia)</td>
<td>4 June 2015</td>
<td>215</td>
<td>The Summit in Riga, organized by CEN and CENELEC with Latvia’s Ministry of Economics and Latvian Standard (LVS), was part of the official programme of the Latvian Presidency of the Council of the European Union. The theme was chosen in alignment with the objectives of the Europe 2020 Strategy in terms of promoting smart, sustainable and inclusive growth, and the goal to create a more resource-efficient, low-carbon economy.</td>
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<tr>
<td>European Workshop: Engaging business and industry in standardization</td>
<td>5 October 2015</td>
<td>58</td>
<td>CEN and CENELEC held a half-day workshop to increase and improve exchanges with European business and industry about standardization policy and strategic matters. Participants sought to reach a clear understanding of their standardization needs, and together, to find solutions to shape and strengthen the CEN and CENELEC’s engagement with the European industry.</td>
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<tr>
<td>Technical Bodies Seminar</td>
<td>2 December 2015</td>
<td>74</td>
<td>Every two years, a seminar is organized for Chairpersons and Secretaries of CEN and CENELEC Technical Bodies.</td>
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<tr>
<td>Parliament Magazine Round Table: European Standards are making EU industry ‘more competitive’</td>
<td>4 March 2015</td>
<td>30</td>
<td>Organized by CEN and CENELEC in partnership with The Parliament Magazine, and hosted by the Chair of the European Parliament’s Internal Market and Consumer Protection (IMCO) committee Vicky Ford MEP.</td>
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<tr>
<td>StandarDays</td>
<td>21-22 April 2015</td>
<td>98</td>
<td>(total of April and September)</td>
</tr>
<tr>
<td>Benefits of integrating the environment in standards</td>
<td>19 May 2015</td>
<td>54</td>
<td>CEN and CENELEC organized an interactive seminar which was attended by representatives of business and industry (including SMEs), policy makers, and societal and environmental stakeholders. The participants shared experiences and exchanged views on how standardization can contribute to the development of a resource-efficient, green, and competitive low-carbon economy.</td>
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<tr>
<td>CEN and CENELEC PR Roundtable: How to build a dialogue</td>
<td>27-28 October 2015</td>
<td>22</td>
<td>Participants from 14 national members of CEN and CENELEC exchanged examples of good practice regarding effective communication with various stakeholders. They also shared ideas on how to improve cooperation between national, European and international standardization organizations.</td>
</tr>
<tr>
<td>CEN-AFNOR Conference: Services made in Europe – What tools are there to create leading service markets?</td>
<td>19 November 2015</td>
<td>98</td>
<td>This event enabled stakeholders to learn about existing standardization activities in relation to services, and to discuss how standards can contribute to making service markets in Europe more integrated and competitive.</td>
</tr>
</tbody>
</table>
3. eComm

Social media engagements in 2015
Number of followers on 1 January 2016

Twitter
3 081 followers
twitter.com/standards4EU

Facebook
2 008 followers
facebook.com/cencenelec

LinkedIn
1 845 followers
linkedin.com/company/cen-and-cenelec

YouTube
youtube.com/CENCENELEC

360° Communication Campaigns

World Standards Day, 14 October 2015

To celebrate this day, a wide-reaching communication campaign was held with the publication of a video message, two short videos and a TweetChat. “Standards – the world’s common language,” was the theme for the 2015 World Standards Day.

Video Message from CEN and CENELEC Director General

Elena Santiago Cid, Director General of CEN and CENELEC, addressed standardizers emphasizing the uniqueness standards hold as a “global language”.

Video contest

For World Standards Day 2015, ISO and IEC launched a video contest on the theme of “Imagine a world without standards”. In line with this theme, two 25-second videos for a wider audience were produced.

All videos can be accessed via the CEN-CENELEC website:
www.cencenelec.eu/news/videos

These videos received over 2,800 views on Facebook.

TweetChat on “Standards and the EU Single Market”

On the occasion of World Standards Day, 14 October 2015, CEN and CENELEC teamed up with ETSI and the European Commission (DG GROW) to organize a TweetChat on the theme of “Standards and the EU Single Market”. This theme was chosen in anticipation of the Single Market Strategy, which was published by the EC on 28 October 2015.

The TweetChat succeeded in generating interest in standardization using Twitter. The hashtag #speakstandardsEU was used more than 500 times, leading to almost 2 million impressions worldwide.
4. Infodesk

CEN-CENELEC Infodesk 2015

2 466 enquiries
1 986 emails  480 phone calls
93% of these enquiries were answered within 5 working days

CEN and CENELEC also provide specialized helpdesks for questions concerning environmental issues, research and innovation activities, and small and medium-sized enterprises (SMEs).

5. Highlights of 2015

European Standardization Summit in Riga

CEN and CENELEC General Assemblies and 4th European Standardization Summit ‘How standardization can support the transition to a cleaner and smarter economy’, in Riga (Latvia) on 3 and 4 June 2015.

From left to right: Ingars Pilmanis - Head of Latvian Standard at the Standardisation, Accreditation and Metrology Centre; Tore Trondvold - CENELEC President; Dana Reizniece–Ozola - Minister of Economic Affairs, Latvia; Friedrich Smarzwil - CEN President; Elena Santiago Cid - Director General of CEN and CENELEC.

The 4th European Standardization Summit in Riga attracted more than 200 participants.

From left to right: Wim De Kesel - CENELEC Vice-President Policy; Javier Garcia Díaz - Standards Director AENOR; Scott Steedman - CEN Vice-President Policy; Ruggero Lensi - Director External Relations, New Business and Innovation, UNI; Karin Helmstaedt – Moderator.
Training Session for European Commission officials

European Commission Training Session on ‘European Standardization - a tool for efficient shaping of EU policy and legislation’ in Brussels on 5 February 2015.

On the front row (from left to right): Friedrich Smaxwil - CEN President; Elena Santiago Cid - Director General of CEN and CENELEC; Tore Trondvold - CENELEC President; Daniel Calleja Crespo - Director General of DG Internal Market, Industry, Entrepreneurship and SMEs (DG GROW); European Commission.

StandarDays training and information event

Participants of StandarDays training and information event in Brussels on 21 and 22 April 2015.

Roundtable Discussion with Vicky Ford MEP

Roundtable Discussion ‘Standardization boosts European business competitiveness’ in Brussels on 4 March 2015, organized by CEN and CENELEC in partnership with The Parliament Magazine and hosted by Vicky Ford MEP, Chair of the European Parliament’s Internal Market and Consumer Protection (IMCO) Committee.

Contributors (from left to right): Elena Santiago Cid - Director General of CEN and CENELEC; Tore Trondvold - CENELEC President; Vicky Ford MEP; Paolo Falcioni - Director General CECED; Kerstin Jorna - Director, DG GROW, European Commission; Barbara Sorgato - Secretary General ECAP; Christian Wetterberg - Director External Relations, LEGO Group.

‘Benefits of integrating the environment in standards’


Contributors (from left to right): Richard Allan - Chair of CEN SABE; Serge Theloevre - Schneider Electric; Maurizio Andreano - Siemens AG; Andrea Nam - CEN-CENELEC Management Centre; Manfred Fuchs - European Commission DG GROW; Peter Whittal - Tripod Consulting Ltd.; Tomi Engel - ECOS; Karolina D’Cunha - European Commission, DG Environment; Franz Fiala - AINEC.

Participants of the Seminar on ‘Benefits of integrating the environment in standards’.
Workshop with European business and industry organizations

From left to right: Wim De Kesel - CENELEC Vice-President Policy; Friedrich Smarzwill - CEN President; Elena Santiago Cid - Director General of CEN and CENELEC; Scott Steedman - CEN Vice-President Policy.

Participants of the CEN-CENELEC Workshop with European business and industry organizations at the CEN-CENELEC Management Centre on 5 October 2015.

Workshop on Strategy for the Construction Sector

Participants of the CEN-CENELEC Workshop on 26 October ‘Strategy for the Construction Sector’.

From left to right: Gonçalo Ascensão - CEN-CENELEC Management Centre; Gudrún Rögnvaldardóttir - CEN Vice-President Technical.

CEN-CENELEC PR Roundtable

Participants of the 12th CEN-CENELEC PR Roundtable ‘How to build a dialogue’ hosted by ISRM (Standardization Institute of the Republic of Macedonia) in Skopje on 27 and 28 October 2015.