Introduction to Standards Development

David Fatscher, Head of Market Development

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BSI Standards – the UK’s National Standards Body

Total staff: 300
Subscribing members: 14,200
Committee members: 9,458
Technical and Subcommittees: 1,234
Current projects: c.7,000
Current British Standards: 34,634
Standards published per annum: c.2,200
Total ISO/European secretariats held: 190
BSI pioneered the development of the world's leading standards

For over a century BSI has worked with industry to build consensus and develop standards of excellence

<table>
<thead>
<tr>
<th>Year</th>
<th>British Standard</th>
<th>ISO Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>BS 5750</td>
<td>ISO 9001 (Quality Management)</td>
</tr>
<tr>
<td>1992</td>
<td>BS 7750</td>
<td>ISO 14001 (Environmental Management)</td>
</tr>
<tr>
<td>1995</td>
<td>BS 7799</td>
<td>ISO/IEC 27001 (Information Security)</td>
</tr>
<tr>
<td>1996</td>
<td>BS 8800</td>
<td>OHSAS 18001 / AS/NZS 4801 (Occupational Health &amp; Safety)</td>
</tr>
<tr>
<td>2000</td>
<td>BS 8600</td>
<td>ISO 10002 (Customer Satisfaction)</td>
</tr>
<tr>
<td>2002</td>
<td>BS 15000</td>
<td>ISO/IEC 20000 (IT Service Management)</td>
</tr>
<tr>
<td>2002</td>
<td>TS 16949</td>
<td>ISO/Ts 16949 (Automotive)</td>
</tr>
<tr>
<td>2009</td>
<td>BS 16001</td>
<td>ISO 50001 (Energy Management)</td>
</tr>
<tr>
<td>2009</td>
<td>BS 5750 (based)</td>
<td>AS 9100 (Aerospace)</td>
</tr>
<tr>
<td>2012</td>
<td>BS 25999</td>
<td>ISO 22301 (Business Continuity)</td>
</tr>
<tr>
<td>2012</td>
<td>BS 8901</td>
<td>ISO 20121 (Sustainable Events)</td>
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</tbody>
</table>
BSI helps organizations embed excellence and reap the benefits

We share our standards in the format you need, from paper to interactive digital content.

Together with independent experts we shape the standards of excellence across products, processes and business potential.

Our assessors understand your business and give you proven ways of measuring excellence, so you can promote it confidently.

Our trainers transfer the knowledge your people need to embed our standards into your organization.

We support you with the knowledge and tools you need to recognize excellence and continually improve...

The journey starts with the creation of a robust industry driven standard.
Sharing knowledge to drive growth

BSI offers a range of products and services to make standards easy to use:

- Traditional paper or soft pdf formats available online
- State-of-the-art publishing platform to enable dynamic sharing of standards within your organization
- British Standards Online, available 24/7 updated daily providing access to every standard
- Flexible licensing options to share individual standards across your entire organization
- BSI membership provides access to our dedicated knowledge services and update system
Hierarchical of Standards

- **International Standards** (ISO IEC)
- **European Standards** (EN)
- **British Standards** (BS)
- **PAS**
- **Private and Consortia Standards**
- **Corporate Technical Specifications**
- **Professional Codes, Guidance, Best Practice**

National Standards in other countries or Trading blocks:
- e.g., Russia, China, USA

SDOs:
- IEEE
- ASTM
- ASME
Market Engagement to Solution Delivery

Market Engagement
Assess Needs & Scope Opportunity
Deliver Solution
Standards Strategy & Roadmap
Standards Development
Assessment, Training
Assess Impact
Re Engage
BSI Standards – the process today

Engagement

New work proposal

Committee drafting

Public comment

Final standard
The business case for a standard

The business case for a new standard covers:

• Why the standard is required
• Draft of the scope
• Who the users will be
• Relationship to other standards and certification
• Key stakeholders
• National Standards Body criteria
• Commercial information
BSI committee members

BSI committees are expected to cover all relevant interest groups:

- Businesses – manufacturers, service providers
- Consumers
- Government
- Universities
- Test houses and certification bodies

Representation on committees is usually through representative bodies such as trade associations and professional bodies
Standards Committee Activities

• Mirror the work of ISO/IEC and/or CEN/CLC committees
• Approve work items
• Nominate experts
• Make technical comments on drafts
• Agree UK votes
• Appoint UK delegates to meetings
• Provide technical briefs to UK permanent delegate (TMB, SMB and CEN/CLC BT)
• Maintain national portfolio
BSI committee structure

- SPSC supervises all BSI committees
- Technical committees work on a standards programme
- Subcommittees work on an area of the programme
- Working groups work on individual projects
Investment in the Standards Development Process

Continued investment in new technologies and platforms:

• Ecommittees – Committee management system

• Standards Development website - Proposals are published on http://standardsdevelopment.bsigroup.com for public input

• Draft review system – New system enables users to search, read, comment and share draft documents. http://drafts.bsigroup.com
Committee websites
Draft Review System

Easy Access & Simple User Interface to:

Search, Read Comment on & Share Draft Standards
Market take up and encouraging adoption

When the standard is published, BSI promotes the standard to the target market:

- Marketing
- Case studies
- Collaboration with the organizations on the committee
- Press and media coverage
- Internet and social media
- Conferences and events
Key areas – standardization work programme

- Construction products & processes
- Manufacturing and Innovative Design
- Engineering & Technology
- Biometrics, Regenerative medicine, Nanotechnology
- Healthcare & Medical Devices
- Governance, Risk & Compliance (GRC)
- Information Governance
- Services
- Sustainability
- Sustainable Development
- Energy Management, Energy Efficiency; Waste Management
Performance, Governance & Risk – Sector Development

• Organisational Governance
  • BS 13500 organisational governance, guidance Q3 2013

• Asset Management
  • ISO 55001, Q4 2013

• Information Security
  • ISO/IEC 27001, 27002 revision Q4 2013
  • PAS 555 Cyber Security, published 2013

• Quality
  • ISO 9001 revision, Q4 2015

• OHSAS 18001
  • Conversion to an ISO standard, 2015/16

• Health & Social Care
  • Market Development activity focused on care homes
Performance, Governance & Resilience – Sector Development

• Security/Resilience
  • Physical Security, Security Systems, Resilience & Information Security
    • BS ISO 22301 & BS ISO 22313 published 2012
    • BS 11200, Q4 2013 Crisis Management
    • BS 7499 revision, Q4 2013 - Static site guarding and mobile patrol services

• Fire
  • Fire safety, detection & mitigation
    • BS 5839-1, -6 & -8 published 2013 - Fire detection and fire alarm systems for buildings
    • BS 9999 and BS 9991 revisions, 2014 - fire safety in the design, management and use of buildings
    • PAS 79 published 2012 - Fire Risk Assessment

• PPE
  • Personal Protective Equipment – national, European and international standards
    • BS 8437 published 2012 - Maintenance of Personal fall Protection Systems & Equipment
Sustainability - Sector Development

• Sustainable development
  • BS 8900 parts 1 & 2 Q3 2013
  • Demonstrate commitment to sustainable development

• Energy Management, resource efficiency
  • EU Energy Efficiency directive – take up of ISO 50001

• Environmental management
  • ISO 14001 revision, Q1 2015

• Product Sustainability & GHG Management
  • PAS 2050 (product GHG), PAS 2060 (neutrality), PAS 2070 (City GHG)
  • Broader focus - Environmental footprinting, responsible sourcing, waste/water management
  • Labelling proliferation. Market mapping, identify gaps, opportunities to harmonise standards
Manufacturing & Services – Sector Development

- **Financial Services**
  - Simple Financial Products – PAS & KM Scheme
  - Financial Advice Planning – BS 8577, potential partnership with Institute of Financial Planning (IFP)
  - Financial Services Research – BSI, BIS & CISI, City of London Corporation

- **Business Services**
  - Collaborative relationship – conversion of BS 11000 into an ISO, expand into new sectors
  - Automotive – PAS 125 conversion into a BS
  - European Services Mandate – information, fulfilment, complaints, terms, customer excellence (DIN)

- **Emerging Technologies**
  - Technology Strategy Board – Assisted Living, Synthetic Biology, Cell Therapy, Offshore Energy
  - Standards strategies – standards development across technology lifecycle

- **Smart Cities**
  - Terminology, Metrics, Systems Interoperability, Management & Governance
Construction - Sector Development

• BIM (Business Information Modelling)
  • Transforming the way the entire construction industry works
  • PAS 1192-2 - mandated by Government

• Construction Products Regulation
  • CE marking becoming mandatory for all construction products in July
  • 400+ standards and schemes effected

• Sustainable construction
  • PAS 2030, 2031 underpin the Green Deal scheme
  • Market Scoping, researching opportunities across the sector - report due October
Standards Solutions
BSI works with organisations to assist standards strategy, research and development.

- **Strategy**
  - Workshops and needs assessment
  - Standards Portfolio analysis
  - Standards development and implementation strategies

- **Research**
  - Customised research services – standards, legal, regulatory
  - Standards gap analysis

- **Standards development**
  - PASs
  - Private standards

- **Areas of focus**
  - Smart Cities
  - Emerging Technologies
  - HS2 standards research, mapping, guidance
Benefits – PAS

Benefits of Sponsoring a PAS

• The sponsor has an element of control/influence over the PAS
  • agreeing the scope and intended use of the document
• Co-branded with the sponsor’s logo alongside BSI’s super brand status
• A position on the Steering Group

Benefits of working with BSI

• BSI’s 100+ year history of developing standards
• Globally recognised brand for excellence, integrity and independence
• Market recognition and take-up as a result of BSI’s endorsement and marketing strength
• The PAS process and output is flexible, tailored to meet our clients needs
• Credibility in the standard as a result of BSI’s independence in facilitating the consensus-building
## Comparison of typical PAS with typical BS

<table>
<thead>
<tr>
<th>PAS</th>
<th>British Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsorship model (typically £45k to £65k)</td>
<td>Publishing model</td>
</tr>
<tr>
<td>Acceptance process</td>
<td>Acceptance process</td>
</tr>
<tr>
<td>PAS 0</td>
<td>BS 0</td>
</tr>
<tr>
<td>6 to 12 months</td>
<td>12 to 24 months</td>
</tr>
<tr>
<td>Steering Group</td>
<td>BSI Technical Committee/Panel</td>
</tr>
<tr>
<td>Public consultation (1 month)</td>
<td>Public consultation (2 months)</td>
</tr>
<tr>
<td>Flexible design, print and distribution</td>
<td>Black and white POD</td>
</tr>
<tr>
<td>Co-branded</td>
<td>Not co-branded</td>
</tr>
</tbody>
</table>
PAS 223:2011, food packaging – a case study

- Relates to manufacture and provision of food packaging.
- Sponsored by Safe Supply of Affordable Food Everywhere.
- Will become ISO/TS 22002-4 in 2013, Stakeholders were:
International PAS

• Increasing number of PASs with:
  • Support international trade, Establish industry best practice
  • Underpin 2\textsuperscript{nd} or 3\textsuperscript{rd} party audit requirements
  • International standard & flexible, fast track solution required

• Examples include:
  • PAS 777: Test method for second hand engines, Sun Partners (Japan)
  • PAS 2050-3: Product carbon footprinting for textile projects, Korean National Cleaner Production Centre (KNCPC)
  • PAS 2060: Carbon neutrality, Taiwan EPA
Market Sector Focus

- Construction & Built Environment
- Manufacturing Materials & Services
- Governance Risk, Security, Fire, ICT, Healthcare
- Sustainability, Energy & Transport

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