

Report to the Department for Business, Energy and Industrial Strategy

Use of funding for the financial year 1 April 2019 to 31 March 2020

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£ 1,080K
Subscriptions

Supporting BSI's leadership position within European and international standardization bodies and enabling cost-effective access to standards for HMG departments and agencies.

£ 1,882K
Standards Development

Keeping the UK at the forefront of standards development aligned strategically to UK Government policies.



£ 857K
Participation

Enabling UK committee members consumers and public interest groups to influence standards development globally.

Figure 1: Distribution of £3.8M BEIS grant across the three main aims (refer to pg. 5), 2019-20

1. Introduction

As the UK National Standards Body (NSB), the British Standards Institution (BSI) represents UK economic and social interests at the European and international standards organizations, manages the national standards-making process, and supports organizations of all sizes and sectors by developing market-led and stakeholder-relevant standards through open public consultation and full stakeholder engagement. Active participation in global standards organizations ensures that standards used to demonstrate compliance with, e.g. European Directives are acceptable to UK stakeholders.

Standards are the collective and distilled knowledge of a range of experts; standards promote good practice and complement regulation rather than replace it. BSI works closely with the UK government in many areas of standardization. Government representatives participate in our technical committees along with those from business, academia and consumer and other interest groups. Together, we ensure that products, processes, new technologies and services incorporate the needs of all interested parties using their expert knowledge.

Standards benefit many types of stakeholders:

- **Regulators** – building alternative approaches to regulation, improving Government processes, harmonising standardization globally, increasing trust throughout the supply chain and encouraging innovative and emerging technology uptake and business growth
- **Industry** – increasing competitiveness of businesses and enabling trust to trade internationally, enhancing productivity and sustainability within business, improving profitability by offering safer products and services developed through more efficient processes, increasing management tools and business behaviours
- **Society** – putting societal issues at the forefront of standardization – such as the environment and climate change, sustainability, equality and diversity, ethics and welfare
- **Consumers** – encouraging safer and more secure products and services from food to online services, providing more reliable products and services, and encouraging cheaper prices for products through better industry management and processes.

BSI's relationship with Her Majesty's Government (HMG) is constituted through a memorandum of understanding (MoU)¹ which sets out BSI's role as the NSB. BSI receives annual funding from HMG through the Department for Business, Energy and Industrial Strategy (BEIS). The use of this funding is the focus of this report.

The allocation for the funding year 2019/20 was £3,818,991.

¹ DTI (2002) *Memorandum of Understanding between the United Kingdom Government and The British Standards Institution* [Online]. Available at: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/461415/Memorandum_of_Understanding.pdf {Accessed on 8 June 2020}

Funding activities supported by a contribution from BEIS fall under these main aims:

Influencing and leadership of the UK in international standardization enables BSI, appointed as the National Standards Body, to be at the forefront of international standards development and policy, working with key international standards bodies such as ISO and IEC. A contribution to the costs of full membership allows BSI to influence international standardization activities in the best interest for the UK.

Access to standards for government. Subscriptions reduce the costs of standards access for Government. BSI provides Government departments, their agencies and the Health and Safety Executive cost-effective access to standards and related information. BEIS provides a contribution to the costs of providing this access. BEIS and UK public safety enforcement agencies benefitted from unrestricted subscription access to the complete BSI standards portfolio.

Supporting standards development by developing standards that promote key HMG and NSB priorities, such as competitiveness, innovation, reduction of trade barriers, protection of consumer interests and consumer safety, environmental protection and public procurement. This year, three strategically important projects were supported through this funding, on energy smart appliances, button batteries and bringing safe products into the market.

Supporting participation in standardization by enabling UK experts to participate in and influence European and international standards by contributing towards their travel costs. This funding stream also supports continued consumer participation in standardization, enabling consumer and public interest groups to attend standards committee meetings, and enabling recruitment and training for our network of consumer representatives (Consumer and Public Interest Network, CPIN). Engagement is another significant activity which fits under the remit of supporting participation. This year, BEIS funding enabled BSI to increase its engagement with stakeholders, cross-Whitehall, and improve its mapping of committee organizational diversity.

2. Summary of funding

	Latest allocation (£k)
BSI membership for HMG	365
BSOL access for UK Product Safety Enforcement Authorities	200
Contribution to membership of ISO/IEC/CEN/CENELEC	500
Copies of PAS 7100	15
TOTAL	1,080
NSB activity & public interest standards development (incl. Staff travel fund)	1,186
Standards Development Programme	321
Energy Smart Appliances Programme	114
Safe Products in the Market PAS	148
Button Batteries PAS	113
TOTAL	1,882
Assisted International Travel Scheme	751.7
Support for consumer & public interest participation in standardization	94.8
Stakeholder mapping/annual organisational diversity analysis	6.8
Cross-Whitehall promotion of standardization	-
Germany-France-UK Standards Meeting	3.7
TOTAL	857
TOTAL FUNDING	3,819

3. Influencing and leadership

3.1. Subscriptions: Contribution to BSI membership of international standards bodies

BEIS support enhances BSI's capacity to influence international and European standards bodies (ISO, IEC, CEN and CENELEC), as the UK's representatives, by contributing to BSI's membership of those organizations. Influencing international standards is paramount to ensure the UK's future global competitiveness. Our Group A membership of these organizations has enabled the UK to lead the development of international and European standards of key concern to the UK and drive the current and future strategies and priorities of these organizations in line with UK interests. Group A membership allows BSI to influence standards policy development by participating and voting in international technical and policy meetings, influence in the development and maintenance of European Standards, hold important seats on European and International technical committees (such as Chair and Convenor), adopt internationally relevant and recognized standards at the national level, and nominate UK experts to committees and working groups.

BSI is a leading member of the international and European standards organizations, influencing at all levels of the organizations, including strategic and technical boards, positioning BSI as one of the leading national standards bodies and advocating and supporting UK interests internationally. BSI also provides leadership of international and European standards committees in key areas for the UK such as environmental management, quality management, risk management, governance of organizations, occupational health and safety, vulnerable consumers, and Building Information Modelling (BIM). In addition to international leadership in these priority areas, BSI also led the development of the key standards at the national level which were adopted at the international level and are now used in countries all around the world, reducing barriers to trade. Recent priority areas for BSI included ageing societies and sustainable finance – BSI holds the leadership of the ISO technical committees for these important areas (ISO/TC 314 - 'Ageing Societies'; and ISO/TC 322 - 'Sustainable Finance' (ISO/TC 322)).

BSI's Director of Standards, Dr Scott Steedman, continues in his role as the Vice President (Policy) of ISO. In this role, Dr Steedman chairs the ISO Strategy and Policy Committee, the ISO Oversight Committee and the ISO IT Strategy Advisory Group. Under the leadership and direction of Dr Steedman, ISO recently developed the new ISO Strategy 2030, which will be published later in 2020.

Under European Regulation 1025/2012, EU member states must give notification of any new national standards being developed. This year, 92 new British Standards were reported to CEN/CENELEC.

3.2. Subscriptions: Access to comprehensive BSI standards portfolio for Her Majesty's Government

A central BSI membership agreement enables HMG departments and executive agencies to have cost-effective access to standards and related advisory and information services.

During the funding year 2019/20, all HMG departments and executive agencies were given access to BSI member services and discounts, including:

- 50% off British Standards (including BS adopted European and international standards)
- 50% off subscription products, including the online database British Standards Online (BSOL)
- 10% off international (ISO) and non-UK standards (e.g. DIN German standards)
- 50% off many of BSI's conferences on strategically important topics
- Credit when purchasing standards
- Private List Updating Service (i.e. validation and tracking of a standards list provided by the member, with new versions sent automatically when updated)
- BSI Knowledge Centre, including advanced subject searches and fast identification of international equivalents from more than 200 standards organizations in 23 countries
- Free postage and packing when buying hard copy standards.

Between April 2019 and March 2020, BEIS contributed £365k, enabling 62 Government departments and their agencies to purchase standards products at a discounted rate. In addition, BEIS has access to the British Standards Online (BSOL) platform as the lead HMG department working with BSI. Standards provided through this access are free of charge. In 2019-20 BEIS staff downloaded 517 unique standards with a value of £217k at no cost. This access makes using standards easier and more effective.



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Government departments and executive agencies purchased standards at discounted rates through BSI membership

BSI continues to work with BEIS to promote standardization within government. As part of its membership, BSI's account managers work closely with several government departments to manage their key accounts. As a result, BSI has developed productive relationships with HMG contacts, ensuring individual department and agency requirements are met.

3.3. BSOL access for UK Product Safety Enforcement Authorities

BEIS contributed £200,000 to enable subscription access to UK product safety enforcement authorities (UK PSEA) so that they could access content available on British Standards Online (BSOL). UK PSEAs accessed BSOL 4,600 times to download documents, of which over 1,400 unique standards documents. This use represents an equivalent individual purchase value of £940k.



4,600

amount of times UK Product Safety Enforcement Authorities accessed standards on British Standards Online platform

3.4. Enabling free access to PAS 7100 (Product Recalls) for SMEs

BEIS continued to support free download access of PAS 7100 from the online BSI Shop for small and medium-sized enterprises. A PAS (Publicly Available Specification) is a consultative document developed and formatted based on the British Standards model but with reduced timescales for development. This important PAS, published in March 2018, outlines the code of practice on consumer product safety-related recalls and other corrective actions, providing practical guidance on good practice in consumer non-food product safety for businesses and for market surveillance authorities.

Downloads of copies of PAS 7100 were made available free of charge from the Shop for a period of two years, commencing on 1 November 2018, for internal business use by SMEs².

3.5. BSI's contribution to efforts to reduce the impact of Covid-19

Following the outbreak of COVID-19, BSI swiftly moved to support Government, UK businesses and the general public.

Recognizing the importance to businesses and Government of expert, consensus-based best practice information, several standards were made accessible to help support manufacturers produce medical equipment and PPE which was in short supply and to help organizations address business continuity challenges.

Specific activities, triggered towards year end and primarily **delivered post-March 2020**, undertaken by BSI to support the UK and international efforts include:

- **Providing free standards and webinars** - BSI made over eighty standards freely available to help with the response to COVID-19. These covered ventilators, PPE, hygiene products (including hand sanitizer) and business continuity / risk management. These standards were made available to help new manufacturers produce medical and PPE equipment and support organizations cope with economic uncertainty. Over 92,000 standards had been downloaded by July 2020 by around 9,000 organizations.

Webinars on business continuity and crisis management were held in partnership with the Emergency Planning College (Cabinet Office Civil Contingencies Secretariat), with over 3,000 participants.

- **Guide to Safe Working during the Pandemic** – BSI published new safe working guidelines to help businesses manage a safe return to work and reoccupation of their facilities. BSI encouraged the business community and members of the public to have their say and share their learnings and insight on safe working to help protect public health. The guidance will be developed and reissued, considering this feedback, as the situation evolves. BSI also produced a report on working in the 'new normal', which provides insights from experts from a variety of disciplines on what organizations need to consider as they reopen their facilities.
- **PPE Guidance and support** - BSI produced a guidance document to support new manufacturers of PPE. The guidance, which complements government guidance, describes

² BSI Group (2018) Supporting better product recalls [Online]. Available at: <https://www.bsigroup.com/en-GB/pas7100-supporting-better-product-recalls/>. {Accessed on 9 June 2020}

testing and certification requirements to ensure PPE is safe and effective when being used in health and social care environments. BSI also produced guidance for FCO trade officers to assist in the procurement of PPE. BSI Group's product testing and certification facility supported the rapid deployment of PPE by developing new testing procedures that provide fast-track routes to establishing the performance of products. BSI supported BEIS with urgent requests and offered extended operating hours to meet increased and urgent demand for PPE testing. Support was also provided to the Scottish Government, local authorities, manufacturers and universities.

- **International cooperation** - BSI worked with partners across Europe to share good practice and to coordinate activities in support of the COVID-19 response. BSI also worked with the Chinese National Standards Body, which translated a range of Chinese PPE standards into English. Through the Commonwealth Standards Network, BSI shared best practice across the Commonwealth. BSI worked with DFID to evaluate opportunities to integrate COVID-19 related activity in support of ODA eligible countries across the Commonwealth.

3.6. Activities that support influencing and leadership at the UK and international level

CEN, CENELEC and ETSI

BSI is a full and active member of CEN and CENELEC. In 2018, BSI's Director of Standards Policy, David Bell, was elected to sit on the CENELEC Administrative Board, while Dr Steedman retains his seat on the CEN Administrative Board. In addition to the Strategic Boards, BSI is represented on the CEN and CENELEC Technical Boards and all policy level bodies responsible for key priority areas. Such representation and influence in the European standardization system is key for UK industry and other stakeholders. BSI continued to play a leading role in all CEN and CENELEC areas, including the development of the CEN/CENELEC strategy 2030 and strategic outreach to other countries. In addition, BSI provides leadership by managing key CEN and CENELEC technical committees.

BSI continues to hold full membership of ETSI, the third of the European Standards Organizations (those organizations authorized to use the EN designation), that specializes in ICT and telecoms standards. BSI is also an ETSI National Standards Organization, voting on and implementing ETSI European standards.

In January 2020, BSI provided the required annual report to CEN, CENELEC and ETSI under EU Regulation 1025/2012, covering transparency in national standards, use of ICT, and involvement of SMEs, environmental stakeholders, consumers and labour representatives in national standards development committees.

UK engagement

BSI engaged widely across Government to communicate the role of standardization in support of Government policy objectives. BSI highlighted the role of standards in promoting trade, improving productivity, accelerating innovation, protecting consumers and providing an alternative to regulation. BSI's engagements included BEIS, DCMS, MHCLG, Cabinet Office, DfT,

DoH, DEFRA, DIT, DExEU, DWP, MoD and the Regulatory Policy Committee. BSI also engaged with the Scottish Government.

BSI responded to numerous consultations and inquiries, offering advice to Government, regulators and Parliament on how standards can be used to support policy and regulatory objectives. Details are available on request.

Brexit - BSI has continued its work through the year to plan for the UK's exit from the EU, planning first and foremost how HMG can maximize the opportunity provided by securing full control over regulatory policy to use the coherent collection of national standards maintained by BSI (British Standards, aligned with international and European regional standards) to best effect in future. Part of this strategy has been to maintain the UK's leadership position in international standards making activity. This includes full membership of the non-EU private European Standards Organizations CEN and CENELEC post-transition, which form an important part of the broader framework of international cooperation within the international standards system led by ISO and IEC. This work has included secondments of BSI staff into Government departments, giving evidence to select committees, speaking at conferences and events, taking part in Brexit groups for key stakeholders and developing communications materials. BSI has also worked on the governance of CEN and CENELEC to secure a new membership proposition for the UK that will reflect the UK's new status in the European regional context. This led to approval from the Board and General Assemblies of both organizations of a plan to avoid challenge to BSI's membership of CEN and CENELEC post-transition, while the members work through changes needed to the statutes and agree changes to come into force as of end 2020 (extended in June 2020 until end 2021).

Better Regulation Executive (BRE) - BSI was pleased to attend meetings of BRE's "Network of Experts". BSI also met BRE on a regular basis to discuss and share information on the role of standards in support of regulation. BSI provided evidence to demonstrate the role of standards in supporting innovation.

Regulation for the Fourth Industrial Revolution – Following extensive engagement with the Better Regulation Executive, the role of standards was prominent in the White Paper "Regulation for the Fourth Industrial Revolution". BSI was invited by Lord Henley to consider how standards keep pace with innovation and how government might help business, policymakers and regulators to make effective use of standards. BSI responded jointly with quality infrastructure partners NPL and UKAS. A series of workshops commenced on topics covered by the response, including BSI's agile standards development programme.

Parking (Code of Practice) Act 2019 - MHCLG commissioned BSI to develop a code of practice on the operation and management of private parking facilities.

Civil Service Live - For the first time, BSI attended Civil Service Live events in Edinburgh, Cardiff and London. BSI led seminars in Edinburgh and London.

Future of Transport - The Department for Transport commissioned BSI to deliver several scoping activities as part of the Future of Mobility and Transport Data work streams. BSI explored the standards landscape for data interoperability in "Mobility as a Service" and to provide best practice to Local Authorities to help deliver an integrated transport strategy.

Age Verification and Online Harms - BSI has been working closely with DCMS and GCHQ on their new strategy for Online Harms and Verification of Children Online. As part of this work, BSI has been engaging with the BEIS Expert Panel on Age Restriction to explore the requirements for the new iteration of PAS 1296 with the potential to make the PAS into an international standard.

Standards and regulatory delivery - BSI participated in a conference at the University of Oxford with academics and regulators from around the world focusing on the future of regulation, to highlight the potential for voluntary standards.

COP 26 - BSI initiated discussions with the Cabinet Office on how BSI can support COP 26. BSI has standards or standards development programmes across all five themes of the event: adaptation and resilience, nature, energy transition, clean road transport and finance.

STAG –Scott Steedman was appointed as a core member to the Department for International Trade’s Strategic Trade Advisory Group (STAG). STAG provides a forum for high-level strategic discussions between government and stakeholders representing a cross-section of interests from all parts of the UK on trade policy matters. The Group is chaired by the Trade Minister and is a forum for informed discussions across a range of trade policy interests, including the development and delivery of UK trade policy. Dr Steedman provides insight to STAG on the role international standards play in facilitating trade and the importance of positioning standards within trade agreements.

Digital Standards – BSI worked with DCMS and Ofcom to provide insight and support in the shaping of the UK positioning in the International Telecommunication Union. BSI attended government meetings in preparation for the World Telecommunication Standardization Assembly.

PAS 440:2020 Responsible Innovation - The standard for Responsible Innovation, sponsored by Innovate UK, was launched at BSI’s Standards Conference in April 2020. This new PAS provides guidance for companies that want to innovate responsibly and demonstrate responsible behaviour. Where new technologies are likely to be disruptive or create public concern, this PAS will help companies think through, in a structured way, the issues raised by their proposed innovation. This will help companies determine that their processes are developed with broader implications in mind and provide them with a framework that demonstrates to wider society that their decisions are responsible. Government departments, including the Centre for Data Ethics and Innovation (CDEI) and DCMS, were engaged as part of the stakeholder interviews that informed the development of this standard.

Public Sector Procurement - BSI also engaged extensively with SMEs and representatives of SMEs to develop BS 95009: 2019, *Public sector procurement. Generic requirements for organizations providing products and services*. This standard provides a framework for those involved in the procurement process to more accurately demonstrate or assess the trustworthiness of organizations tendering for public sector contracts.

Standards-makers events – BSI’s Standards Forum events were re-branded as Standards Conferences and held in April and November 2019. Attendance at both events increased

significantly over the previous year with the November Standards Conference and Awards event attracting over a third more delegates than in 2018. There were nine breakout sessions on standards related topics including energy management, innovation, electrotechnical standards, the consumer voice in standardization, human capital management and post EU-Exit trade.

UK-Germany-France Standards event - A meeting was held on 10-11 July in Birmingham. The objective of the tripartite event, held annually, is to share updates and knowledge on the role of standards and accreditation in support of public policy. Usually this meeting comprises UK-FR-DE governments, standards bodies and accreditation bodies plus European Commission DG GROW. However, this year, DG GROW announced shortly before the meeting that they had been advised that they could not attend due to Brexit sensitivities. As a result, neither the FR and DE governments nor the accreditation bodies attended. The resulting meeting was a standards-centred meeting hosted by BEIS. The focus of the meeting was the UK's preparation for a no-deal EU exit and the impact of this on standards. A representative from Make UK joined the meeting to give a business perspective.

House of Lords reception - The annual BSI/UKAS House of Lords reception was held on 1 July. The event was attended by 120 civil servants and regulators. The keynote address was given by Lord Holmes of Richmond, who spoke positively about the role standards can play in establishing a framework for data ethics and AI.

British Standards Society (BSS) – BSS is the society of standards users. BSI provides support to BSS by funding their membership subscription to IFAN (International Federation of Standards User Groups). In addition, BSI hosted the BSS AGM in the Chiswick offices in July, and in October BSI hosted the IFAN Board meeting, Members Assembly, IFAN AsiaPac Working Group, IFAN WG16 Education and IFAN European Working Group in London and supported the attendance of a BSS delegate to the meetings. In March a BSS delegate was supported to attend the IFAN European Working Group which discussed Brexit and the potential impact on standards users.

New Product Safety initiatives - BSI continued to work with OPSS on PAS publications on bringing safe products to market and the safety of button batteries. Both PASs are due to be published in 2020.

PAS7100: Code of Practice on product recalls and other corrective actions - BSI continued to promote this BSI-sponsored PAS to businesses and market surveillance authorities. This included online promotion, webinars, social media campaigns and direct engagement with market surveillance officers. With support from OPSS, access to the PAS has continued to be free of charge for SMEs.

Industry Engagement – BSI continued to engage with industry through our relationships with industry organizations, particularly trade associations that nominate experts to BSI committees. BSI also developed its relationships with cross-sector business organizations such as the CBI, the British Chambers of Commerce and Make UK.

Industry Advisory Forum - BSI continued to facilitate the involvement of UK industry in the CEN/CENELEC "Industry Advisory Forum", a group of industry leaders from across Europe. The group was set up to facilitate an open exchange of views on standardization issues and to

inform CEN/CENELEC on the standardization priorities for industry. In 2019, the UK's representative took leadership of a working group to advise on the digitalisation of industry. BSI's mirror group of UK industry experts continued to meet to ensure a broad representation of UK industry. BSI remains the only CEN/CENELEC member to involve its industry stakeholders in this way.

SME engagement – BSI continued to meet its obligations under EU Reg 1025/2012. BSI's report can be accessed at <https://www.bsigroup.com/globalassets/documents/about-bsi/nsb/bsi-sme-report-2019-final.pdf>

Diversity and Inclusion

UNECE Declaration for Gender Responsive Standards - BSI was one of 50 standards development organizations from across the world to sign the United Nations Economic Commission for Europe's new "Declaration for Gender Responsive Standards and Standards Development". Stephanie Eynon from BSI was a leading member of the working group that developed the Declaration and has now been appointed as its chair.

Inclusive as Standard initiative - The BSI Standards-Makers Diversity and Inclusivity Strategy and Action Plan was launched. Branded as "Inclusive as Standard", its key objectives are to:

- ensure that the standards development environment and process are inclusive
- ensure that the standards development process systematically enables all standards to be inclusive standards
- proactively manage participation in standards development to provide a balance of stakeholders and a range of human differences in the development of standards

As part of the initiative BSI colleagues received training from Leonard Cheshire to understand disability and how to manage committees inclusively. BSI formed a Diversity and Inclusivity Advisory Panel and participated in Women and Work APPG events.

Diversity workshop - A workshop was also held for Committee Chairs and Nominating Body representatives to explore how the diversity of BSI Committees can be improved.

Diversity and inclusion in standards development - The 2019 Committee Member Survey demonstrated that BSI has recruited more diverse committee members (e.g. 34% of new members were women, compared with 13% of all committee members) and that committee members generally feel respected and that they have an impact on the standards they are developing. BSI is developing a means to collect routinely demographic data from all committees. BSI also completed a project to improve how stakeholders are defined and categorized. This will enable improved measurement and reporting of stakeholder diversity.

International Engagement

BSI completed the delivery of phase 1 of the UK Government funded Commonwealth Standards Network (CSN), a programme to promote the use and development of international standards to facilitate intra-Commonwealth trade and investment, leading to economic growth and positive developmental outcomes. The network consists of 50 (of 54) Commonwealth members accounting for 99% of intra-Commonwealth goods exported. The programme delivered a range

of interventions including short term training programmes for national standards bodies (11), stakeholder workshops (19) and the delivery of collateral including a framework of international standards, a CSN toolkit and a fully operational web portal (www.commonwealthstandards.net). The programme further delivered three technical assistance programmes in Zambia and Uganda, Papua New Guinea and Vanuatu, and Saint Lucia. The programme was awarded an A+ performance rating from DFID and has been extended by 12 months to run until the end of March 2021, with an increased emphasis on National Quality Infrastructure. As part of the extension, the programme is seeking to support the COVID-19 response, reconstruction and resilience of developing economies across the Commonwealth.

BSI has continued to expand its international engagement, to support the increased use of British Standards across the world. In June 2019 BSI signed a new Memorandum of Understanding with the Standardization Administration of China (SAC) to support international standardization and the identification of areas for bilateral collaboration, to further strengthen the important role standards play in underpinning trade between the UK and China. The fourth meeting of the UK China Standardization Cooperation Commission (SCC) was held in Manchester in June 2019, following a launch by the BEIS Minister. The SCC built on work being undertaken on standards for graphene and smart cities, and the delivery of the Business Environment Programme supported by the Prosperity Fund. BSI also signed MoUs with a range of important stakeholders around the world including the GCC Standardization Organization (GSO), the Directorate for Standards, Metrology and Quality of Vietnam (STAMEQ), the Instituto Boliviano de Normalización y Calidad (IBNORCA), and the Ecuadorian Service for Standardization (INEN). These agreements seek to increase the use of standards to support trade with these important geographies.

Education

BSI's Educational Development Manager continued to lead BSI's engagement to promote standardization to university postgraduates and early-career professionals. This included working with education partners to develop and deliver a range of learning activities and resources.

BSI's engagement included supporting university teaching of standards through its growing 'guest talks' programme, the extension of the Student Research Programme (offering practical support to master's level students and their research projects) and Public Committee Meetings. BSI plans to continue to expand its support for the teaching of standards through the production of new materials and resources, such as best practice teaching case studies, video content, infographics and an online course. An award for Education about Standardization, recognizing exceptional contributions to integrating standards into university programmes, is also planned.

BSI's two annual Standards Conferences hosted specific content aimed at a young professional audience. A similar approach is being taken in 2020.

ISO Week 2021 and IEC General Meeting 2024

BSI will host two major events in the coming years – the ISO Week 2021 and the 2024 General Meeting of the International Electrotechnical Commission (IEC). Both events will bring together senior international figures and thought leaders to discuss the key issues for standardization and to take decisions on the future direction of the organizations. These conversations will

focus on future growth, resilience, innovation and development throughout the world, with a specific emphasis on contributing to the UN's Sustainable Development Goals (SDGs). As host, BSI will be at the heart of the events, demonstrating the UK's leading role in international standardization.

ISO Week will take place in London in September 2021 at the QEII Conference Centre in Westminster with additional events at the Institution of Civil Engineers (ICE) and the Southbank Centre. There will also be an exhibition from September to December 2021 at the IEC on the role of international standards and how they support the UN SDGs.

The IEC event will take place in late 2024. Details are to be arranged but it is likely to be held outside of London.

Delegations from all member countries of ISO and IEC are expected to attend. ISO and IEC currently have 164 and 87 member countries respectively.

Committee member training

BSI delivers free training courses for those directly involved in the standards-making process. The courses cover a broad range of technical and interpersonal subjects that aid new and established committee members in undertaking their roles. Due to increased demand, the induction course now runs monthly. For UK committee members acting as Convenors of international standards working groups, we offer a one-to-one advisory service for those needing guidance and support, and we have co-hosted events with other standards organizations. In March, with the onset of Covid-19, BSI moved all training courses to an online offering and started to develop introductory webinars to support new members.

4. Support for standards development

This funding stream provides support for our standards development programme, including programme management (committee secretary) support for eligible BSI committees, access to international standardization provided for committees by our Committee Service Centre (CSC), BSI staff travel in support of standards development through the Staff Travel Fund (STF) and priority area standards programmes and specific projects.

4.1. General standards development programme update

Under the standards development programme scheme rules, funding is applied to non-commercially viable UK standards development committees whose work supports HMG priorities in relation to:

- Government or public interest (i.e. regulation, consumer protection and safety)
- NSB international work programme (i.e. activities the NSB conducts to fulfil its core function on behalf of the UK)
- Specific/urgent industry standardization (i.e. promoting productivity or UK competitiveness in world markets through standardization which protects UK interests, exploits UK expertise and has significant impact on UK industry, including running secretariats of international standards committees).

Staff resources are usually assigned to committees to support them and any corresponding BSI-run European or international secretariats. BEIS funding contributed towards programme-management support for 176 UK standards technical committees in 2019/20. A further 434 committees receive a contribution to their running costs through the Committee Service Centre (CSC). BSI acts as the gateway for UK parties to take part in international standardization, through the CSC.

The Committees facilitated the publication of around 2,200 new and updated standards. Their programmes are mainly European and international standards, with a small proportion of purely national standards. Of the figure above, 1,050 standards were published through committees facilitated by the CSC. Separately, 1,943 documents were published via ETSI.



2,233

standards published by UK committees including by access to international standardization

Please refer to **Annex 1** for details of the committees supported.

4.2. Staff Travel Fund

An allowance for travel is available within the Support for Standards Development budget. It enables BSI staff to accompany UK committee members to overseas meetings and provide guidance and support that enables UK technical experts and delegates to maximize their influence during meetings, which ultimately benefits the UK. This funding continues to provide valuable support to UK committee members.

This fund enabled 64 BSI colleagues to support UK committee members at international meetings from USA to Sweden to Thailand.

Case study: CEN-CENELEC-ETSI Smart Energy Grid Coordination Group

Electrical energy generation, distribution and storage is going through rapid change, characterized as decarbonization, decentralization, digitalization and democratization. The enabler for this change is smart grid technology. Often in parallel: legislation, policy and standards are in development to support the rapidly changing market. In particular, the EU Clean Energy Package.

In order to support the deployment of the outcome of the Clean Energy Package by providing an adequate set of standards, the Smart Energy Grid Coordination Group (CG-SEG) established the working group 'Clean Energy Package' (WG-CEP), to perform gap analysis and identify needed standards. The CG and WG met at the European Joint Research Centre in Ispra, Italy, in November 2019 to finalize their recommendations for CEP-related standardization. The 40-page report includes recommendations for standards development in Europe and globally.

At the same time, BSI is delivering a programme of work for BEIS on 'smart appliances' and electric vehicle charging (Energy Smart Appliances Programme), which will help set the framework for smart energy systems in general. Influencing European and international standards bodies with the recommendations and needs of UK stakeholders, for smart energy systems development, is very timely and critical.

BSI staff member (John Devaney, Senior Standards Manager, Energy) used the Staff Travel Fund to support his travel costs to attend, as the single UK expert, at the CG/WG meeting. BSI's attendance at these meetings was crucial to maintain a coordinated oversight of all national, international and future European work in this area. Additionally, John was able to provide guidance on drafting rules, directives and policies.

In addition to helping get UK opinions reflected in this critical strategy document, John's attendance helped stakeholders in the UK to identify subjects where the UK could take a leading role.

Case study: Additive Manufacturing

By the end of 2019, the global additive manufacturing market was estimated to be worth over \$10 billion USD.³ By the end of 2020, revenue is expected to climb to \$15.8 billion USD for all additive manufacturing products and services worldwide.⁴ Additive manufacturing is a major growth area in both the UK and global manufacturing sector.

It is considered an important sector for BSI and the UK to support, as evidenced by Innovate UK's £300,000 GBP investment in three BSI Publicly Available Specifications (PAS) on the technical standards for additive manufacturing, which are due for publication in October 2020. The three PAS were created in partnership with ASTM International and the Manufacturing Technology Centre (MTC), which also demonstrates the global nature and opportunity for the UK in additive manufacturing.⁵

The BSI national committee for Additive Manufacturing, AMT/8, is comprised of UK industry and academic experts at the forefront of additive manufacturing processes. As more manufacturing companies adopt additive manufacturing methods, UK experts contributing to international standards ensures the products created in and for the UK market are high-quality, safe, and consistent.

The Staff Travel Fund (STF) allowed a BSI staff member, Jasnam Channe, to support the UK delegation during the ASTM F42 - ISO/TC 261 'Additive Manufacturing' meeting week at El Paso, Texas in February 2020. Jasnam is also the secretary for the ISO Working Group 'ISO/TC 261/WG 4: Data and Design' and an ISO/ASTM Joint Group 'Joint ISO/TC 261-ASTM F 42 Group: Technical report for the design of functionally graded additive manufactured parts'. Attending these meetings was crucial to maintain UK support in additive manufacturing standards work, and to productively progress the standards.

BSI's attendance developed key working relationships and UK influence within the ISO and ASTM additive manufacturing communities, and also supported stronger standards management co-ordination. International additive manufacturing standards are created in collaboration with ASTM. Therefore, it was critical that the various standards organization managers were aligned so that the projects in the additive manufacturing work programme could progress efficiently through the differing ISO and ASTM approaches. This ultimately benefits the UK as it means these standards can be made available to UK businesses in a timely manner, which is important given the benefits and opportunities that standards in the area can bring to the UK.

³ SmarTech Analysis (2019), *2019 Additive Manufacturing Market Outlook and Summary of Opportunities*, [Online]. Available at: <https://www.smartechanalysis.com/news/smartechnology-publishing-issues-2019-additive-manufacturing-market-outlook/> {Accessed on 26 June 2020}

⁴ Wohlers Report 2019

⁵ TCT Magazine, *ASTM, Innovate UK, BSI and the MTC to develop additive manufacturing standards*, [Online]. Available at: <https://www.tctmagazine.com/additive-manufacturing-3d-printing-news/astm-mtc-innovate-uk-additive-manufacturing-standards/> {Accessed on 26 June 2020}

4.3. Priority Areas standards development programme

The Priority Areas programme fund provides for standards programmes and individual priority-led projects - a varied programme of standardization activity that supports policy priorities and the regulation agenda, ranging from standards strategy and delivery work to awareness-raising activities. In addition to the Energy Smart Appliances (ESA) programme and two PAS development projects, funding was available for two priority area projects. These projects underwent an investment case process supported through endorsement by a representative of a relevant government department.

An additional £114,239 was made available by BEIS for the extension of the ESA programme. £147,700 and £112,500 were made available to develop PAS documents which focus on bringing safe products to market and button batteries, respectively.

2019/20 Standards Development Programme projects

- Energy Smart Appliances programme
- PAS Development: Safe Products in the Market
- PAS Development: Button Batteries
- Construction Competency Town Event

Project at a glance: Construction Competency Town Hall Event

This project supports the UK's Building Safety Programme. BSI has been working with government and the Built Environment industry to address issues identified following the Grenfell Tower Fire, and the review of Building Safety by Dame Judith Hackitt. One key piece of work has been to address the level of competence in the workforce and the certification and controls in place to ensure those competences. BSI has been instrumental in developing a proposal for an innovative approach and establishing a new framework in this area as well as frameworks for newly regulated roles to help ensure the safety of those living in buildings defined as carrying a higher risk.

The funded Town Hall event and workshop took place in early March and was attended by 70 people. Speakers including from BSI, HSE, MHCLG, UKAS and the CSG provided context and an outline of the proposed project to industry stakeholders. In addition to the workshop, an extensive Q&A took place enabling an exchange of views which will inform the way forward. The two-year programme of work started in April 2020 and will deliver two new National Standards and three PAS documents. The Built Environment Competence Standards (BECS) strategy group is now established and will lead the overall programme.

Project at a glance: PAS: Button Batteries

With recent developments in product design and technology, button batteries are now available in a wide range of household items. The key hazard associated with these batteries is the chemical burn that occurs because of ingestion or insertion. Thousands of children have been injured and over 60 children have died globally following the ingestion or insertion of button batteries.

BSI and BEIS are working together to implement requirements for manufacturers of button batteries up to 32 mm in diameter and their safety related packaging, labelling and disposal, including in-store and online retailing. The aim of the PAS is to protect the health of consumers, mainly children, by reducing the risk of exposure and subsequent ingesting of button batteries through the development of a single source of information for enforcement and consumer educational purposes.

The project has undergone the first peer review from the Steering Group, with a meeting scheduled for 9 July to resolve the feedback raised.

Project at a glance: Safe Products in the Market

Following the successful development of PAS 7100 Code of Practice for Corrective Actions and Recalls, there was a consensus from the relevant stakeholders that there was a need to develop a PAS to cover the 'upstream' aspects of the systems that deliver safe consumer products.

The objective of this PAS is to support businesses at all levels in supply chains for non-food consumer products in ensuring that only safe products reach the consumer.

The PAS will aim to highlight good practice for manufacturers and their supply chain partners to support them in meeting their legal duties to place only safe products on the market and to assist in achieving assurance of product safety within supply chains.

The PAS will also aim to set out prerequisites for regulators and others seeking to provide support and assurance to businesses in meeting the requirements of the PAS.

The PAS has been redrafted as a code of practice following a second steering consultation. BSI is working with OPSS colleagues to secure a new Technical Author before public consultation.

Project at a glance: Energy Smart Appliances Programme

An "energy smart appliance" (ESA) is a device that can respond to inputs automatically (e.g. price, other signals), allowing the device to modulate energy consumption. ESAs are appropriate for devices with shiftable-demand requirements such as heating, ventilation and air conditioning, cold and wet appliances, battery storage and EV charge points.

Standards have a key role to play in this emerging energy market; from providing consumer confidence to setting a baseline of smart features for manufacturers.

BEIS and the Office for Low Emission Vehicles (OLEV) are working with BSI to implement the recommendations of the Standards Landscape report, published in October 2018. By working with BEIS and OLEV, BSI aims to facilitate the uptake of safe, secure and interoperable ESAs, including electric vehicle charge points, for the active management of demand on the electricity network. The ESA programme, led by BSI, supports these aims while informing a wider policy and standardization approach to ESAs.

The programme is centered around the development of two PASs:

1. PAS 1878, Energy smart appliances – Classification – Specification
2. PAS 1879 Energy smart appliances – Demand side response operation – Code of Practice

PAS 1878 will be issued for public consultation in July 2020 with publication scheduled for early 2021. PAS 1879 is due to go for public consultation in the autumn and publication is scheduled for Spring 2021.

4.4. Support for standards development: spend summary

The total funding requirement for the 610 eligible committees is £4.3M. The BEIS support for standards development committees is around £1.3M. Therefore, BSI covers the £3M additional funding requirement to ensure these committees are appropriately supported.

Support for standards development: spend summary 2019/20			
Committee focus area⁶	Number of eligible committees	Days worked Apr 2019-Mar 2020⁷	Funding requirement⁸
Government or public interest Regulation, consumer protection, safety	87	2,201	£1,496,820
Priority Areas Innovation, Procurement, Better Regulation, Sustainability, Infrastructure	72	2,269	£1,543,258
NSB international work programme Committee Service Centre (CSC)	434	1,545	£1,050,378
Specific/urgent industry standardization Productivity, UK competitiveness	17	339	£230,531
Committees sub-total	610	6,354	£4,320,987
Staff Travel Fund (STF)	-	-	£95,000
Priority Project programme⁹	-	-	£28,217
Energy Smart Appliances	-	-	£114,239
PAS: Safe Products in the Market	-	-	£147,700
PAS: Button Batteries	-	-	£112,500
Other projects¹⁰	-	-	£33,170
Projects sub-total			£530,826
Total			£4,851,813

⁶ The total cost and days worked are assigned to one category only, although some committees are eligible in more than one.

⁷ Using the BEIS contribution only, actual days worked are significantly higher than the total displayed

⁸ The full cost of the support in the areas shown exceeds funding provided, with BSI covering the shortfall. Funding available: £1,881,933 (of which £1,351,107 contribution is earmarked for running costs of committees)

⁹ Funding applied for Priority Areas projects relates to activity delivered in the year.

¹⁰ Cross-Whitehall Engagement in Standardization and Annual Organizational Diversity / Stakeholder Mapping

5. Support for participation in standardization

5.1. Assisted International Travel Scheme (AITS)



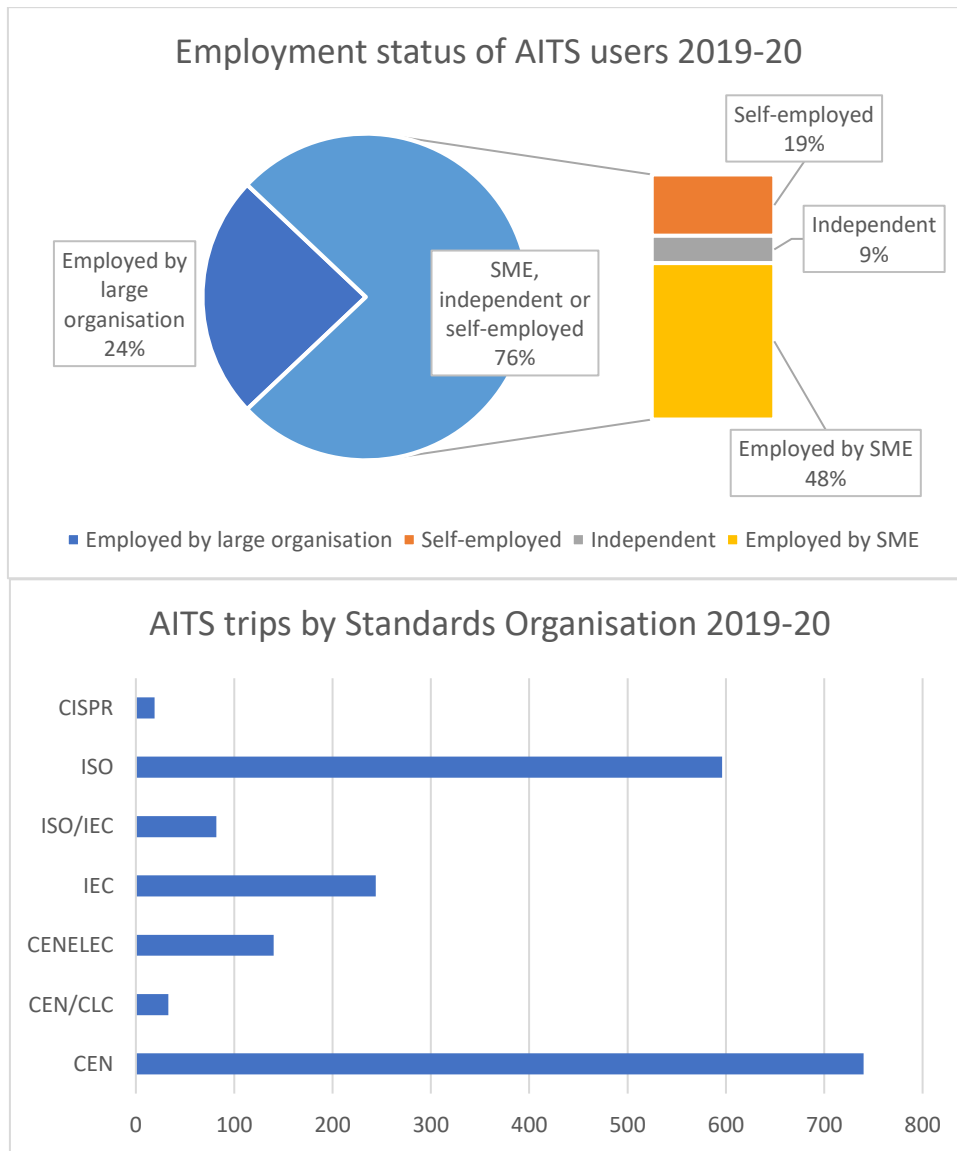
The AITS fund supports UK participants in international standards work by contributing towards their travel costs. The presence of UK delegates at international standards meetings ensures UK interests are represented when international standards are created or updated. Without this assistance many experts and delegates would not be able to participate.



Figure 2: Graphical representation of the number of trips of UK Committee Members using the AITS fund to different parts of the globe, spanning 6 continents.

In 2019/20, AITS funding of £751k was awarded. The scheme supported over 1,850 UK committee members attending international meetings in various roles throughout the funding year. Covid-19 affected the uptake of the scheme from January onwards, meaning that several trips were not completed; by comparison the scheme supported over 2,100 committee members last year.

SME access to international standardization meetings has been identified as a government priority and the fund is primarily used by SMEs. Although this funding is crucial for smaller businesses that lack the resources to attend, it also allows technical staff within larger companies to justify travel costs and time away from their employers.



Figures 3 (top) and 4 (bottom): employment status of users of AITS funding demonstrating that over 75% of trips are by committee members who are not employed by a large organization; number of trips by standards organization meeting type.

Case study: Human Resource Management



CIPD is the professional body for HR and people development. It sets professional standards to drive the human resources (HR) and learning and development (L&D) professions forward and it is the voice and career partner of a worldwide community of more than 150,000 members committed to CIPD’s purpose of championing better work and working lives.

CIPD believes work can and should benefit everyone, not just businesses and economies but also that improving individual working lives contributes

to a fairer and more prosperous society – which is entirely consonant with the UN Sustainable Development Goals (SDGs). As a registered charity, CIPD provides a valuable point of view on the rapidly changing world of work and uses its expertise and research to influence policy and organizational and professional practice, never more importantly than during the COVID-19 pandemic. It has established an internationally recognized gold standard for HR and people development that ensures that the people profession is universally trusted and valued as principles-led, evidence-based and outcomes-driven community of experts.

For these reasons CIPD has invested in the development of British and international standards to ensure they reflect future focused good practice to benefit organizations, their stakeholders and wider society. Heather Bond is its nominated expert and represents the UK on international standards committees.

Heather Bond has broad HR and L&D experience and is a Chartered Fellow of the CIPD and holder of a judicial appointment as an Employment Tribunal Member. Heather joined CIPD in 2002 and, in her current role of Standards Adviser, she represents UK on British and international standards committees HCS/1/1, HCS/1/2 and ISO/TC 260. These committees are responsible for developing human capital development and human resource management standards respectively. Heather is the Chair of HCS/1/2, the mirror Committee to ISO/TC 260 - Human Resource Management, and the lead UK delegate at TC 260 international plenary meetings.

Heather has participated in the development of a suite of three British standards on valuing people: BS 76000, BS 76005 and PD 76006. And internationally, she is a member of several TC 260 working groups and the Convener of the working group responsible for HR vocabulary. Heather has made a significant contribution to the development of several TC 260 HRM standards including ISO 30400 HRM Vocabulary; ISO 30409 Workforce Planning; ISO 30410 Impact of Hire; ISO 30414 Human Capital Reporting and is currently part of the working group developing ISO 30415 Diversity and Inclusion. In 2019 Heather was a co-editor of the book titled 'Human Capital Management Standards. A complete guide' - the purpose of the book was to focus attention on this emerging area of standardization and its importance to sustainable organization performance.

Because of CIPD's international reputation and standing, Heather believes that it is vitally important to share its body of professional knowledge and expertise to influence the development of HR standards and to purposefully support organizational development, in particular smaller organizations without a designated HR function and organizations in parts of the world where professional people management practice may be less well established.

Heather believes that the proactive engagement of the UK in the development of these HR standards is imperative and that the AITS scheme that supports this is essential because it enables the participation and collaboration of people like herself working in the not-for-profit sector or working for an SME. Heather states that without the support of the AITS scheme it is likely that such organizations would find it too challenging to release people to attend international meetings and there would be a resulting and detrimental impact on the UK's influence in the field of organizational practice and standardization.

Heather's own engagement in standards making has been supported by AITS funding for international travel to attend TC 260 working group and plenary meetings held between April 2017 to March 2018 in Paris, Bali and San Diego. Heather then attended a meeting in Australasia in September 2019. As a registered charity funded by membership subscriptions, AITS supports the necessary and future engagement of CIPD in international standards making.

Although TC 260 meetings planned for 2020 were disrupted by the COVID pandemic, Heather plans to attend these meetings in Germany and USA when they are re-scheduled. Heather believes that this is imperative to continued collaboration and to ensuring that the UK's influence in this important field of standardization continues.

5.2. Consumer & Public Interest Travel Expenses Fund (CPITEF)

The mission of BSI's Consumer and Public Interest Network (CPIN) is to deliver better British Standards through an engagement and awareness-raising network and through the representation of consumer and public interest views in BSI's standards committees by consumer representatives in standards, from the BSI network and representatives from other consumer and public interest organizations.



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committees supported by a member of the Consumer and Public Interest Network

Activities that receive CPITEF funding include:

- Attendance of consumer representatives at UK and international standardization meetings
- CPIN meetings
- Training of consumer representatives
- Awareness-raising publications and background research projects, to develop a robust evidence base.

CPIN priorities

Through discussion and working practice, current CPIN priorities are: digital, consumer safety, consumer vulnerability, services and sustainability. There are a set of leaflets explaining how these priorities are applied by CPIN to their work in standards on the BSI website:

www.bsigroup.com/consumers.

CPIN technical work

Throughout the year over 50 consumer representatives have been involved in around 100 UK and international standards technical committee meetings and working groups. Since March 2020 all meetings have been virtual, with some meetings being cancelled or postponed. CPIN has been increasingly participating in the development of BS PASs including those sponsored by BEIS.

Areas that have benefited from consumer involvement include:

- Digital – e-Commerce, identity management, privacy by design, smart textiles
- Consumer safety – button batteries, putting safe products on the market, ladders, fire performance and fire tests
- Consumer vulnerability: ageing societies, baby boxes, toy safety

- Services: online user identification systems, Tourism services, consumer vulnerability
 - Sustainability: e-scooters, electric vehicles, service life planning
-

Case study: Guidelines for organizations to increase consumer understanding of online terms and conditions

CPIN members collaborated to write a proposal for a New Work Item Proposal (NWIP) for an ISO standard, based on the BEIS best practice guide 'Improving consumer understanding of contractual terms and privacy policies: evidence-based actions for businesses.'

The BSI proposal submitted to ISO's Consumer Policy Development Committee (COPOLCO) is for a standard to offer consumer protection in response to CPIN concerns for the increasing harm caused to UK consumers using online platforms which operate cross-border. CPIN believes that all consumers should be given the information that they need, prior to purchase or use of goods and services, to make informed decisions and fully understand the conditions to which they are agreeing, including those relating to privacy.

The NWIP was welcomed and approved by ISO COPOLCO members with 47 of 75 countries voting positively and receiving no negative votes. The proposal was also supported by ANEC. The next step would be to confirm secretariat support and seek approval by the ISO members to commence work.

Events attended and organized

Several meetings were organized/attended by consumer representatives and the BSI consumer team during the year:

- In May 2019 a BSI staff member and CPIN chair attended the ISO COPOLCO plenary and working group meetings. CPIN presented the NWIP for an ISO standard for online terms and conditions.
- In June 2019 BSI consumer team and CPIN members attended the Chartered Trading Standards Institute Symposium and the annual Women's Institute conference, manning stands for information and recruitment.
- In June 2020 the first BSI Consumer Forum Conference on 'Ethics and AI' was opened by its new Chair with around 80 attendees. Speakers from Lego, Microsoft and Ethical Consumer provided insights.
- CPIN's annual CPD day was held at Building Research Establishment in Watford with a tour of the establishment, including digital and dementia friendly homes.
- In November 2019 the BSI consumer team exhibited at the Electrical Safety First Product Safety Conference and at Ethical Consumer Conference, presenting the work of CPIN and recruiting new consumer representatives. A leaflet on ethical issues was issued to support the latter event.

- CPIN members' winter meeting, which involved an update on CPIN developments as well as consideration of plastics and recycling with a presentation from Which? and a BSI Sector Manager.
- CPIN roundtable on PAS 7050 putting safe products on the market, to inform the consumer position on this topic. This was attended by 17 representatives from a variety of consumer groups

Training for Consumer Representatives

Four face-to-face training sessions on representing the consumer voice in standards were organized and facilitated by the CPI team and experienced consumer trainers.

Training for Consumer Forum members

A 2-hour interactive session on consumers and standards has been delivered to a number of members including Which?, OPSS, OPSS testing laboratories and Fair by Design with positive feedback and increased collaboration across a range of topics.

Training for BSI Standards Development Managers

Offered to all BSI staff, the bite-sized session on the role of consumers in standards and their role in consumer protection has been taken up by over 20 individuals over the year. This has led to an increase in requests for consumer representation and a better understanding of the role of a consumer representative.

Changes to BSI CPIN

The review of CPIN and how it delivers improvements to British Standards through consumer representation continued and further changes were implemented. As part of the planned restructure of CPIN, Liz Barclay was appointed as the Chair of the BSI Consumer Forum on 1st June 2019. Liz is a well-known consumer champion and brings with her a wealth of experience, both in consumer issues and as a member of a range of charity, industry and regulatory boards. Liz chairs the Consumer Forum Council (formally CPISAC) which met twice in 2019/2020.

The CPIN Chair attends the Consumer Forum Council and chairs the CPIN Steering Group, which comprises 3 advisors and 5 coordinators and meets 3 times annually.

The 5 coordinators meet monthly to manage the increasing activity of the 60 CPIN members, who are representing consumers in over 145 UK committees, across 10 sectors. The activity is prioritised by the potential impact of standards to reduce the risk of harm or improve the lives of UK consumers.

6. Impact case studies



value of projects and programmes awarded in 2019/20 by public-sector bodies for BSI's standards and consultancy services

* Projects and programmes funded outside the BEIS core grant.

6.1. Commonwealth Standards Network Phase 1 (May 2018 - March 2020):

The Commonwealth Standards Network (CSN) project (£6.45m) funded through a DFID Accountable Grant Arrangement (AGA) is being implemented by BSI over 34 months from May 2018 – March 2021 (including a second phase/a one-year extension). The project works with NSBs and key related stakeholders across the Commonwealth to support the increased use of international standards as a tool to stimulate domestic economic performance and support intra-Commonwealth trade growth. This in turn leads to economic prosperity in ODA eligible countries, creating jobs and growth, and leading to positive developmental outcomes.

The programme has four project work streams – a new CSN Network with an online platform, and three bespoke technical assistance projects split by region: Africa, the Caribbean and Oceania. The technical assistance projects develop the skills necessary to support domestic standards development, use international standards effectively for trade, and empowering NSBs to take an active role in international standards development. The project targets Quality Infrastructure institutions (particularly peer National Standards Bodies) but also actively engages with and supports private sectors throughout.

CSN Network

The 'Network' stream of the CSN includes 'Network development', 'Digital Platform and resources', and 'Support' components which are open to all 54 Commonwealth member states to provide coordination and knowledge sharing on all issues relating to the use of standards and their associated economic benefits.

Phase 1 'Network development' included 50 of 54 (93%) Commonwealth countries becoming participating CSN members (accounting for 99% of intra-commonwealth goods exported) which has made the CSN the biggest network of NSBs in the ISO family. CSN Annual Meetings took place in 2018 and 2019 and offered opportunities for Commonwealth coordination and for the membership to help shape the CSN work programme.

The 'Digital Platform' was launched in June 2019 to provide an online focal point for Commonwealth-wide CSN engagement. The platform facilitates peer-to-peer learning and also includes access to CSN written resources including guidance documents, training materials, and a CSN toolkit to support a range of standards related developmental topics including: how standards support trade, how standards can support regulation, how to develop standards, how

to participate in international standards development and how to identify and adopt international standards.

CSN Network stream Phase 1 'Support' included the delivery of 30 in-country training sessions to a variety of NSBs and stakeholders such as exporters and policy makers within Commonwealth ODA countries. The sessions covered topics such as: the benefits of using international standards (to support trade, productivity, and consumer protection), NSB business development, how to get involved in the development of international standards, and how to adopt international standards nationally. More NSB trainings and engagement meetings were delivered than originally planned over Phase 1 to meet increasing demand without exceeding budgets.

CSN in Africa - building the capacity of National Standards Bodies to pave the way for increased exports and greater prosperity

The Africa technical assistance programme focused on providing standards-related technical assistance to two countries – Uganda and Zambia. In both countries the prime beneficiary was the NSB, namely the Uganda National Bureau of Standards (UNBS) and the Zambia Bureau of Standards (ZABS). In Uganda, the project helped to create a National Standardization Strategy. This was launched in 2019 and provides a sustainable and resilient roadmap until 2022 for developing standards in key Ugandan sectors, such as food, agriculture, services and consumer products.

The programme stimulated interest in and demand for the wider quality infrastructure services of these NSBs among the MSME sector. Primary producers and smallholder farmers are integral to Uganda's economy. Some 66% of Ugandans work in agriculture, while about 250,000 are fishermen. To support this, the project helped UNBS to produce leaflets and guides, in English, Luganda (which is spoken by about two million Ugandans) and other local languages, explaining, not only why it pays to work with international standards, but – crucially – how to do it. Some producers may know about the benefits of standards but knowing how to apply them is another matter altogether. In phase one, some Ugandan producers have been certified to international standards, with more to follow. We have provided guidance to fish-processing factories on compliance with the British Retail Consortium [global food safety] standard, which is required by many major British and European retailers. BSI additionally assessed Uganda's National Metrology Laboratory and delivered ISO standards-auditing and corporate training to UNBS staff.

While copper mining has traditionally generated a large proportion of Zambia's export earnings, it provides jobs for only 2% of the population. Roughly half of Zambia's population works in agriculture, but it contributes less than 10% of national GDP. Zambia's agriculture sector also has significant potential for growth, which standards can help unlock. The Zambia Bureau of Standards (ZABS) recently underwent major organizational restructuring, in line with Zambia's new National Quality Policy. We worked with ZABS to create a sustainability strategy, setting out realistic resourcing, financial and strategic objectives for the organization. Importantly, we looked at how it could transition away from relying on government financing. We drafted action plans for improving ZABS' processes and trained its staff, including hosting a delegation from ZABS and the Zambian Ministry of Trade at BSI in February 2020.

CSN in the Caribbean - strengthening the Saint Lucia Bureau of Standards to improve the island's quality infrastructure and boost exports

This work stream's ultimate goal was to increase St Lucia's exports by removing technical barriers to trade. Tourism is vital to the economy, accounting for about 65% of national GDP. Key Saint Lucian exports include cocoa, avocados, mangoes, coconut oil and bananas – the latter the island's most important crop. Main export partners include USA, UK and Trinidad and Tobago, and, overall, St Lucia's exports are worth about \$185m (£142m) a year.

The Caribbean work stream had six components on phase 1. The first was dedicated to developing a National Quality Policy for the island (the impact of which meant we conducted the same work in Saint Vincent and the Grenadines, and Dominica). The second component addressed legal approximation, so we began by reviewing existing standards legislation in St. Lucia, to see how it could be brought into line with international standards legislation and best practices. The third component helped St Lucia's NSB, SLBS, to be better able to adopt international standards, including those regional standards developed by CROSQ [the regional standards body for Caribbean CARICOM countries], to increase regional trade. SLBS has since adopted more than 500 international standards. Via the improved organization's website, businesses can now comment to help shape standards as they are developed in real time. International Standards can also be bought via the refreshed SLBS online shop. Component four was dedicated to upgrading SLBS' certification, which would also help Saint Lucian exporters to sell more to other Caribbean and Commonwealth countries. A key aim of the project is to raise awareness of standardization's numerous benefits. Stakeholder events have been staged, while adverts have also appeared on the TV, highlighting the features and benefits of quality and standards, to businesses and people, through consumer protection, for example. This was the fifth component. The project's final component concerned improving calibration skills so that SLBS can provide measurements required for exports (e.g. temperature and storage tank volumes). UKAS, the UK's National Accreditation Body, delivered a series of four accreditation trainings in Saint Lucia, supporting the programme and contributing to the project's wider Quality Infrastructure offering.

CSN in Oceania - working with National Standards Bodies to improve national quality infrastructure and boost exports

The objective of the Oceania technical assistance programme was to contribute to the removal of technical barriers to trade between Papua New Guinea (PNG), Vanuatu (ROV), and their trading partners (particularly other Commonwealth Member States). The main expected result was to strengthen the institutional frameworks of PNG and Vanuatu to enable better implementation of international best practice and facilitate the free movement of goods and services. Priority areas included: developing a national quality policy for each country; supporting laboratory accreditation and improved quality control in metrology; training and capacity-building of staff involved in developing standards; helping to develop certification systems; and awareness-raising among businesses and other stakeholders of the benefits of using international standards. Working closely with staff and stakeholders in Papua New Guinea and Vanuatu, a needs assessment was made in each of the above areas, before actions were planned. We conducted stakeholder surveys and consultation workshops before starting work on the national quality policies, and assessed the training needs of staff, particularly with regard

to using BS EN ISO/IEC 17025:2017, the standard for general requirements for testing and calibration laboratories and verification methods.

A regulatory impact assessment and gap analysis was carried out and training and capacity building workshops held, while training and promotional materials were created or improved. Both CSN members also reached out to wider audiences in the public and private sectors, as well as the general public, via conferences, awareness-raising events (e.g. World Standards Day) and targeted campaigns using various communication channels. Crucially, our experts worked with national standards body staff in both countries to improve certification services and enable laboratory accreditation. The national quality infrastructure in both Papua New Guinea and Vanuatu has improved significantly, their NSBs are much stronger as a result and stakeholder engagement and awareness has increased.

“The project started when the Vanuatu Bureau of Standards was just six months old, when public knowledge of its existence was virtually non-existent. It has helped us grow towards developing a national quality infrastructure strategy, increasing our visibility and raising awareness of the importance of standards. Capacity building workshops in laboratory accreditation, food safety, quality management and metrology have helped our staff greatly.”

Ms. Ruth Amos, Acting CEO, Vanuatu Bureau of Standards (VBS)

CSN Phase 2 is now ongoing until March 2021 with widened technical assistance geographies (Rwanda, Belize) and a bespoke rapid response to the COVID-19 crisis. The project continues to serve the needs of its members and supports the adoption and wider use of International Standards across the Commonwealth.

6.2. BSI, Standards and the UN Sustainability Goals

BSI was established in 1901 with responsibility to society as one of its main objectives and this has never been more relevant than it is today. As a company, our purpose is to “inspire trust for a more resilient world” and BSI solutions and services improve performance and support the UN Sustainable Development Goals.

The UN has long recognized the role played by standards in enabling organizations to benchmark, assess and communicate their performance against sustainable development indicators:

“Voluntary standards ...provide a harmonized, stable and globally recognized framework for the dissemination and use of technologies, and encompass best practices and agreements that encourage more equitable development and promote the overall growth of society... providing solutions that will be needed in order to achieve many of the UN Sustainable Development Goals”.

The UN Industrial Development Organisation (UNIDO)

The development of BSI's 2020-2024 strategic plan, following our signing up to the UN Global Compact, provided an opportunity for us to revisit our approach to social responsibility and take a more holistic 'sustainability' path. We wanted to ensure that our plan would be anchored in BSI's founding purpose, as set out in our Royal Charter and our values, and would encompass our current and future activities, not just those intended to be philanthropic, using the SDGs as a credible and communicable basis for our strategy.



BSI support for the UN Sustainable Development Goals



Recognizing that all the goals are interconnected, and that our Royal Charter requires us to facilitate partnerships, we decided to focus primarily on SDG 17 (Partnerships for the goals). Due to the nature of our activities, we also identified six more goals that BSI is well placed to advance, namely: SDG 3 (Good health and wellbeing), SDG 7 (Affordable and clean energy), SDG 8 (Decent work and economic growth), SDG 9 (Industry, innovation and infrastructure), SDG 11 (Sustainable cities and communities) and SDG 12 (Responsible consumption and production).

BSI's new sustainability strategy will be implemented across our global business. We will frame our approach to sustainability using the SDGs and will continue to map our activities against them and our contribution to them. BSI also seeks to promote the use and awareness of international standards and improve technical and institutional capacity to use and develop

these outside the UK. For example, BSI leads the Commonwealth Standards Network, which received additional UK Aid funding to continue to facilitate Commonwealth trade and poverty reduction through the increased use of international standards. Our International Projects team has worked in over 50 developing countries and transition economies and designs interventions to improve quality infrastructure, trade and investment flows, and to facilitate increased opportunities for market access via greater alignment to international standards

7. Annexes

ANNEX 1: BSI standards development committees

Technical committees are responsible for creating and maintaining our standards across a broad portfolio of subject areas, demonstrated in Figure 3, including construction, agriculture and food, ICT and transport. There are 2,233 published projects by committees that are supported in part by BEIS' core grant, including the 176 non-commercially viable Technical Committees and the CSC. Figure 1 demonstrates, for the 177 Technical Committees, how the standards published are split between government priority areas. Figure 2 reveals that nearly 50% of projects published are new documents (includes CSC statistics).

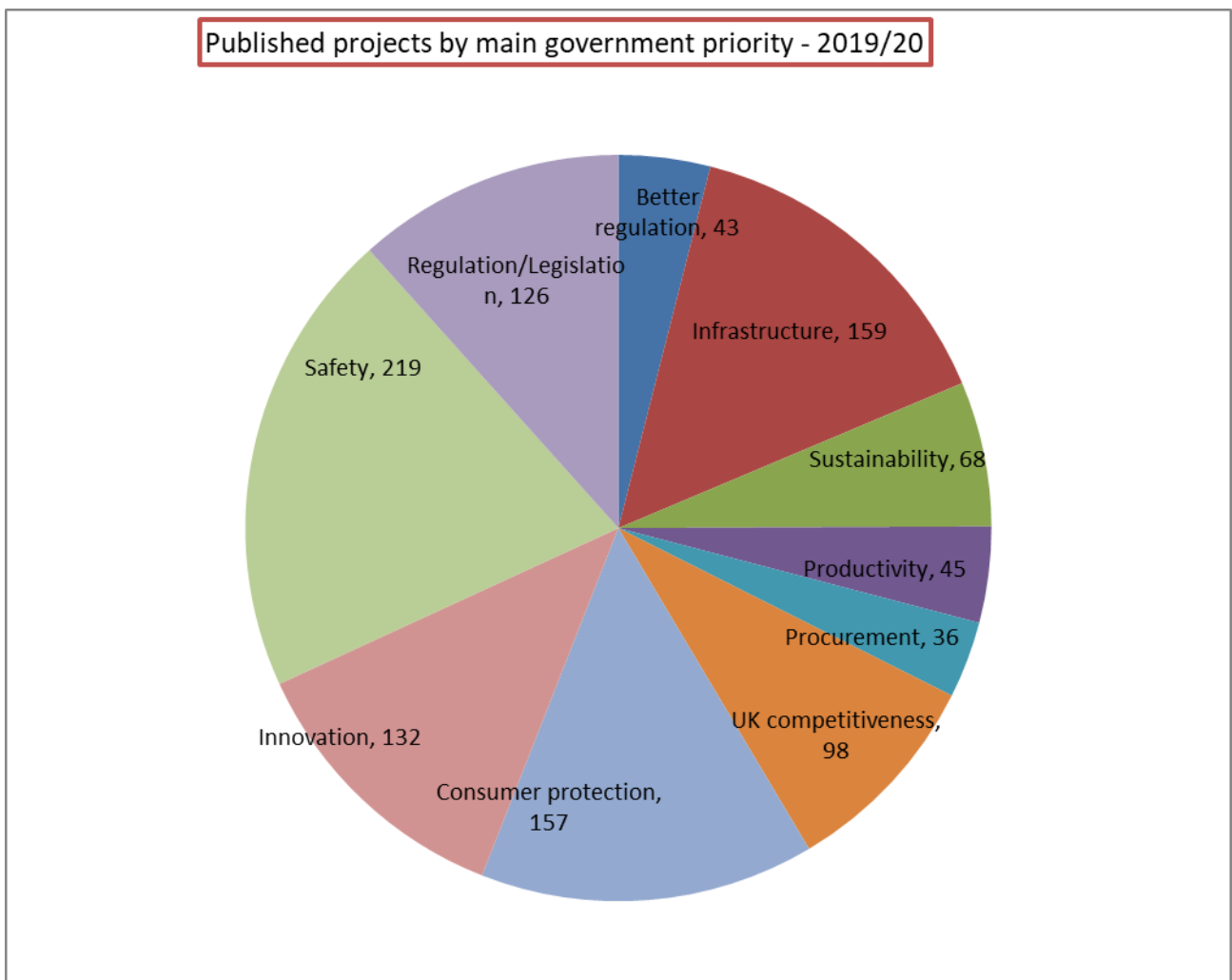


Figure 1: Projects published against the main government priority areas. Only the primary priority area is selected per committee, in reality, standards may fit under several of these areas. Projects published associated with the CSC are not included in this figure.

Nb. Better regulation: helping the government agenda towards better regulation; Regulation/Legislation: supporting UK regulation and legislation

Published projects by project type

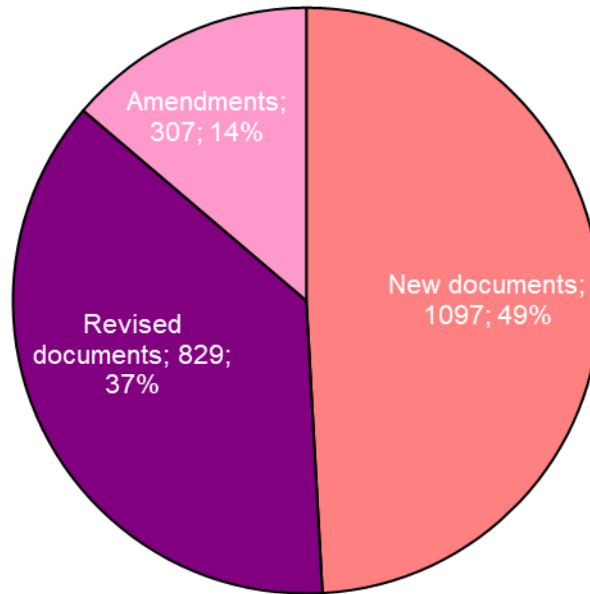


Figure 2: Types of projects published, either new, amended or revised.

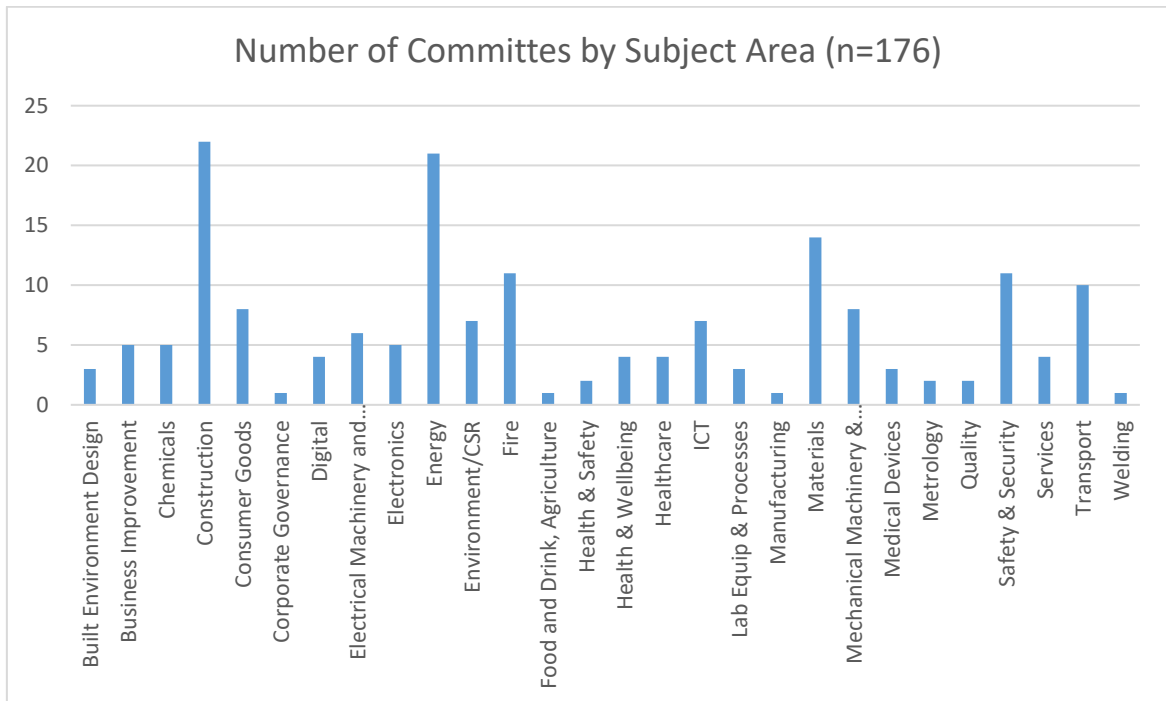


Figure 3: Number of supported committees broken down into subject area categories, excluding the CSC.

To search for individual committees or committees by subject area, refer to:

<https://standardsdevelopment.bsigroup.com/>

The table below lists the BSI standards development committees that received a funding contribution through the BEIS grant money in 2019/20. Committees are grouped by subject

area. BEIS funding contributes towards committees running costs when that committee is deemed non-commercially viable but supports HMG priorities.

Table 1: Standards development committees that are supported by a contribution by BEIS, excluding CSC. There are 176 committees in total.

Reference	Technical Committee title	Subject area	BEIS funding category
B/553	Geotextiles and geomembranes	Built Environment Design	Procurement
CB/501	Flood risk & watercourses	Built Environment Design	Infrastructure
SDS/2	Smart and sustainable cities and communities	Built Environment Design	Innovation
DLT/1	Blockchain and Distributed Ledger Technology	Business Improvement	Innovation
G/1	Governance	Business Improvement	Better regulation
KMS/1	Knowledge management systems	Business Improvement	Productivity
MS/6	Methodologies for business process improvement using statistical methods	Business Improvement	Productivity
RM/1	Risk management	Business Improvement	Better regulation
CII/47	Pyrotechnic articles	Chemicals	Consumer protection
LBI/50	Fine Bubble Technology (FBT)	Chemicals	Innovation
PTI/17	Solid biofuels	Chemicals	Innovation
STI/28	Paint systems for non-metallic substrates	Chemicals	Consumer Protection
STI/36	Vitreous enamel coatings	Chemicals	UK competitiveness
B/209	General building codes	Construction	Better regulation Regulation
B/502	Aggregates	Construction	/Legislation
B/509	Road equipment	Construction	Safety
B/510	Road materials	Construction	UK competitiveness
B/513	Construction equipment and plant and site safety	Construction	Safety
B/514	Access and support equipment	Construction	Safety Regulation
B/525	Building and civil engineering structures	Construction	/Legislation
B/526	Site investigation and ground testing	Construction	Infrastructure
B/540	Energy performance of materials components and buildings	Construction	Better regulation
B/555	Construction design, modelling and data exchange	Construction	Innovation
B/557	Construction products - Assessment of dangerous substances	Construction	Regulation /Legislation
B/558	Sustainability of construction works	Construction	Sustainability
CB/-	Construction & Built Environment Sector Policy and Strategy Committee	Construction	Innovation
CB/1	Architectural Design & Construction	Construction	Infrastructure

Reference	Technical Committee title	Subject area	BEIS funding category
CB/101	Service Life Planning	Construction	Procurement
CB/2	Structures advisory committee	Construction	Innovation Regulation /Legislation
CB/3	Construction Products Digitalization of the Built Environment Strategy committee	Construction	Innovation
FMB/1	Facilities management strategy group	Construction	Procurement
FMW/1	Facilities management	Construction	Procurement
ISE/100	Steel, General Issues Ventilation for buildings, heating and hot water services	Construction	Procurement
RHE/2	Ladders	Consumer Goods	Better regulation Consumer protection
B/512	Safety of motor-operated electric tools	Consumer Goods	Safety Regulation /Legislation
CPL/59	Performance of household electrical appliances Safety of household and similar electrical appliances	Consumer Goods	Consumer protection
CPL/61	Electrical control devices for household equipment and appliances	Consumer Goods	Consumer protection
CPL/72	Optics and Photonics	Consumer Goods	UK competitiveness
CPW/172	Graphic technology	Consumer Goods	Productivity
PAI/43	Packaging	Consumer Goods	Consumer Protection
PKW/0	Human Capital Coding of picture, audio, multimedia and hypermedia information	Corporate Governance	Innovation
HCS/1	Distributed application platforms and services (DAPS)	Digital	UK competitiveness
IST/37	Biometrics	Digital	Infrastructure Innovation
IST/38	Data communications	Digital	Productivity
IST/44	Auxiliaries for lamps	Electrical Machinery and Component	Consumer protection
IST/6	Maritime navigation and radiocommunication equipment and systems	Electrical Machinery and Component	Safety
CPL/34	Power transformers	Electrical Machinery and Component	Infrastructure
EPL/80	Rotating electrical machinery	Electrical Machinery and Component	UK competitiveness
PEL/14	Fuses	Electrical Machinery and Component	Consumer Protection
PEL/2	Tools for live working	Electrical Machinery and Component	Safety
PEL/32	Printed Electronics	Electronics	Innovation

Reference	Technical Committee title	Subject area	BEIS funding category
EPL/100	Audio, video and multimedia systems and equipment	Electronics	Innovation
EPL/278	Road transport informatics	Electronics	Infrastructure
GEL/86	Fibre optics	Electronics	Infrastructure
STI/33	Electrodeposited and related coatings	Electronics	Procurement
AMS/1	Management of Assets in Power Systems	Energy	Sustainability
ESL/120	Electrical Energy Storage	Energy	Infrastructure
GEL/105	Fuel cell technologies	Energy	Innovation
GEL/50	Low Voltage Direct Current for Electricity Access	Energy	Sustainability
GEL/8	Systems Aspects for Electrical Energy Supply	Energy	Infrastructure
GSE/25	Gas Meters	Energy	Infrastructure
L/13	Smart Grid policy	Energy	Infrastructure
NCE/2	Radiation protection and measurement Instrumentation, Control & Electrical Systems of	Energy	Infrastructure
NCE/8	Nuclear Facilities	Energy	Infrastructure
PEL/114	Marine energy - Wave, tidal and other water current converters	Energy	Infrastructure
PEL/13	Electricity Meters	Energy	Infrastructure
PEL/57	Power systems management and associated information exchange	Energy	Infrastructure
PEL/88	Wind turbines	Energy	Sustainability
PEL/894	Remote Meter Reading	Energy	Innovation
PSE/17	Materials and equipment for petroleum, petrochemical and natural gas industries	Energy	Productivity Regulation
PTI/12	Petroleum Measurement and Sampling	Energy	/Legislation
PTI/15	Natural Gas and Gas Analysis	Energy	Sustainability
PTI/2	Liquid Fuels	Energy	Consumer Protection
PTI/20	Sustainability of bioenergy	Energy	Sustainability
PVE/15	Storage Tanks for the Petroleum Industry	Energy	Consumer protection
SEM/1	Energy Management	Energy	Sustainability
CPI/113	Hydrometry	Environment/CSR	UK competitiveness Regulation
EH/2	Air quality	Environment/CSR	/Legislation
EH/3	Water quality	Environment/CSR	Better regulation Regulation
EH/4	Soil quality	Environment/CSR	/Legislation
RHE/25	Solar Heating	Environment/CSR	Sustainability
SDS/1	Sustainable development Co-ordination Committee	Environment/CSR	Sustainability
SSM/1	Societal security management	Environment/CSR	Consumer Protection
FSH/0	Fire Co-ordination	Fire	Safety
FSH/16	Hazards to life from fire	Fire	Safety
FSH/17	Fire brigade equipment	Fire	Safety
FSH/18	Fixed fire fighting systems	Fire	Safety
FSH/21	Reaction to fire tests	Fire	Safety
FSH/22	Fire resistance tests	Fire	Safety

Reference	Technical Committee title	Subject area	BEIS funding category
FSH/24	Fire safety engineering	Fire	Safety
FSH/25	Smoke, heat control systems and components	Fire	Safety
FSS/0	Fire safety and security systems	Fire	Consumer protection
PH/14	Firefighters' personal protective equipment	Fire	Safety
PH/4	Respiratory protection	Fire	Safety
AW/415	Traceability and sustainability of cocoa	Food and Drink, Agriculture	Sustainability
PH/1	Safety, protective and occupational footwear	Health & Safety	Safety
PH/6	Head protection	Health & Safety	Safety
CH/100	Healthcare and medical equipment (European and International)	Health & Wellbeing	Safety
CH/403	Aesthetic Surgery and Aesthetic Non-Surgical Medical Services	Health & Wellbeing	Safety
CH/437	Electronic Cigarettes & E-liquids	Wellbeing Health &	Consumer protection
CH/440	Adult social care	Wellbeing	Safety
CH/157	Mechanical contraceptives	Healthcare	Consumer Protection
CH/172	Ophthalmic optics	Healthcare	Safety
CH/205	Non-active medical devices	Healthcare	Safety Regulation /Legislation
CH/239	Rescue systems	Healthcare	Innovation
AMT/10	Robotics	ICT	Procurement
AMT/4	Industrial data and manufacturing interfaces	ICT	Infrastructure
ICT/-/1	Information systems co-ordination	ICT	Productivity
IOT/1	Internet of Things	ICT	Productivity Regulation /Legislation
IST/41	Document description and processing language	ICT	Safety
IST/43	Information technology for learning, education and training	ICT	Safety
IST/47	Electronic Supply Chain	ICT	Safety
EPL/66	Safety of measuring, control and laboratory equipment	Lab Equip & Processes	Safety
EPL/87	Ultrasonics	Lab Equip & Processes	Safety
LBI/1	Laboratory Equipment	Lab Equip & Processes	Safety
AMT/8	Additive manufacturing	Manufacturing	Innovation
ISE/1	Iron and steel standards co-ordinating committee	Materials	Infrastructure
LBI/37	Particle characterization including sieving	Materials	Safety
MI/2	Bio-based products	Materials	Innovation
NTI/1	Nanotechnologies	Materials	Innovation
PRI/10	Terminology for rubbers and plastics	Materials	Procurement
PRI/26	Burning behaviour of plastics and rubbers	Materials	Safety
PRI/42	Fibre reinforced thermosetting plastics and prepreps	Materials	UK competitiveness
PRI/66	Rubber and plastics tubing, hoses and hose assemblies	Materials	UK competitiveness

Reference	Technical Committee title	Subject area	BEIS funding category
PRI/89	Plastics recycling	Materials	Sustainability
STI/10	Test methods for paints	Materials	UK competitiveness
TCI/100	Co-ordination of activities in textiles and clothing	Materials	Consumer protection
TCI/66	Apparel and interior textiles	Materials	Consumer protection
TCI/80	Chemical testing of textiles	Materials	Consumer protection
WEE/3	Welding of thermoplastic moulded components	Materials	Innovation
GME/21	Mechanical vibration, shock and condition monitoring	Mechanical Machinery & Components	Safety
GSE/29	Gas-fired central heating boilers (domestic and non-domestic) and domestic gas-fired water heaters	Mechanical Machinery & Components	Consumer Protection
GSE/35	Gas cooking appliances (domestic)	Mechanical Machinery & Components	Consumer Protection
GSE/36	Independent gas-fired space heaters	Mechanical Machinery & Components	Consumer protection
MCE/6	Pumps and pump testing	Mechanical Machinery & Components	Safety
MTE/1	Machine tools	Mechanical Machinery & Components	Safety
PVE/1	Pressure Vessels - Materials selection	Mechanical Machinery & Components	Regulation /legislation
PVE/3	Gas containers	Mechanical Machinery & Components	Regulation /Legislation
CH/121	Anaesthetic and respiratory equipment	Medical Devices	Safety
CH/150	Implants for surgery	Medical Devices	Safety
CH/173	Assistive products for persons with disability	Medical Devices	Consumer Protection
CPI/30	Measurement of fluid flow in closed conduits	Metrology	Infrastructure
ISE/104	Concrete Reinforcing and Pre-Stressing Steels	Metrology	Infrastructure
DS/1	Dependability	Quality	Safety
MS/2	Project, programme and portfolio management	Quality	Productivity
AT/452	Assistance animals and animal training competencies	Safety & Security	Consumer protection
CW/1	Safety of child use and child care products	Safety & Security	Safety
DEF/1	Defence standardization	Safety & Security	Procurement Regulation
FSM/1	Forensic Science	Safety & Security	/Legislation
GSE/22	Safety and control devices for gas and oil burners and gas burning appliances	Safety & Security	Safety
GW/1	Electronic security systems and products	Safety & Security	Procurement
GW/2	Secure storage of cash, valuables and data media	Safety & Security	Consumer protection
PH/2	Eye protection	Safety & Security	Safety

Reference	Technical Committee title	Subject area	BEIS funding category
PH/9	Applied ergonomics	Safety & Security	Innovation
RTS/1	ISO 39001 Road Traffic Safety Management systems	Safety & Security	Safety
SW/136	Sports, playground and other recreational equipment	Safety & Security	Consumer protection
IMS/1	Innovation management	Services	Innovation
SVS/0	Customer service - Fundamental principles	Services	Consumer protection
SVS/19	Tanning salon services	Services	Consumer protection
SVS/2	Tourism services	Services	Consumer protection
ACE/1	International and European Aerospace Policy and Processes	Transport	Infrastructure
ACE/68	Space systems and operations	Transport	Infrastructure
AUE/17	Vehicle security	Transport	Safety
AUE/18	Tanks for the transport of dangerous goods	Transport	Safety
AUE/20	Vehicle on-board diagnostics, repair and maintenance information	Transport	Safety
AUE/32	Electrical and electronic components and general system aspects (Road vehicles)	Transport	Safety
AUE/7	Automobile occupant restraint systems	Transport	Safety
GME/33	Small craft	Transport	Safety
PEL/69	Electric vehicles	Transport	Sustainability Regulation
SME/32	Ships and marine technology - Steering committee	Transport	/Legislation
WEE/40	Health and safety in welding	Welding	Safety
PH/8	Graphical symbols	-	Consumer protection

ANNEX 2: BSI Projects delivered or started in receipt of funding from other public-sector bodies beyond the funding letter

HMG client	Project name	Expected Project End Date	Contract value (£)
BEIS / University of Cambridge	BIM Level 2	2022	£579,000
BEIS	Digital Infrastructure for Cities - workshops and research	30/11/2019	£35,000
BEIS	PAS 2030-2035 EEM installation, Certification of energy efficiency measure installation in existing buildings and insulation in residential park homes, Retrofitting dwellings for improved energy efficiency	02/05/2019	£222,500
BEIS	PAS 2038 Non-Domestic Retrofit of Energy Efficiency Measures	30/04/2021	£282,000
BEIS	PAS 4444:2019 Guidance on testing and certification of hydrogen gas appliances	01/06/2020	£118,000
BEIS	PAS 7100 Product Corrective Action (Marketing)	31/07/2019	£31,400
BEIS	Sustainable Finance Programme	31/03/2022	£437,500
CPNI	Revision of PAS 127 - Checkpoint security screening of people and their belongings	31/12/2019	£41,500
CPNI	PAS 29000:2021 Carbon Management in Infrastructure	03/10/2021	£132,500
CPNI	Revision of PAS 97 - Mail screening and security	31/12/2019	£12,500
CPNI	PSS CPNI Standards Watch 2018 to 2020	30/05/2019	£22,500
CPNI	Vehicle security barriers - ISO Seed Document	05/07/2019	£64,000
Defra	PAS 44 - Official identification eartags for cattle	31/01/2020	£24,000
Defra	PAS 66 - Official identification eartags for sheep and goats	31/01/2020	£24,000
DFID	Commonwealth Standards Network	31/03/2020	£3,726,606
DFID	Commonwealth Standards Network Phase 2	31/03/2021	£2,250,000

DfT	Future of Mobility (1b)	28/02/2020	£90,000
FCO	China Business Environment Project – Standards Strand	08/11/2019	£3,999,415
FCO	PF18 003 India Future Cities		£780,192
FCO	Reduction of Technical Barriers to Trade in Bolivia – Scoping Study	31/05/2020	£20,000
FCO	Ease of Doing Business - India	31/03/2022	£950,000
Innovate UK (BEIS)	Connected and Autonomous Vehicles Standards Programme	30/09/2020	£1,014,785
Innovate UK	Future of Mobility Standards Landscape	30/04/2019	£65,000
Innovate UK	Faraday Battery Challenge	29/01/2021	£420,000
Innovate UK	PAS 440 Responsible Innovation	30/04/2020	£118,800
Innovate UK	PAS 6001 AM Business Case	13/02/2020	£105,000
Innovate UK	PAS 6010 Wire feedstock	04/11/2019	£77,000
Innovate UK	PAS 6011 NDT DED Guide	01/09/2019	£86,000
Innovate UK	PAS 6012 Wire and arc DED Guide	01/09/2019	£87,000
Innovate UK	PAS 7040 Sensors	19/09/2019	£100,000
Innovate UK	PAS 7062 - Electrode and cell	30/09/2020	£90,000
Innovate UK	PSS Standards Roadmap - Smart Factories	25/01/2022	£100,000
MHCLG	PAS 232 Privately managed parking	29/01/2021	£98,500
TFL	PAS 8 Design for Minds		£80,000

Organisational acronyms:

BEIS – Department for Business, Energy and Industrial Strategy

CPNI - Centre for the Protection of National Infrastructure
Defra – Department for Environment, Food and Rural Affairs
Dfid – Department for International Development
DfT – Department for Transport
FCO – Foreign and Commonwealth Office
MHCLG – Ministry of Housing, Communities and Local Government
TFL – Transport for London

ANNEX 3: List of Departments and Executive Agencies benefiting from HMG membership of BSI using discounted member rate for standards products

Departments

High-level Government Departments	Total member rate of standards purchased
Cabinet Office	£1,552
Department for Business, Energy and Industrial Strategy	£18,115
Department for Digital, Culture, Media and Sport	£441
Department for Environment, Food and Rural Affairs	£22,267
Department for Transport	£454,703
Department for Work and Pensions (incl. HSE)	£339,277
Department of Agriculture, Environment and Rural Affairs (NI)	£1,080
Department of Finance	£42,625
Department of Health and Social Care	£28,869
Food Standards Agency	£211
Foreign & Commonwealth Office	£32,020
HM Revenue and Customs	£3,763
Houses of Parliament	£6,213
Ministry of Defence (MOD)	£480,055
Ministry of Housing, Communities and Local Government	£2,738
Ministry of Justice	£23,129
Scottish Government	£24,332
The Home Office	£12,070
Welsh Government	£5,016

Eligible Agencies using HMG membership of BSI, 2019-20

Cabinet Office

- Government Comms Planning
- Office for National Statistics
- The Emergency Planning College

Department for Business, Energy and Industrial Strategy

- Companies House
- H M Land Registry
- Met Office
- Nuclear Decommissioning Authority
- Ordnance Survey
- UK Intellectual Property Office
- UK Space Agency

Department for Digital, Culture, Media and Sport

- The National Archives UK

Department for Environment, Food and Rural Affairs

- Animal and Plant Health Agency
- CEFAS
- Environment Agency

Department for Transport

- British Transport Police Authority
- Driver and Vehicles Standards Agency
- Highways England
- Maritime & Coast Guard Agency
- Rail Accident Investigation Branch
- Trinity House
- Vehicle Certification Agency

Department for Work and Pensions

- Health & Safety Executive
- Office for Nuclear Regulation

Department of Agriculture, Environment and Rural Affairs (NI)

- Northern Ireland Environment Agency

Department of Health and Social Care

- Medicines and Healthcare Products Regulatory Agency

- Public Health England

Foreign & Commonwealth Office

- Government Communications Headquarters
- HM Government Communications Centre

Houses Of Parliament

- House of Commons Library
- Parliamentary Estates

Ministry of Defence

- Defence Infrastructure Organization
- Technical Info Centre of Royal Engineers
- UK Hydrographic Office

Ministry of Housing, Communities and Local Government

- The Planning Inspectorate

Ministry of Justice

- Gov Facility Services Ltd
- HM Prison & Probation Service
- Ministry of Justice Estates Directorate
- Newport SSCL

Scottish Government

- National Library of Scotland
- National Records of Scotland
- NHS Education for Scotland
- Registers of Scotland
- Scottish Government
- Scottish Prison Service
- Social Security Scotland
- Transport Scotland

The Home Office

- National Crime Agency

Welsh Government

- Welsh Assembly Government
- Welsh Assembly Library