

Report to the Department for Business, Energy and Industrial Strategy

Use of funding for the financial year 1 April 2018 to 31 March 2019

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1. Year highlights

£ 1,090k
Subscriptions

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

£ 1,738k
Standards Development

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

£3.82m

£ 1,004k
Participation

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



179 technical committees supported by BEIS funding



2,086 standards published by UK committees including by access to international standardization ★



£7.3M value of projects and programmes awarded in 2018/19 by public-sector bodies for BSI's standards and consultancy services



2,017 international trips by committee members supported through AITS

★ UK committees which receive a contribution to their running costs from BEIS

2. 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. The European Commission's perspective on the role of standards was set out in the Standardisation Policy (2016):

"Standards support market-based competition and help ensure the interoperability of complementary products and services. They reduce costs, improve safety, and enhance competition. Due to their role in protecting health, safety, security, and the environment, standards are important to the public. [Standards improves] regulation and enhances the competitiveness of European industry."¹

BSI's relationship with Her Majesty's Government (HMG) is constituted through a memorandum of understanding (MoU)² 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 overall original allocation for the funding year 2018/19 was £3,492,000. Our traditional grant-associated NSB activities were supplemented by Committee Member training, awareness-raising, higher education work and initiatives with other standards bodies that are developing a standards infrastructure. During the year, the budget was extended over various lines, from other budgetary sources at BEIS, to support a number of strategically important activities identified by BEIS. As a consequence, three versions of the Funding Letter were issued. The total allocation made available through the 2018/19 Funding Letter was £3,832,000.

Activities funded through the BEIS grant fall under three main aims:

Influencing and leadership through subscriptions reduces the barriers to standards access for Government departments and its agencies and contributes to subscriptions to key international standardization organisations such as ISO and IEC. Funding provided by BEIS enables BSI to offer significant discounts to HMG departments when they purchase published standards.

¹ European Commission (2016) *Standardisation Policy* [Online]. Available at: https://ec.europa.eu/growth/single-market/european-standards/policy_en. {Accessed on 29 May 2019}

² 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 29 May 2019}

Supporting standards development by developing standards content that promotes key HMG policies, such as competitiveness, innovation, reduction of trade barriers, protection of consumer interests, environmental protection and procurement.

Supporting participation in standardization by enabling UK experts to participate in and influence European and international standards work 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, as well as 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.

3. Summary of funding

	Latest allocation (£k)
BSI membership for HMG	365
BSOL access for UK Product Safety Enforcement Authorities	200
PAS 7100 (Product recalls) – Licensing fee for free SME access	25
Contribution to membership of ISO/IEC/CEN/CENELEC	500
TOTAL	1,090
NSB activity & public interest standards development (incl. Staff travel fund)	1,186
Standards Development Programme	552
TOTAL	1,738
Assisted International Travel Scheme	881
Support for consumer & public interest participation in standardization	83
Stakeholder mapping/annual organisational diversity analysis	8.5
Cross-Whitehall promotion of standardisation	24.5
Re-printing of PAS 7100 (Product recalls)	7
TOTAL	1,004
TOTAL FUNDING	3,832

4. Influencing and leadership

4.1. Subscriptions: BSI membership for HMG

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

During the funding year 2018/19, 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

In addition, BEIS has access to BSOL as the lead HMG department working with BSI. This access makes using standards easier and more effective.

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.

4.2. Subscriptions: Contribution to BSI membership of ISO/IEC/CEN/CENELEC

BEIS makes a contribution to our membership of the international and European standards bodies (ISO, IEC, CEN and CENELEC), which represents direct support to the standards infrastructure. Our membership of these organizations has enabled the UK to maintain a standards infrastructure that is consistent with European standards policy.

Under European Regulation 1025/2012, EU member states must give notification of any new national standards being developed. This year, 109 new British Standards were reported and uploaded to CEN/CENELEC.

BSI participates in all key policy development committees of the international and European standards organizations, including administrative boards and technical boards. BSI also provides leadership by holding the secretariats of international standards committees in key areas for the UK such as environmental management systems, quality management, risk management, governance of organizations, occupational health and safety, and vulnerable consumers. BSI

supported convenors of high-profile working groups in areas such as Building Information Modelling (BIM). In 2019, BSI took on the secretariat of a new international committee 'Sustainable Finance' ([ISO/TC 322](#)), which aims to provide novel standardization by integrating financial management and investment decisions with sustainability goals such as robust environmental, social and governance practices. More information on sustainable finance, including the Sustainable Finance Standardization Programme, is provided [below](#).

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. In 2018, Dr Steedman oversaw the development of a new risk management approach for ISO, and the establishment of principles by which ISO cooperates with other organizations.

4.3. BSOL access for UK Product Safety Enforcement Authorities

BEIS contributed £200,000 to enable subscription access to UK product safety enforcement officers so that they could access content available on British Standards Online (BSOL). Almost 1,000 officers have registered for access.

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

BEIS made available £25,000 for BSI to issue a license to provide free download access to 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 and slightly lower thresholds for consensus. 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 regulators.

Unlimited downloads of watermarked 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 for SMEs³.

4.5. 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.

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 standards.

³ BSI Group (2018) Supporting better product recalls [Online]. Available at: <https://www.bsigroup.com/en-GB/pas7100-supporting-better-product-recalls/>. {Accessed on 31 May 2019}

In January 2019, 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, Department for Digital, Culture, Media and Sport, Cabinet Office, Department for Environment, Food and Rural Affairs, Ministry of Housing, Communities and Local Government, Department for Transport, Department for Exiting the European Union and Department for International Trade.

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 Brexit, based on the objective of continued full membership of the European Standards Organizations CEN and CENELEC post-Brexit. 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 been worked within the governance of CEN and CENELEC, which led to approval from the Board and General Assemblies of both organizations of a plan which secures BSI's membership of CEN and CENELEC post-Brexit, irrespective of whether the UK leaves the EU with or without a deal, while the members work through changes needed to the statutes and agree changes to come into force as of end 2020.

Better Regulation Executive - 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. BSI also attended a meeting of Better Regulation Units from across Government and gave a briefing on the role of standards as an alternative to regulation

Standards Seminars - BSI completed a seminar programme for OPSS and Better Regulation Executive staff to explain BSI's role and how standards can be used as a tool for policy delivery. Events were held at BEIS offices in 1 Victoria Street, Teddington and Birmingham.

Standards-makers events - Standards Forum events were held in April and November 2018. The BSI Standards Forum and Awards in November had the highest number of registrants for any event so far. Graham Russell, CEO from the Office for Product Safety and Standards, delivered the keynote speech. There were 11 breakout sessions on standards related topics including energy management, modern slavery, business excellence and Building Information Modelling (BIM). Two workshops were also held for Committee Chairs and Nominating Body representatives to explore improved ways for working.

House of Lords reception - The annual BSI/UKAS House of Lords reception was held on 25 June. More than 120 guests attended from some 40 government departments and public-sector organisations. The event included a speech by Baroness Neville-Rolfe.

Tools for Policy Makers and Regulators - The "Tools for policy makers and regulators" booklet (formerly the "Ministers' Handbook") was updated. It was developed with UKAS and provides guidance to policy makers on alternatives to regulation. The booklet was supported by the Office for Product Safety and Standards and the Better Regulation Executive.

TSO Travel Fund - Communications to existing committee members who are TSO were sent in January. There has been some take up but general usage of the sub-scheme has been low.

British Standards Society (BSS) – BSI provides some support to this Society of Standards Users through the funding of their membership subscription to the IFAN (International Standards Users Group). In addition, in July BSI supported attendance of a BSS delegate to the IFAN EG [European Group] in Brussels and in September supported the attendance of a BSS delegate at IFAN and ISO meetings in Geneva:

- IFAN Board meeting
- IFAN Member's Assembly
- IFAN WG 16 – Education
- ISO General Assembly

BEIS International Conference - BSI participated extensively in the Regulatory Delivery International Conference, which took place over three days in October 2018. BSI delivered workshops on the national quality infrastructure, international trade, the role of standards in innovation and standards as an alternative to regulation. BSI also hosted a study visit to its testing facility in Hemel Hempstead, which included a programme of presentations on product recall, based on PAS 7100.

New Product Safety initiatives - BSI began work with OPSS on two PAS initiatives. Following the success of the PAS on product recall, OPSS asked BSI to develop a specification for how to place safe products on the market. BSI also proposed a PAS to improve the safety of button batteries. Stakeholder groups were identified to progress both projects.

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 was made available free of charge for SMEs.

Get involved in Standards - A "get involved" brochure was produced to assist recruitment of new committee members.

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.

Government Business Continuity Profession - BSI presented to the Business Continuity Professionals Conference at the Emergency Planning College in York. The event provided an excellent opportunity to brief 50+ business continuity professionals from government departments and agencies on BSI's resilience standards.

Industry Advisory Forum - CEN/CENELEC formed the "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. BSI secured a UK representative for the group and set up a mirror group of UK industry experts to ensure that the views of UK industry are fully represented.

International Engagement

BSI is delivering a UK Government-funded programme to increase the use of international standards throughout the Commonwealth. The Commonwealth Standards Network will develop a network of National Standards Bodies and stakeholders from the Commonwealth to increase the development and use of international standards, facilitating intra Commonwealth trade, growing economic prosperity and delivering positive developmental outcomes throughout the Commonwealth. The programme will support National Standards Bodies throughout the Commonwealth to play a stronger role in participating in international standards development. The programme incorporates the delivery of three technical assistance programmes in Zambia and Uganda, Papua New Guinea and Vanuatu, and Saint Lucia, alongside the development of an online portal, training for National Standards Bodies and workshops to increase the visibility of standards to potential standards users. The programme has delivered a range of interventions during its first year and 40 Commonwealth countries are participating in the network.

BSI has continued to expand its international engagement. In October 2018, BSI signed a new cooperation agreement with the Standards Council of Canada to support international standards development and strengthen trade relations between the UK and Canada. Working with the Japanese Industrial Standards Committee and Japanese Standards Association, BSI published PAS 202:2019 Sharing economy – Operation of an online platform – Specification. The standard specifies requirements for commercial platform operators providing a service within the sharing economy, covering safety and consumer protection, management activities, resourcing, risk management and evaluation and continual improvement of the service. The working group included organisations from the UK and Japan and the standard has been published in Japan, presenting opportunities for increased trade between the UK and Japan. BSI and the Chinese National Standards Body, the Standardization Administration of China, held the third meeting of the UK China Standardization Cooperation Commission, with progress being made in the working groups covering graphene, civil nuclear and smart cities.

Education

BSI's Education 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.

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 continues to develop plans to expand this work through, for example, collaboration with other European national standards bodies and UK business schools to produce materials and resources to engage management students on the role of standards in improving business performance.

BSI integrated its annual Young Engineering Professionals Conference into the much larger BSI Standards Forum event. A similar event will be held in 2019.

International projects

Working with donor agencies, BSI's International Projects team delivered a range of projects to support standards and quality infrastructures in countries across the globe, including key trading partners, emerging economies and developing countries. While helping to improve fundamental market infrastructure throughout the world, the projects managed by the team also enhance the UK's influence worldwide. Fast growing regions are the target of many of these projects, making their markets more accessible to trade with the UK.

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 in international standardization, we offer a one-to-one advisory service for those needing guidance and support, and we have co-hosted events with other standards organizations.

5. 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.

5.1. 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 international secretariats).

Non-commercially viable UK committees are defined as committees in which the total value of the resources used exceeds the average annual income generated by sales of standards assigned to that committee. 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 179 UK standards technical committees in 2018/19. The Committees facilitated the publication of 1,772 new and updated standards. Their programmes overwhelmingly comprise European and international work, with a small proportion of national work. BSI acts as the gateway for UK parties to take part in international standardization, through the Committee Service Centre (CSC). 941 standards were published due to access, facilitated by the CSC, to international standardization.

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

5.2. 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 meetings and provide guidance and support that enables UK technical experts and delegates to maximize their influence during overseas meetings, which ultimately benefits the UK. This funding continues to provide valuable support to UK committee members.

Case study: Sustainable Finance

As awareness around climate risk has grown for investors, so too has the sustainable finance market. Sustainable finance, as defined by experts, is any form of financial service which integrates environmental, social or governance (ESG) criteria into business or investment decisions. The green finance market for issuers has been growing strongly since the introduction of green bonds - bonds specifically to be used for climate and environmental projects. Since 2007, when the first green bond was issued by the European Investment Bank and the World Bank, the market has grown to more than \$160bn in issuances in 2018.

Standards have a very important role in the development of sustainable finance, in terms of mitigating climate change and promoting climate adaptation through various financial instruments. In 2017, a proposal for a new standard on green bonds was put forward to and accepted by ISO in 2017. This was the first ever standard to be proposed within the area of Sustainable Finance. The first meeting was held in Paris in 2017 and the second in New York in 2018. By which time, one standard developed into three: Process, Taxonomy and Validation.

The Staff Travel Fund was used to send a BSI staff member, Lesley Wilson, to support UK standards experts to take an important role in developing these standards. The UK is considered a leader in the finance industry and as a financial hub. Thus, it is vital that the UK plays a leading role in work in standardization in sustainable finance, including green bonds. BSI's presence across ISO groups of work in the same area (green bonds, sustainable finance and others) allows the UK to harmonize an approach that supports the UK finance industry and allows BSI committee experts to be confident and up-to-speed at their meetings.

ISO standards are relatively new to the finance world and therefore industry experts in this field are often new to both BSI committees and the BSI/ISO standards-making process. In this case, some UK industry experts from BNP Paribas and Green Investment Group, though very knowledgeable in the process of the production of green bonds, were unfamiliar with the technical procedures of ISO meetings, from understanding the formal language used and writing process to the timelines and voting protocols. Lesley Wilson was able to guide the UK experts through their meetings to ensure that the UK interests was put forward effectively and that our experts were able to influence the outcome as effectively as possible.

In June and July 2018, as part of its Green and Sustainable Finance Standardization Programme supported by the Department for Business, Energy & Industrial Strategy (BEIS), BSI undertook standards scoping activities in three priority areas identified by industry. New work necessary to sustainable investment management, sustainable finance framework and product/fund-level activities was identified. Work has since begun on British standards in this area. And a new UK-led international committee, ISO/TC 322 Sustainable Finance, was created. The Staff Travel

Funds will continue to support BSI staff members traveling and supporting a new set of experts in this field in future.

Case study: Innovation Management

Standards save businesses valuable time by providing guidance on best practice, which reduces the amount of research required. Innovation is no longer simply about transferring technologies between sectors, but a managerial process of embedding new technologies within the broader social, organizational and economic context in which a firm operates.

Research conducted by the National Endowment for Science, Technology and the Arts (NESTA) found that standards “can be relevant from the very beginning of new technologies, i.e. even in basic research, over a market formation phase until the broad diffusion of innovations via standards.”⁴

The purpose of ISO Technical Committee ISO/TC 279 is to develop, maintain and promote standards in the fields of innovation management. The new ISO Innovation Management System (IMS) series of standards has been developed through consensus, with more than 40 countries contributing to provide a system, with standardised terminology, tools, methods and guidance to manage interactions between partners, intellectual property, strategic intelligence, and more recently Idea management.

The BSI national committee on Innovation Management IMS/1, whose members are at the forefront of their field, requested that Delme Stephenson attends and supports a series of working group meetings in Tokyo, Japan during October 2018. The national committee saw these series of meetings as pivotal, with the first set of International Innovation Management standards to be published in 2019.

The Staff Travel Fund (STF) allowed Delme to support the UK delegation in ultimately enabling technical experts to maximize their influence during meetings for the benefit of UK industry.

During the meeting he supported a new UK expert in ensuring that UK comments were understood and incorporated into ISO 56002, “Innovation management system – Guidance”, supported the newly created UK-led working group on ISO 56007 “Idea management” and ensured that deadlines were met on the publication of ISO 56004 “Innovation management Assessment”. Finally, the experience enabled Delme to better understand the hard work that is required of UK industry experts in standards development and the opportunities for UK business.

⁴ NESTA (2013) The Impact of standardization and standards on innovation [Online]. Available at: https://media.nesta.org.uk/documents/the_impact_of_standardization_and_standards_on_innovation.pdf. {Accessed on 31 May 2019}

5.3. 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 specified 2018/19 funding for green finance and the Energy Smart Appliances (ESA) programme, funding was available for two priority area projects. These projects underwent an investment case process including explicit support by a representative of a relevant government department.

An additional £37,500 was made available by BEIS through the 2018/19 Core Funding Grant to fund a Sustainable Green Finance scoping workshop. The key success of the workshop was that the draft scopes developed are the basis of the five-year Sustainable Finance Standardization programme which was launched in October 2018. Through this programme, the first two PAS documents are currently in development with the development of a third PAS due to start later in 2019.

BEIS made available £75,000 for the first phase of the ESA programme as part of the 2018/19 Funding Letter. Provision of funding support for the second phase of the programme is planned through the 2019/20 Funding Letter.

2018/19 Standards Development Programme projects	
BSI/C18F000001	The uptake of light-weight materials by industry
BSI/C18F000002	Overview of regulatory and guidance projects within the UK facilitating the adoption of drone technology
-	Energy Smart Appliances programme
-	Sustainable Finance Standardization programme

Project at a glance: Overview of regulatory and guidance projects within the UK facilitating the adoption of drone technology

Drones are an important enabling technology for the Industrial Strategy and are already of substantial benefit to business and the public, as referenced in the Parliamentary Under Secretary of State for Transport, Baroness Sugg's ministerial statement of November 2017. Unmanned aerial systems (UAS) are a key technology enabler for the Construction Sector Deal, as the construction industry has led the way in adopting drones. There is much disparate work underway in support of regulation, standardization and guidance for the use of drones in commercial and industrial applications without much co-ordination or mutual awareness of progress. Some of the work is supported by government departments, some in the formal standards environment, and some within private companies.

This project proposed to scope the full extent of work within the UK, as well as significant areas of regulation and standardization outside the UK. This will result in a report which will identify areas of duplication of work which might lead to confusion in the market, or gaps in standardization which form a barrier to adoption of the technology. It will make recommendations for a standards programme and actions which BSI and government can take to speed up the adoption of UAS technology.

This project plans to facilitate the effective adoption of new technology in numerous industrial applications; identify where BSI can facilitate a better regulation and standards environment by avoiding duplication of effort; and identify crucial gaps requiring standards which might create barriers to adoption.

Project at a glance: Sustainable Finance Standardization Programme

There is a drive from the finance industry to align itself with Sustainable Development Goals. The finance sector has a role to play in mobilising finance to meet global sustainability challenges. The Sustainable Finance Standardization Programme, funded by BEIS, enables BSI (the National Standards Body for the UK) to establish UK leadership in green finance thus accelerating responsible investment practices through the delivery of an international Sustainable Finance Standardization Programme, led by fast-track standardization. This is in support of recently announced HMG measures to build on the UK's global leadership in green finance as part of the move to a low carbon economy. The standards development programmes comprises of UK-led PAS projects and an ISO standards programme on sustainable finance. The latter activity involved the creation of a new ISO committee (TC 322) led by BSI & the UK, with the goal of developing new international standards in this area.

Project at a glance: Energy Smart Appliances Programme

An “energy smart appliance” (ESA) is a device that is able to 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.

Project at a glance: The uptake of light-weight materials by industry

Composites have great potential as light-weighting materials for the automotive, aerospace, rail and marine industry. Identifying which standards are required by industry to help enable uptake of composites as alternatives to heavier, traditional materials will deliver significant economic benefits to UK industry. Fuel consumption should decrease with the use of lighter materials and carbon emissions should decrease. Barriers to growth of the market could be minimized by creating standards which lay out good practice throughout the supply chain.

The project will identify barriers to use of light-weight materials and any standards that can overcome such barriers. Deliverables include in-depth interviews with specifiers and designers, and a report on where standards may be required to help enable uptake of light-weighting materials by the transport industry. Furthermore, the analysis will highlight areas where development of new standards/amendments of existing standards and help develop recommendations for priority areas for standardization and development of a plan for a large-scale standards programme which will support the ISCF grand challenge on the Future of Mobility.

5.4. Support for standards development: spend summary

Support for standards development: spend summary 2018/19			
Committee focus area⁵	Number of eligible committees	Days worked Apr 2018-Mar 2019	Funding requirement⁶
Government or public interest Regulation, consumer protection, safety	87	1,810	£1,194,566
Priority Areas Innovation, Procurement, Better Regulation, Sustainability, Infrastructure	75	2,106	£1,390,222
NSB international work programme Committee Service Centre (CSC)	372	2,952	£1,948,320
Specific/urgent industry standardization Productivity, UK competitiveness	17	278	£183,594
Priority Project programme⁷	-	-	£153,875
Sustainable Finance Standardization	-	-	£37,500
Energy Smart Appliances	-	-	£75,000
Total	551	7,146	£4,870,557

⁵ The total cost and days worked are assigned to one category only, although some committees are eligible in more than one.

⁶ The full cost of the support in the areas shown exceeds funding provided, with BSI covering the shortfall. Funding available: £1,738,000

⁷ Funding applied for Priority Areas projects relates to activity delivered in the year.

6. Support for participation in standardization

6.1. 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.

In 2018/19, AITS funding of £881k was awarded. The scheme supported 2,107 UK committee members attending international meetings in various roles throughout the funding 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.

Case study: Product Specification and Verification



Phil Childs is the ex-Chief Draughtsman of British Aerospace Dynamics Division. Although retired, he represents The Institute of Engineering Designers in support of BSI in the discipline of Product Specification and Verification.

Phil is the Chairman of BSI Committee TPR/1 (“Technical Product Realization”). TPR/1 is the committee responsible for the UK’s input to ISO/TC 213 (“Dimensional and geometric product specifications and verification”), in which Phil is the Delegation Leader. The last series of meetings were held in Geneva, Switzerland in February 2019, in which Phil used the Assisted International Travel Scheme (AITS) to attend the plenary and working group 2 (WG2) discussions.

Phil believes it is vitally important that the UK Industry participates in ISO/TC 213 standards as product specification (drawings either manually or produced by computer) are the knowledge transfer media from the designer to the production and verification facilities. Phil highlights the importance of standards when the designer is in one country and the manufacturing facility is in another – stressing that it is crucial both parties share the same understanding of the standards. In Phil’s view, this participation is uniquely important in the field of Product Specification as the UK has undertaken to withdraw any British Standard which duplicates any International Standard; and it is therefore imperative that UK industry and institutions attend ISO/TC 213 and influence International Standards in this field.

Phil comments that his over 30 years' experience as a designer and his involvement in ISO/TC 213 WG2 has ensured that the best UK industry custom and practice is embedded in current ISO geometric product specification standards to enable UK industry uptake of new standards without creating barriers or major disruptions to their current work practices. Phil says that "AITS gives incentive to SMEs to release staff [time] in order that they may contribute to the standards arena with [recognition of] the long-term benefits of standards". Phil highlights that without the scheme, many SMEs would find it too challenging to attend international meetings, meaning that the UK's influence in terms of best practice would be weakened.

Through continued support for participation through AITS, Phil plans to attend the series of ISO/TC 213 meetings planned in Berlin in September 2019, to continue the UK's influence in this important field.

6.2. 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.

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 / background research projects, to develop a robust evidence base.

CPIN priorities

Through discussion and working practice, current CPIN priorities are defined to be: digital, consumer safety, consumer vulnerability, services and sustainability.

CPIN technical work

Throughout the year consumer representatives have been involved in 100 UK and international standards technical committee meetings and working groups. Areas that have benefited from consumer involvement include:

- Digital - ethics in artificial intelligence, Internet of Things, Privacy by Design, smart textiles
- Consumer safety - product safety and behavioural risk: audio visual safety, doors and windows, drones, electrical safety, fire extinguishers, ladders, lasers, mechanical safety, nanotechnology, respiratory equipment, robots, societal security, textiles
- Consumer vulnerability: ageing societies, baby boxes, child items, toy safety
- Services: online gambling, online user identification systems, sharing economy
- Sustainability: environmental management, sanitary appliances.

Case study: Vulnerability Workshop – January 2019

The Consumer and Public Interest Network brought together representatives from organizations including MacMillan, Scope, Stepchange, The Gambling Commission and Which? to discuss consumer vulnerability at a workshop held in January 2019.

A key output of the workshop was the development of a focused consumer strategy, to be put to an ISO International Project Committee (ISO/PC 311) on vulnerable consumers. The Committee is drafting a new ISO standard, 'Inclusive service – Identifying and responding to consumers in vulnerable situations'. The Committee plan to meet to discuss the first draft and further develop the standard with input from different stakeholders.

The International Standard is based on BS 18477, the British Standard entitled "Inclusive service provision: requirements for identifying and responding to consumer vulnerability", recognizing (particularly with view of the Equality Act, 2010) that all consumers are different, and some are in a position of vulnerability and risk. The standard specifies the critical procedures to ensure that services are inclusive, available and accessible to all consumers equally.

Events attended and organized

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

- In May 2018 a BSI staff member and two CPIN members attended the ISO and ISO Consumer Policy Committee (COPOLCO) Joint Workshop on Services, ISO COPOLCO Working Group and plenary meetings.
- BSI staff members attended the Chartered Trading Standards Institute Symposium in June 2018. This included a BSI stand and a session on British Standards Online (BSOL).
- BSI exhibited at the Electrical Safety First Product Safety Conference in November 2018 presenting the work of CPIN and recruiting new consumer representatives.
- The CPI team organized the annual summer all members' meetings over two days, which was attended by 36 members. The first day's theme was 'Vulnerable consumers – ensuring good outcomes for all in a changing world' and the second day was a continuing professional development session on essential tools for the role of a consumer representative in standards.
- The CPI team organized the CPIN members' winter meeting, which involved an update on CPIN developments as well as a presentation from London Fire Brigade and a session with a BSI Programme Manager.

- A consumer vulnerability workshop was organized by CPIN and hosted at Which? offices. This was well attended by representatives from a variety of consumer groups including charities and advisory groups (see case study, above).

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 BSI Programme Managers

The CPI team and experienced consumer trainers organized four training sessions for BSI Programme Managers and other relevant BSI staff, in order to ensure good information about why consumer representatives are an important stakeholder on committees and how to request CPIN representation on relevant committees.

Changes to BSI CPIN

The review of CPIN and how it delivers improvements to British Standards through consumer representation continued and changes were implemented. New processes for consumer prioritization and strategy are in place ensuring better consumer representation on standards committees. The Consumer and Public Interest Strategic Advisory Committee, which reports to BSI's Standards Policy and Strategy Committee, grew in membership and continued to meet throughout the year.

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. Figures 1 demonstrates how the standards published are split between government priority areas and Figure 2 reveals that nearly 50% of projects published are new documents.

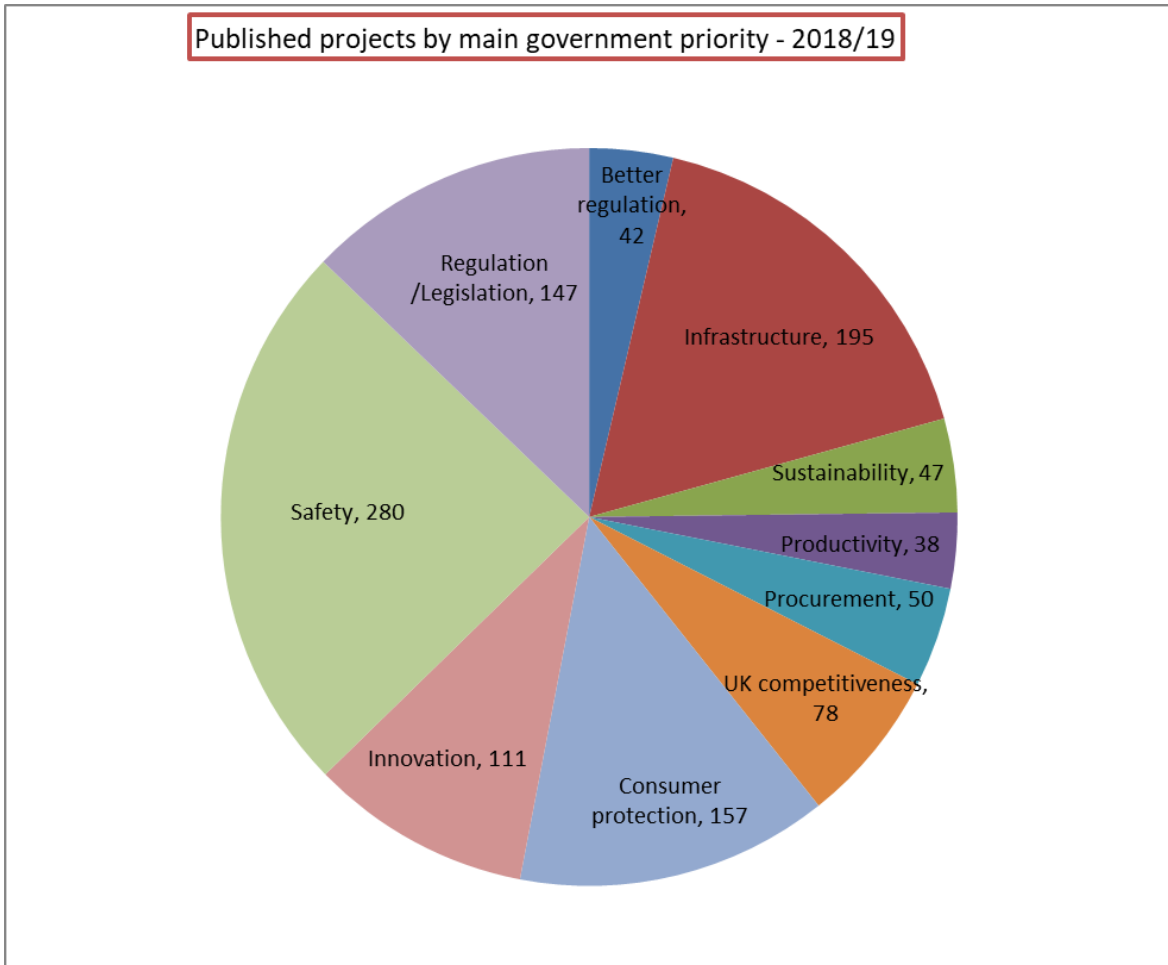


Figure 1: Projects published against the main government priority areas.
Nb. Better regulation: helping the government agenda towards better regulation; Regulation/Legislation: supporting UK regulation and legislation

Published projects by project type

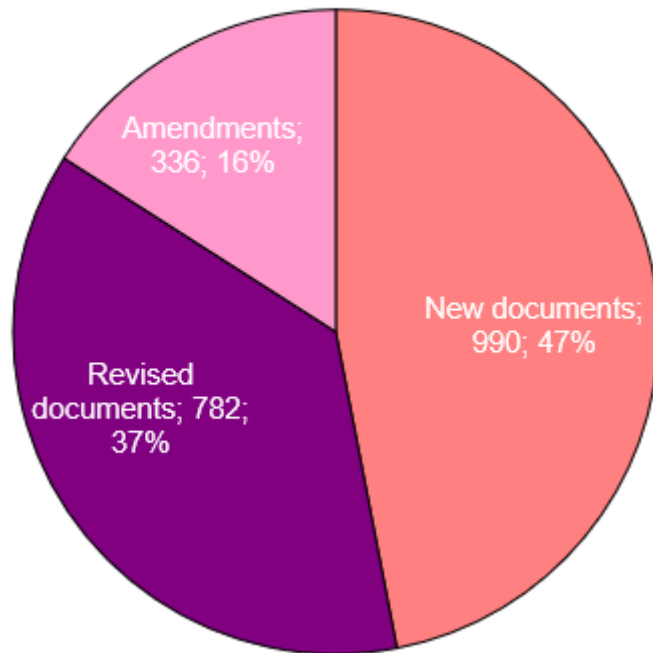


Figure 2: Types of projects published, either new, amended or revised.

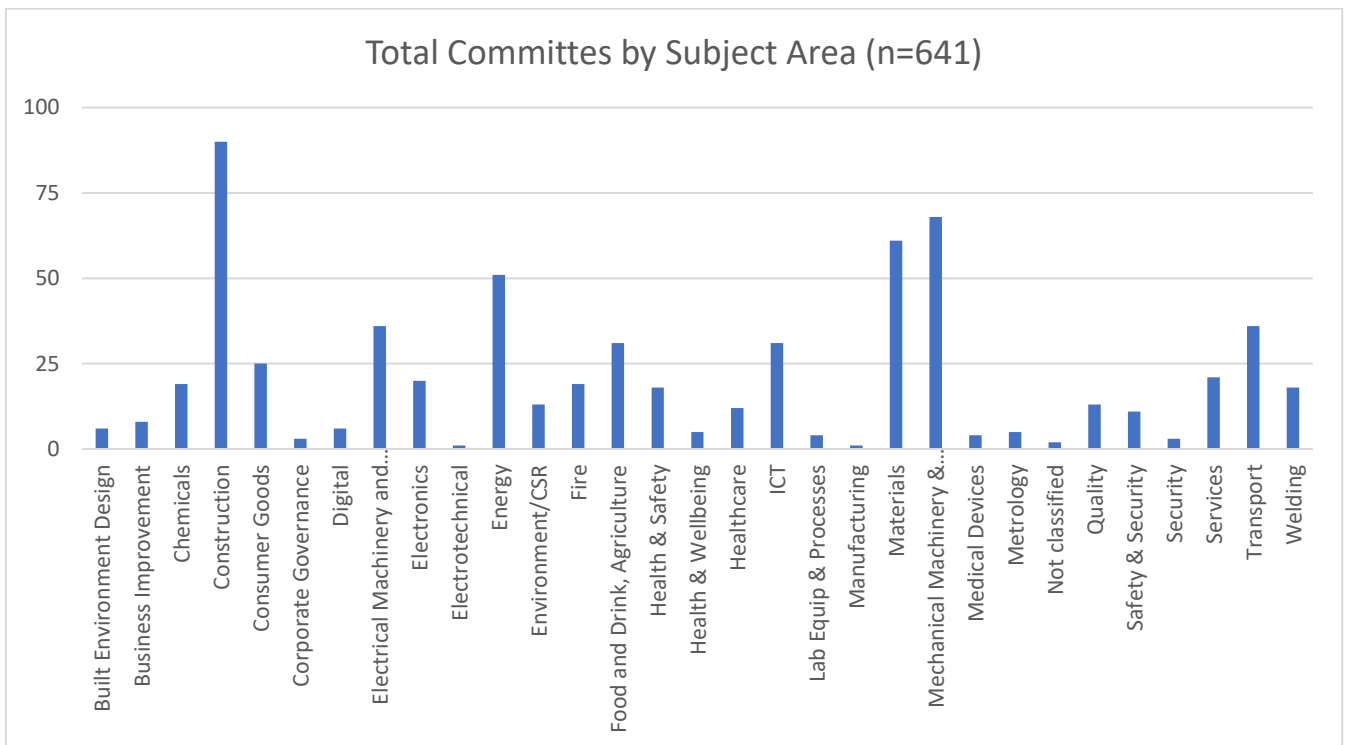


Figure 3: Number of committees broken down into subject area categories.

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 2018/19. 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. There are 179 committees in total.

Reference	Technical Committee title	Subject area	BEIS funding category
ACE/1	International and European Aerospace Policy and Processes	Transport	Infrastructure
ACE/68	Space systems and operations	Transport	Infrastructure
AMS/1	Management of Assets in Power Systems	Energy	Sustainability
AMT/-/4	Biomimetics	ICT	Innovation
AMT/10	Robotics	ICT	Innovation
AMT/4	Industrial data and manufacturing interfaces	ICT	Procurement
AMT/8	Additive manufacturing	Manufacturing	Innovation
AMT/9	Printed Electronics	Electronics	Innovation
AT/452	Assistance animals and animal training competencies	Safety & Security	Consumer protection
AUE/-/1	International work on road vehicles	Transport	Safety
AUE/16	Electrical and electronic equipment	Transport	Regulation /Legislation
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/4	Tyres and wheels for motor vehicles	Transport	Regulation /Legislation
AUE/7	Automobile occupant restraint systems	Transport	Safety
AW/415	Traceability and sustainability of cocoa	Food and Drink, Agriculture	Sustainability
B/209	General building codes	Construction	Better regulation
B/509	Road equipment	Construction	Safety
B/510	Road materials	Construction	UK competitiveness
B/512	Ladders	Construction	Consumer protection
B/513	Construction equipment and plant and site safety	Construction	Safety
B/514	Access and support equipment	Construction	Safety
B/520	Glass and glazing in building	Construction	Safety
B/524	Precast concrete products	Construction	Infrastructure
B/525	Building and civil engineering structures	Construction	Regulation /Legislation
B/540	Energy performance of materials components and buildings	Construction	Better regulation
B/555	Construction design, modelling and data exchange	Construction	Innovation

Reference	Technical Committee title	Subject area	BEIS funding category
B/557	Construction products - Assessment of dangerous substances	Construction	Regulation /Legislation
B/558	Sustainability of construction works	Construction	Sustainability
B/559	Access to buildings for disabled people	Construction	Regulation /Legislation
BDY/1	Biodiversity management	Environment/CSR	Infrastructure
CB/-	Construction & Built Environment Sector Policy and Strategy Committee	Construction	Innovation
CB/1	Architectural Design & Construction	Construction	Infrastructure
CB/2	Structures advisory committee	Construction	Innovation
CB/3	Construction Products	Construction	Regulation /Legislation
CB/30	Construction Products Advisory Committee	Construction	Regulation /Legislation
CB/5	Digitalization of the Built Environment Strategy committee	Construction	Innovation
CB/501	Flood risk & watercourses	Built Environment Design	Infrastructure
CH/100	Healthcare and medical equipment (European and International)	Health & Wellbeing	Safety
CH/121	Anaesthetic and respiratory equipment	Medical Devices	Safety
CH/150	Implants for surgery	Medical Devices	Safety
CH/157	Mechanical contraceptives	Healthcare	Consumer Protection
CH/172	Ophthalmic optics	Healthcare	Safety
CH/173	Assistive products for persons with disability	Medical Devices	Consumer Protection
CH/239	Rescue systems	Healthcare	Regulation /Legislation
CH/403	Aesthetic Surgery and Aesthetic Non-Surgical Medical Services	Health & Wellbeing	Safety
CH/437	Electronic Cigarettes & E-liquids	Health & Wellbeing	Consumer protection
CH/440	Adult social care	Health & Wellbeing	Safety
CII/47	Pyrotechnic articles	Chemicals	Consumer protection
CII/59	Chemicals for drinking water treatment	Chemicals	Consumer protection
CII/62	Treatment of water for boilers	Chemicals	Safety
CPI/113	Hydrometry	Metrology	UK competitiveness
CPI/30	Measurement of fluid flow in closed conduits	Metrology	Infrastructure
CPL/116	Safety of motor-operated electric tools	Consumer Goods	Safety
CPL/34	Auxiliaries for lamps	Electrical Machinery and Components	Consumer protection
CPL/35	Primary cells	Energy	Sustainability
CPL/59	Performance of household electrical appliances	Consumer Goods	Regulation /Legislation

Reference	Technical Committee title	Subject area	BEIS funding category
CPL/61	Safety of household and similar electrical appliances	Consumer Goods	Consumer protection
CPL/72	Electrical control devices for household equipment and appliances	Consumer Goods	Consumer protection
CPW/172	Optics and Photonics	Consumer Goods	UK competitiveness
CW/1	Safety of child use and child care products	Safety & Security	Safety
DEF/1	Defence standardization	Safety & Security	Procurement
DES/1	Design for All	Services	Consumer protection
DLT/1	Blockchain and Distributed Ledger Technology	ICT	Innovation
DS/1	Dependability	Quality	Safety
EH/2	Air quality	Environment/CSR	Regulation /Legislation
EH/3	Water quality	Environment/CSR	Better regulation
EH/4	Soil quality	Environment/CSR	Regulation /Legislation
EH/5	Sludge characterization	Environment/CSR	Regulation /Legislation
EPL/100	Audio, video and multimedia systems and equipment	Electronics	Innovation
EPL/278	Road transport informatics	Electronics	Infrastructure
EPL/80	Maritime navigation and radiocommunication equipment and systems	Electrical Machinery and Components	Safety
ESL/120	Electrical Energy Storage	Energy	Infrastructure
FMB/1	Facilities management strategy group	Construction	Procurement
FMW/1	Facilities management	Construction	Procurement
FSH/0	Fire Co-ordination	Fire	Safety
FSH/16	Hazards to life from fire	Fire	Safety
FSH/17	Fire brigade equipment	Fire	Procurement
FSH/18	Fixed fire fighting systems	Fire	Safety
FSH/21	Reaction to fire tests	Fire	Safety
FSH/22	Fire resistance tests	Fire	Safety
FSH/24	Fire safety engineering	Fire	Safety
FSH/25	Smoke, heat control systems and components	Fire	Safety
FSM/1	Forensic Science	Safety & Security	Regulation /Legislation
FSS/0	Fire safety and security systems	Fire	Consumer protection
G/1	Governance	Business Improvement	Better regulation
GEL/105	Fuel cell technologies	Energy	Innovation
GEL/111	Electrotechnical environment committee	Environment/CSR	Sustainability
GEL/50	Low Voltage Direct Current for Electricity Access	Energy	Sustainability
GEL/8	Systems Aspects for Electrical Energy Supply	Energy	Infrastructure
GEL/82	Photovoltaic Energy Systems	Energy	Innovation

Reference	Technical Committee title	Subject area	BEIS funding category
GME/21	Mechanical vibration, shock and condition monitoring	Mechanical Machinery & Components	Safety
GME/33	Small craft	Transport	Safety
GSE/25	Gas Meters	Energy	Infrastructure
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
GW/1	Electronic security systems and products	Safety & Security	Procurement
GW/2	Secure storage of cash, valuables and data media	Safety & Security	Consumer protection
GW/8	Security Managements Systems in Complex Environments	Security	Procurement
HCS/1	Human Capital	Corporate Governance	Innovation
ICT/-/1	Information systems co-ordination	ICT	Infrastructure
IMS/1	Innovation management	Services	Innovation
IOT/1	Internet of Things	ICT	Infrastructure
ISE/100	Steel, General Issues	Materials	Procurement
IST/37	Coding of picture, audio, multimedia and hypermedia information	Digital	UK competitiveness
IST/38	Distributed application platforms and services (DAPS)	Digital	Infrastructure
IST/43	Information technology for learning, education and training	ICT	Productivity
IST/44	Biometrics	Digital	Innovation
IST/46	Sustainability for, and by IT	ICT	Better regulation
IST/47	Electronic Supply Chain	ICT	Regulation /Legislation
IST/6	Data communications	Digital	Productivity
KMS/1	Knowledge management systems	Business Improvement	Productivity
L/13	Smart Grid policy	Energy	Infrastructure
LBI/50	Fine Bubble Technology (FBT)	Metrology	Innovation
MCE/6	Pumps and pump testing	Mechanical Machinery & Components	Regulation /Legislation
MI/2	Bio-based products	Materials	Innovation
MS/2	Project, programme and portfolio management	Quality	Productivity
MS/6	Methodologies for business process improvement using statistical methods	Business Improvement	Productivity

Reference	Technical Committee title	Subject area	BEIS funding category
MTE/1	Machine tools	Mechanical Machinery & Components	Safety
NCE/2	Radiation protection and measurement	Energy	Infrastructure
NCE/8	Instrumentation, Control & Electrical Systems of Nuclear Facilities	Energy	Infrastructure
NTI/1	Nanotechnologies	Materials	Innovation
PAI/43	Graphic technology	Consumer Goods	Productivity
PEL/114	Marine energy - Wave, tidal and other water current converters	Energy	Infrastructure
PEL/13	Electricity Meters	Energy	Infrastructure
PEL/14	Power transformers	Electrical Machinery and Components	Infrastructure
PEL/32	Fuses	Electrical Machinery and Components	Regulation /Legislation
PEL/57	Power systems management and associated information exchange	Energy	Infrastructure
PEL/69	Electric vehicles	Transport	Sustainability
PEL/88	Wind turbines	Energy	Sustainability
PH/14	Firefighters' personal protective equipment	Fire	Safety
PH/2	Eye protection	Safety & Security	Safety
PH/4	Respiratory protection	Fire	Safety
PH/6	Head protection	Health & Safety	Safety
PH/8	Graphical symbols	Health & Safety	Consumer protection
PH/9	Applied ergonomics	Health & Safety	Innovation
PKW/0	Packaging	Consumer Goods	Regulation /Legislation
PRI/-/1	GB Co-ordination for International work on plastics standards	Materials	UK competitiveness
PRI/-/2	GB Co-ordination for International work on rubber standards	Materials	UK competitiveness
PRI/10	Terminology for rubbers and plastics	Materials	Procurement
PRI/26	Burning behaviour of plastics and rubbers	Materials	Safety
PRI/66	Rubber and plastics tubing, hoses and hose assemblies	Mechanical Machinery & Components	UK competitiveness
PRI/89	Plastics recycling	Materials	Sustainability
PRI/90	Rubber and rubber products - Environmental aspects	Materials	Sustainability
PSE/17	Materials and equipment for petroleum, petrochemical and natural gas industries	Energy	Productivity
PSE/265	Carbon Capture Transportation and Storage	Energy	Sustainability
PTI/12	Petroleum Measurement and Sampling	Energy	Regulation /Legislation

Reference	Technical Committee title	Subject area	BEIS funding category
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
PVE/3	Gas containers	Mechanical Machinery & Components	Regulation /Legislation
RHE/2	Ventilation for buildings, heating and hot water services	Construction	Better regulation
RHE/25	Solar Heating	Environment/CSR	Sustainability
RM/1	Risk management	Business Improvement	Better regulation
RTS/1	ISO 39001 Road Traffic Safety Management systems	Safety & Security	Safety
SDS/1	Sustainable development Co-ordination Committee	Environment/CSR	Sustainability
SDS/2	Smart and sustainable cities and communities	Environment/CSR	Innovation
SEM/1	Energy Management	Energy	Sustainability
SME/32	Ships and marine technology - Steering committee	Health & Safety	Regulation /Legislation
SSM/1	Societal security management	Security	Consumer Protection
STI/10	Test methods for paints	Chemicals	UK competitiveness
STI/28	Paint systems for non-metallic substrates	Chemicals	Consumer Protection
STI/36	Vitreous enamel coatings	Chemicals	UK competitiveness
STI/40	Thermal spraying and thermally sprayed coatings	Chemicals	Procurement
STI/53	Specifications and test methods for jewellery and horology	Consumer Goods	Consumer Protection
SVS/0	Customer service - Fundamental principles	Services	Consumer protection
SVS/19	Tanning salon services	Services	Consumer protection
SVS/2	Tourism services	Services	Consumer protection
SW/136	Sports, playground and other recreational equipment	Safety & Security	Consumer protection
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
TDW/4	Technical Product Realization	Mechanical Machinery & Components	UK competitiveness
WEE/3	Welding of thermoplastic moulded components	Materials	Innovation
WEE/40	Health and safety in welding	Welding	Safety

ANNEX 2: Projects delivered by BSI with funding from other public-sector bodies beyond the funding letter

Government department	Project	Status in 2018/19
BEIS	PAS 7100:2018 product corrective action	Completed in 2018
CPNI	CPNI Standards Watch 2017-18	Completed in 2018
CPNI	PAS 1885:2018 automotive cybersecurity	Completed in 2018
CPNI	PAS 11281:2018 road transport security	Completed in 2018
SURVIVE	PAS 43:2018 vehicle breakdown	Completed in 2018
Innovate UK	PAS 1085:2018 security-minded manufacturing	Completed in 2018
Innovate UK	PSS pharma standards roadmap 2018	Completed in 2018
CPNI	PAS 300 revision	Completed in 2018
Innovate UK	PAS 1201:2018 graphene information	Completed in 2018
Innovate UK	PAS 280:2018 through-life engineering	Completed in 2018
BEIS	PAS 2030:2018 EEM installation	Started in 2018
BEIS	PAS 2035:2018 dwelling energy retrofit	Started in 2018
BEIS	BEIS stakeholder mapping	Started in 2018
BEIS	BEIS OLEV, smart appliances	Started in 2018
CPNI	PAS 1192-7 adjustment for final cancellation	Completed in 2018
FSA	Report describing BSI standards development processes and systems	Started in 2018
Greater London Authority	Private Standard	Started in 2018
BEIS	PAS 7100 finished copies	Started in 2018

CPNI	CPNI Standards Watch 2018-19	Started in 2018
CPNI	CPNI Licence agreement	Started in 2018
BEIS	EHC - PAS 2031 and extensions, BEIS	Started in 2018
BEIS	Licence for PAS 7100 (BEIS)	Started in 2018
CPNI	PAS 127 revision (CPNI)	Started in 2019
CPNI	PAS 97 revision (CPNI)	Started in 2019
Innovate UK	Innovate Additive Manufacturing PASs	Started in 2018
BEIS	Hy4Heat Guidance PAS	Started in 2019
Innovate UK	Innovate Made Smarter projects	Started in 2019
Innovate UK	Responsible innovation PAS - Interviews	Started in 2019
CPNI	IWA14 Contract extension	Started in 2019
BEIS	PAS 7100 marketing and awareness campaign	Started in 2019
BEIS	Green and Sustainable Finance	Live during the year
BEIS (Construction Directorate)	Fund to support the maintenance of BIM Level 2 standards, delivery of additional domestic and international guidance (PAS 1192)	Live during year
Dfid	Commonwealth Standards Network	Live during year
Dfid	SmartCities – India	Completed 2018
Horizon 2020	European Metrology Programme for Innovation and Research (EMPIR)	Live during year
Innovate UK / CCAV	Connected Autonomous Vehicles	Started in 2018
Innovate UK	Future of Mobility (DfT)	Completed 2019
Innovate UK	CCAV standardization programme	Started in 2019

CPNI	PAS 1885 download licence	Started in 2019
Innovate UK	PAS: Responsible Innovation	Started in 2019
DfT	Mobility As A Service - Research	Started in 2019
Innovate UK	PAS guide for development of business case for AM investment for SMEs	Started in 2019