



Premium environmental management



EU Eco-Management and Audit Scheme





What is EMAS?

Voluntary environmental management instrument designed by the European Union

Aim

Continuous improvements in the environmental performance of companies and other organisations

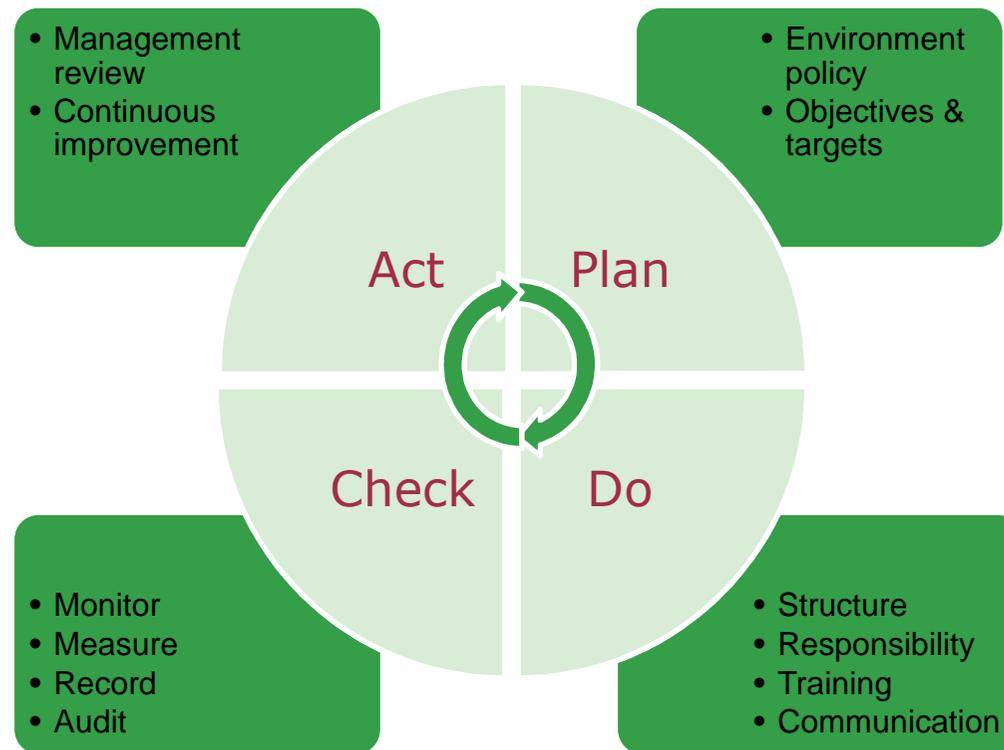
Means

Management system allowing organisations to measure, evaluate, report and improve environmental performance

Outcomes

Efficiency improvements and better management of environmental issues and credible information on these issues

EMAS follows a systematic 'Plan-Do-Check-Act' approach





What are the core elements of EMAS?

EMAS

Premium benchmark for environmental management

Performance

Carrying out actions to achieve and evaluate environmental policy targets

Credibility

Third party verification by independent environmental verifiers guarantees the value disclosed information

Transparency

Environmental statements provide public information about the environmental performance of the organisation



Who can participate?

I Organisations operating in **all economic sectors**

II Organisations with sites **worldwide***

* It is in the realm of EU Member States to allow registration of organisations located outside EU, EEA and Accession Countries. Please visit www.emas.eu for further information.

What are the steps to EMAS registration?

- (1) **Conduct an environmental review**
- (2) **Adopt an environmental policy**
- (3) **Develop an environmental programme**
- (4) **Establish an Environmental Management System**

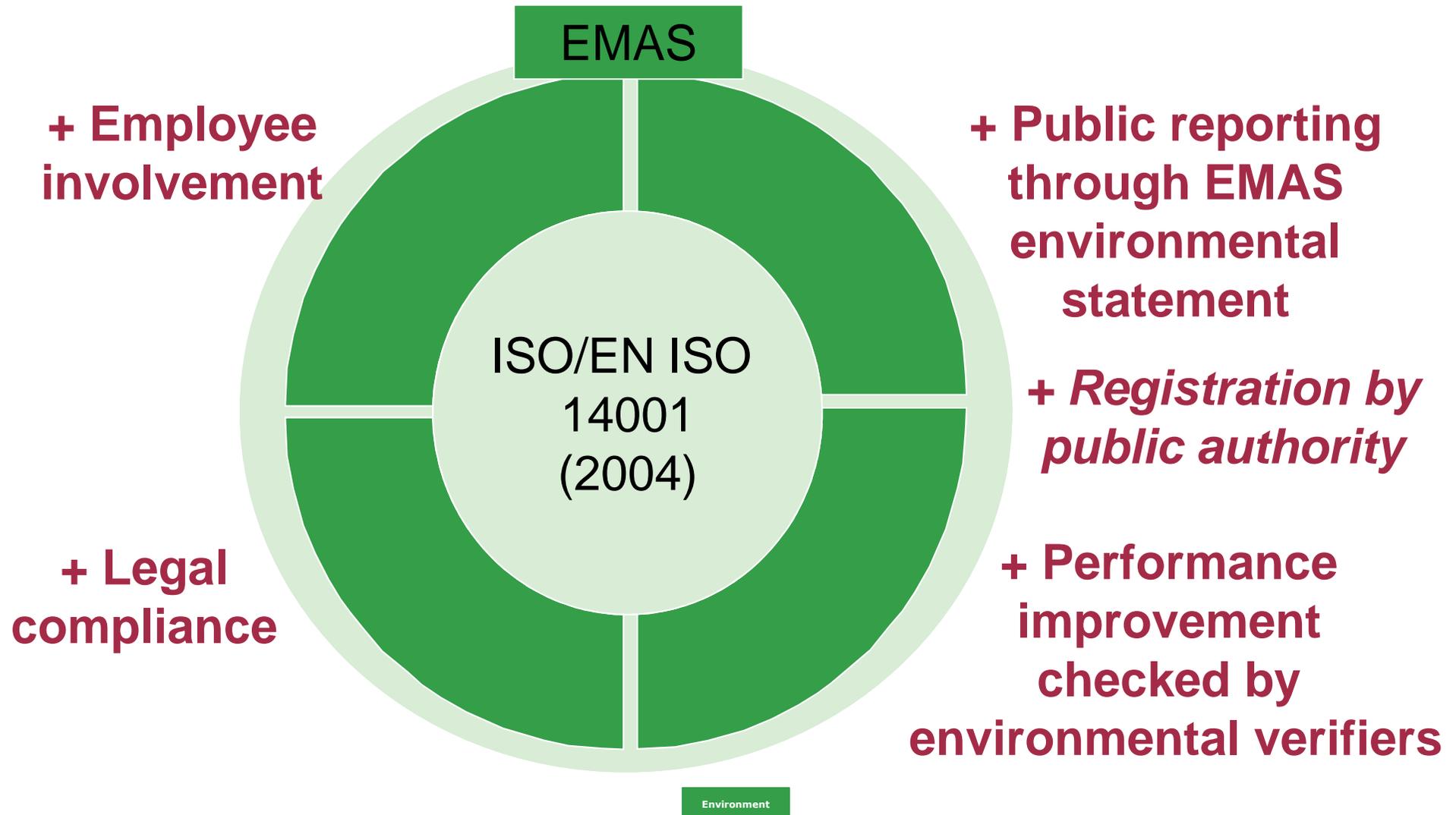
What are the steps to EMAS registration?

- (5) Carry out an internal environmental audit
- (6) Prepare an environmental statement
- (7) Independent verification and validation by an environmental verifier
- (8) Registration with the Competent Body and use of EMAS logo

What are benefits of an EMAS registration?

- (1) **Cost reductions:** more efficient resource use (e.g. energy, water)
- (2) **Risk minimisation:** possibilities to reduce associated risk levels by assessing operational procedures & legal compliance
- (3) **Regulatory compliance:** greater awareness and knowledge of regulatory requirements
- (4) **Regulatory relief:** regulators may choose to relax regulatory requirements
- (5) **Improved relations with internal stakeholders:** employee involvement and training under EMAS can lead to improved employee morale
- (6) **Improved relations with external stakeholders:** EMAS registration of a site in close proximity to residents can enhance credibility and transparency
- (7) **Competitive advantage:** EMAS registration can lead to improved market access and increased market share

EMAS goes further than ISO 14001





In the spotlight: six environmental core indicators

Environmental key area	Input/Impact
Energy efficiency	Total direct energy use: <i>total annual energy consumption, expressed in MWh or GJ</i> Total renewable energy use: <i>percentage of total annual consumption of energy (electricity and heat) produced by the organisation from renewable energy sources</i>
Material efficiency	Annual mass-flow of different materials used (excluding energy carriers and water): <i>in tonnes</i>
Water	Total annual water consumption: <i>in m³</i>
Waste	Total annual generation of waste: <i>in tonnes</i> Total annual generation of hazardous waste: <i>in kilograms or tonnes</i>
Biodiversity	Use of land: <i>in m² of built-up area</i>
Emissions	Total annual emission of greenhouse gases (incl. at least emissions of CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs and SF ₆): <i>in tonnes of CO₂ equivalent</i> Total annual air emission (incl. at least emissions of SO ₂ , NO _x and PM): <i>in kilograms or tonnes</i>

Indicators are included in the environmental statement and help adequately measure and monitor performance



In the spotlight: EMAS logo



The logo is a quality mark and can only be used by registered organisations

EMAS benefits – publications



**3x3
GOOD REASONS
FOR EMAS**

Improve your environmental performance with the premium standard in environmental management

1 2 3
4 5 6
7 8 9

ENVIRONMENT
PERFORMANCE
CREDIBILITY
TRANSPARENCY
EMAS



(EN) February 2011 - First edition

EMAS - Factsheet

EMAS Benefits

EMAS is the perfect tool for organisations to improve their environmental and financial performance. This factsheet is for all types of organisations – from micro-organisations and small and medium-sized enterprises (SMEs) to multinational corporations and public bodies.

Key benefits include:

- 1) Enhanced environmental and financial performance through a systematic framework;
- 2) Enhanced risk and opportunity management;
- 3) Enhanced credibility, transparency and reputation; and
- 4) Enhanced employee empowerment and motivation.

Together these benefits lead to the three distinguishing features of EMAS: **Enhanced Performance - Credibility - Transparency**

1) Enhanced environmental and financial performance through a systematic framework

EMAS involves several implementation steps that provide organisations with a systematic and comprehensive yet practical framework to measure, evaluate and improve their environmental performance. For example, the six environmental key indicators focusing on resource efficiency help adequately document environmental performance and create multi-annual comparability within and between organisations.

Environmental management was not new but it became better structured through EMAS. (Private small enterprises, Germany)

In fact, the financial benefits most frequently cited by respondents of the 'Study on the Costs and Benefits of EMAS to Registered Organisations' were linked to reductions in energy use and more efficient resource use. Evidence was found that **annual energy savings allow to exceed the annual costs of maintaining EMAS**. Although this may be particularly relevant for organisations in the resource-intensive manufacturing sector, it applies to all types of organisations – micro-organisations, SMEs, multinational corporations and public bodies.

[...] under EMAS we systematically reviewed all information on how much energy was used in which systems and had the opportunity to take measures to reduce hot spots of energy consumption. Energy demand (by production) fell from 2006 to 2009 by 2.5 percent of total energy consumption to 7.7 percent in five years. (Private medium-sized organisation, Germany)

Another positive impact identified was **waste management and cost reduction** through improved control of maintenance supplies.

The study can be downloaded at the [EMAS website](#).

The study was prepared by Milieu and Risk & Policy Institute.
All trademarks have been taken from the 'Study on the costs and benefits of EMAS to registered organisations'.

EMAS
environment

www.ec.europa.eu/environment/emas

What are costs of an EMAS registration?

- (a) **Fixed costs:** assumed to be unrelated to staff numbers (e.g. registration fees, IT costs)
- (b) **External costs:** incurred by employing external consultancy to support EMAS implementation (e.g. employee training)
- (c) **Internal costs:** incurred by organisation staff to implement, administer and report on EMAS (e.g. internal audit)

Costs vary with the size and the sector of the organisation*

* For detailed information about the costs of EMAS implementation and financial incentives, please contact your national [Competent Body](#)

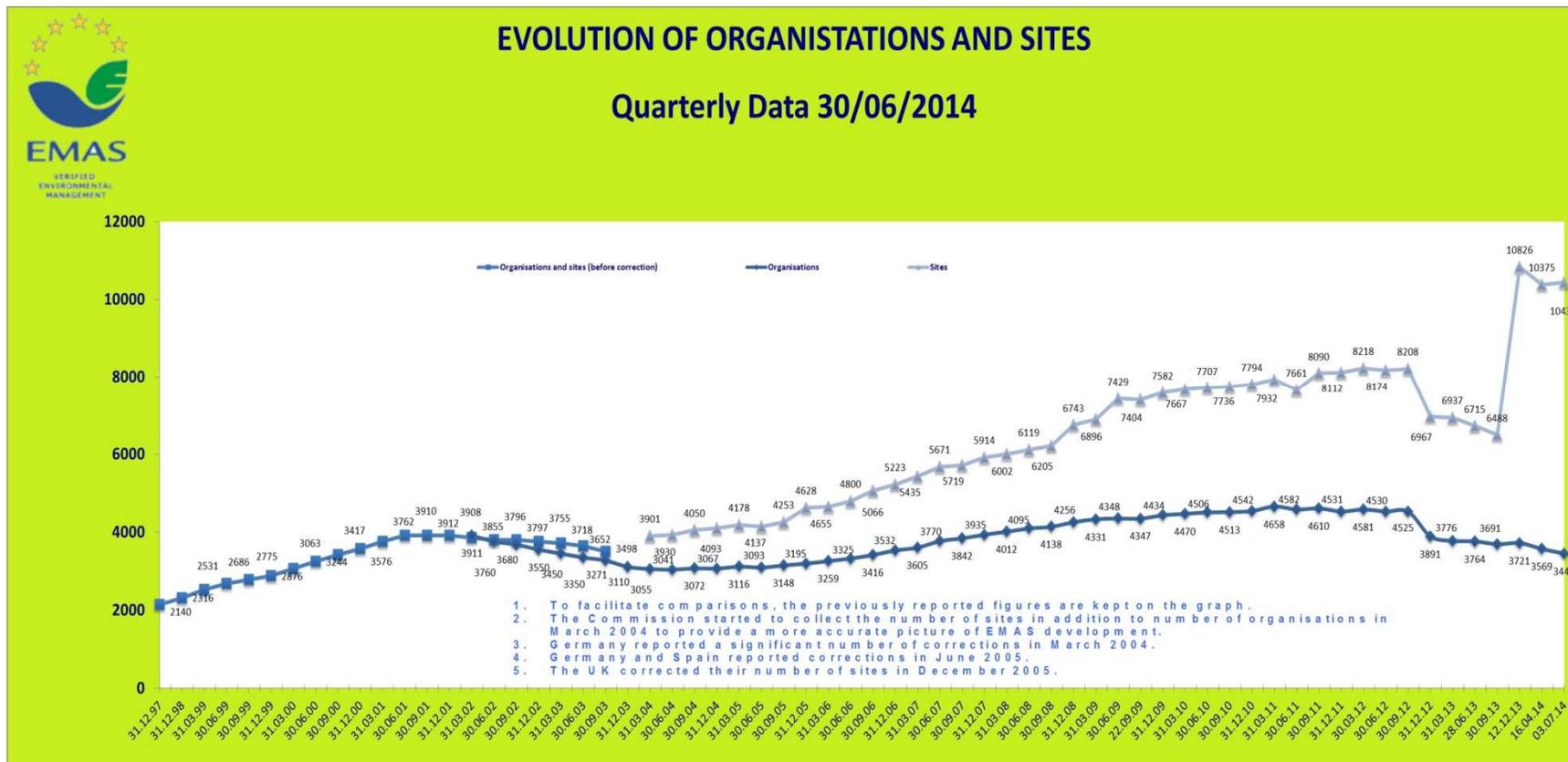


EMAS development

EMAS I	29 June 1993 1995	EMAS adopted by the European Council EMAS opens for participation by industrial companies
EMAS II	19 March 2001 27 April 2001	New Regulation adopted by the Council and the EP Entry into force of new <i>Regulation (EC)</i> <i>N°761/2001</i>
EMAS III	25 Nov 2009 11 Jan 2010	New Regulation adopted by the Council and the EP Entry into force of new <i>Regulation (EC)</i> <i>N°1221/2009</i>



EMAS statistics



www.emas-register.eu



Further information on the official EMAS website

The screenshot shows the EMAS website home page with a navigation menu at the top (Home, Who's who, Policies, Integration, Funding, Law, Resources, News & Developments). The main content area includes a 'Welcome to EMAS!' section, a 'What's new?' section with a date of 14 August 2013, and a 'Focus Points' section with links to Events, SME Toolkit, Register, EMAS Presentations, EMAS Newsletters, and Statistics. There are also sidebars for 'Home' and 'Useful links'.

The screenshot shows the EMAS Newsletter - Issue 03 / July 2013. It features the EMAS logo and the tagline 'Performance - Credibility - Transparency'. The newsletter content includes a welcome message to the EMAS Community, a link to an article about the connection between the American president and a five-star EMAS registered hotel, and a section titled 'Obama chooses EMAS hotel!' with a link to 'Find out more...'. There is also a section for 'Clean, Green and Serene: EMAS comes to the Caribbean' with another 'Find out more...' link.

The screenshot shows the 'EMAS in the tourism sector' brochure. It features the EMAS logo and the tagline 'Performance - Credibility - Transparency'. The brochure includes a section titled 'Why use EMAS in tourism?' with a list of five key benefits for tourism operators. The benefits are: 1. Be attractive, 2. Be profitable, 3. Be credible, 4. Be strategic, and 5. Be responsible. The brochure also includes a small image of a hotel building.

www.ec.europa.eu/environment/emas



Links

- European Union: <http://www.europa.eu>
- EMAS Register: www.emas-register.eu
- EMAS Easy:
http://ec.europa.eu/environment/emas/tools/emaseasy_en.htm
- European Portal for SMEs: www.ec.europa.eu/enterprise/sme/
- EU Ecolabel: www.ec.europa.eu/environment/ecolabel/
- Green Public Procurement (GPP):
www.ec.europa.eu/environment/gpp/index_en.htm
- Environmental Compliance Assistance Programme for SMEs (ECAP): www.ec.europa.eu/environment/sme/index_en.htm
- European Environment Agency: www.eea.europa.eu
- International Standard Organisation (ISO): www.iso.org



EMAS Helpdesk contact information

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The Helpdesk is operated by adelphi in cooperation with Arctic and 21 Solutions on behalf of the European Commission, Environment DG