



International  
Organization for  
Standardization



# Unlocking ambition: How non-party stakeholders are contributing to the low carbon transition at COP22

CDP, ISO, Climate-KIC

12<sup>th</sup> November 2016

11:30 – 13:00



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- Moderator: Frances Way, Chief Operating Officer, CDP
- Keynote: James Grabert, Director of Sustainable Development Mechanisms, UNFCCC

Panel:

- Ian Short, Interim Chief Executive Officer, Climate-KIC
- Romain Poivet, GHG Program Manager, ADEME
- Tom Baumann, Technical Program Manager, ISO
- Javier Torres, Advisor for Sustainable Development and Climate Change, EDF
- Jan Rabe, Director of Sustainability, Siemens



# Unlocking ambition:

## How non-party stakeholders are contributing to the low carbon transition



Climate-KIC is supported by the  
EIT, a body of the European Union

Ian Short - CEO

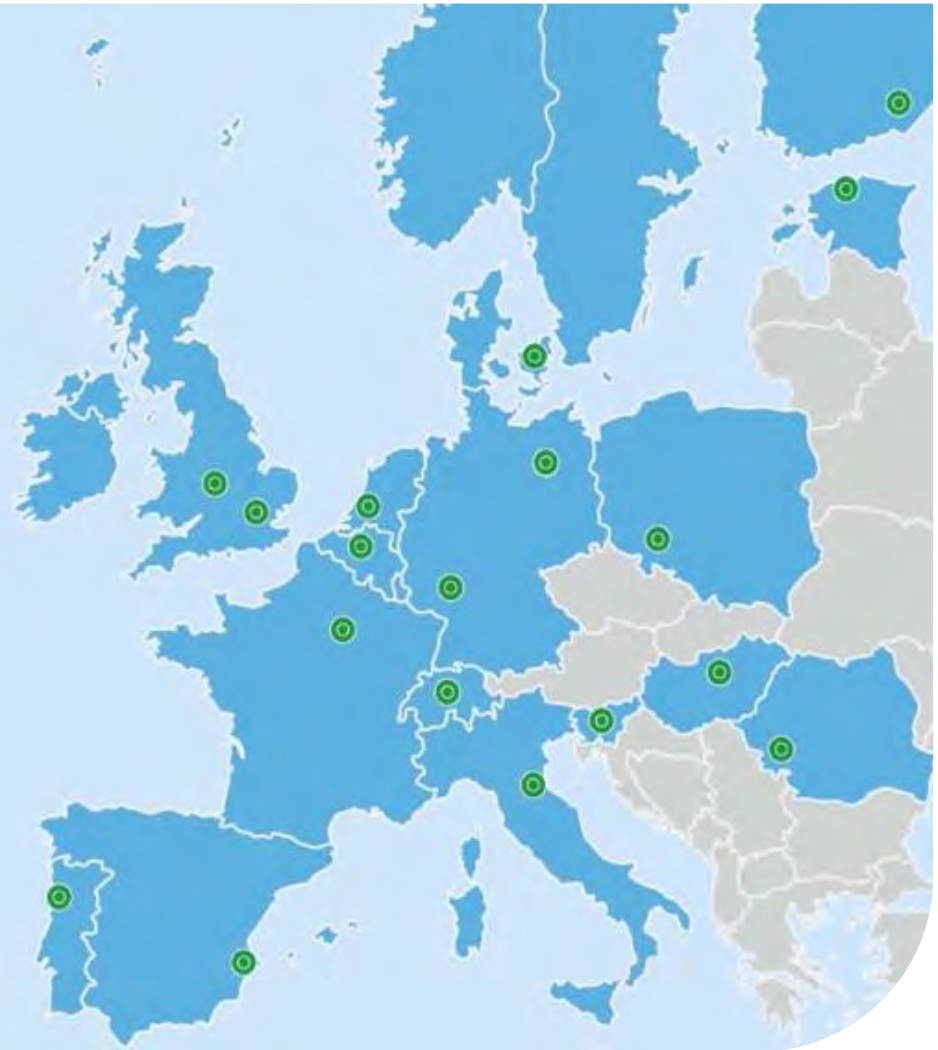




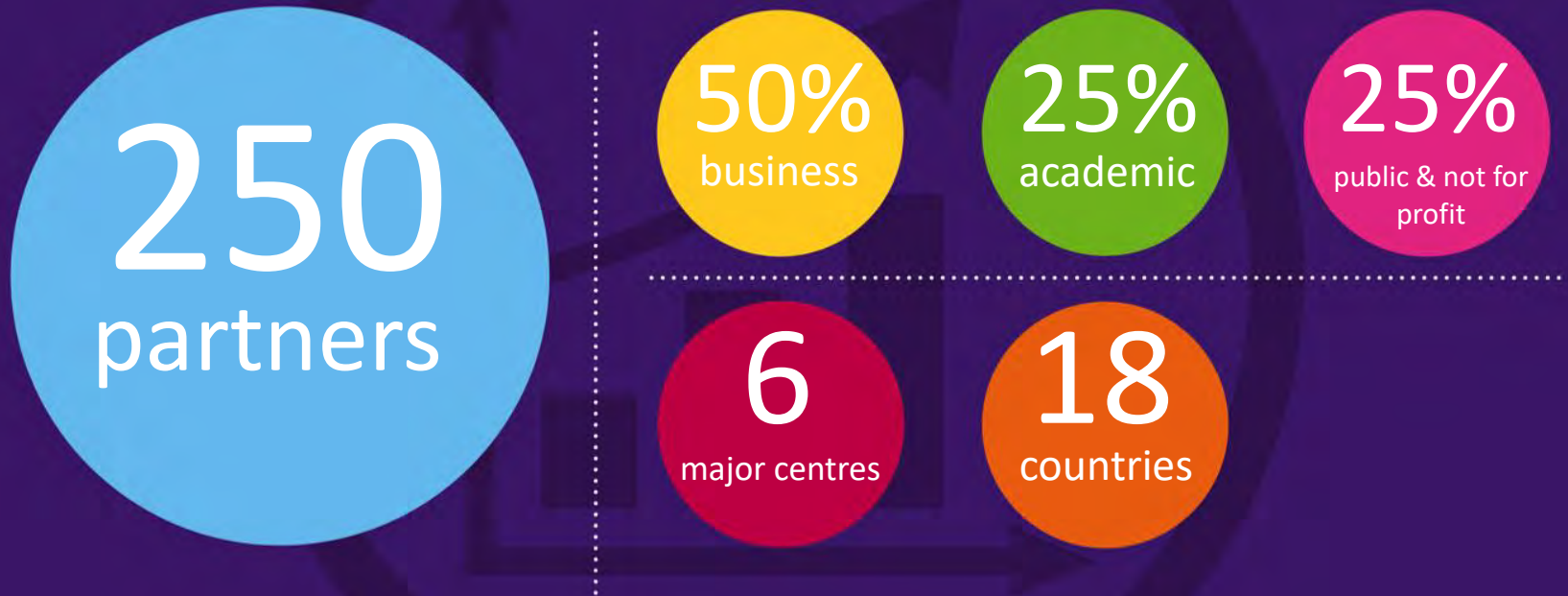
## Mission

We bring together,  
inspire and empower a  
dynamic community to  
build a net zero carbon  
economy and climate  
resilient society

# Where we operate



# Our partner community





# Our partners



Imperial College  
London



Universiteit Utrecht



**TNO** innovation  
for life



**TU Delft** Delft  
University of  
Technology



**Deltares**  
Enabling Delta Life



**IVACE**  
INSTITUTO VALENCIANO DE  
COMPETITIVIDAD EMPRESARIAL



**UPMC**  
SORBONNE UNIVERSITÉS

UNIVERSITY OF  
COPENHAGEN



UNIVERSITÉ DE  
VERSAILLES  
SAINT-QUENTIN-EN-YVELINES

**JÜLICH**  
FORSCHUNGSZENTRUM



**DTU** Danmarks  
Tekniske  
Universitet

**GFZ**  
Helmholtz Centre  
POTSDAM



**WAGENINGEN UR**  
For quality of life

**Birmingham City Council**

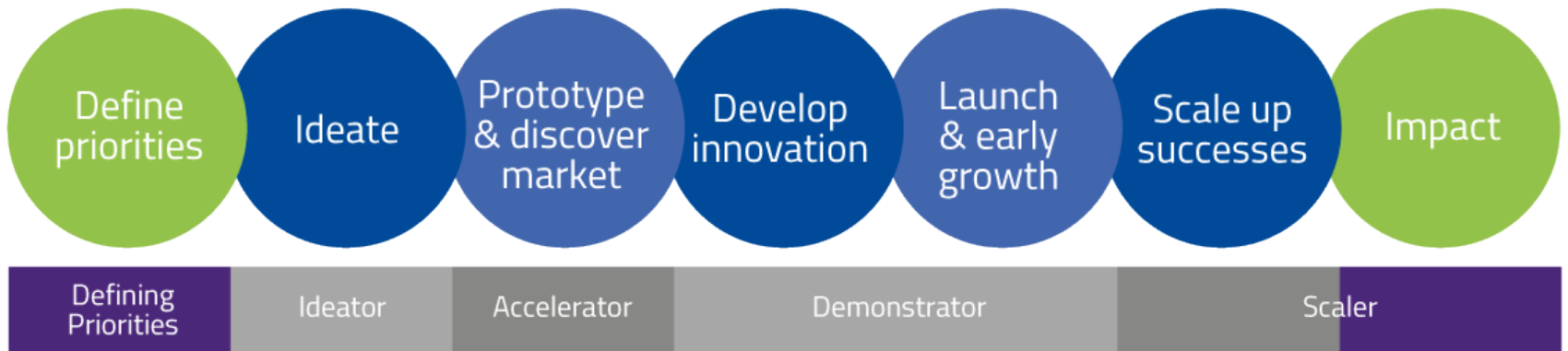
**BAYER** Bayer Technology Services



# What we do



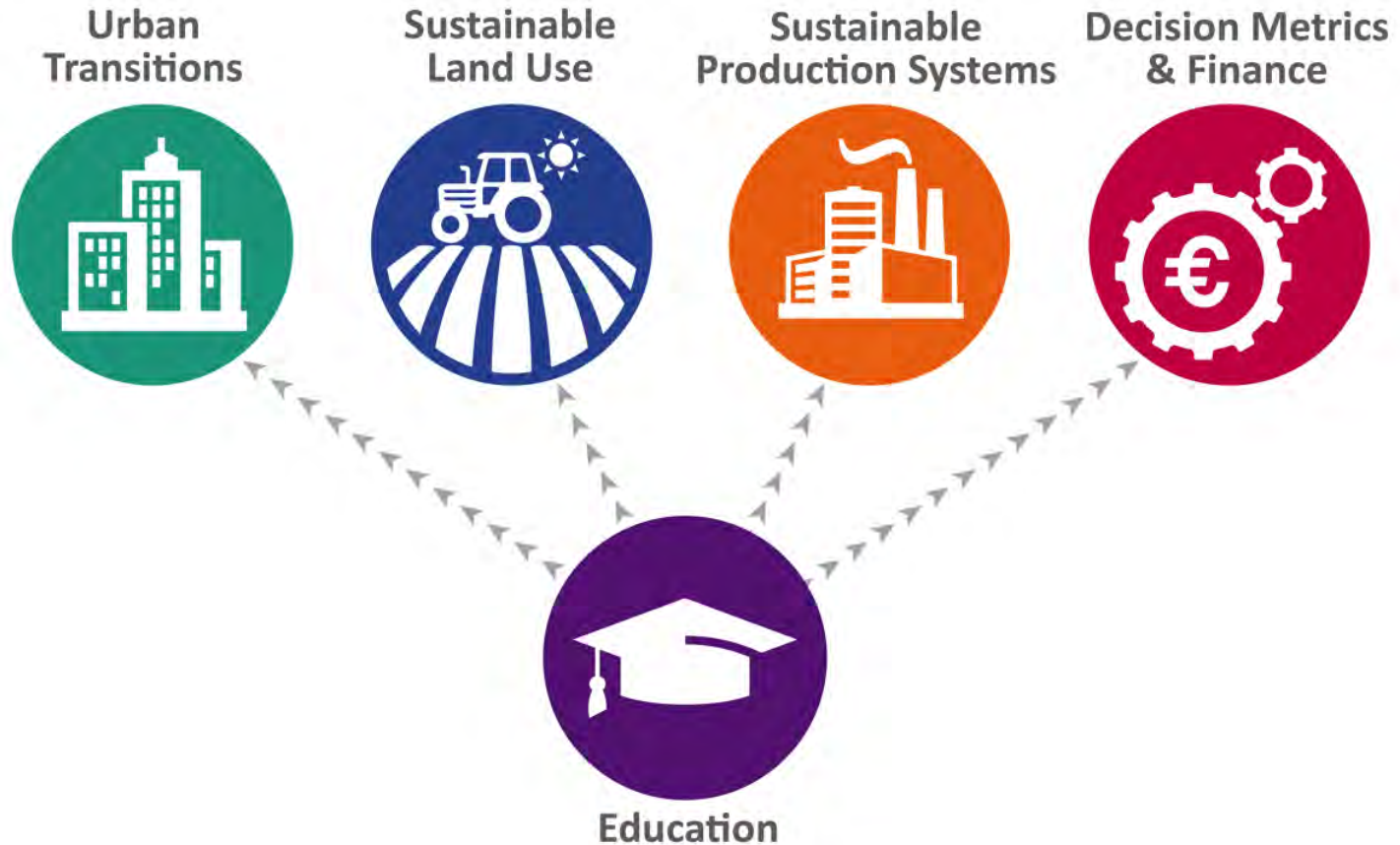
## Climate-KIC Innovation Framework



## Climate-KIC Programmes



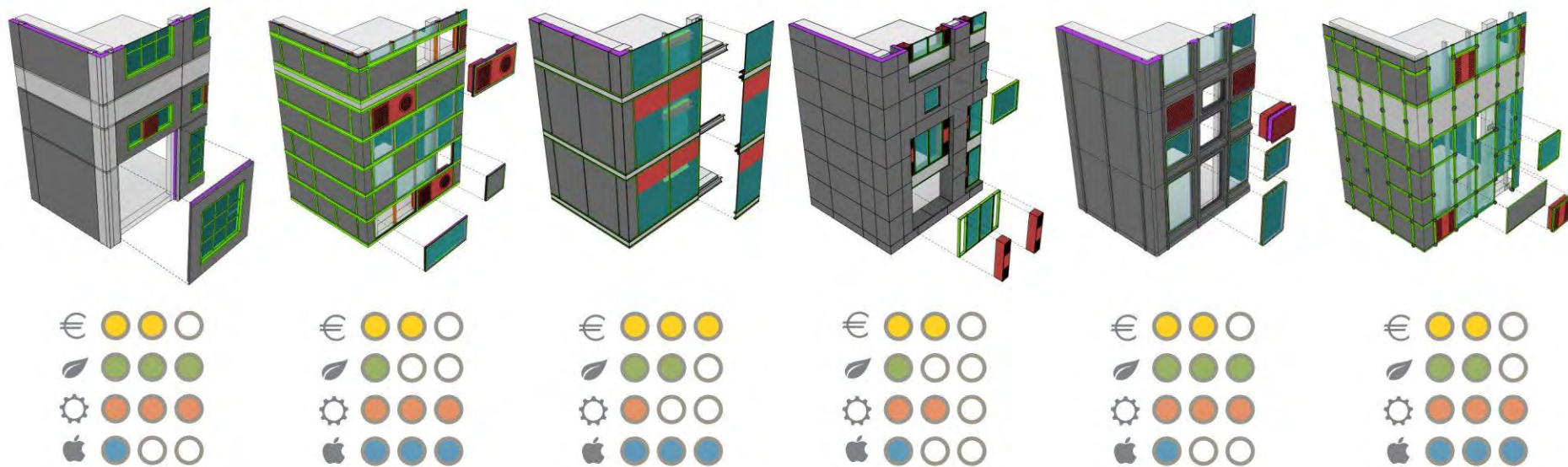
# Where we focus



# Example 1: Smart Sustainable Districts



# Example 2: Façade leasing





## Example 3: OASIS+



# OASIS+

Open access catastrophe modelling  
driving adaptation to enable resilience  
in an uncertain future







[www.climate-kic.org](http://www.climate-kic.org)



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**Leading global  
collaboration**  
in climate change standards



## **How ISO Standards Help**

UNFCCC COP22 Marrakech, November 12, 2016

Tom Baumann, International Chair ISO TC207 SC7



# Popular ISO Standards

- ISO 9001 Quality management
- ISO 14001 Environmental management
- ISO 50001 Energy management
- ISO 26000 Social responsibility
- ISO 31000 Risk management
- ISO 22000 Food safety management

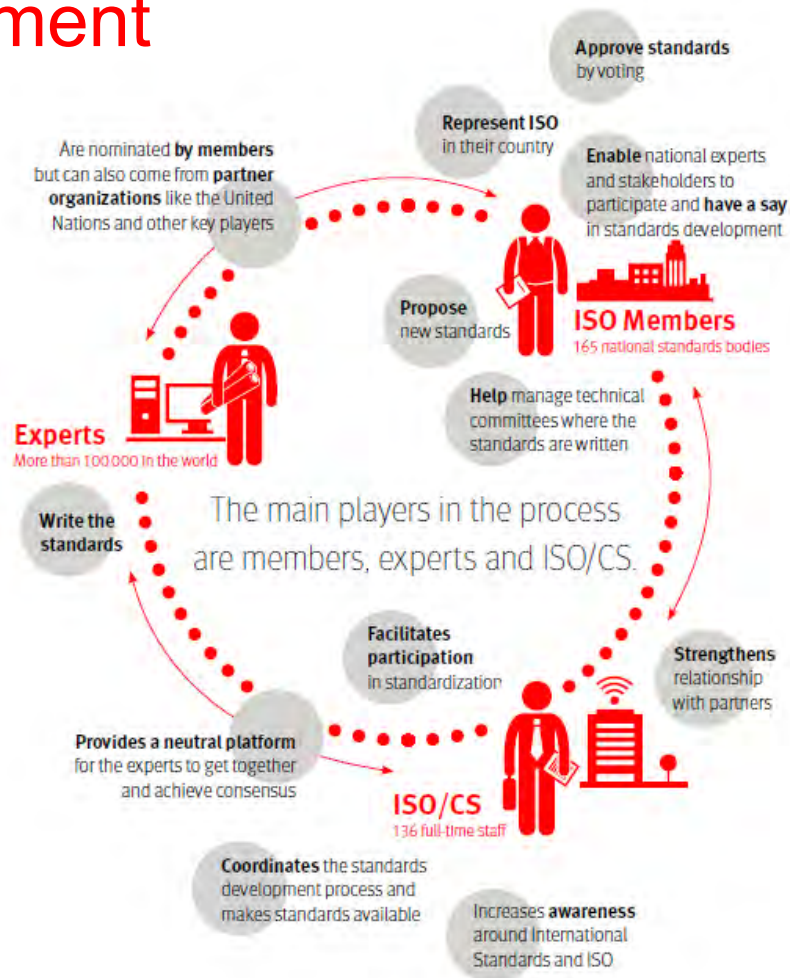
Over  
**1,000,000**  
organizations  
certified to  
ISO 9001 or  
ISO 14001





# ISO Standards Development

- 100,000 experts
- 1500 standards in 2015
- Standard every 6 hours
  
- Double-consensus model
- Multi-stakeholder
- Global membership (mostly developing countries ~ 3/4)



# ISO in Figures (2015)

## MEETINGS

**2 468** technical meetings organized in 2015

**189** meetings of technical committees

**445** meetings of subcommittees

**1 834** meetings of working groups or ad hoc groups



**23**

technical meetings were in progress, on average, each working day of the year somewhere in the world

## TECHNICAL COMMITTEE STRUCTURE

**238** technical committees

**521** subcommittees

**2 625** working groups

**151** ad hoc study groups

**3 535**  
technical bodies

**702** international organizations were in liaison with ISO technical committees and subcommittees



# ISO supports Trade and Sustainability

- ISO standards are policy-neutral and program-neutral
- ISO standards are harmonized best practices to facilitate international compatibility and comparability
- Voluntary use by organizations
- Not mandatory compliance unless the standard is incorporated into legislation









# ISO TC207 SC7 Climate Change Standards

- 80 countries
- 20 liaisons, UNFCCC, CDP, WRI, Gold Standard, IETA, GHGMI
- Mitigation / MRV (ISO 14064/14065, ISO 14067)
- Adaptation (ISO 14090 WD)
- Framework for methodologies (ISO 14080 CD)
- Strategic roadmap for new standards, climate finance, vulnerability assessment, M&E





# ISO Climate Change Coordination Task Force

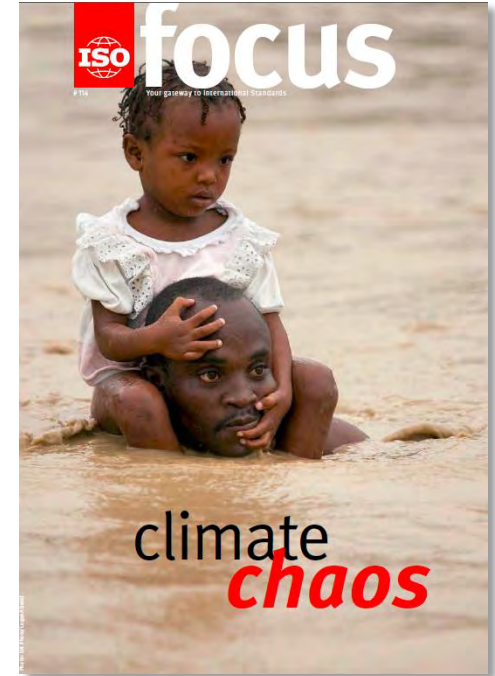
- New ISO guide on climate change for all ISO standards
- Coordination with ISO committees
- Communication with UNFCCC Secretariat and other climate standards bodies
- Review International Negotiations with UNFCCC Secretariat → ISO strategy
- Support uptake of ISO standards related to climate change





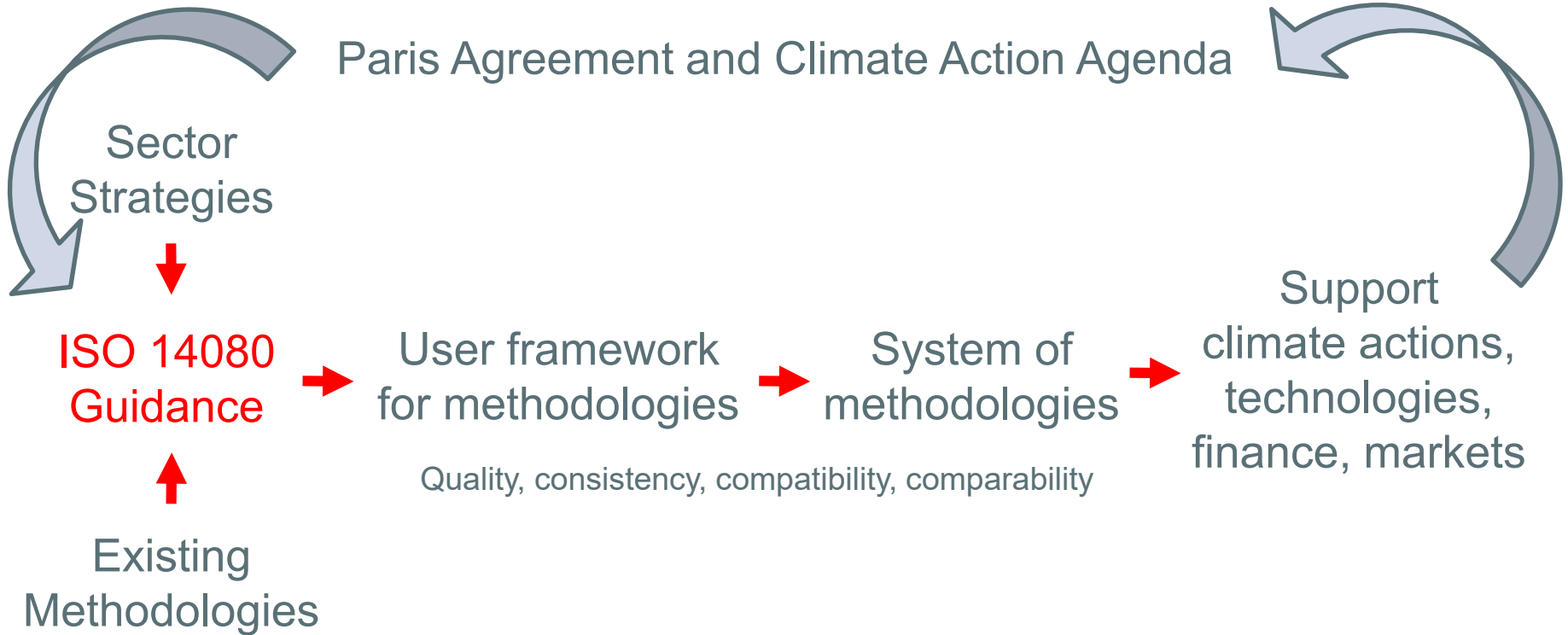
# ISO 14080 – New standard for climate action methodologies

- Guidance for users to create a framework that guides users to:
  - Develop new methodologies
  - Review/revise existing methodologies
  - Maintain quality of methodologies, and the system for methodologies
- Improves consistency and compatibility methodology-to-methodology, and among programs
- Encompasses mitigation, adaptation and other related issues for sustainability.





# ISO 14080 supporting new climate action methodologies and framework for efficacy







# Example: ISO 14080 tested with ACT Initiative

- ACT (Assessing Low Carbon Transition) Pilot
- ACT methodology development process followed guidance in ISO 14080
  - Principles, objective/goal, intended users
  - Quality assessment checks
  - Rationale and justification of review existing methodologies and new synthesized method.
  - User guidance, scoring and verification



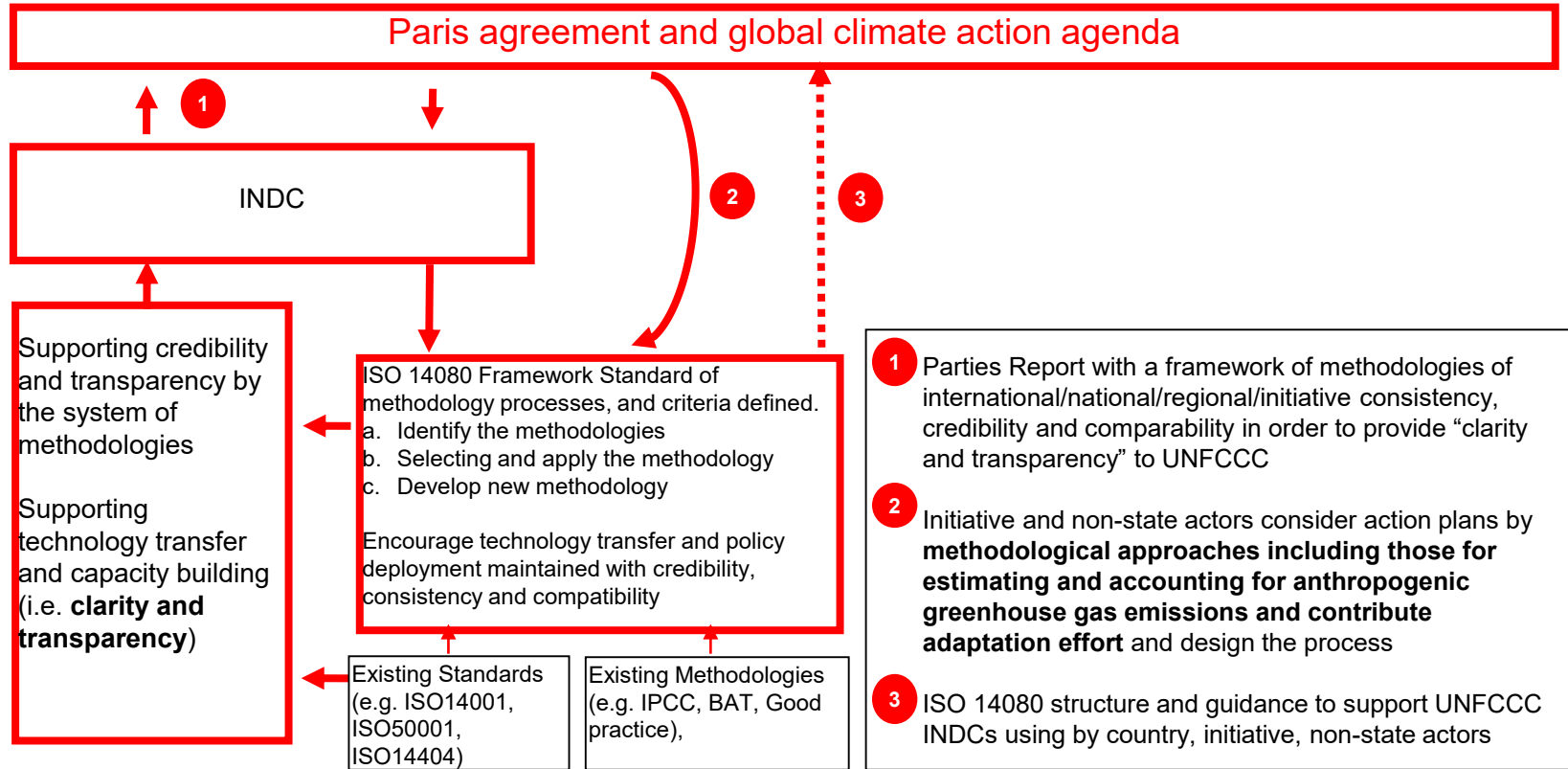


# How ISO Standards Help

- Supports efficacy of climate actions with climate goals and SDGs
- Consistency and compatibility of climate action MRV
- Standards system supports
  - Collaboration and consensus
  - Finance, innovation and trade



# Policy and Framework of Methodology Contributes to Paris Agreement



# ISO 50001 energy management supports GHG emission reductions

ISO 50001 certification... will help deliver on our objective to be a responsible energy user that **helps create a low-carbon future.**

ArcelorMittal Dofasco

Angela Pappin, Vice President Technology



Better energy management will help us **reach 25% in energy savings** over the next 5 years.

Intertape Polymer Group

Doug Stout, Textile Manufacturing Manager

...ISO 50001 helped **reduce our CO<sub>2</sub> emissions by 40% and energy costs by 36%.**"

Abbott Diagnostics, Ireland

Peter Moran, Energy Manager





# Energy Management Leadership Awards ISO 50001 Benefits Around the World

- In 2016, **35 businesses across 20 countries** published ISO 50001 certification case studies and won awards.
- View case studies and apply for 2017 awards program! [www.cleanenergyministerial.org/EMAwards](http://www.cleanenergyministerial.org/EMAwards)



## 2016 participants

Reported savings (annual):

**Energy cost savings** of up to \$13.5 million USD.

**GGE reductions** of up to 238,000 tonnes of CO<sub>2</sub>—equivalent to taking 51,000 passenger vehicles off the road per year.





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[www.linkedin.com/company/iso-international-organization-for-standardization](http://www.linkedin.com/company/iso-international-organization-for-standardization)



## ISO Climate Change Standards

Website: [committee.iso.org/tc207sc7](http://committee.iso.org/tc207sc7)

Chair: [tom.baumann@ghginstitute.org](mailto:tom.baumann@ghginstitute.org)



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# Today's Low Carbon Transformation

Jan Rabe, Director Sustainability, Siemens AG  
November 12, 2016 | Marrakesh, Morocco

• [siemens.com](http://siemens.com)





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