

Deliverable 7.1 Dissemination and Exploitation Plan

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DoW	<p>Task 7.1: Dissemination & Exploitation Planning</p> <p>HSG Zander and Cartif develop a dissemination and exploitation plan. To ensure a high impact of all project results on the European construction/energy sector; we dedicate great efforts to a widespread dissemination of results.</p> <p>This task starts by establishing an Exploitation Strategy that defines the management and promotion of the exploitation of project results for the project partners and beyond (for the sector as a whole). Specific attention is dedicated to easing “takeup” actions by the industry at large, in particular SMEs, and to contribute to the expected industrial transformation.</p> <p>The strategy should define tangible results to be exploited and include a definition of actions to be taken with impact and exploitation risks. An exploitation manager (HSGzander) manages and updates the exploitation strategy.</p>		
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1 EXECUTIVE SUMMARY

1.1 Publishable summary

Campus21 dissemination and exploitation plan presented aims to be a guideline for the whole dissemination and exploitation activities performed in the context of the project.

D7.1 contains the initial strategy to fulfil the dissemination and exploitation objectives listed in the Description of Work so as the reference to guide the protection of intellectual property. That means to act and mediate if a conflict related to IPR and ownership of results should emerge within the consortium.

After an introduction with a definition of the term dissemination and its interpretation for Campus21, the dissemination and exploitation strategy is defined. Based on the plan in the Description of Work (DoW), target groups for dissemination in Campus21 are identified and the subjects and matters of dissemination are described. The management as well as the dissemination activities are defined and the partner roles are shown.

Concrete dissemination and exploitation actions, according to available results, will be published at the Campus21 website.

2 INTRODUCTION

2.1 Purpose and target group

To guarantee a successful impact of Campus 21, a Dissemination and Exploitation Planning (DEP) has been prepared. The European Commission defines the dissemination and exploitation plan as:

“A plan for dissemination and exploitation indicates those activities that are going to be carried out during a project’s lifetime.”...” must contain activities to be carried out continuously until the project’s end (and possibly afterwards).” (EU Directorates-General for Education and Culture, 2006)

This DEP includes the activities that the consortium will undertake during the project, but also after the termination, to ensure a proper adoption and use of the results developed by CAMPUS21 consortium.

The preliminary DEP has been produced relatively early in the project in Task 7.1 as Deliverable D7.1. This D7.1 will be reviewed and updated in each scheduled meeting, while the final DEP will be delivered at the end of the project.

2.2 Contributions of partners

This deliverable is divided into two parts (according the planned activities): the exploitation strategy (to be developed by HSG Zander as the exploitation leader) and the dissemination strategy (to be developed by Cartif as the dissemination leader)

The task D7.1 has been performed with the following contributions by the CAMPUS-21 partners:

- CARTIF: Contributions to deliver the document scheme and the exploitation plan so as the whole deliverable review.
- UCC: Description of Web Site, contributions to related research activities, platforms and forums, so as scientific goals.

2.3 Dissemination and Exploitation Planning (DEP)

The dissemination strategy of Campus21 includes for the Campus21 project relevant objectives of dissemination, defines an overall approach for the strategy and describes the generic contents for dissemination.

The main objective of the dissemination strategy is to ensure a high impact of all project results on the European construction/energy sector. Through doing the strategy for dissemination a widespread dissemination should be possible which leads to an utilisation of the project results.

The dissemination plan aims to involve key stakeholders in the construction/ict/energy sectors and form consensus, to maximize reuse of the project outcomes. Additional knowledge from other research activities and the industry will be used to feedback the work done within the project. The dissemination strategy ensures that the project results are communicated to the target group in an understandable manner at the right time. That, to a great extent enables the reuse und enhancement of the outcomes.

3 EXPLOITATION STRATEGY (HSG ZANDER)

3.1 Introduction

UCC and CARTIF have developed a dissemination and exploitation plan. This task starts by establishing an Exploitation Strategy that defines the management and promotion of the exploitation of project results for the project partners and beyond (for the sector as a whole). Specific attention is dedicated to easing “take up” actions by the industry at large, in particular SMEs, and to contribute to the expected industrial transformation.

The strategy should define tangible results to be exploited and include a definition of actions to be taken with impact and exploitation risks. An exploitation manager (HSGzander) manages and updates the exploitation strategy (result: D7.1; TL: HSGzander).

3.2 Intellectual Properties Management and Protection

This task is focused on the management of the Intellectual Property related to the project, and its aim is to guarantee the confidentiality of every result that has to be protected by an adequate communication policy. This commitment will be established only for those results susceptible of being commercially exploited.

3.3 Management of Dissemination

A comprehensive dissemination plan (of which a draft is provided by this report) will be developed. The promotion of results outside the consortium represents a core activity within the integrated Project; results will be delivered to relevant industry associations, research associations and stakeholders further to clearance of the consortium. Due to strong interrelation with the Intellectual Property Rights, the overall dissemination plan is coordinated, maintained and controlled in close cooperation with an Exploitation Management Board and in case of having problems with IPR's also with the steering committee.

The objective of the exploitation management is to ensure the suitable spread of the outcomes of Campus21, thereby assuring the consideration of intellectual property rights (IPR). This paragraph describes activities and committees involved in the dissemination activities. In general they are already described in Annex I to GA. The committees are responsible for:

- activation of partners and initiation of activities,
- monitoring of dissemination activities,
- evaluation of progress,
- resolving of difficulties, and
- synchronisation of activities and partners.

4 DISSEMINATION PLAN

The main goal of the dissemination plan is to provide an outline of dissemination activities to promote the project within the general scientific community, public authorities, industry and other actors involved on ICT4E2B sector. This plan also identifies the information related to each dissemination activity performed by the different partners which needs to be collected.

Whilst the main parts of dissemination will occur towards the final stages of the project, when all results will be available and demonstration sites will be completely ready, there are certain actions that will be undertaken from the beginning of the dissemination plan until the end of the project to create awareness of the project at EU level.

The table on next page shows the envisioned planning for the aforementioned tasks and a brief description of the proposed tasks.

4.1 Project web site (UCC)

Project web site will be one of the main meeting points that people will be able to use to look for information about Campus21.

All public information and deliverables will be published on a project website which will reflect the progress and results of the project. It will also include the description of the project including its goal, objectives, project partners, timelines, etc.

All publications, workshop proceedings, conference papers and other tasks related to dissemination will be made available on the project web site.

The website of the Campus21 project (**Error! Reference source not found.**) is separated in a public area and an area for the community of interest (CoI). The address of the official project webpage is: <http://www.campus21.eu>. Project partners should link their websites to the Campus21 homepage, in order to raise awareness of the project.

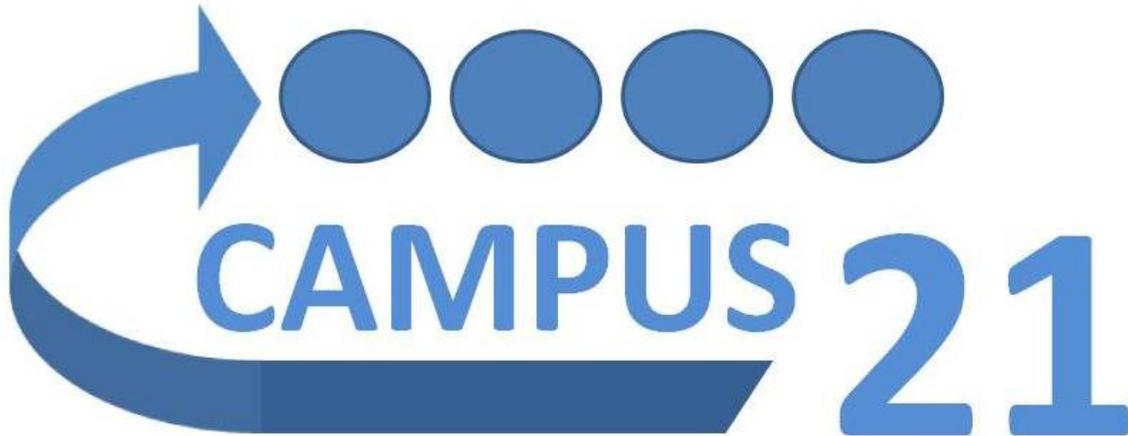


Figure 1: Project Website (preliminary version)

4.2 Project Logo

An official logo for the project CAMPUS21 is already available to all project partners. This logo will be used in all dissemination means (such as project website, newsletter, flyers, pieces of news, public documents...) in order to create some “branding” for the project.

The logo has already been distributed among partners encouraging its use from now on.



4.3 Project Flyers (CARTIF)

The Flyers will describe the purpose of the project, its description, etc., as well as the project partners.

The flyers will be distributed among the partners to facilitate the promotion of CAMPUS21 within general scientific community and industry during workshops, conferences, seminars and personnel communication.

As indicated in the Gant Chart, the flyers will be updated periodically with the information related to the dissemination activities.

4.4 Work Package Briefs (Work Package Leaders)

These items will include the scope of work, deliverables, budget and time allocation for each partner, and will be distributed among the partners to promote the project. All WP leaders are responsible to prepare and circulate them.

4.5 E-Newsletters (all)

E-Newsletters will be prepared and distributed electronically every 6 months after the first year of the project in order to support the dissemination plan and to ensure the information exchange between all the partners, related stakeholders and the scientific community.

These newsletters will include all the relevant information and publications achieved within the scope of the project, and will be sent to a distribution list generated by all the partners. The selected language is English, but partners are free to provide translations in their national languages

4.6 Community of Interest (Col)

Everything related to the Community of Interest can be found in D7.2.

4.7 Workshops (all)

Three workshops will be organized to inform about the project and its related issues and to show the demo-sites to anyone that could be interested in. Each workshop will be organized by the partner who owns the involved demo-site.

4.8 Conferences (all)

Dedicated sessions about the project will be held during selected events. The information related to these conferences will be collected in a table with the following information (the table with the information will be available in a related background document – see 7):

Conference/Workshop	URL	I/E/N/L ¹	Date	Partner	Contribution

All partners are responsible to keep track of their conferences and provide information to both WP7 leader and Campus21 coordinator with updated information in due time.

4.9 Paper and online Publications (all)

Each project partner is encouraged to publish information related to CAMPUS21 through (pre-reviewed) publications in journals, magazines, e-journals, web sites, etc. The information related to each publication will be collected in a table with the following information (the table with the information will be available in a related background document – see 7):

Journal/magazine..	URL	I/E/N/L ²	Date	Partner	Contribution

All partners are responsible to keep track of their own publications and provide information to both WP7 leader and Campus21 coordinator with updated information in due time.

The main targeted journals in which it could be a good idea to publish information about CAMPUS21 are the following:

Targeted Journals	Description
Energy and Buildings	Energy and Buildings is an international journal publishing articles with explicit links to energy use in buildings. The aim is to present new research results, and new proven practice aimed at reducing energy needs of a building and improving indoor

¹ I = International, E = European, N = National, L = Regional, local.

² I = International, E = European, N = National, L = Regional, local.

	environment quality. It is published with the editorial support of the International Council for Research and Innovation in Building and Construction (CIB).
Building and environment	Building and Environment is an international journal that publishes original papers and review articles on research, technology, and tool development related to building science and human interaction with the built environment, as well as their applications to building design and operation.
Journal of Building Physics	Journal of Building Physics is an international, peer-reviewed journal that publishes a high quality research and state of the art “integrated” papers to promote scientifically thorough advancement of all the areas of non-structural performance of a building and particularly in heat, air, moisture transfer.
IEEE	IEEE’s core purpose is to foster technological innovation and excellence for the benefit of humanity. As the world’s leading professional association for the advancement of technology, we provide peer-reviewed and unbiased information that helps enhance the quality of life for all people.
Neural Networks	<p>Neural Networks is the archival journal of the world's three oldest neural modelling societies: the International Neural Network Society (INNS), the European Neural Network Society (ENNS), and the Japanese Neural Network Society (JNNS).</p> <p>Neural Networks is unique in its range and provides a forum for developing and nurturing an international community of scholars and practitioners who are interested in all aspects of neural networks and related approaches to computational intelligence.</p> <p>The journal is published ten times each year. Neural Networks can be accessed electronically via Science Direct (http://www.sciencedirect.com/science/journal/08936080), which is used by over eight million individuals world-wide.</p>

4.10 Study Tours to Demo-Sites (Partners involved in a demo-site)

Each partner involved in a demo-site will organize one study tour to its case study to support the information exchange about the project and the related demo-site.

4.11 Final Public Workshop (all)

The final meeting of the project will have the purpose of presenting the final results of CAMPUS21. It will be a good idea to link this final meeting with some important event that can collect as much as interested people and entities as possible.

5 CONCLUSION

This Dissemination and Exploitation Plan is the basis of a widespread dissemination of the overall picture and the results of Campus21, also beyond the project's end.

Based on the objectives for dissemination and the generic dissemination activities creating awareness, understanding and action, stakeholders of the project for dissemination are defined. The subjects and matters which the stakeholders are interested in are described, according to a schedule. The management as well as the dissemination activities are defined and the partner roles are shown.

6 BIBLIOGRAPHY

Dissemination and exploitation. (2006, July 1). Retrieved December 19, 2011, from European Commission DG for Education and Culture: http://ec.europa.eu/dgs/education_culture/valorisation/glossary_en.htm

7 APPENDICES

Information related to conferences and publications is described in related background documents:

- Appendix 1: Conferences (D71_20111216_ExploitationAndDisseminationPlan-A1; available to partners in the intranet).
- Appendix 2: Paper and Online Publications (D71_20111216_ExploitationAndDisseminationPlan-A2; available to partners in the intranet).

7.1 European Technology Platforms for Energy Efficient Buildings

Platforms	Description
ARTEMIS	Energy savings in buildings. Home ambient intelligence. Digital home. Intelligent infrastructures e.g. buildings.
ECTP	Research agenda on EE buildings is in preparation, potentially leading to "Joint Technology Initiative" E2B.
eMobility	Home networks
EPoSS	Safe home management. Assisted living for the elderly. Home care. Smart homes. Energy management.
ESTEP	Recyclability of materials and components. Suitability for refurbishment and industrialised production.
ESTTP	Heating and cooling without fossil fuels using solar thermal energy.
EUMAT	Optoelectronics for sensing in smart buildings. Materials for energy conservation and storage.
FOREST	Wood as construction material reduces energy consumption, binds carbon and is recyclable as bio-fuel.
MANUFUTURE	Virtual representation of (factory) buildings. Reduction of energy consumption by manufacturing processes and products over their whole life cycles.
NESSI	Service oriented business models (in all sectors). ICT platforms from embedded systems to distributed environments.
PHOTOVOLTAIC	PV modules mounted on roofs or integrated in building components. Functional integration with shading, thermal systems, ventilation etc.
SMARTGRIDS	Customer-side energy management, demand forecasting & balancing. Response to price signals. End-user behaviour. Smart metering & customer interfaces. Multiple energy carrier systems in cities and buildings.

SUSCHEM	Insulation materials. Coatings for windows. Electrochromatic smart windows. Phase changing materials. Organic light emitting diodes. Energy-generating components.
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7.2 Related national or international research activities

RTD Name, Country & Developer	Web-link	Short description of Research.
ITOBO - Ireland, UCC,	http://zuse.ucc.ie/itobo/	ITOBO develop an anticipating (smart) building that operates on an energy-efficient and user-friendly basis while reducing its maintenance costs. Areas developed include Hardware Design, Wireless Systems integration and network protocol development, Constraint-based Decision Support, N-dimensional Information Modelling, Facilities Management with access to sophisticated built infrastructure and co-operation with standardisation bodies.
Build Wise - Ireland, UCC, CIT, Tyndall	http://www.ucc.ie/en/ERI/CurrentResearchProjects/BUILDWISE/ http://zuse.ucc.ie/buildwise/	The objective of this project is to specify, design, and validate a data management technology platform that will support integrated energy & environmental management in buildings utilising a combination of wireless sensor network technologies, an integrated data model and data mining methods and technologies. In collaboration with Tyndall Institute and Cork Institute of Technology
IntUBE - International UCC, CSTB, VTT	http://zuse.ucc.ie/intube/ http://www.intube.eu/?page_id=31	IntUBE will lead to increased life-cycle energy efficiency of buildings without compromising the comfort or performance of the buildings by integrating the latest developments in ICT-field into Intelligent Building and Neighbourhood Management Systems (IBMS and NMS) and by presenting new ICT-enabled business models for energy-information related service provision. The goal is to improve energy efficiency by 20% before 2020.
NEMBES - Ireland, CIT, UCC, Tyndall NI, TCD, UCD	http://kdeg.cs.tcd.ie/node/107	The next phase of embedded systems research is networked embedded systems (NES) where embedded systems communicate to form networks of distributed intelligence from the local scale, e.g. responsive buildings, to large networked systems, e.g. environmental monitoring. This is a unique project addressing the issue of networked embedded systems (e.g. sensors) in a holistic way across the stack from chip design, networking, middleware, and service management. This project is being undertaken with a cross-disciplinary team in conjunction with groups in CIT, UCC, UCD and TCD's DSG.
CITYNET - Ireland, UCD	http://erg.ucd.ie/erg/erg_current_research_projects.pdf	The research project aims to establish an innovative internet based online tool for planning, managing and operating urban quarters with low energy consumption and high renewable energy fraction in order to reduce up to 30% of state of the art quarters' CO2-emissions. A major research focus of the network will be the analysis, optimization, standardization and benchmarking of existing and planned buildings and energy efficient power plants. This system will provide internet online monitoring, simulation and visualization using Geographical Information System (GIS) software as the front end.
HOSPILOT -	Website	The project focuses on ICT for Energy savings in hospitals, with large

International, CSTB, ACCIONA VTT LABEIN-Tecnalia	will be available beginning of next year.	scale pilots in 3 hospitals across Europe.
HOMES - France, CEA, CSTB and other 17 partners	http://www.schneider-electric.com/documents/press-releases/en/shared/2006/12/InterviewRicaud_eng.pdf#page=1	HOMES is a French acronym for “optimized housing and buildings for better control of energy and services”. The objective of HOMES is to significantly increase energy efficiency in tertiary and residential buildings, whether new or existing, by implementing active energy control and making maximum use of each ‘drop’ of energy. The implementation of active building control systems includes: - new technologies (e.g. autonomous energy for sensors); - systems approach for the different building functions.
DigiHome - Finland, VTT	http://virtual.vtt.fi/virtual/proj2/digihome/project.html	The main objective of the project is to design and implement Digihome pilot facility at VTT – a prototype house of digital home and mobile services for field tests. Digihome demonstrator will be used to field test and develop the research results created at VTT on home networks, intelligent equipments, and home services. Using the Digihome demonstrator the verified service design models in housing area are developed into general use.
I3CON - Finland, VTT	http://www.i3con.org/	I3CON will enable the transformation towards a sustainable European construction industry delivering Industrially produced, Integrated processes and Intelligent building systems using distributed control systems with embedded sensors, wireless connections, ambient user interfaces and autonomous controllers. New value based business models with highly specialised SMEs working in radically contracted supply chains will deliver high performance spaces, smart business services and lifecycle solutions. This project involving 26 partners from 14 countries across Europe.
Advanced facades at the University of Southern Denmark - Danish Bulging Research Institute, Aalborg University	http://www.sbi.dk/en/research/energy_and_environment/advanced-facades-at-the-university-of-southern-denmark	The aim of the project is to develop optimal control over the combination of solar cells, solar shading, daylight and artificial lighting integrated in intelligent facades and to demonstrate this in connection with the construction of the new University/Science Park of Southern Denmark at Sønderborg. Such multi-functional facades will contribute significantly to a reduction of energy consumption for lighting, ventilating and cooling of the buildings.
SensoByg - Denmark, Danish Bulging Research Institute, Aalborg University	http://www.sbi.dk/en/research/health_and_comfort/hybrid-learning-spaces/sensobyg	The purpose of SensoByg is to develop and demonstrate inexpensive and reliable monitoring systems for buildings and other large constructions established by means of embedded wireless sensor technology and intelligent decision-supporting tools. Focus centres on the monitoring of moisture and temperature based on wireless sensors. Moisture and temperature control offers the greatest potential, while the embedding of sensors in concrete and wireless transfers in structures with much metal pose great challenges.
SysPAQ – Denmark, Danish	http://www.sbi.dk/en/research/hea	The overall aim of the project is to develop an innovative sensor system for measuring the indoor air quality as it is perceived by humans.

Bulging Research Institute, Aalborg University	lth_and_comfort/syspaq-2013-sensor-system-for-measuring-perceived-air-quality http://www.syspaq.eu/	Development work is carried out in cooperation with manufacturers of odour-sensitive sensors, perception psychologists, indoor climate researchers and potential users of the new system. The system can be used as a measuring and control device in connection with indoor climate measurements to regulate ventilation demand and quality control of emissions from building products.
REMPLI Real-time Energy Management via Power-lines and Internet - ICT, Vienna University of Technology	https://www.ict.tuwien.ac.at/ictportal/media-type/html/user/ictverwalt/page/default.psm/js-pane/Research,Projektportlets,ProjektBrowsersportlets	The major goal of the project is to provide a real time collection and control system for the energy distribution and consumption, using power lines, the Internet for communication, enabling tasks like balancing energy delivered to and consumed out of the energy network, energy management for supplying companies, energy management on the consumer side and energy billing. The basis of the system is a remote access to distant and distributed energy meters in order to monitor the energy generation or consumption with a reasonably fine time resolution and to control distant and distributed consumers by remote commands. The established network infrastructure will let utility companies perform various energy management tasks on the level of their energy distribution networks. This should help to increase interconnection and load shaping of different energy facilities.
PAWiS - Systems Architecture for Power Aware Wireless Sensor Network Nodes - Vienna University of Technology	https://www.ict.tuwien.ac.at/ictportal/media-type/html/user/ictverwalt/page/default.psm/js-pane/Research,Projektportlets,ProjektBrowsersportlets	The goal of this project is to develop both efficient system architectures and the related design methodology for power aware Wireless Sensor and Actor Network nodes that allow for capturing inefficiencies in every aspect of the system. These aspects include all layers of the communication system, the targeted class of the application itself, the power supply and energy management, the digital processing unit and the sensor-actuator interface. The proof of concept will be based on a prototype system that allows a future integration in a single SiP/SoC package. Will be finished December 2008.
DEHEMS - UK, International, FP7	www.dehems.org www.dehems.eu	The project will extend the current state of the art in intelligent meters, moving beyond energy "input" models that monitor the levels of energy being used to an "energy performance model" that also looks at the way in which the energy is used. It will bring together sensor data in household and appliance performance as well as energy usage monitoring to give real time information on energy and cost saving as well as emissions reduction. It will enable changes to be made to those appliances/services remotely from the mobile phone or PC and provide specific energy efficiency recommendations, for the household. The impact will be to personalize action on climate change, as well as supporting the move towards increased localized generation and distribution of energy.
Be Aware -	www.energ	The project address a methodology on how ubiquitous information can

Teknillinen Korkeakoulu, Finland	yawareness .eu	<p>turn users into active players by developing:</p> <ol style="list-style-type: none"> 1) an open and capillary infrastructure sensing wirelessly energy consumption at appliance level; 2) ambient and mobile interaction to integrate energy use profiles into users everyday life; 3) value added service platforms and models where consumers can act on ubiquitous energy information while energy producers and other stakeholders gain new business opportunities.
<i>Ultra-low energy building.- China*</i> , Tsinghua University	http://www.bestchina.org/BERC/?module=wiki&option=researchbase	The project includes the physical environment control and research facilities (sound, light, heat, air quality, etc.), building materials and construction (windows, sun roof, construction nodes, steel, etc.), building environmental control system (high-energy systems, the new way of HVAC equipment and development), and intelligent building system. It uses intelligent envelope, phase-change heat storage mobile floor, optical glass, solar courtyard light and solar lighting technology.
EffCoBuild - Slovenia, GI ZRMK	http://www.jeko-in.si/index.php?i=179 http://www.gi-zrmk.si/EUprojekti	As a part of EIE project EffCoBuild, ZRMK and JEKO-IN (Jesenice, Slovenia) district heating company developed a web-site benchmarking tool, aiming at raising awareness of key actors and thus boosting sustainable maintenance and renovation projects. JEKO-IN provides updated data on energy consumption of 40 high consuming buildings in the town, which can be compared with the data of recent years as well as with almost 10 years old information. In addition, the high consumers are also compared with all 130 residential buildings in the municipality. Internet users can get insight on energy performance certificates, various energy indicators as well as on recommended scenarios of building refurbishment.
DATAMINE - Germany, IWU and countries: AT, SI, BG, IR, UK, PL, IT, ES, BE, GR	http://env.meteo.noa.gr/datamine/ http://www.iwu.de/fileadmin/user_upload/daten/energie/datamine_sr2_03-2008.pdf	DATAMINE Collecting Data from Energy Certification to Monitor Performance Indicators for New and Existing buildings. The project developed the system for data (country specific) data collection, the structure of comprehensive data base of indicators from certificates and a software tool for analysis.