

## What is ertemis?

The European Research and Transfer Network for Environmental Management Information Systems bundles expertise in the field of Corporate Environmental Management, hence facilitating a bi-directional knowledge transfer between practitioners and scientists.

ertemis integrates the disciplines of Information Systems, Business Administration, Environmental Management, Ecology, Economics and Computing Science. The network's objective is to support partners from industry in tackling new challenges of Environmental Management.

The participating higher education institutions provide the network with expert knowledge and state-of-the-art research results. Companies are invited to bring in their practical know-how on tools and methods of Environmental Management, on the latest environmental technologies or on the impact of recycling on company-internal operational processes. Our partners from industry contribute practical expertise on business processes and products in the field of Environmental Management. Thus, the network benefits from extensive first-hand knowledge on organization and process consulting.



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Interested?  
Get in touch with us at  
[info@ertemis.eu](mailto:info@ertemis.eu)

## Contact



Prof. Dr.-Ing. Jorge Marx Gómez  
Carl von Ossietzky University of Oldenburg  
Department of Computing Science  
Business Information Systems I / VLBA  
Ammerländer Heerstr. 114-118  
D-26129 Oldenburg

Phone: +49 441 / 798 - 44 70  
e-mail: [jorge.marx.gomez@uni-oldenburg.de](mailto:jorge.marx.gomez@uni-oldenburg.de)



Prof. Dr. Frank Teuteberg  
University of Osnabrück  
Institute of Information Management and Corporate Governance  
Accounting and Information Systems  
Katharinenstr. 1  
D-49069 Osnabrück

Phone: +49 541 / 969 - 49 61  
e-mail: [frank.teuteberg@uni-osnabrueck.de](mailto:frank.teuteberg@uni-osnabrueck.de)



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# ertemis

## Interdisciplinary Research and Competence Network for CEMIS 2.0





Besides satisfying stakeholder interests, it is the prime objective of sustainable development to establish a harmonic balance of economy and ecology, for example by lowering costs through material and energy efficiency.

## IT for Green

IT for Green aims at increasing the environmental friendliness of companies and their processes by means of IT. In this context, Corporate Environmental Management Information Systems (CEMIS) are an indispensable tool. Conventional CEMIS, however, are not sufficient to achieve this objective, for they serve the sole purpose of ensuring legal compliance with relevant environmental laws and regulations, mainly in order to avoid financial sanctions from state authorities. With such a strong operational focus the requirements entailed by the concept of sustainable development can only be fulfilled to a very limited degree.

Companies achieve profits by applying sustainable development measures and by implementing CEMIS 2.0: they reduce costs through material and energy efficiency and increase their turnovers through sustainable products and services, corporate image improvement and advantages in competition.



The reduction of material and energy consumption in companies has a direct positive impact on both the environment and the economy. However, such beneficial effects can only be achieved by implementing the new generation of more strategic CEMIS.

### ertemis supports you in ...

- ... realizing eco-friendly production and disposal methods.
- ... creating synergy effects, cost savings and strategic advantages.
- ... developing hybrid products centered around the idea of sustainability. A combined range of products and services opens up new markets.
- ... providing sustainability information to stakeholders by means of Web 2.0 technology-based reporting systems.
- ... analyzing cause-effect relationships between business and environmental objectives with the help of Performance Indicators - that is, on the basis of Strategic Environmental Management.
- ... realizing sustainable logistic chains (Green Logistics & Sustainable Supply Chain Management).
- ... designing sustainability-oriented CEMIS for industrial estates.

### CEMIS 2.0

Traditional CEMIS tend to be isolated, operation-oriented information systems (for example, they merely serve to ensure legal compliance on the basis of KPIs, disregarding the concept of sustainability). In contrast, CEMIS 2.0, which stand in the focus of the ertemis project, follow an integrated approach in line with the concept of strategic management. For example, by facilitating the company-wide assessment of KPIs CEMIS 2.0 contribute to an efficient sustainability management.



CEMIS 2.0 are information systems that take a comprehensive approach to

- material and energy efficiency,
- minimization of waste and emissions,
- disposal of waste,
- stakeholder support,
- compliance with legal requirements and
- strategic environmental management.