



STANDARDIZATION

A FRAMEWORK
FOR PROGRESS
FOR ALL

**STANDARDS AS TOOLS FOR
SMART & SUSTAINABLE CITIES**

*SUSTAINABLE CITY BUSINESS
FORUM*

CAIRO, November 23, 2017

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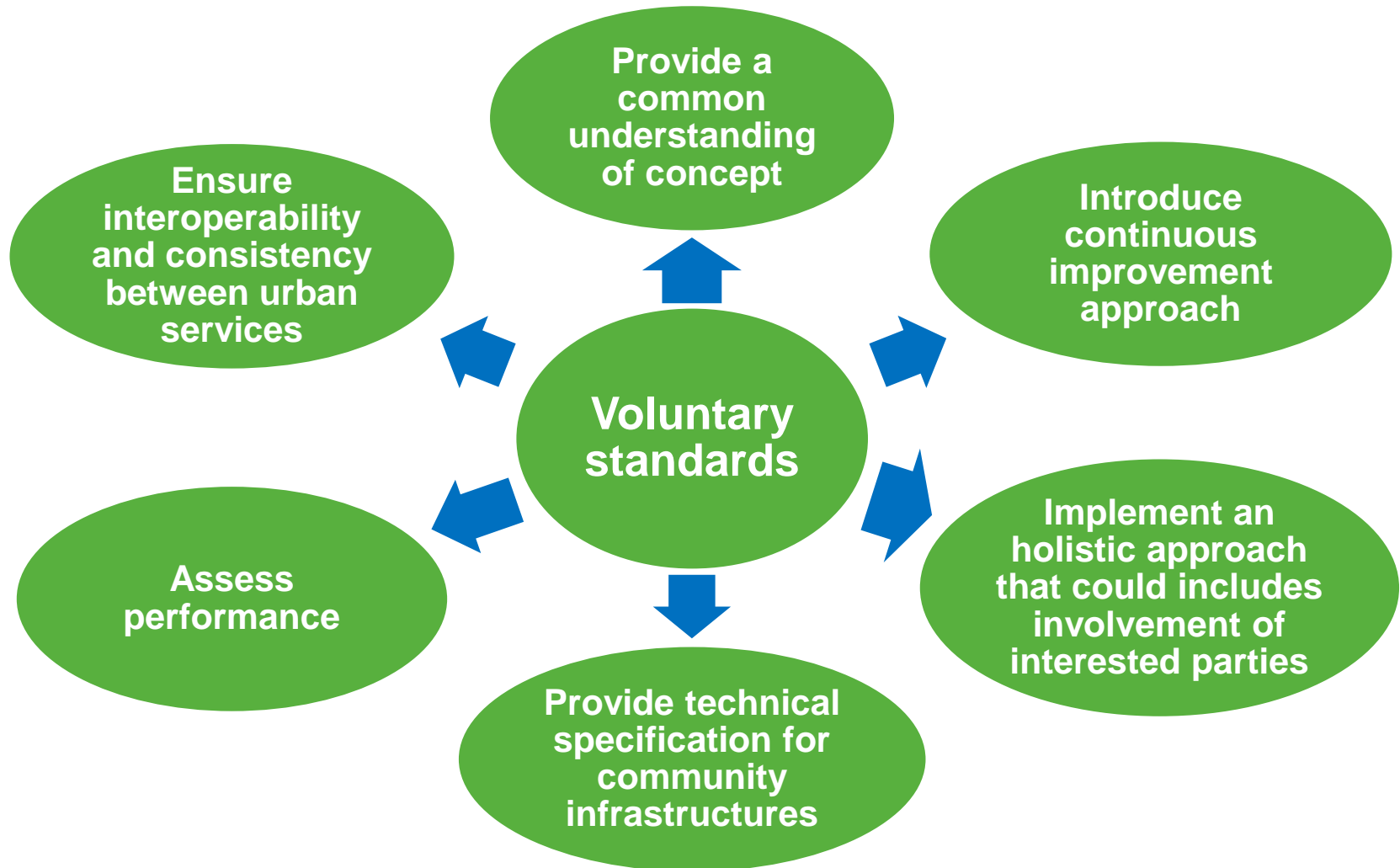
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International
Organization for
Standardization

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STANDARDIZATION

WHERE STANDARDS MIGHT BE RELEVANT TO ADDRESS CITY NEEDS ?

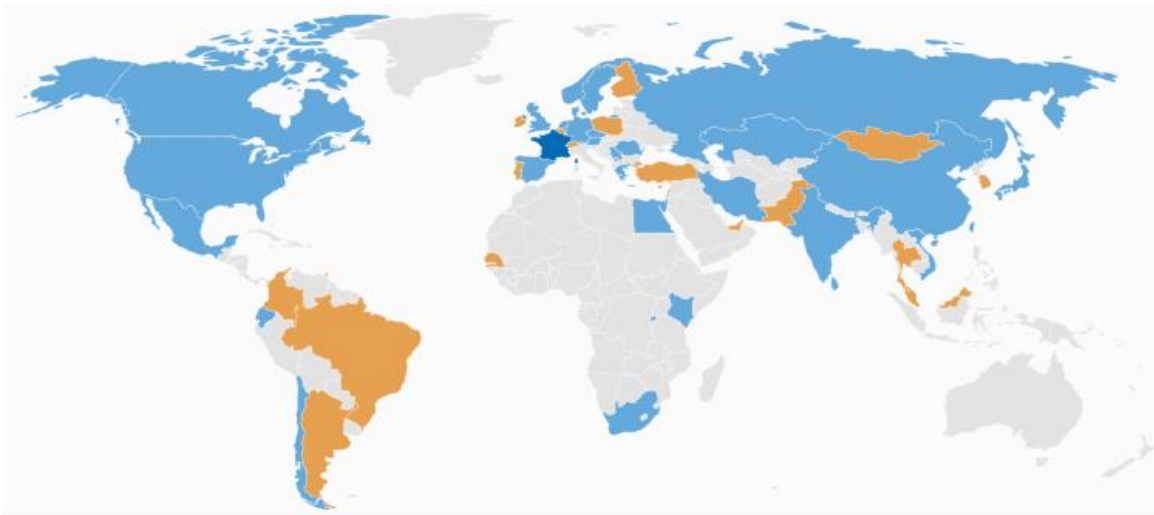


WHERE ARE THEY PRODUCED ?

ISO/TC 268 SUSTAINABLE CITIES AND COMMUNITIES

Standardization in the field of Sustainable Cities and Communities will include the development of requirements, frameworks, guidance and supporting techniques and tools related to the achievement of sustainable development considering smartness and resilience, to help all Cities and Communities and their interested parties in both rural and urban areas become more sustainable.

Note: TC 268 will contribute to the UN Sustainable Development Goals through its standardization work.



Participating countries: **33**
Observing countries: **23**

The proposed series of International Standards will encourage the **development and implementation of holistic and integrated approaches to sustainable development and sustainability.**

Chairman: Dr. B. Gindroz
Secretary: AFNOR ; Mr. E. Cailleau
Establishment: 2012

ISO 37101 SPECIFICITIES

- **ISO 37101 requires :**
 - a strong **commitment** from community leadership,
 - an appropriate **involvement of interested parties**.
- **ISO 37101 describes the different steps for implementing and maintain the management system within the community.**
- **ISO 37101 provides:**
 - **6 Purposes of sustainability** that support communities to define their sustainable development contribution and vision :

attractiveness

preservation
of the
environment

social
cohesion

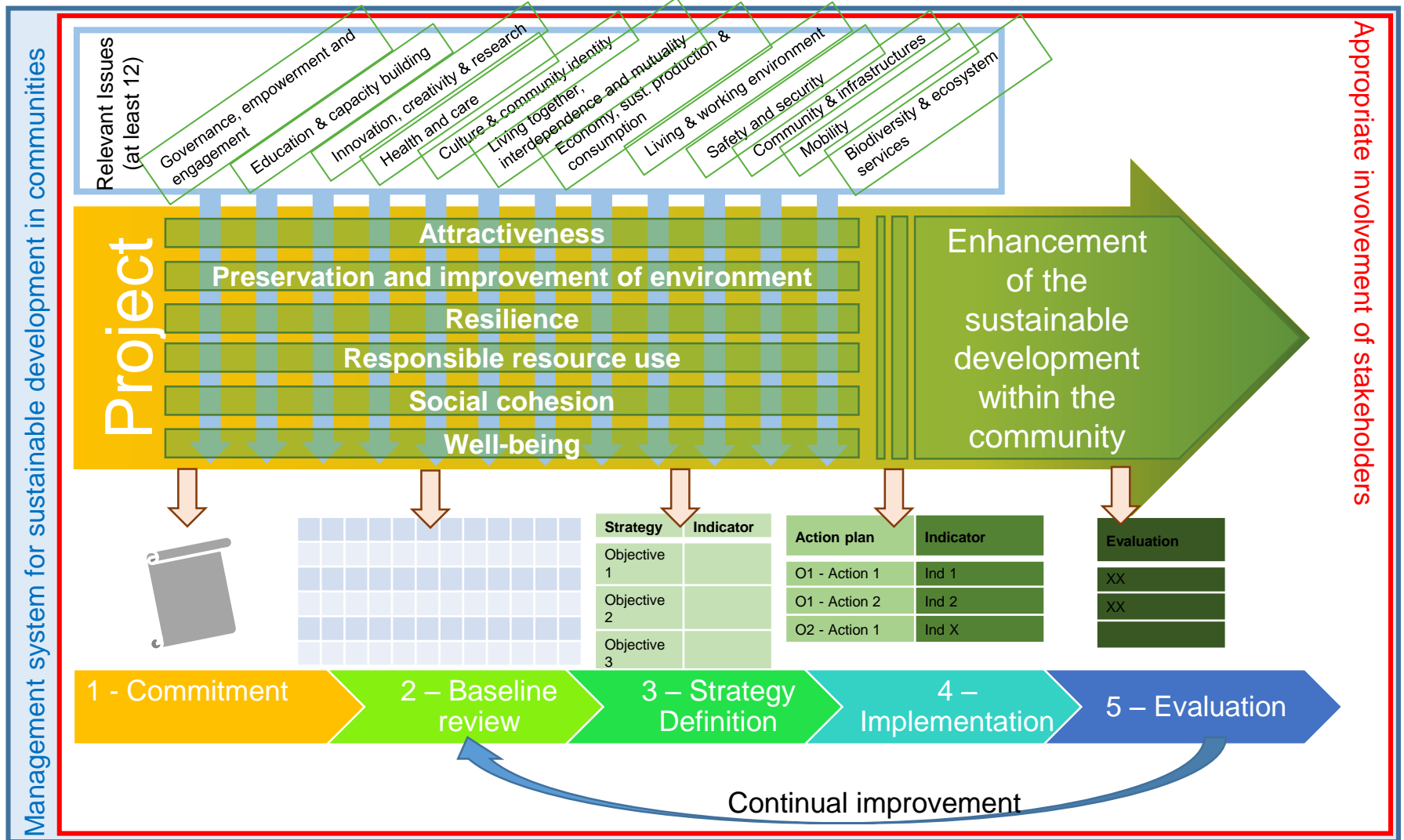
well being

responsible
use of
resources

resilience

- **12 Sustainability issues** such as Education, Health or Mobility that could be understood as urban policies and that fit with communities areas of actions.

ISO 37101 IN PRACTICE



ISO 37101 BENEFITS

Sustainability within the Community

- Help to **build consensus and establish strategy**
- **Improve the sustainability** of strategies, programmes, projects, plans and services without prescribing any solution
- Foster synergies between several actors through a **holistic approach**

Organizational

- **Flexible framework** consistent with sustainable policies already launched by cities and communities
- **Robust methodology** based on continuous improvement
- Usable by **various** kinds of communities

International recognition

- International Standard
- **Consistent with UN SDG** and could support the **New Urban Agenda**
- Implementation of ISO 37101 could be **certified and assessed**

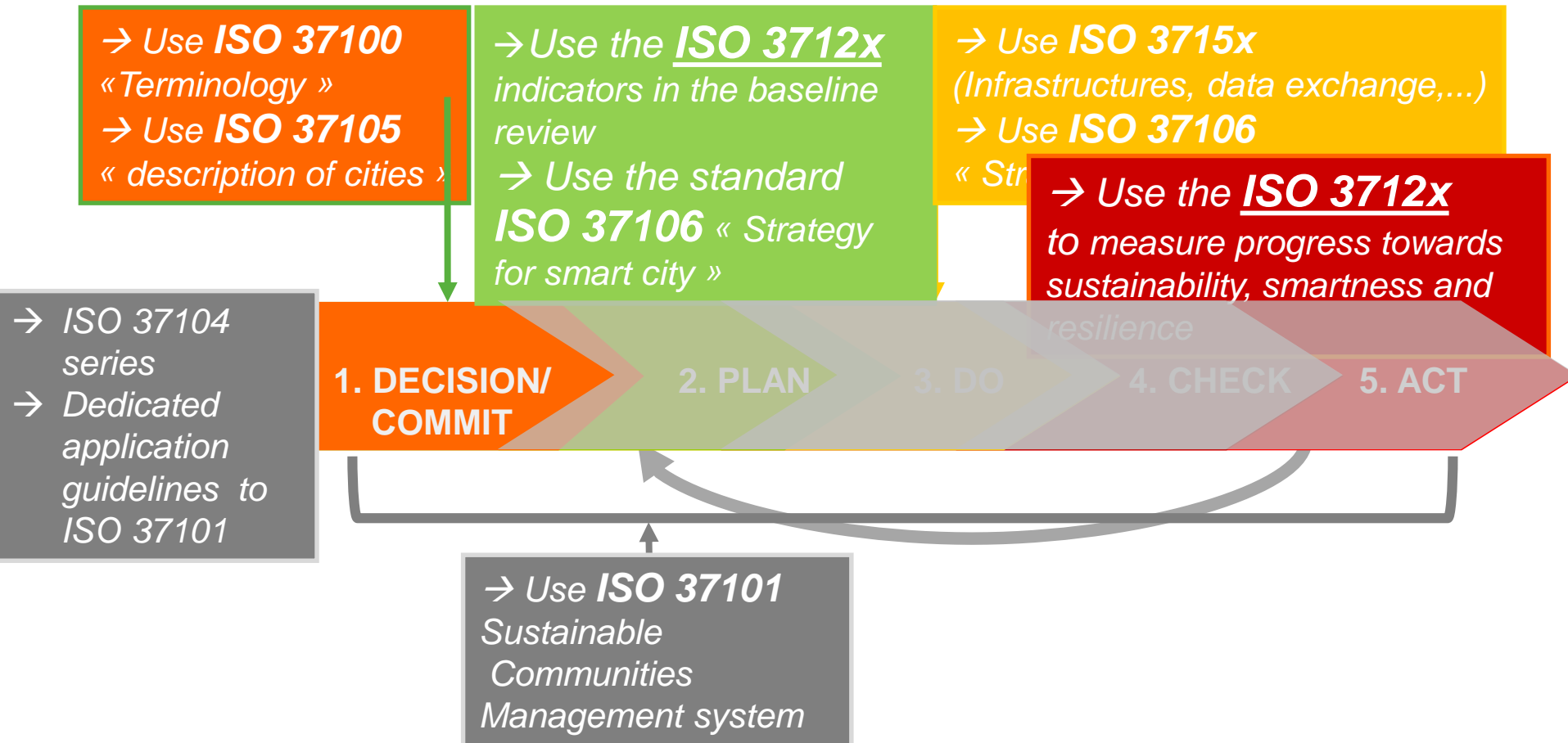
Implementation and experimentation :

- International Standardized Sustainable City Club Launching Ceremony (ISSCC) led by Hangzhou :
 - Launching Ceremony held in Hangzhou on June 30th 2017
 - Objective : 30 Cities members worldwide by end 2018
 - To be presented during ISO – IEC – ITU event to be held this week
- Experimentation to be launched in France

Consistent supportive tools that can support the implementation of ISO 37101 for specific kind of communities

- Consistent with tools (standards) developed within ISO/TC 268 and others from dedicated sectors
- Practical guidance of ISO 37101
 - Cities guidance (ISO 37104) proposed jointly by China, France and Germany ; will be published by end of 2018
 - Business Districts, Port areas, Small communities, ...

ISO 371XX – MAPPING OF STANDARDS





**LA
NORMALISATION**

**UN CADRE
DE PROGRÈS
POUR TOUS**

**ENERGY MANAGEMENT IN
ORGANIZATIONS AND CITIES**

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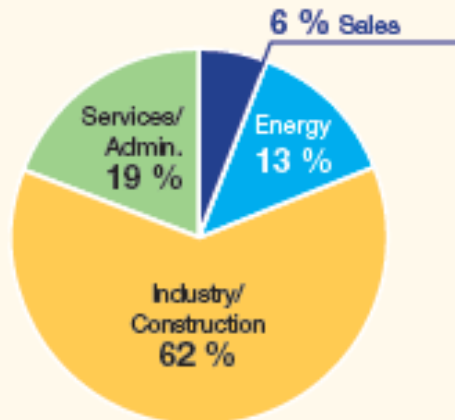
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ISO 50001 ENERGY MANAGEMENT IN ORGANISATIONS

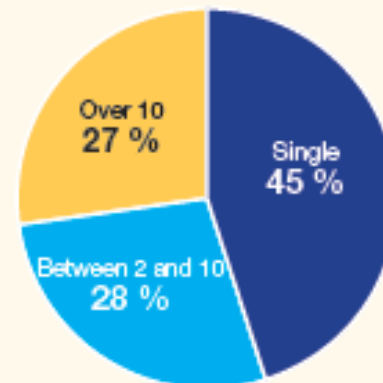
- Using energy efficiently helps organizations to save money, to conserve resources and tackle climate change. ISO 50001 supports organizations in all sectors to use energy more efficiently, through the development of an energy management system (EnMS).
- Standard published in 2011. Now under review. Publication planned to be in summer 2018.
- International survey on Energy management practices in ISO 50001:

Survey led by the Time to Be firm using online questionnaires from 2 June to 18 November 2016, and collected from 185 establishments awarded ISO 50001 certification by AFNOR Certification and GLT Cert in France, Germany and 12 other countries.

Business of the surveyed organizations



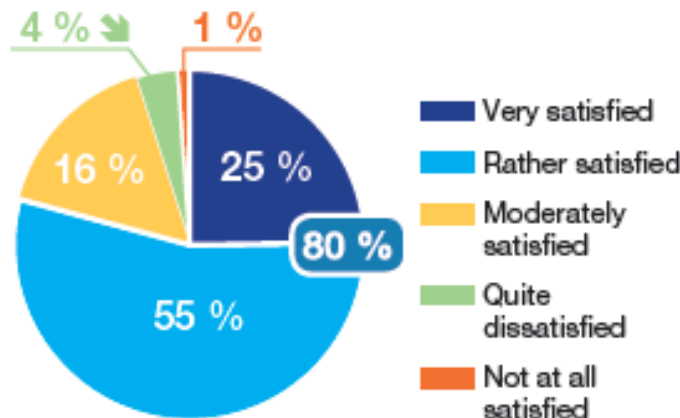
Number of sites worldwide



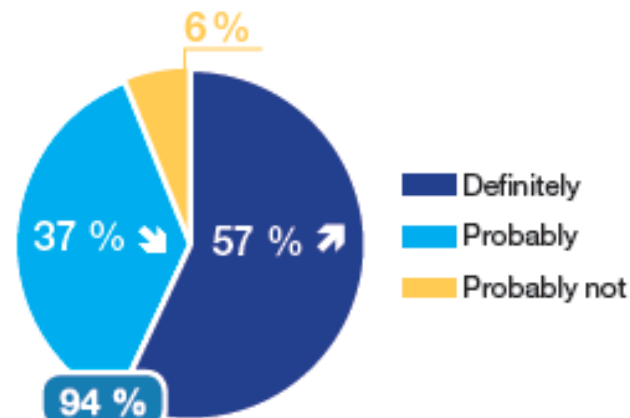
ENERGY MANAGEMENT IN ORGANISATIONS

- **Organizations are increasingly satisfied and likely to recommend the initiative.** Organizations with an energy management system and ISO 50001 are more satisfied than ever. Organizations are inclined to recommend the exercise to others (94%), more so if they have long certification which is a sign of quality.

Feeling about the approach



Potential for recommendation

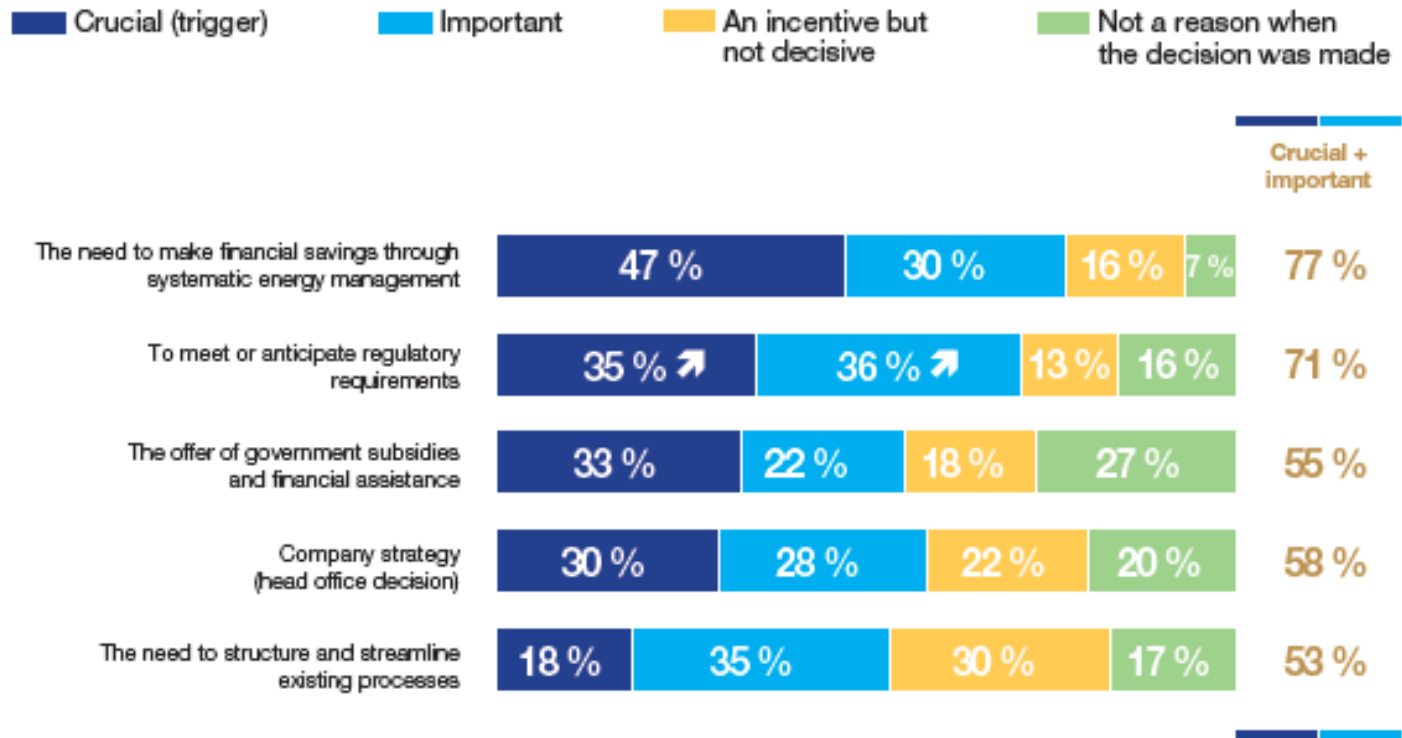


It's an invitation to embark on a journey of continual improvement with the enormous benefits offered by the initiative.



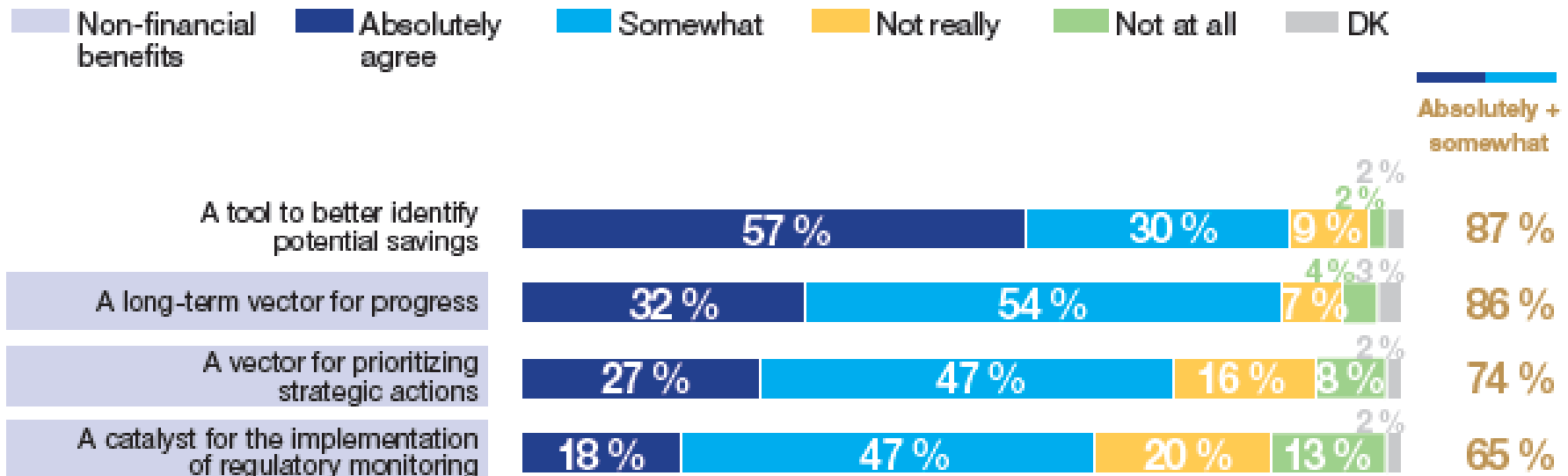
REPORTED MOTIVATIONS TO IMPLEMENT ISO 50001

➤ At first : save money and achieve regulatory compliance



THE TOP THREE BENEFITS INCLUDE ONE FINANCIAL BENEFIT AND TWO NON-FINANCIAL BENEFITS

1. A tool to better identify potential savings
2. A long-term for prioritizing strategic actions
3. A catalyst for the implementation of regulatory monitoring



ENERGY MANAGEMENT IN COMMUNITIES 1/2

Initially designed for companies, the scope of standard 50001 has been extended to certain cities which have decided to refer to them. Implementation starts on buildings then to an enlarged perimeter.

<https://www.afnor.org/actualites/collectivites-locales-essayiez-liso-50001/>

Saint Raphaël (South of France – French riviera)

- First community of France certified AFAQ ISO 50001 in 2013
- The perimeter of the certification covers six poles,
- responsible of 70% of energy consumption: public lighting,
- City Hall, cultural center, multisport and aquatic Stadiums
- and Convention Center.



ENERGY MANAGEMENT IN COMMUNITIES 2/2



Tours and its community of agglomeration (Center of France – pays de la Loire)

- Certified in June 2016
- The perimeter of the certification covers energy management of ten communal and community heritage buildings, with the sewage treatment plant, the public lighting of towers, and the tower (s) domestic garbage truck fleet

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THANKS !

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