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Latest Development of Certification on the Environmental Front

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Update on Revision of ISO 14001:2015

Revision: Changes in system structure

1. Scope
2. Normative references
3. Terms and definitions
4. Context of the organization
5. Leadership
6. Planning
7. Support
8. Operation
9. Performance evaluation
10. Improvement



Sub-clause structure (I)

4. Context of the organization

- Understanding the organization and its context
- Understanding the needs and expectations of interested parties
- Determining the scope of the environmental management system - *(Documented)*

5. Leadership

- Leadership and commitment
- Policy - *(Documented)*
- Organizational roles, responsibilities and authorities

6. Planning – (Life Cycle perspective)

- Actions to address risks and opportunities
- Environmental aspects: procedures and criteria of (EA & SEA) - *(Documented)*
- Compliance obligations - *(Documented)*
- Objectives and plans to achieve them - *(Documented)*



Sub-clause structure (II)



7. Support

- Resources
- Competence - *(Documented as evidence)*
- Awareness
- Communication – internal and external *(External communication - Documented as evidence)*
- , Documented information – requirements of this Standard, Organization, business processes. - *(Documented)*

8. Operation

- Operational planning and control
- - *Value chain control –suppliers/subcontractors controls (life cycle perspective)*
- Emergency preparedness – test and review, e.g., waste water overflow - *(Documented as evidence)*

9. Performance evaluation

- Monitoring, measurement, analysis and evaluation of the results -- *(Documented as evidence)*
- Evaluation of compliance - *(Documented as evidence)*
- Internal audit - *(Documented as evidence)*
- Management review - *(Documented as evidence)*

10. Improvement

- Non conformity and corrective action – nature of NC & results of actions - *(Documented as evidence)*
- improvement



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ISO 50001 Energy Management System Transition.

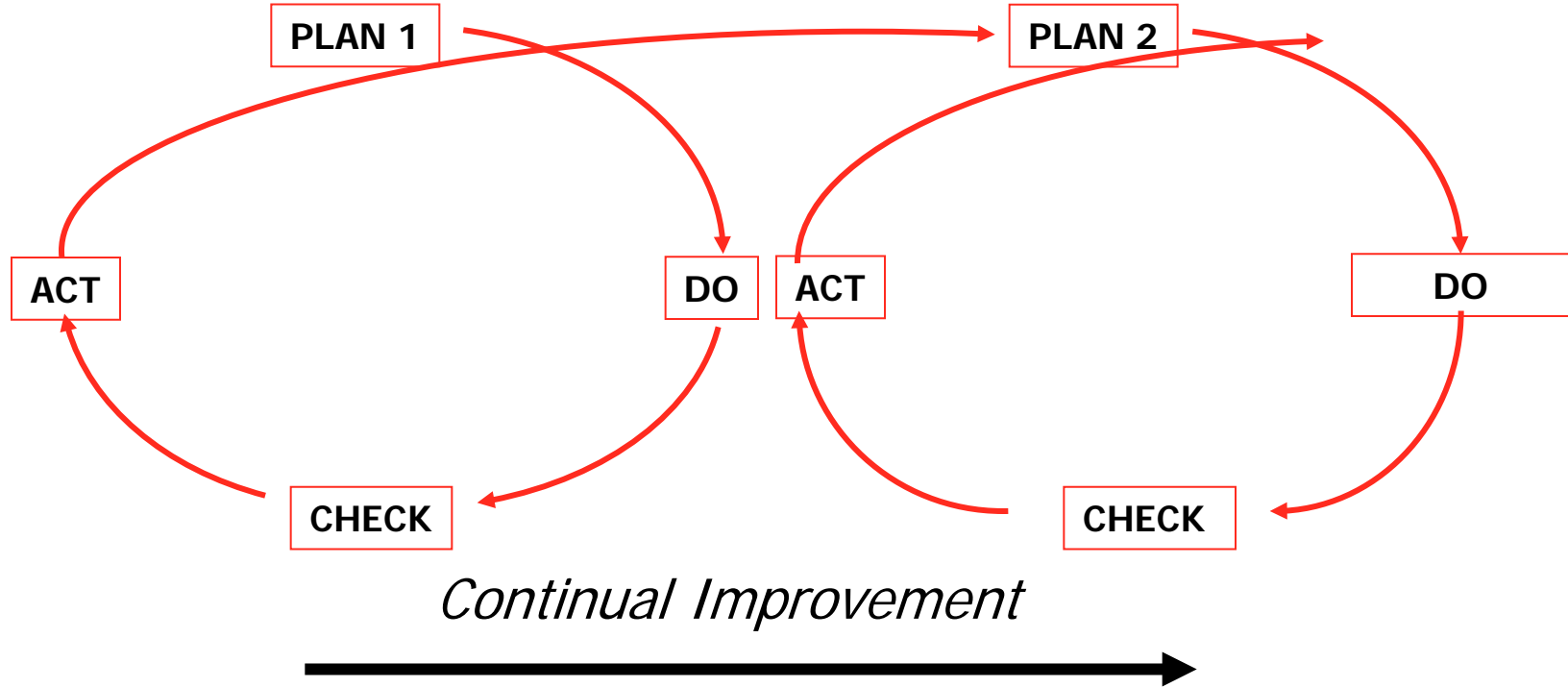


Aim/intended outcomes of an EnMS

to enable an organization to follow a systematic approach in achieving continual improvement of energy performance and the EnMS – NO CHANGE

PDCA and Continual Improvement

Process based business systems follow:



Common terms and core definitions

Terms and their definitions that have remained the same:	
Energy	Nonconformity
Energy baseline	Significant energy use
Energy consumption	Top management
Energy performance	

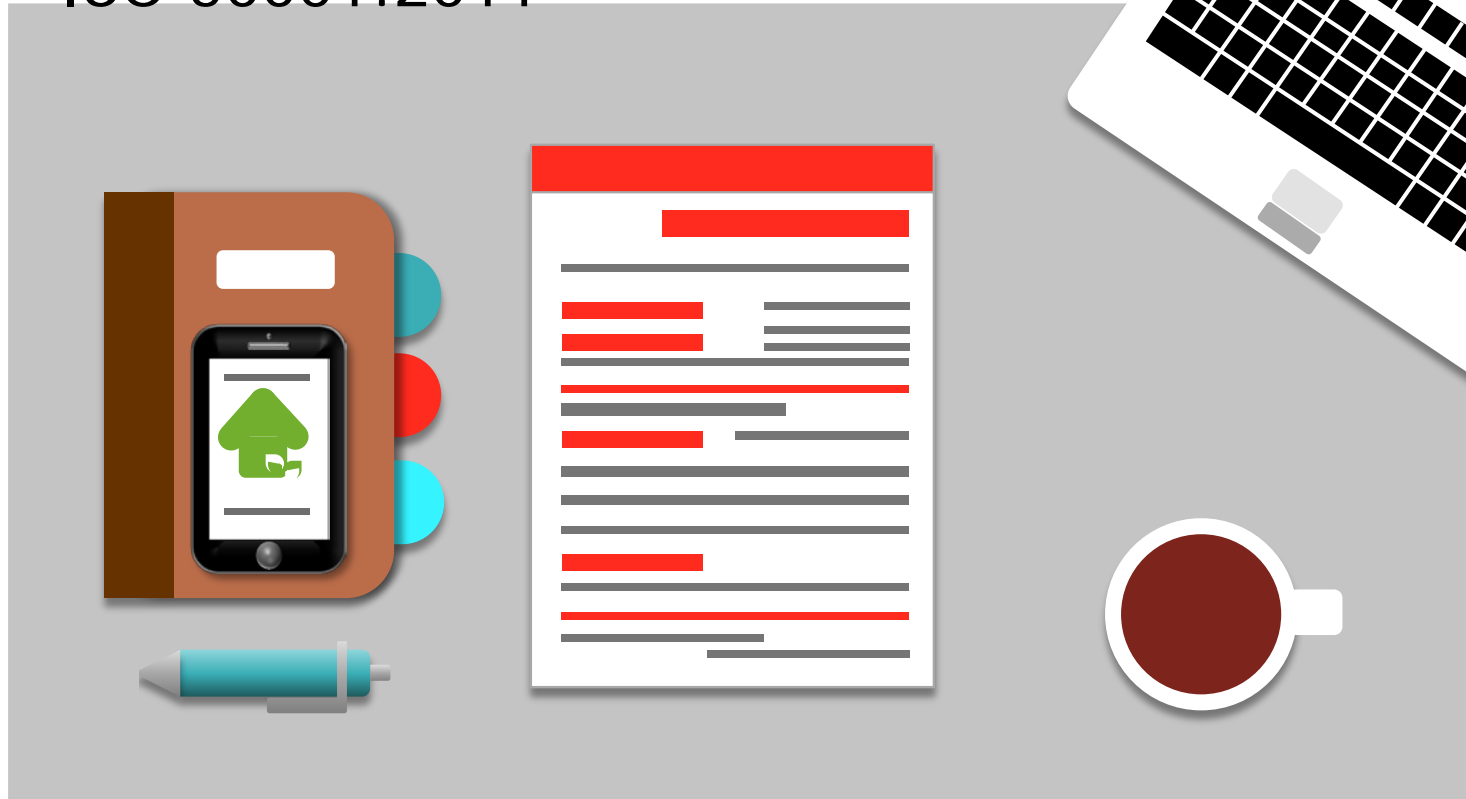
Common terms and core definitions

Changed definitions to ISO 50001:2011	
Boundary	Energy target
Continual improvement	Organization
Corrective action	Energy use
Energy efficiency	Interested party
Energy management system	Energy review
Energy management team	Energy policy
Energy performance indicator	

Common terms and core definitions

Was not defined in ISO 50001:2011	
Competence	Management system
Documented information	Measurement, monitoring
Effectiveness	Risk
Energy performance improvement	EnMS scope
EnPI value	Normalization
Objective	Outsource
Performance	Process
Conformity, requirement	Relevant variable, static factor
Policy	

Comparison between ISO 50001:2018 and ISO 50001:2011



ISO 50001:2011

ISO 50001:2018

Introduction			Introduction
Scope	1	1	Scope
Normative references	2	2	Normative references
Terms and definitions	3	3	Terms and definitions
		4	Context of the organization
		4.1	Understanding the organization and its context
Energy management system requirements	4		
General requirements	4.1	4.3	Determining the scope of the energy management system
		4.4	Energy management system
Management responsibility	4.2		
		4.3	Determining the scope of the energy management system
Top management	4.2.1	5	Leadership and commitment
		5.1	Organizational roles, responsibilities and authorities
Management representative	4.2.2	7.1	Resources
Energy policy	4.3	5.2	Energy policy

ISO 50001:2011

ISO 50001:2018

Energy planning	4.4	6	Planning
General	4.4.1	6.1	Actions to address risk associated with threats and opportunities (title only)
Legal requirements and other requirements	4.4.2	4.2	Understanding the needs and expectations of interested parties
Energy review	4.4.3	6.3	Energy review
		6.1	Risk associated with threats and opportunities
Energy baseline	4.4.4	6.5	Energy baseline
Energy performance indicators	4.4.5	6.4	Energy performance indicators
Energy objectives, energy targets and energy management action plans	4.4.6	6.2	Objectives, energy targets and planning to achieve them
Implementation and operation	4.5	7	Support
		8	Operations

ISO 50001:2011

ISO 50001:2018

General	4.5.1		
Competence, training and awareness	4.5.2	7.2	Competence
		7.3	Awareness
Communication	4.5.3	7.4	Communications
		7.4.1	General
		7.4.2	Internal communication
		7.4.3	External communication
Documentation	4.5.4	7.5	Documented information
		7.5.1	General
		7.5.2	Creating and updating
		7.5.3	Control of documented information
Operational control	4.5.5	8.1	Operations planning and control
Design	4.5.6	8.2	Design
Procurement of energy services, products, equipment and energy	4.5.7	8.3	Procurement

ISO 50001:2011

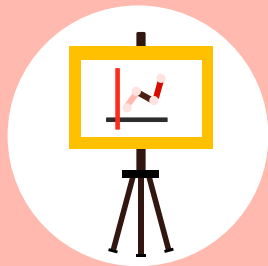
ISO 50001:2018

Checking	4.6	9	Performance evaluation
Monitoring and measurement	4.6.1	9.1	Monitoring, measurement, analysis and evaluation of energy performance and the EnMS
		6.6	Planning for collection of energy data
Evaluation of compliance	4.6.2	9.1.2	Evaluation of legal and other requirements
Internal audit of the EnMS	4.6.3	9.2	Internal EnMS audit
Nonconformities, correction, corrective action and preventive action	4.6.4	10.1	Nonconformity and corrective action
Control of records	4.6.5	7.5	Documented information
Management review	4.7	9.3	Management review
		10	Improvement (title only)
		10.2	Continual improvement

Key changes



- Clarification of language and organization
- Adoption of Annex SL (HLS)
- Integration with strategic management



- Energy performance improvement definition
- Risks and opportunities
- Documented information and processes

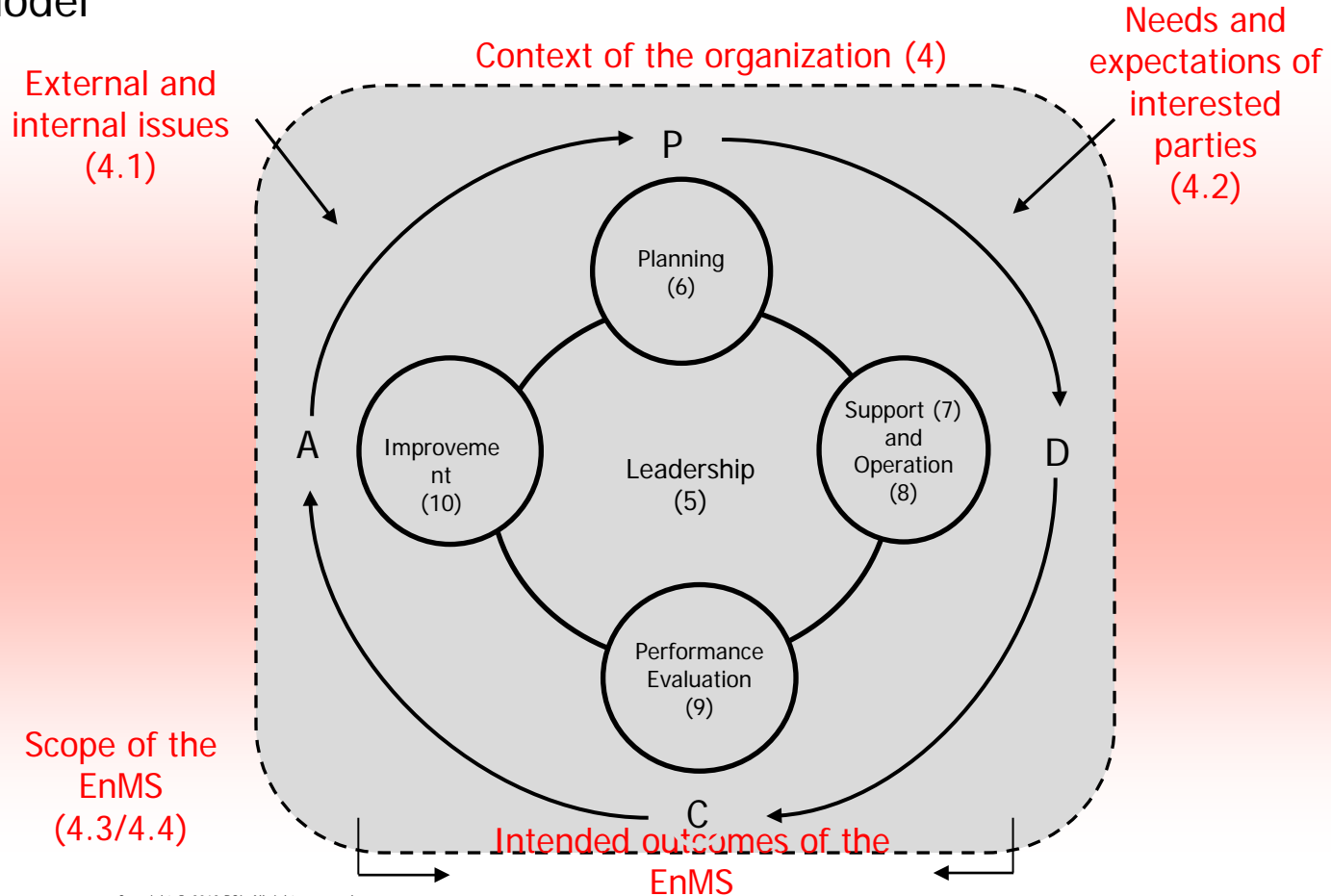


- Emphasis on the role of top management
- Management of change
- Energy data collection plan details



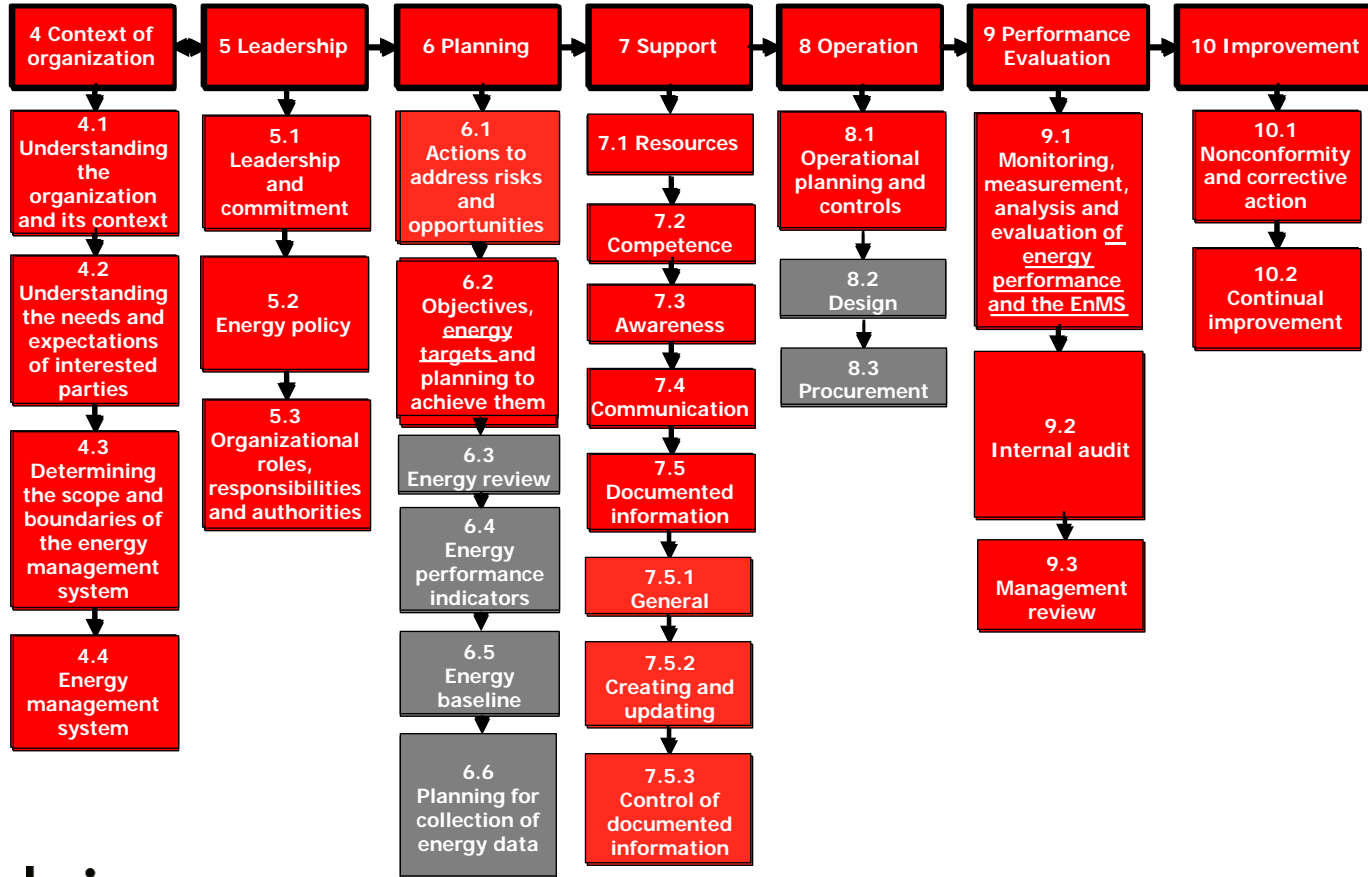
- Definitions updated and ordered
- Clarification of the normalization of EnPI value(s) and corresponding EnB(s)

EnMS Model



Animated Slide – to amend animation drag this graphic away

HLS and additional 'EnMS' structure



Summary - Key changes

- Adoption of Annex SL (HLS)
- Integration with strategic management
- Risks and opportunities
- Energy data collection plan details
- Clarification of the normalization of EnPI value(s) and corresponding EnB(s)

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Your ISO transition

BSI Support material

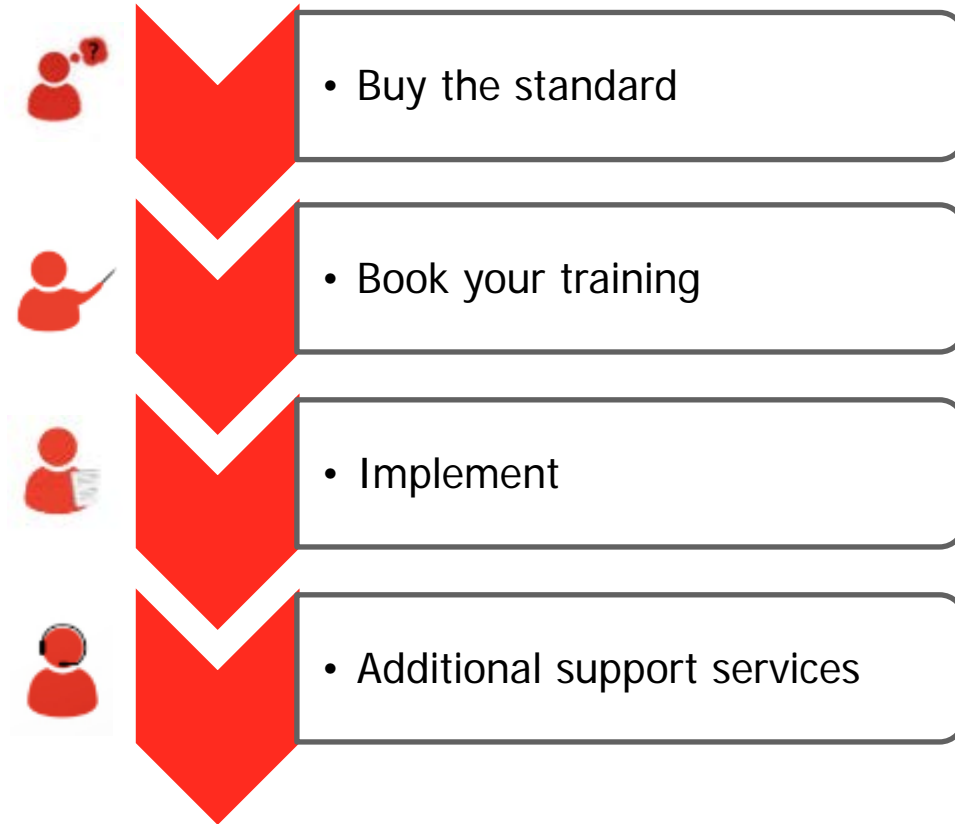
ISO 50001:2018 certification transition timeline



What if my organization is certified to ISO 50001:2011?

Certification Body will support you through the migration and we will provide you with guidelines and training to help you make it as smooth as possible.

ISO 50001:2018 – your journey



ISO 50001:2018 what it means for you

- Start your transition journey as soon as possible
- Use this as an opportunity to drive improvement and deliver results



And finally...

Thank you for participating and have a safe journey home



bsi.

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