Projects and Products Portal for Leonardo da Vinci

Innovation et éco-conception dans l'industrie céramique

2009-1-PT-LEO05-03237

http://www.adam-europe.eu/adam/project/view.htm?prj=5887

Information sur le projet

Titre:	Innovation et éco-conception dans l'industrie céramique
Code Projet:	2009-1-PT-LEO05-03237
Année:	2009
Type de Projet:	Projets de transfert d'innovation
Statut:	En cours
Pays:	PT-Portugal
Accroche marketing:	Projet InEDIC (2009-2011): un consortium de 20 partenaires (centres de recherche et technologiques, instituts de formation professionnelle, établissements privés et industries céramiques) provenant de 4 pays sont en développement du matériel de formation et des outils état de l'art pour l'intégration des considérations environnementales dans la conception des produits en céramique. L'objectif global d'InEDIC est donc de contribuer à la durabilité, l'innovation et la compétitivité du secteur céramique en Europe.

Résumé: Ecodesign is a well established concept amongst environmental specialists in Europe, but there is a lack of know how to support the systematic integration of environmental considerations in the design of ceramic products. Despite its economic importance, the ceramic industry is suffering the effects of the slowing down of the European economy and it reports the effects of the competition of products from countries where environmental and social standards in manufacturing are considerably lower. The ceramic sector needs competitive products to survive in the market and by addressing the environmental features good opportunities for innovation and differentiation arise while the impacts along the life cycle are reduced.

The main objective of the InEDIC project (2009-2011) is the development of high quality training materials on ecodesign to the ceramics sector, in order to supply the designers, trainers and other professionals with the skills to apply this sustainability strategy and practice in companies and to disseminate this know-how in the VET system. This project is a follow up of a previous Leonardo Project, “Transfer of Knowledge in the Field of Ecodesign” (contract CZ/04/B/F/PP-168002), within which the InEDIC project will build on by updating the training materials and mostly by adapting them to the ceramic sector.

The consortium includes organizations from Portugal, Spain, Greece and Switzerland with recognized expertise in ecodesign and/or in ceramic design and production. Besides the Applicant Coordinator and the Core Partners, responsible for the contents development, the consortium includes Associated Partners, whose role will be mainly to test and validate the InEDIC training materials and products through the performance of demonstration projects.

The InEDIC project is expected to have an important role in the qualification of professionals, thus promoting employability, and will contribute to strengthen the know-how in sustainable development in the participating countries, in line with the goals of the United Nations Decade of Education for Sustainable Development.

Description: This project will contribute to improve the quality and innovation in VET systems, institutions and practices through the production of training materials on ecodesign for ceramics, thus filling an identified gap in the sector. The quality and innovative character of the materials, that will be available on line and include ICT-based products, is ensured by the knowhow of the partners and the design of the project itself, which encompasses pilot projects in real life situations, through the participation of ceramic companies. Therefore, InEDIC results are expected to have high applicability and relevance and will be integrated in the curricula of VET partners, boosting the impact of the project after its completion. The InEDIC project will not only enhance the VET system in the partner countries (and elsewhere in Europe, in view of the planned dissemination activities) but also contribute to the development of the ceramic sector through the integration and application of ecodesign. The vocational skills that will be developed with InEDIC take into

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consideration the needs of the market, since ecodesign is a promising approach to promote the ceramic sector's competitiveness in the global market. The performance of pilot projects will provide learning opportunities for companies' staff, as well as for trainees from the VET institutions since internships are planned to take place, thus contributing to the LLL Programme's objective of increasing the volume of placements in enterprises throughout Europe.

The specific objectives of the InEDIC project are:

To develop training materials on ecodesign adapted to the ceramics sector, in order to supply the designers and other professionals with the skills to apply this strategy and practice in the companies;
To integrate ecodesign good practices in the ceramic industry through the training of new designers, trainees and other professionals and the development of pilot projects in companies;
To promote the dissemination of ecodesign in VET through the integration of the training materials in the design and ceramic schools curricula;
To support the competitiveness of the ceramic sector in Europe, creating added value to the companies within the challenges of sustainable development and globalization;
To support the development of innovative, more eco efficient ceramic products, and promote them as inspiring examples to other companies;
To contribute to the qualification of professionals in the ceramics business and within training institutions;
To contribute to the knowledge in sustainable development in the participating countries, according with the goals of the United Nations Decade of Education for Sustainable Development

Through these objectives the project will foster the development of skills in the ceramic sector considering the needs of the labour market in view of the challenges of competitiveness in a globalized economy. The establishment of academia/VET/businesses partnerships will also contribute to this endeavour.

The methodology proposed for the project consists on the performance of a situation analysis (baseline study in each partner country to evaluate the concrete needs of ecodesign know how in the ceramic industries), the development of the InEDIC training materials (InEDIC Manual, Databases of materials and technologies and Support material for trainers), their test through training and demonstration projects in companies, and finally the evaluation, refining and editing of such materials.

Thèmes:	*** Utilisation et diffusion de résultats *** Développement durable *** Formation tout au long de la vie *** Enseignement supérieur *** Formation continue
Sectors:	*** Autres Activités de Services *** Enseignement
Types de Produit:	Autres Site Internet Matériel d'apprentissage Matériel pour l'enseignement Programme/curriculum Modules
Information sur le produit:	The main outcomes of the project will be the state-of-the art training materials and ecodesign tools for the ceramic sector: • InEDIC Ecodesign Manual • InEDIC Databases of materials and technologies including not only technical but also environmental features

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• InEDIC Support material for trainers, including didactics
• Curricula development for the integration of ecodesign in ceramic courses
• Case studies presenting the results of the 10 demonstration projects ceramic companies of the participating countries
• InEDIC website where all results and resources will be available

Page Web du projet:

Contractant du projet

Nom:	INETI - National Laboratory of Engineering, Technology and Innovation
Ville:	Lisbon
Pays/Région:	Lisboa
Pays:	PT-Portugal
Type d'organisation:	Institution de recherche
Site Internet:	http://www.ineti.pt

Personne de contact

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Téléphone:	+35121094685
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Site internet:	

Coordinateur

Nom:	INETI - National Laboratory of Engineering, Technology and Innovation
Ville:	Lisbon
Pays/Région:	Lisboa
Pays:	PT-Portugal
Type d'organisation:	Institution de recherche
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E-mail:	cristina.rocha@lneg.pt
Site internet:	

Partenaire

Partner 1

Nom:	Portuguese Design Center
Ville:	Lisboa
Pays/Région:	Lisboa
Pays:	PT-Portugal
Type d'organisation:	Institution publique
Site Internet:	http://www.cpd.pt

Partner 2

Nom:	FARIA BENTO, Lda
Ville:	Aljubarrota
Pays/Région:	Centro (P)
Pays:	PT-Portugal
Type d'organisation:	Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:	http://www.fariaebento.com

Partner 3

Nom:	Cencal - Vocational Training Center for the Ceramic Industry
Ville:	Caldas da Rainha
Pays/Région:	Centro (P)
Pays:	PT-Portugal
Type d'organisation:	Institution de formation continue
Site Internet:	http://www.cencal.pt

Partner 4

Nom:	CERACASA CERAMICAS
Ville:	Castellón
Pays/Région:	Comunidad Valenciana
Pays:	ES-Espagne
Type d'organisation:	Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:	http://www.ceracasa.com

Partenaire

Partner 5

Nom: PROSPEKTIKER - European Institute for Future Studies and Strategic Planning
Ville: San Sebastian
Pays/Région: Pais Vasco
Pays: ES-Espagne
Type d'organisation: Autres
Site Internet: http://www.prospektiker.es

Partner 6

Nom: Research Association of the Ceramic Industry - ITC
Ville: Castellón
Pays/Région: Comunidad Valenciana
Pays: ES-Espagne
Type d'organisation: Institution de recherche
Site Internet: http://www.itc.uji.es

Partner 7

Nom: Cerâmica Moderna do Olival, Lda
Ville: Olival
Pays/Région: Centro (P)
Pays: PT-Portugal
Type d'organisation: Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:

Partner 8

Nom: Volos Public Vocational Training Centre
Ville: VOLOS, MAGNESIA
Pays/Région: Thessalia
Pays: EL-Grèce
Type d'organisation: Institution de formation continue
Site Internet:

Partenaire

Partner 9

Nom:	1st Volos Ceramics Workshop/Laboratory
Ville:	VOLOS, MAGNESIA
Pays/Région:	Thessalia
Pays:	EL-Grèce
Type d'organisation:	Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:	

Partner 10

Nom:	CARTONAJES LA PLANA
Ville:	Castellón
Pays/Région:	Comunidad Valenciana
Pays:	ES-Espagne
Type d'organisation:	Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:	http://www.laplana.com

Partner 11

Nom:	CTCV - Technological Centre for Ceramic and Glass
Ville:	Coimbra
Pays/Région:	Centro (P)
Pays:	PT-Portugal
Type d'organisation:	Institution de recherche
Site Internet:	http://www.ctcv.pt

Partner 12

Nom:	SPAL - Sociedade de Porcelanas de Alcobaca, SA
Ville:	Valado dos Frades
Pays/Région:	Centro (P)
Pays:	PT-Portugal
Type d'organisation:	Grande entreprise (plus de 250 employés)
Site Internet:	http://www.spal.pt

Partenaire

Partner 13

Nom: 2nd Volos Ceramics production and Workshop/Laboratory
Ville: VOLOS, MAGNESIA
Pays/Région: Thessalia
Pays: EL-Grèce
Type d'organisation: Entreprise de petite et de moyenne taille (jusqu'à 250 employés)
Site Internet:

Partner 14

Nom: Polytechnic Institute of Leiria
Ville: Caldas da Rainha
Pays/Région: Centro (P)
Pays: PT-Portugal
Type d'organisation: Université/école supérieure spécialisée/academie
Site Internet: http://www.esad.ipl.pt

Partner 15

Nom: Revigres - Industria de Revestimento de Gres, Lda
Ville: Águeda
Pays/Région: Centro (P)
Pays: PT-Portugal
Type d'organisation: Grande entreprise (plus de 250 employés)
Site Internet: http://www.revigres.pt

Partner 16

Nom: Lehonia Ceramics Workshop/Laboratory
Ville: VOLOS, MAGNESIA
Pays/Région: Thessalia
Pays: EL-Grèce
Type d'organisation: Institution de formation continue
Site Internet:

Partenaire

Partner 17

Nom:	ARVIS ENVIRONMENTAL ENTERPRISES OF GREECE SA
Ville:	Athens
Pays/Région:	Attiki
Pays:	EL-Grèce
Type d'organisation:	Autres
Site Internet:	http://www.arvis.gr

Données du projet

EN_Executive_Summary_Greek_Situation.pdf

http://www.adam-europe.eu/prj/5887/prj/EN_Executive_Summary_Greek_Situation.pdf

EN_InEDIC_Executive_summary_Portugal.pdf

http://www.adam-europe.eu/prj/5887/prj/EN_InEDIC_Executive_summary_Portugal.pdf

EN_InEDIC_Executive_summary_Spain.pdf

http://www.adam-europe.eu/prj/5887/prj/EN_InEDIC_Executive_summary_Spain.pdf

ES_InEDIC_Executive_summary_Espana.pdf

http://www.adam-europe.eu/prj/5887/prj/ES_InEDIC_Executive_summary_Espana.pdf

GR_Executive_Summary_GREEK.pdf

http://www.adam-europe.eu/prj/5887/prj/GR_Executive_Summary_GREEK.pdf

InEDIC_Highlights_national_report_presentation_Greece.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDIC_Highlights_national_report_presentation_Greece.pdf

InEDIC_Highlights_national_report_presentation_Portugal.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDIC_Highlights_national_report_presentation_Portugal.pdf

InEDIC_Highlights_national_report_presentation_Spain.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDIC_Highlights_national_report_presentation_Spain.pdf

InEDICnewsletter1.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDICnewsletter1.pdf

InEDICnewsletter2.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDICnewsletter2.pdf

InEDICnewsletter3.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDICnewsletter3.pdf

Données du projet

InEDICnewsletter4.pdf

http://www.adam-europe.eu/prj/5887/prj/InEDICnewsletter4.pdf

PT_InEDIC_sumario_executivo.pdf

http://www.adam-europe.eu/prj/5887/prj/PT_InEDIC_sumario_executivo.pdf

Executive summary of the situation analysis

Produits

1 InEDIC Training Material

Produit 'InEDIC Training Material'

Titre:	InEDIC Training Material
Type de Produit:	Matériel d'apprentissage
Texte marketing:	The project's primary goal was the development of ecodesign training materials and tools to the ceramic industry in order to provide designers, training and education organizations and businesses with the skills for the systematic integration of environmental considerations in the development of their products.
Description:	The materials have been tested in a business environment through pilot training and demo projects, and include the InEDIC Ecodesign Manual, Support Material for Trainers, Databases of Materials and Technologies and case studies.
Cible:	Designers, Training and Education institutions, companies, others
Résultat:	The main results, available in the project website, free of charge are the following: InEDIC ecodesign Manual InEDIC Ecodesign Tools InEDIC support material for trainers Demo Projects Resource centre Other informations All these resources are available, free of charge, on line in partners' languages plus English.
Domaine d'application:	Training for ecodesing in the ceramic industry
Adresse du site Internet:	www.inedic.net
Langues de produit:	portugais espagnol anglais grec moderne

product files

Manual

InEDIC_MANUAL_EN.pdf
http://www.adam-europe.eu/prj/5887/prd/1/2/InEDIC_MANUAL_EN.pdf

InEDIC MANUAL_ES.pdf
http://www.adam-europe.eu/prj/5887/prd/1/2/InEDIC%20MANUAL_ES.pdf

InEDIC_MANUAL_GR.pdf
http://www.adam-europe.eu/prj/5887/prd/1/2/InEDIC_MANUAL_GR.pdf

InEDIC_MANUAL_PT.pdf
http://www.adam-europe.eu/prj/5887/prd/1/2/InEDIC_MANUAL_PT.pdf

Support material for trainers

product files

Support material for trainers_EN.pdf
http://www.adam-europe.eu/prj/5887/prd/1/3/Support%20material%20for%20trainers_EN.pdf

Tools EN

Tool 10_Brainstorming.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2010_Brainstorming.pdf

Tool 11_Economic feasibility assessment of ecodesign.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2011_Economic%20feasibility%20assessment%20of%20ecodesign.pdf

Tool 12_Improvement options evaluation matrix without changes.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2012_Improvement%20options%20evaluation%20matrix%20without%20changes.pdf

Tool 13_Morphological box.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2013_Morphological%20box.pdf

Tool 14_Ecodesign evaluation questionnaire.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2014_Ecodesign%20evaluation%20questionnaire.pdf

Tool 15_EMS and ecodesign checklist.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%2015_EMS%20and%20ecodesign%20checklist.pdf

Tool 1_Motivating factors.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%201_Motivating%20factors.pdf

Tool 2_Product selection questionnaire.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%202_Product%20selection%20questionnaire.pdf

Tool 3_Design Brief.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%203_Design%20Brief.pdf

Tool 4_Market analysis.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%204_Market%20analysis.pdf

Tool 5_Environmental inputs an outputs.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%205_Environmental%20inputs%20an%20outputs.pdf

Tool 6_Metmatrix.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%206_Metmatrix.pdf

Tool 7_Economic profile assessment.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%207_Economic%20profile%20assessment.pdf

Tool 8_Product analysis worksheet.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%208_Product%20analysis%20worksheet.pdf

Tool 9_Ecodesign Checklists for Ceramics_final.pdf
http://www.adam-europe.eu/prj/5887/prd/1/4/Tool%209_Ecodesign%20Checklists%20for%20Ceramics_final.pdf

Project Tags

The project belongs to the following group(s):

Best Projects (http://www.adam-europe.eu/adam/thematicgroup/MMVII)