

# How can ISO Standard, training, implementation and certification, assist companies in becoming more resilient to water supply disruptions?

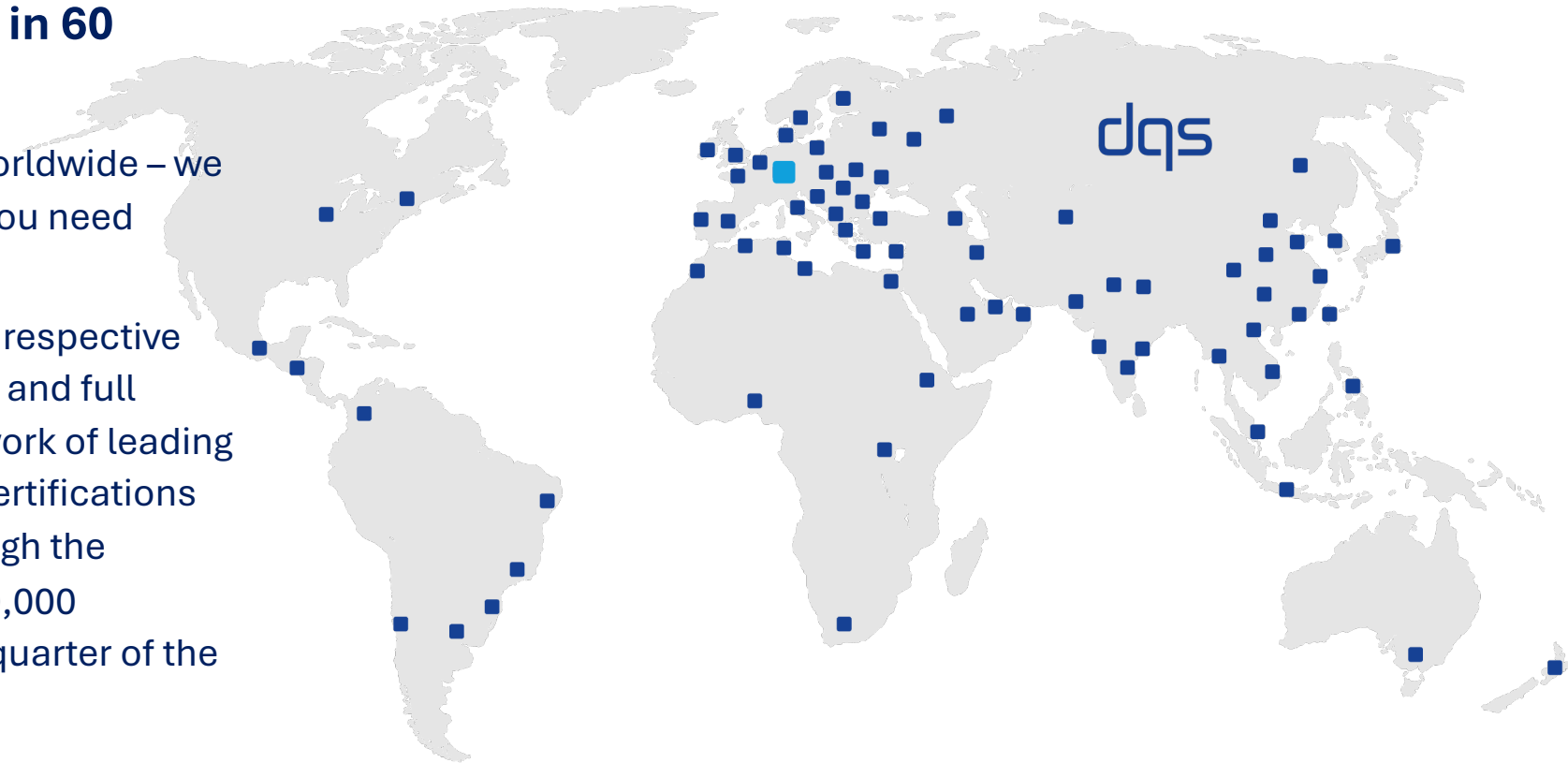


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**ISO Standards are Internationally agreed by Experts**

**“Think of Standards as a formula that describes the best way of doing something”**

**25454**

**International Standards** covering almost all aspects of technology, management and manufacturing.

**172**

**Members** representing ISO in their country. There is only one member per country.

**839**

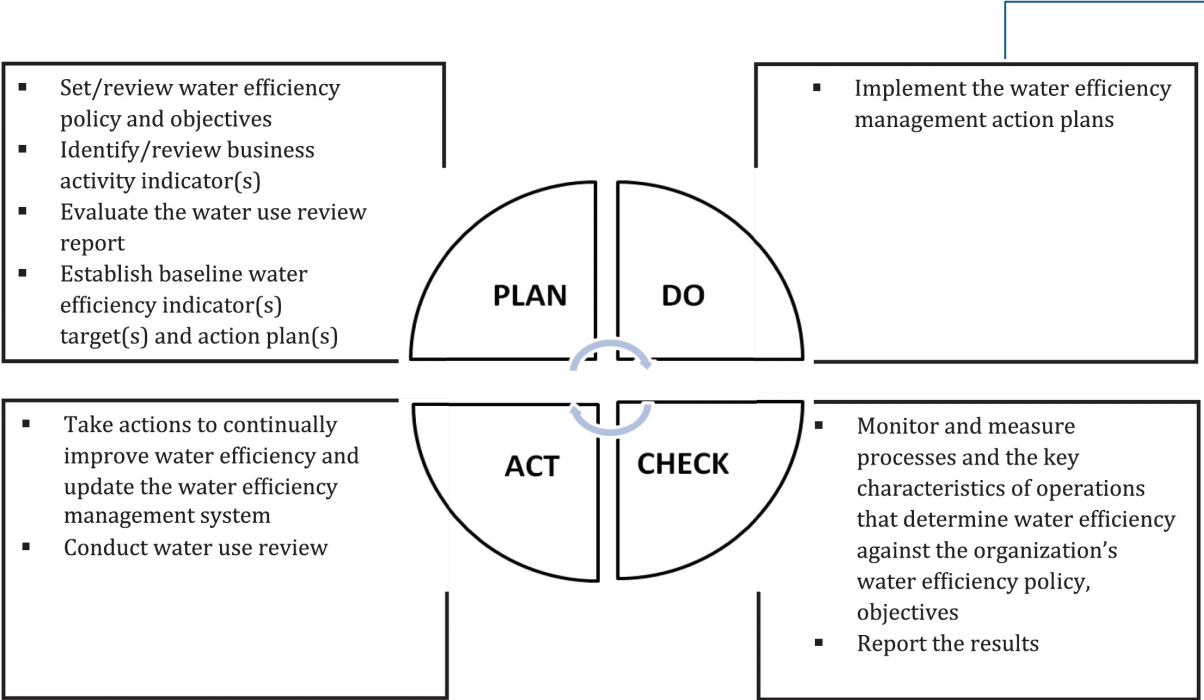
**Technical committees and subcommittees** to take care of standards development.

# A WORLD CLASS A STRATEGY TO SUSTAINABLE BUSINESS MANAGEMENT



## ACTIVISM FACTORS

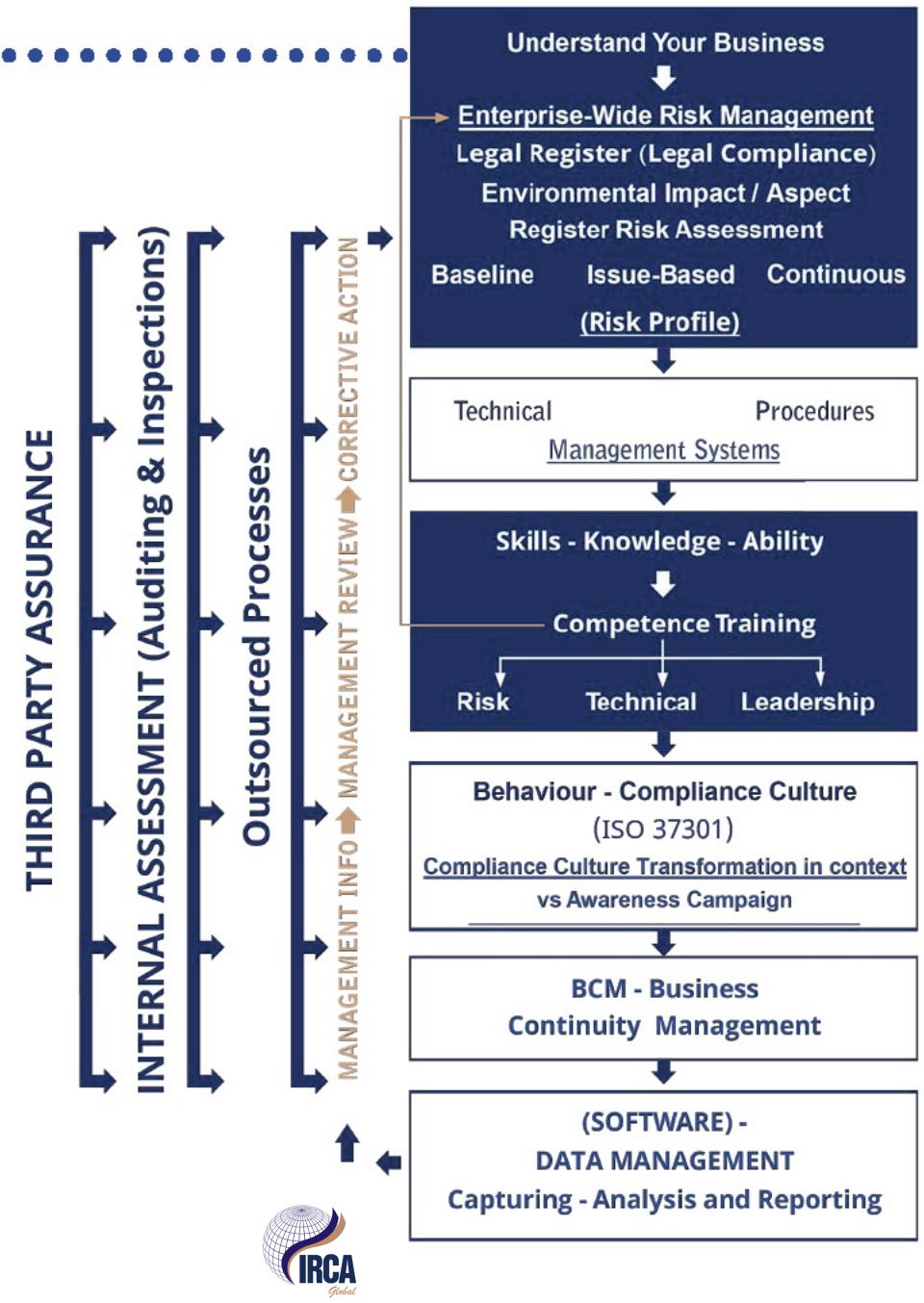
- Economics
- Labour Unions
- Legal Requirements & Liabilities
- Technology
- Best Practices
- Workforce Changes
- International Codes & Standards
- Medical Research
- Social Demands (Consumerism)
- Politics



INTERNATIONAL STANDARD **ISO 46001**  
First edition 2019-07

Water efficiency management systems — Requirements with guidance for use  
*Systèmes de management de l'utilisation efficace de l'eau — Exigences et recommandations d'utilisation*

Reference number ISO 46001:2019(E)  
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**ISO Standard can assist organisations in becoming more resilient to water supply disruptions.**

**“Operational resilience – An organisation's ability to continue delivering critical activities throughout a disruption. This concept is not just about preventing disruptions but also encompasses the idea of bouncing back stronger and more agile after a disruption”.**





## **Risk Assessment and Enterprise Risk Management (ISO 31000);(ISO 31010):**

- ISO 31000 provides guidelines for risk management, helping companies identify, assess, and mitigate risks in this case water supply disruptions.

“Companies can develop comprehensive **risk management plans** to address potential water shortages, ensuring continuity of operations”



## **Environmental Management (ISO 14001):**

- ISO 14001 focuses on effective environmental management systems, encouraging companies to reduce their water usage and improve efficiency.
- Through regular audits and monitoring, companies can identify areas for improvement and implement water-saving measures.



## **Water Efficiency Management (ISO 46001):**

- ISO 46001 provides a framework for implementing and maintaining a water efficiency management system.
- Companies can optimise their water use, reduce wastage, and ensure sustainable water management practices.





## **Business Continuity Management (ISO 22301):**

- ISO 22301 outlines the requirements for a business continuity management system, enabling companies to prepare for and respond to water supply disruptions.
- Training and certification ensure that employees are aware of the procedures and can act quickly in case of an emergency and minimise the impact.



## **Water Footprint Assessment (ISO 14046):**

- ISO 14046:2014 specifies principles, requirements, and guidelines for assessing the water footprint of products, processes, and organisations based on life cycle assessment.
- This standard helps companies understand the environmental impacts related to water usage, enabling them to implement strategies to reduce their water footprint.



## **Supply Chain Security Management (ISO 28000):**

- ISO 28000 focuses on security management systems for the supply chain, including the security of water supplies.
- Companies can ensure that their supply chains are resilient and capable of withstanding water supply disruptions.



## **Training and Capacity Building:**

- Regular training programs ensure that employees are knowledgeable about best practices in water management and conservation.
- Internal Monitoring, Auditing, and certification help maintain high standards and continuous improvement in water management strategies.



**By integrating these  
ISO standards (Best Practice guidelines),**

Companies can create robust systems to manage water resources effectively, minimise the impact of water supply disruptions, and ensure sustainable operations.



Businesses can implement a variety of initiatives to reduce their water consumption, and ISO standards provide guidelines and frameworks to support these efforts.





## **Water Efficiency Management:**

- **ISO 46001 (Water Efficiency Management Systems):** This standard provides a framework for implementing and maintaining a water efficiency management system. It helps organizations establish policies, objectives, and processes to manage water usage effectively.

## **1. Water Audits and Assessments:**

- Conduct regular water audits to identify areas of high water consumption and opportunities for reduction.
- Use water assessment tools and techniques to measure and monitor water usage.

## **2. Leak Detection and Repair:**

- Implement a leak detection program to identify and repair leaks in water supply systems promptly.
- Regularly inspect and maintain plumbing systems to prevent water wastage.

## **3. Water-Saving Technologies and Fixtures:**

- Install water-efficient fixtures and appliances, such as low-flow faucets, toilets, and showerheads.
- Use water-saving technologies in industrial processes, such as water recirculation systems and cooling towers.



#### **4. Recycling and Reuse:**

- Implement water recycling and reuse systems to treat and reuse wastewater for non-potable purposes, such as irrigation, cooling, and cleaning.
- Utilize greywater systems to recycle water from sinks, showers, and laundry for landscape irrigation.

#### **5. Employee Training and Engagement:**

- Educate employees about water conservation practices and the importance of reducing water consumption.
- Encourage employees to report leaks and suggest water-saving ideas.

#### **6. Process Optimization:**

- Optimize industrial processes to reduce water usage, such as using dry cleaning methods or optimizing cooling systems.
- Implement best practices for water management in manufacturing and production processes.

#### **7. Sustainable Landscaping:**

- Use drought-tolerant plants and xeriscaping techniques to reduce water usage in landscaping.
- Implement efficient irrigation systems, such as drip irrigation, to minimize water waste.



## 8. Monitoring and Reporting:

- Establish a water monitoring system to track water usage and identify trends and anomalies.
- Report water usage and conservation efforts as part of sustainability reporting and communicate progress to stakeholders.

## 9. Community and Stakeholder Collaboration:

- Collaborate with local communities, governments, and other stakeholders to promote water conservation initiatives.
- Participate in water stewardship programs and support local water conservation efforts.





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