

BS202000:2020 Standardization Management System -Specification



BS202000:2020 Standardization Management System -Specification

The Concept and BSI's DEF/1 Committee



John Clatworthy

Bsi Def/1 Member

18 November 2020

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The Concept and BSI's DEF/1 Committee

The Idea!

BSI's Strategic Defence Standardization Management Committee (DEF/1)

So Who are DEF/1?



The Concept and BSI's DEF/1 Committee

Operates Within the BSI Operational Model and its Obligations for Transparency and Consensus

DEF/1 Remit:

- To Support Defence Industry
- Promote Civil as Possible, Military only as Necessary Standards
- Promote Standards as Enablers for Increased Interoperability
- Promote the Use Extant or Promulgated UK Ratified Standards
- Promote the Non-Over Prescription of Standards



The Concept and BSI's DEF/1 Committee

DEF/1 – BSI's Strategic Defence Standardization Committee



The Concept and BSI's DEF/1 Committee

The Task:

“Provide a Solution for Industry Partners to Effectively, and in a Structured Manner, Respond to Standards in Contracts Whilst Understanding and Effectively Mitigating the Related Risks and Cost Overheads”

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Deliverable:

A User-Friendly Standard on
Standardization Management
System



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Develop a British Standard for a Standardization Management System that:

- Delivers the Standardization Management Benefits
- Identifies Measurable Criteria for Effective Standardization Management
- Instils Organizational Cultures and Behaviours
- Delivers Vendor and Supplier Confidence



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Benefits of Standardization Management (BS202000)

- Enhanced Product & Service Safety, Quality and Process
- Increased Interoperability of Products, Services and Processes
- Improved Governance and Assurance
- Clear Accountability and Reduced Risk
- Standards Continuously Improved through Learning From Experience



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The New British Standard:

- **BS 202000** Sets Out the Criteria for a Standardization Management System
- **BS 202000** Used by any Organization, Large or Small, Regardless of its Activity
- **BS 202000** Based on the Principles of Strong Customer Focus, Motivation & Implication of Top Management, Process Approach & Continual Improvement
- **BS 202000** Enables Organization to Use a Common Approach & Risk-Based Thinking to Integrate its Standardization Management System with the Requirements of Other Management Systems

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The New British Standard:

- **BS 202000** Ensures Customers get Consistent, Good-Quality Products & Services, Brings Business Benefits
- **BS 202000** Enables Organizations to Claim Compliance by:
 - Self-Determination and Self-Declaration;
 - Confirmation of its Conformity by Parties Having an Interest in the Organization
 - Confirmation of its Self-Declaration by a Party External to the Organization
 - Certification/Registration of its Standardization Management System by an External Organization.

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Standardization Management



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18 November 2020

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Standardization management system —
Specification

Standardization Management

Standards play a significant role in fostering innovation. Information is made more accessible through the dissemination of innovation and technology through standards

A Pre-defined list of standards provides a simple selection mechanism for new Contracts / contract amendments (and ensure a clear bid baseline assumption for the customer and the business)

BS202000 8.3 Reasons for selection of standards

The selection of standards shall provide assurance for the design, manufacture and ongoing support of the organization's products and services. Standards selected shall be derived to meet:

- a) legislative requirements;
- b) regulatory requirements;
- c) safety requirements;
- d) environmental requirements;
- e) design, manufacturing and ongoing support; and
- f) contractual requirements



Where appropriate Standards are agreed with the customer, or indeed are expected as a quality service standard as a minimum and also **help with sales of products or services.**



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Standardization Management

Standards help to enhance product quality and process efficiencies, optimise the variety of goods and services offered by the business, facilitate interoperability of products and processes, and permit inter-company exchange of information (i.e. sharing of technology through the use of agreed standards).

Standards provide people and organizations with a basis for mutual understanding, and are used as tools to facilitate communication, measurement, commerce and manufacturing. **Standards are everywhere and play an important role in the economy, by facilitating business interaction.**



Also see BS20200 0.4 Continuous improvement of the SMS



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Standardization Management



Standardization management system —
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Standards play an important role in ensuring compatibility of products in National and International markets, reducing transaction costs and providing a signal of quality to customers, thus boosting the export performance and prestige of exporting companies.

Standards are used by organizations to demonstrate that their products and services meet agreed criteria, and that their processes and principles of leadership and governance are consistent with good business practice.

Standards form the basis for the introduction of new technologies and innovations, and ensure that products, components and services supplied by different organizations will be mutually compatible.

Organizations of all sizes and across all sectors select standards to help them achieve their goals.



BS20200 is the way forward in Standardization Management and help kick start you in the right direction or help identify improvements within your current SMS.



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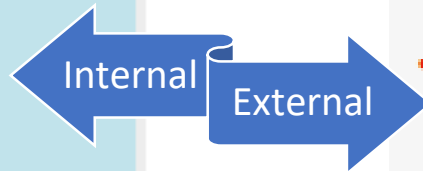
Standardization Management

Definition of Standardization Management from BS202000 3.27:

“The through-life process that enables the drafting, development and maintenance of standards and the promotion of intelligent selection and implementation of standards, policy, processes and tools”.

The benefits of Standardization Management (BS 202000)

- **Enhanced product and service safety, quality and process**
- **Increased interoperability** of products, services and processes
- **Improved governance** and assurance
- **Clear accountability** and reduced risk
- **Standards continuously improved** through learning from experience



Standardization explained

Standards should provide a reliable basis for people to share the same expectations about a product or service. This helps to:

- **facilitate trade**
- **provide a framework** for achieving economies, efficiencies and interoperability
- **enhance consumer protection** and confidence



Standardization is an activity of establishing, with regard to actual or potential problems, provisions for common and repeated use, aimed at the achievement of the optimum degree of order in a given context. - In particular, the activity consists of the processes of formulating, issuing and implementing standards. - Important benefits of standardization are improvement of the suitability of products, processes and services for their intended purposes, prevention of barriers to trade and facilitation of cooperation.

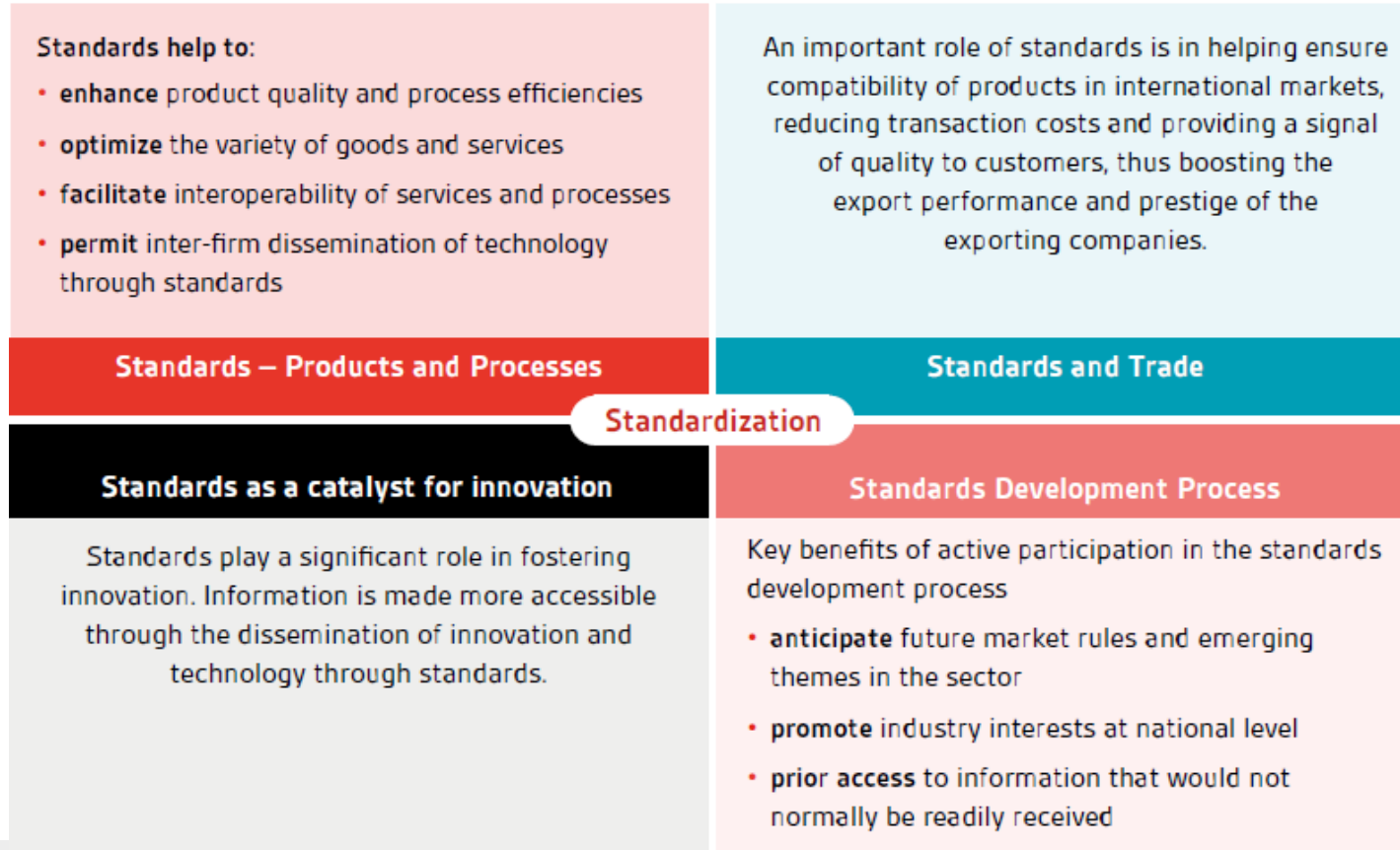


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Standardization Management

What are the benefits of Standards & Standardization?



Source: The Economic Contribution of Standards to the UK Economy – June 2015. CEBR and BSI.

See **BS202000 - introduction 0.1 General-** Standardization Management is key to the delivery of the benefits of open procurement by driving the use of open principles, rules and standards through its policy, processes and tools.



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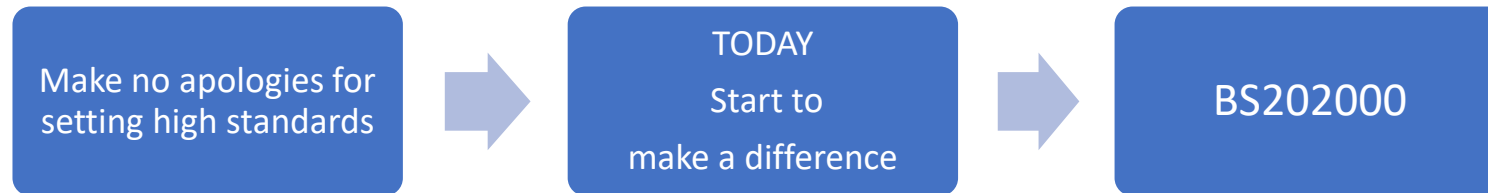


Standardization Management



BS202000 supports and guides organizations in the implementation of a standardization management system (SMS), including assisting organizations to:

- a) understand the requirements of an SMS; and
- b) select and implement improvements within an SMS.



Your point of contact for questions in relation to BS202000 is the DEF/1 Committee also see the FAQ available in today's presentation.

BS202000 is the way forward in Standardization Management – but think about what can you start doing now to help get ready to implement or enhance standardization within your organization.

(ie Check to see how your organization can benefit from BS202000 & then define or review your standardization policy)



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The Standard & Assessing Deployment



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BS202000 CONTENTS

1. Scope
2. Normative References
3. Terms and Definitions
4. Context of the Organisation
5. Leadership
6. Planning
7. Support
8. Operation
9. Performance Evaluation of the SMS (Standardization Management System)

BS202000 Annexes

- **Annex A (informative) Standardization manager terms of reference**
- **Annex B (informative) SM committee terms of reference**
- **Annex C (informative) Recognized levels of competence in SM**
- **Annex D (informative) Standardization management system requirements**

ANNEX C - RECOGNIZED LEVELS OF COMPETENCE IN SM (5 Levels)

C.1 Indicators of knowledge and experience

- Demonstrates an awareness of the organizations SM policy and structure including the benefits delivered from an effective and efficient SM policy.
- An understanding of the roles and responsibilities towards SM and the various toolsets which control it.

C.2 Supervised Practitioner

- Applies the SM policy, utilizing the expertise of the appropriate SM personnel.
- Utilises SM toolsets. Understands appropriate standards pertinent to the business
- Supports SM activities to ensure compliance with legislation

C.3 Practitioner

- All of the above but in an advisory and managerial capacity

ANNEX C - RECOGNIZED LEVELS OF COMPETENCE IN SM

C.4 Expert

- All of the above and leads, manages and authorizes SM activities where there is a requirement to comply with UK and international legislation

C.5 Authority

An authority:

- Someone or persons within an organization or company with many years of experience in standardization activities
- Typically this will be someone who has drawn up and applied standards in a work setting
- They will have been a member of a standards committee within a Standards development Organization (SDO).
- They will probably have represented their country/company at standards making meetings.
- They will be responsible for communicating SM best practice across the organization
- They are probably close to retirement!

Assessing Effectiveness of Deployment

BS 202000 Enables Organizations to Claim Compliance by:

- Self-Determination and Self-Declaration
- Confirmation of its Conformity by Parties Having an Interest in the Organization
- Confirmation of its Self-Declaration by a Party External to the Organization
- Certification/Registration of its Standardization Management System by an External Organization



Assessing Effectiveness of Deployment

Made Simple Through Annex D of BS202000

Identifies:

- 7 Compliance Areas
- 42 Compliance Criteria



Summary

1. BS202000 supports and guides organizations in the implementation of a standardization management system (SMS), including assisting organizations to:
 - Understand the requirements of an SMS;
 - Identify and implement improvements within an SMS.
2. BS20200 enables an organization to use a process approach coupled with the PDCA cycle and risk-based thinking to align its quality management systems with the requirements of BS202000 which relates to and aligns with:
 - ISO 9000- *“Quality management systems – Fundamentals and vocabulary”*,
 - ISO 9001- *“Quality Management Systems-Requirements”*
 - ISO 9004- *“Managing for the sustained success of an organization – A quality management approach”*,
 - AS/EN9100 - *“QMS-Requirements for Aviation, Space and Defence Organizations”*

PDCA- Plan Do Check Act

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Competitive Advantage – The MBDA Way



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Competitive Advantage – The MBDA Way

The Challenge

*The need to design and deploy a **structured system** whereby an organization can be effective in **ensuring compliance** to the multitude of standards in its contracts, whilst **minimising risk and overheads** to the **business and its customers**.*

MBDA External Standardization Management Policy

Objective of the document

The strategic intent here is to place MBDA at a competitive advantage through the effective establishment and continual improvement of our external standardization management system. This is to be delivered through influencing the development and use of common sets of external standards wherever possible, which help drive flexibility and agility in our product and service offerings; and in turn enable the required level of coherence and interoperability of our delivered solutions.

Competitive Advantage – The MBDA Way

The Enablers

*Key to successful deployment was clear **management support and strategic direction**;
and ongoing business **engagement**.*

Statement of Policy

This policy covers all aspects required to deliver a standards management system and service to meet the needs of our business, national authorities and customers.

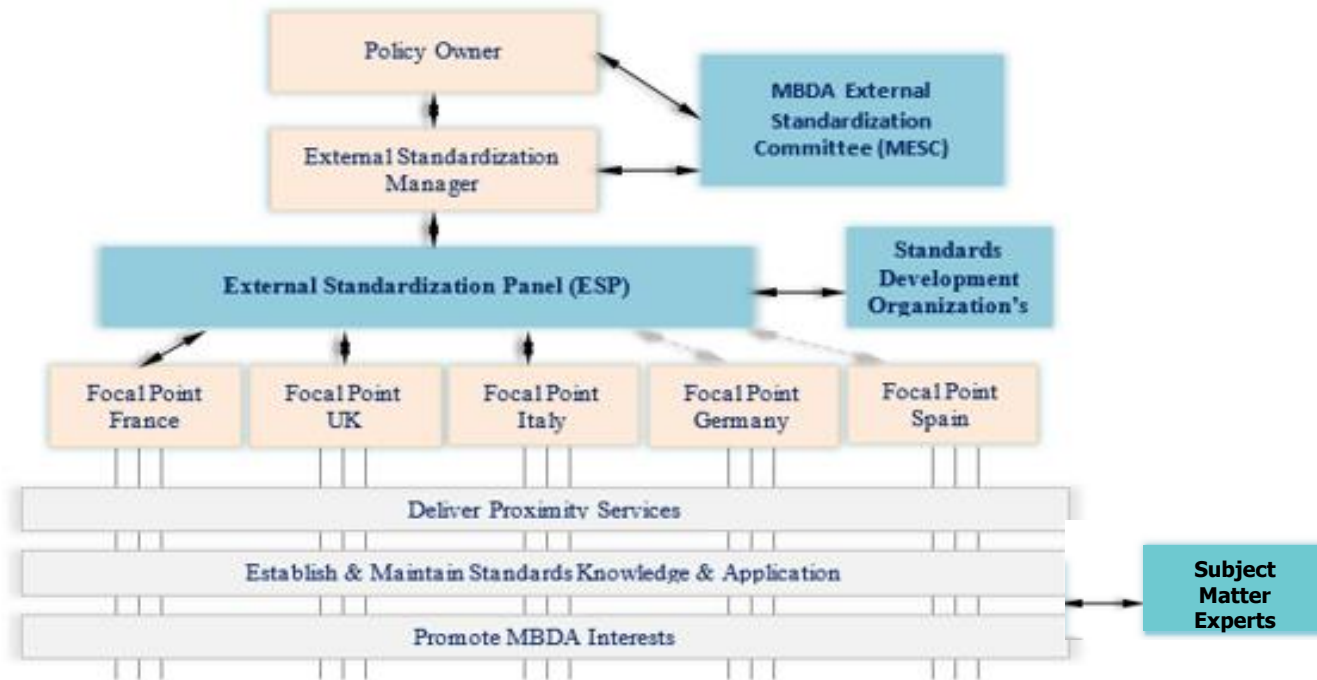
This is to be achieved through the following strategic themes:

- 1. Deliver Proximity Services** to support our employees as Standards users
- 2. Establish & Maintain Standards Knowledge & Application** across the business
- 3. Promote MBDA interests** with Standard Development Organisations and Associations

Competitive Advantage – The MBDA Way

The Operational Model

The approach is based on the *three core work streams* and relies on strong *collaborative working internally and externally*.



Competitive Advantage – The MBDA Way

A Structured Approach

1. Deliver Proximity Services

To support our employees as standards users

Delivering an external standards service to the business (at national level) through the **availability** and application of **relevant external standards for operational purposes**.

Provide user support, subject awareness and training, and use CSN and intranet sites for material and communications

2. Establish & Maintain Standards Knowledge & Application

Continually build in house expertise

Managing the internal **impact assessment** activities, undertaken by **standards experts**, to determine the effects of new standards and changes to standards related to our products and services.

3. Promote Business Interests

Collaborative working with standards development organisations and associations

Facilitating and managing the internal **standards expert's network** engaged in external standards working groups to enable the delivery of a consistent business voice and **influence in standardization bodies/committees**.

3 core work streams in detail

Competitive Advantage – The MBDA Way

The Benefits

1. Deliver Proximity Services

To support our employees as standards users

- Immediate access to standards for all.
- Avoids risks as requirements are to hand.
- Access to current and historical standards.
- Watch lists for changes/updates.
- User support.
- User training.
- Subscription optimised and regular usage data updates.

2. Establish & Maintain Standards Knowledge & Application

Continually build in house expertise

- Subject matter experts identified across the business and become the business reference points.
- Standards SME's input to standards assessments to understand impact on products, processes and costs.
- Assessments feed in to contract reviews and standards lists.
- Pre-empt standards in future contracts.
- Standards flow down in supply chain

3. Promote Business Interests

Collaborative working with standards development organisations and associations

- Engagement in external committees.
- Consistent business voice and influence in standards development.
- Optimal level of engagement.
- Advance knowledge of changes to standards to allow business response.

3 core work streams – the benefits

Competitive Advantage – The MBDA Way

Activities & Measures



Competitive Advantage – The MBDA Way

Benefits



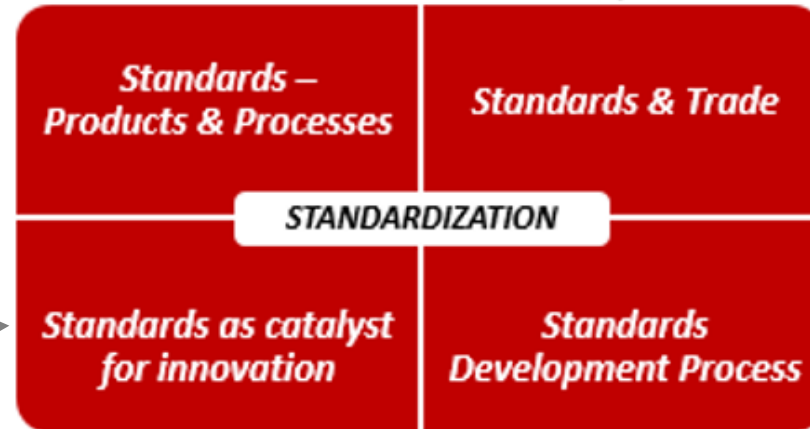
MBDA has been accredited as Investor in Innovations Standard by the Institute of and Knowledge Exchange Innovation (IKE Institute) as a recognition of its good practices and adherence to the newly published ISO 56002 Innovation Management System standard. This rewards an Innovation Management System. Creating advantage through innovation by applying a systemic approach, instilling a culture that is pro-innovation, embracing an open innovation ecosystem and accelerating promising innovations from idea to solution, quickly and affordably are some of the recommended practices that MBDA has been recognised for, when it successfully achieved the Accreditation.



Standards help to

- enhance product quality and process efficiencies;
- optimise the variety of goods and services;
- facilitate interoperability of products and processes; and
- permit inter-firm dissemination of technology through standards

Important role of standards is in helping ensure compatibility of products in international markets, reducing transaction costs and providing a signal of quality to customers, thus boosting the export performance and prestige of the exporting companies.



Standards play a significant role in fostering innovation. Information is made more accessible through the dissemination of innovation and technology through standards.

Key benefits of active participation in the standards development process:

- Being able to anticipate future market rules and emerging themes in the sector;
- promoting industry interests at national level;
- and having prior access to information that would not normally be readily received.

Competitive Advantage – The MBDA Way

Backed by Research ...

The Economic Contribution of Standards to the UK Economy

June 2015

<https://cebr.com/reports/standards-contribute-8-2-billion-to-uk-economy/>



70% of respondents stated that standards had contributed to improve their supply chain by improving the quality of supplier products and services.

63% of firms stated that standards have homogenised products and minimised costs.



41% of companies agreed that standards have increased interoperability of products and systems.

54% of companies reported that information was made more accessible through the dissemination of technology

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Future Build of the Standard



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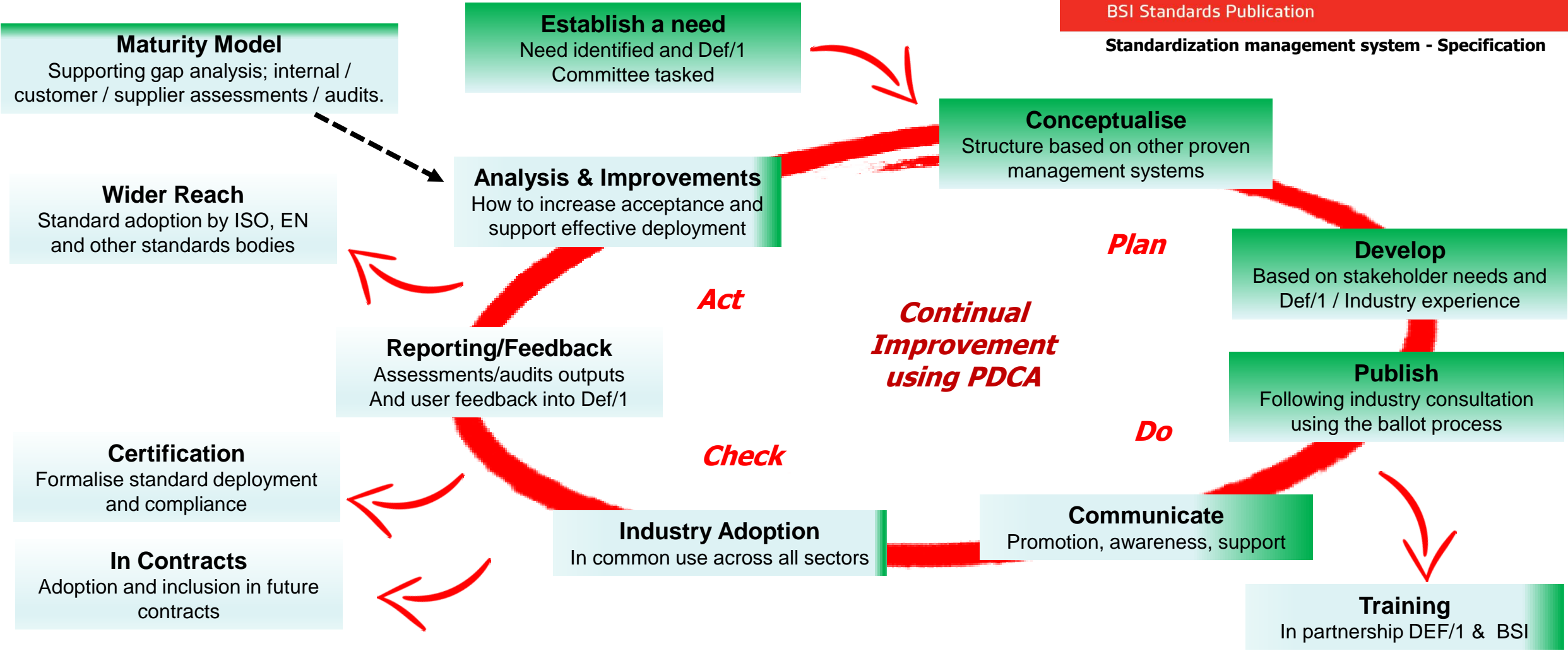
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Future Build



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Maturity Model Concept



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Annex D (informative) Standardization management system requirements

Table D.1 provides a guide of what is required in order to conform to this British Standard.

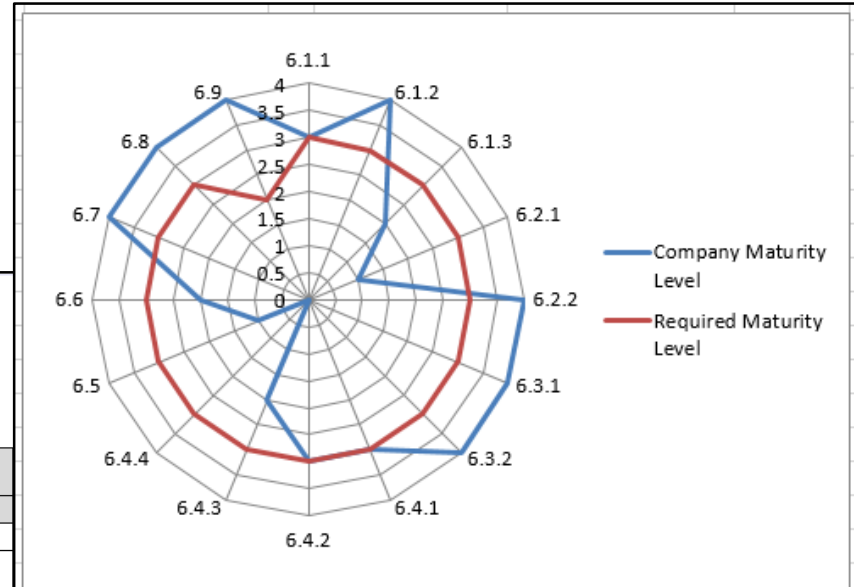
Table D.1 — Table of requirements

Question	Clause number	Evidence
Context of the organization		
<i>Understanding the organization and its context</i>		
1	Demonstrate how the organization identifies and monitors the internal and external issues that can affect its ability to meet the requirements of the standard.	4.1
<i>Understanding the organization and its context</i>		
2	Demonstrate how the organization monitors and reviews the effectiveness of the standard and its implementation, and identifies areas for improvement.	
<i>Determining the scope of the standard</i>		

4. ANNEX A – COUNTERFEIT AVOIDANCE MATURITY MATRIX

Defence Standard 05-135 Requirement Questions	Counterfeit Avoidance Maturity Level			
	Level 0 (immature)	Level 1 (minimal)	Level 2 (improving)	Level 3 (mature)
6.1 Policy Statement.				
6.1.1 How has Management Intent or Policy on Counterfeit Avoidance been defined?	Information has not been considered or defined.	Information has been considered, defined, and articulated at a draft level.	Information has been defined, and published as a coherent document.	Evidence exists demonstrating that published information has improved over time, incorporating industry good practice.
6.1.2 How is Management Intent or Policy made available to customers upon request?	Information is not available.	Information is available but only when requested.	Information is freely available and easy to access (e.g. via website no request necessary).	Information is freely available, easy to access, with links to other relevant information and standards.
6.1.3 What controls are in place to manage the risk of counterfeit material in the supply chain?	The risk has not been recognised.	A simple risk assessment exists but it has not been clearly linked to internal or external supply chain arrangements.	Risk assessments have been used to influence internal policy only. The approach has not been fully extended to cover the whole supply chain.	Active management of the risk in the supply chain is proactively used to inform the periodic review of the supplier's policy including internal and external arrangements across the whole supply chain.
6.2 Roles and Responsibilities.				

Gap Analysis & Improvement Focus



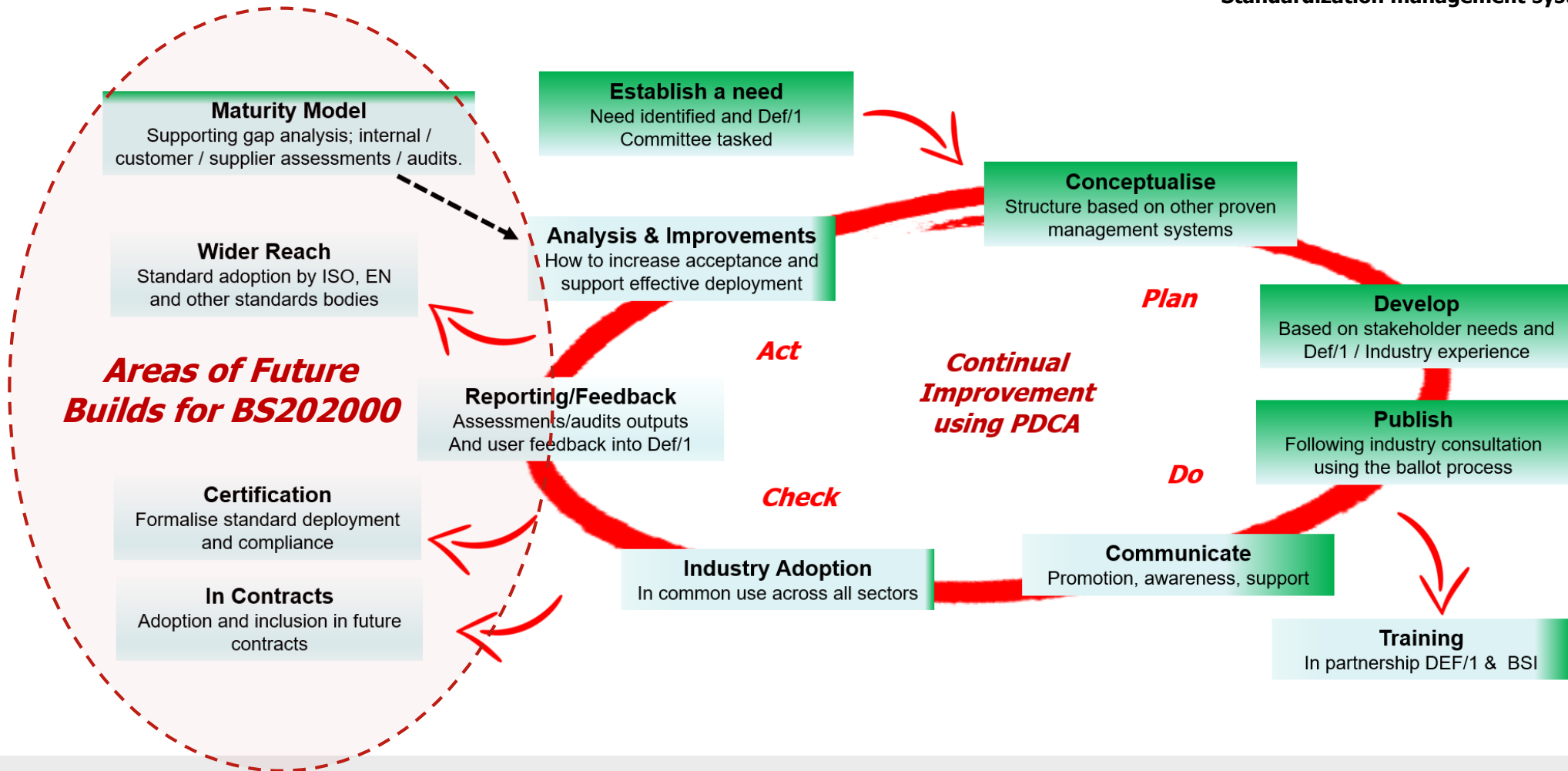
This spreadsheet allows you to enter the desired rating of the organisation and their assessment rating. A "RADAR" diagram is then generated to indicate the results for the organisation which helps to show a visual representation of whether the integrator/manufacturer/component provider meets or needs to improve their process.

Future Build



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Chair Bsi ACE/1
Member Bsi DEF/1
Member ADS Engineering Standards Committee (ESC)
UK Delegate to ISO TC20
Member MSHT

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Group Head, Product Assurance Systems & Tools
And External Standardization Management

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Member Bsi DEF/1 committee
Member Aerospace Defence Security Group - ADS Engineering
Standards Committee (ESC)
Member Counterfeit Avoidance Working Group (CAWG)
Member External Standardization Panel (ESP)

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