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Lean.Co. Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

Final Dissemination Report

lean

Madrid, November 2018



Co-funded by the
Erasmus+ Programme
of the European Union

ERASMUS+ Programme

Key Action 2 | Call 2016

Cooperation for Innovation and the exchange of Good Practices

Project Code:

2016-1-ES01-KA202-025694

Duration:

October 2016 - September 2018

Budget:

154.630,00 €

Partnership:

- Fundación Laboral de la Construcción (Spain).
- Technological & Innovative Platform for Environmental Efficiency -Tipee- (France).
- Asociación de Constructores Promotores de Navarra (Spain).
- Centro Habitat Associacao Plataforma para a Construcao Sustentavel (Portugal).
- Politechnika Warszawska (Poland).

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1. INTRODUCTION

Lean.Co description

The Lean.Co Project: Development of a training program in Lean methodology in order to support the transition of the Construction sector towards to a more competitive and productive model. It belongs to the Erasmus+ program of the European Union, summons 2016, from the second key action of cooperation for the innovation and the exchange of good practice.

The European initiative has been led by Fundación Laboral de la Construcción together with partners from four Member States: Asociación de Constructores Promotores de Navarra (Spain); Technological & Innovative Platform for Environmental Efficiency -Tipee- (France); Cluster Habitat Sustentável (Portugal); and Politechnika Warszawska (Poland). The Partnership has been working during 24 months, from October 2016 to September 2018, to achieve the full objectives of the project.

The aim of the Lean.co Project was to develop and implement a new Vocational Training program, specialized in the Lean Construction methodology training for professionals in the construction sector, in order to provide the knowledge required and the specific competencies to apply and implement it in the companies.

This way, it helped to sustainably improve competitiveness of workers, of enterprises and their work system, as well as to promote industry's transition toward a new constructive model, more competitive and productive. This was the line promoted by the European Lean.co, through which Lean Construction programme were developed for construction sector professionals, in order to respond to qualification needs, required for the labour market.

The actions that carried out were, the development of a training program in Lean Construction; the development of training methods, tools and teaching materials; the validation, transfer, replication and created program pilots.

The Lean.Co platform was developed in Blackboard learn, a well-known management system of e-learning, available in English and in the other partners' native languages: Spanish, French, Portuguese and Polish.

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2. PROJECT GRAPHIC LINE/ARTWORK OF THE PROJECT

Lean.Co Communication Plan was made of a set of communication actions that were served to reach each of the identified targets.

Lean.Co was characterized by its participation process between the partners. The materials and aspects of communication were agreed with all partners, with the aim of ensuring that each partner feels identified with the project, its creative and graphic line, as well as with the messages to transmit.

The document in Spanish was completed in July, 2017 (attached as annex).

Logotype creation and Visual Identity

The specific logo design for Lean.Co and the definition of the lines of application of its Visual Identity (typographies, colour gamma, correct and incorrect applications, development of graphic applications...) was included in a specific «Dissemination and Communication Plan» (Annex 1). It has permitted unify the local and European dissemination under the same image.

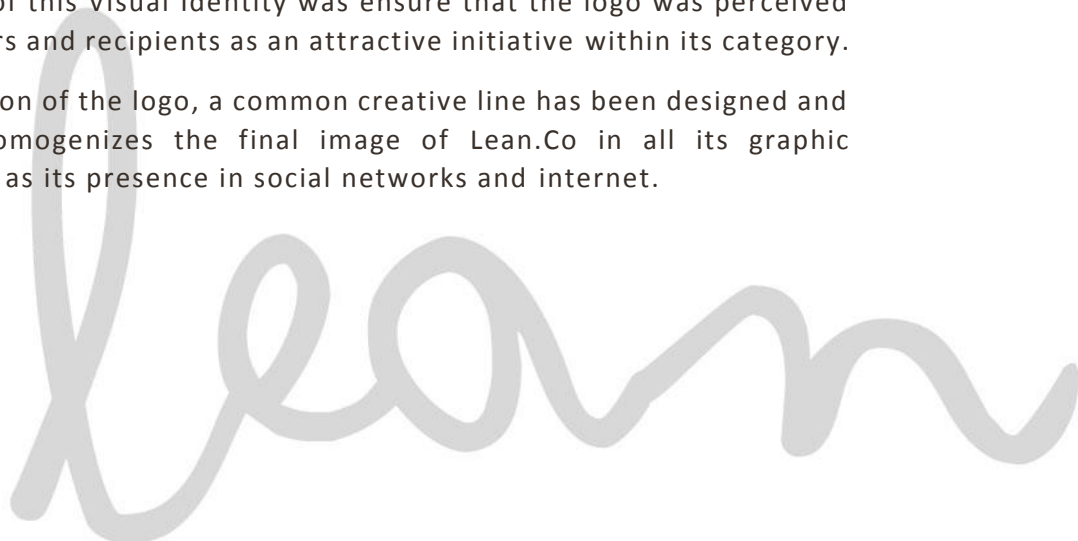
The logo of the project fulfills two complementary key functions: the creation of a distinct graphic identity related to the main objectives of the project and, at the same time, the association with the values and the objectives of the Erasmus+ program (which logo has been present in the all communications).



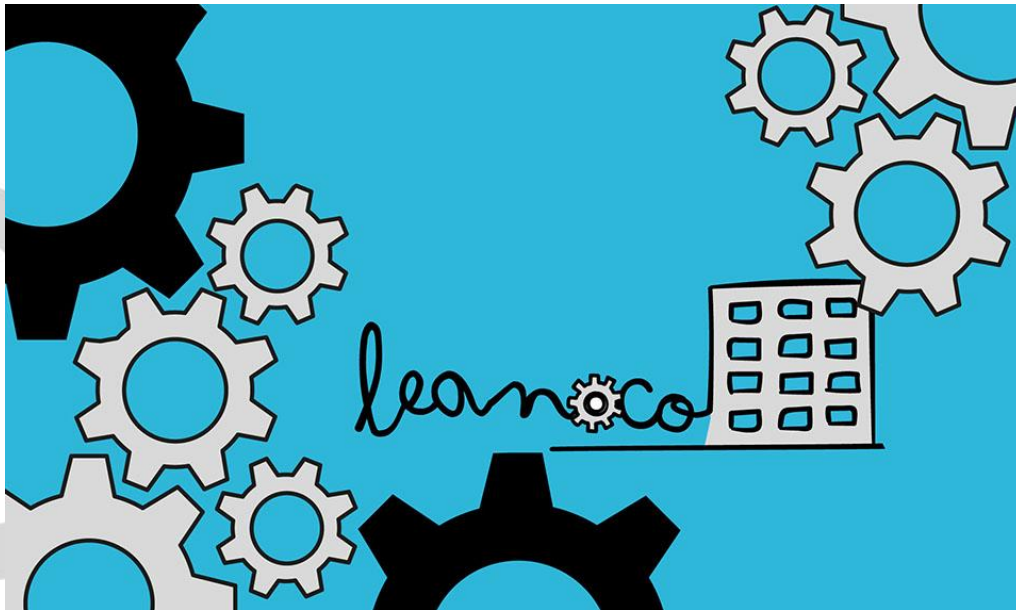
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The main objective of this Visual Identity was ensure that the logo was perceived by project prescribers and recipients as an attractive initiative within its category.

Parallel to the creation of the logo, a common creative line has been designed and proposed, which homogenizes the final image of Lean.Co in all its graphic applications, as well as its presence in social networks and internet.



Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model



After the design of the logo and the graphic line of the Lean.Co project, the image has been developed for different supports: posters, roll ups and templates for documents, web and social network profiles.

Templates

For the Lean.Co development we have created official templates for the documents (report cover, internal sheet or letter, presentation template) in order to unify the work of the Partnership during the months of the project.



Report or letter cover template and inside sheet

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model



Power Point template



Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

Interim Dissemination Reports template

Roll ups, Posters and leaflets

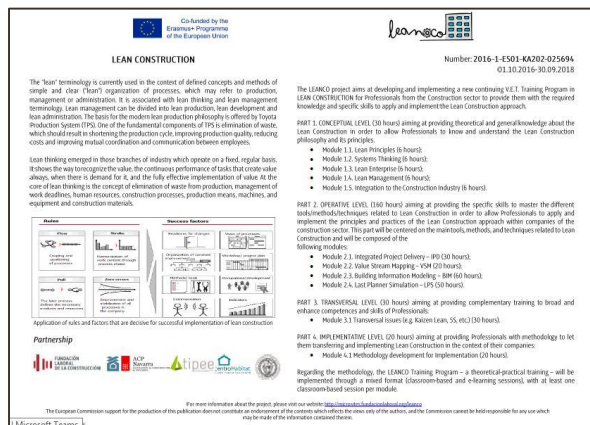
In order to unify the image of Lean.Co and for improve its dissemination the partnership have been created posters and roll ups for the meetings and another relevant events (for example the multiplier event made in the different countries of the partnership).



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Lean.Co roll ups in the Partnership language (Spanish, English, French, Portuguese and Polish)



Lean.Co Handout



Lean.Co poster for Mikolajki, Poland (2016), this information in display at the Faculty of Civil Engineering (WUT), in front of Erasmus+ Office (permanent)

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Calendar Planner 2017 and 2018, Displayed and used in the Faculty of Civil Engineering (WUT) rooms

PARTNERS LIST OF THE ERASMUS+ PROJECT TITLED:
"CONTINUING VET TRAINING PROGRAMME IN LEAN CONSTRUCTION TO SUPPORT THE TRANSITION OF THE CONSTRUCTION SECTOR TOWARDS A MORE COMPETITIVE AND PRODUCTIVE MODEL"

PROMOTER:
ERASMUS+ PROGRAMME
 COOPERATION FOR INNOVATION AND THE EXCHANGE OF GOOD PRACTICES
 STRATEGIC PARTNERSHIPS
 NUMBER OF THE PROJECT 2016-1-ES01-KA202-025694

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THE LEANCO PROJECT aims at developing and implementing a new continuing VET Training Program in LEAN CONSTRUCTION for Professionals from the Construction sector to provide them with the required knowledge and specific skills to apply and implement the Lean Construction approach. LEANCO Training Program will be made of 240 hours and will be composed of the 4 parts containing modules related to conceptual, operative, transversal, and implementation levels.

<http://www.leanco.eu>

OBJECTIVES OF THE PROJECT ARE TO PREPARE THE FOLLOWING MODULES OF LEANCO TRAINING (in brackets - no. of training hours indicated):

PART 1. CONCEPTUAL LEVEL (30 hours) aiming at providing theoretical and general knowledge about the Lean Construction philosophy and its principles.

- Module 1.1. Lean Principles (6 hours);
- Module 1.2. Systems Thinking (6 hours);
- Module 1.3. Lean Enterprise (6 hours);
- Module 1.4. Lean Management (6 hours);
- Module 1.5. Integration to the Construction Industry (6 hours).

PART 2. OPERATIVE LEVEL (160 hours) aiming at providing the specific skills to master the different tools/methods/techniques related to Lean Construction in order to allow Professionals to apply and implement the principles and practices of the Lean Construction approach within companies of the construction sector. This part will be centered on the main tools, methods, and techniques related to Lean Construction and will be composed of the following modules:

- Module 2.1. Integrated Project Delivery - IPD (30 hours);
- Module 2.2. Value Stream Mapping - VSM (20 hours);
- Module 2.3. Building Information Modeling - BIM (60 hours);
- Module 2.4. Lean Planner Simulation - LPS (50 hours).

PART 3. TRANSVERSAL LEVEL (30 hours) aiming at providing complementary training to broad and enhance competences and skills of Professionals.

- Module 3.1. Transversal issues (e.g. Kaizen Lean, 5S, etc.) (30 hours).

PART 4. IMPLEMENTATION LEVEL (20 hours) aiming at providing Professionals with methodology to let them transferring and implementing Lean Construction in the context of their companies.

- Module 4.1. Methodology for Implementation (20 hours).

Regarding the methodology, the LEANCO Training Program - a theoretical-practical training - will be implemented through a mixed format (Classroom based and e-learning sessions), with at least one classroom-based session per module.

LEAN CONSTRUCTION

The "lean" terminology is currently used in the context of defined concepts and methods of simple and clear ("lean") organization of processes, which may refer to production, management or administration. It is associated with lean thinking and lean management terminology. Lean management can be divided into lean production, lean development and lean administration. The basis for the modern lean production philosophy is offered by Toyota Production System (TPS). One of the fundamental components of TPS is elimination of waste, which should result in shortening the production cycle, improving production quality, reducing costs and improving mutual coordination and communication between employees.

Lean thinking emerged in those branches of industry which operate on a fixed, regular basis. It helps the way to recognize the value, the continuous performance of tasks that create value always, when there is demand for it, and the fully effective implementation of value. At the core of lean thinking is the concept of elimination of waste from production, management of work deadlines, human resources, construction processes, production means, machine, and equipment and construction materials.

Application of rules and factors that are decisive for successful implementation of lean construction.

Project leaflet circulated among guests of the Faculty of Civil Engineering (Politechnika Warszawsk) and during presentations

leanco

LEAN CONSTRUCTION

leancowut@il.pw.edu.pl

FUNDACIÓN LABORAL DE LA CONSTRUCCIÓN **ACP Navarra** **tipee** **centroHabitat** **Warsaw University of Technology**

Co-funded by the Erasmus+ Programme of the European Union

QR code linking to the project leaflet.

The result of 2020 is a VET training program in Lean Construction, of 240 school hours, that will be developed by means of the Blackboard Learn platform, a well-known management system of e-learning. The partners of this project work on this goal which is structured as follows:

INTRODUCTION
 General presentation of the VET training program in Lean Construction.

PART 1. CONCEPTUAL LEVEL (30 hours)
 8 days of face-to-face training - 24 hours total and 28 hours of e-learning
 The first module of the course has the objective of providing with theoretical and general knowledge about the application of Lean methodology in construction in order to allow to the professionals to know and to understand Lean Construction philosophy and to its beginning.

PART 2. OPERATIVE LEVEL (160 hours)
 8 days of face-to-face training - 120 hours total and 140 hours of e-learning
 The second part of the course aims to provide with the specific skills that students need to dominate the different tools, methods and technologies related with Lean Construction, indispensable in order professionals could apply and implement the beginning and the practices of the approach of Lean Construction within the companies of the sector of the construction:
 Integrated Project Delivery-IPD (30 hours)
 Value Stream Mapping-VSM (20 hours)
 Lean Planner-LPS (50 hours)
 Building Information Modeling-BIM (60 hours)

PART 3. TRANSVERSAL LEVEL (30 hours)
 20 hours of e-learning
 The aim of the third part of the course is to provide with tools and complementary information about other systems and standards of continuous improvement as well as of project management, quality management and environmental management like Kaizen Lean, 5S, ISO 21500, ISO 9001, ISO 14001, etc.

PART 4. IMPLEMENTATION LEVEL (20 hours)
 1 day of face-to-face training - 8 hours total and 14 hours of e-learning
 The last module tries to provide professionals, in this process of qualification, with a methodology that allows them to transfer and to implement Lean Construction in the context of their companies.

CAMPUS FUNDACIÓN

A.2.1. Basic aspects of LPS

Diagram illustrating the Lean Production System (LPS) components and their relationship to the new collaborative way of working.

Diagram illustrating the Lean Production System (LPS) components and their relationship to the new collaborative way of working.

Diagram illustrating the Lean Production System (LPS) components and their relationship to the new collaborative way of working.

Diagram illustrating the Lean Production System (LPS) components and their relationship to the new collaborative way of working.

Diagram illustrating the Lean Production System (LPS) components and their relationship to the new collaborative way of working.

POSTER display at EDULEARN18, the 10th annual International Conference on Education and New Learning Technologies, Palma de Mallorca (Spain) on the 2nd - 4th of July, 2018

3. WEBSITE OF THE PROJECT

Description of the Website

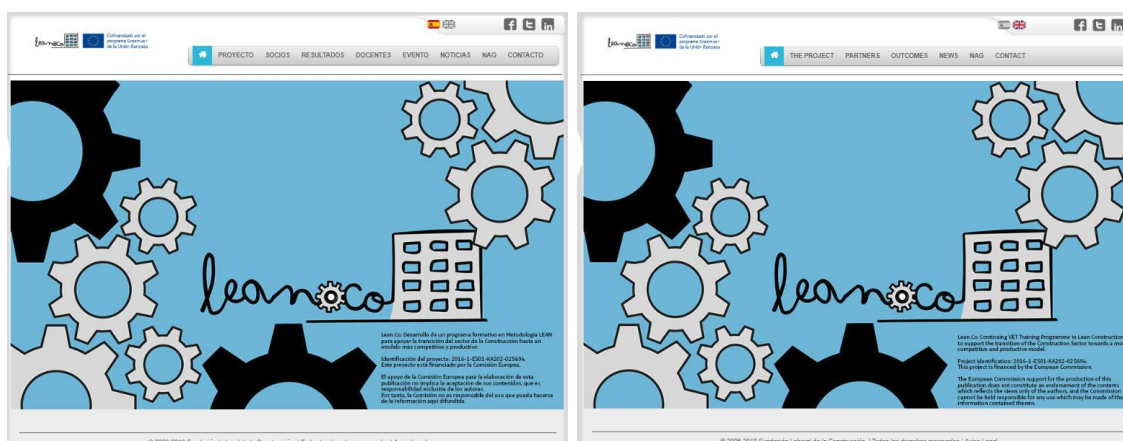
Lean.Co website was launched on September, 2017. The team of Fundación Laboral de la Construcción worked in the development and update of the layout and contents of the Project platform along with the partnership, which worked alongside to a complete the News section. The website was available in Spanish and in English as a result of the requirements of the microsite platform

ES: <http://microsites.fundacionlaboral.org/leanco>

EN: <http://microsites.fundacionlaboral.org/leanco?idioma=1>

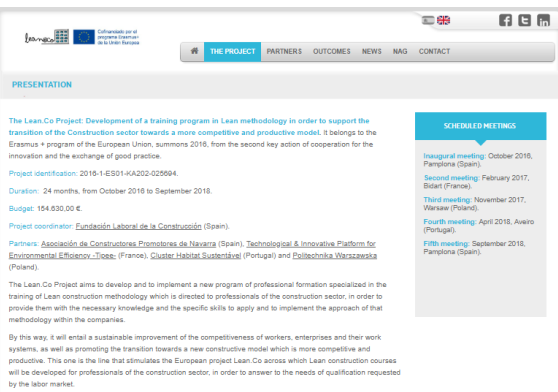
The website has been structured in several sections that cover the project dissemination needs:

- **Home:** main page with the partner's logo, the social networks link of Lean.Co, a summary of the different services, a brief description of the project, the project identification number and a footer with the legal notice.

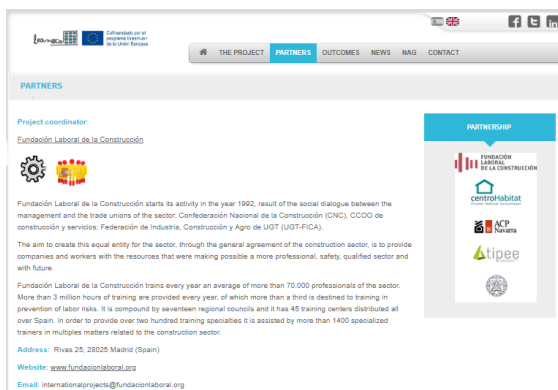
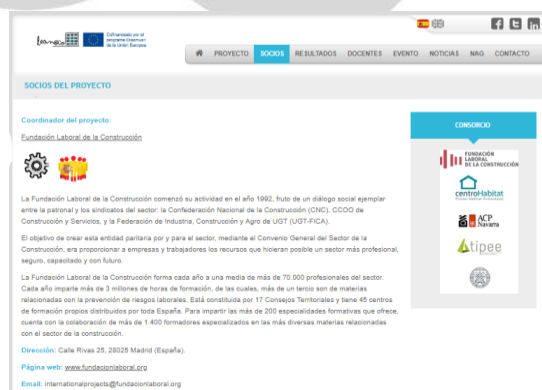


- **Project:** this section contains complete information about the project, its objectives, the developed actions and the outcomes.

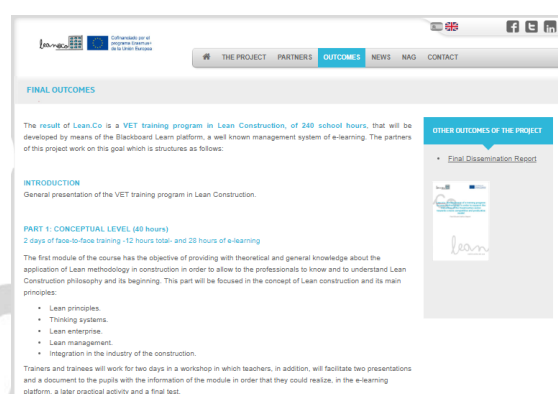
Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model



• Partners



• Outcomes: it disseminates the VET training program in Lean Construction of 240 school hours that is the main objective of the project, developed in the several countries of the Lean.Co Partnership.



Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

- **Trainers:** this section includes the teaching staff of the Lean.Co programme. All of them are professionals from Architecture and Engineering, with a strong experience and knowledge in the use of tools and methodologies such as Lean or BIM.

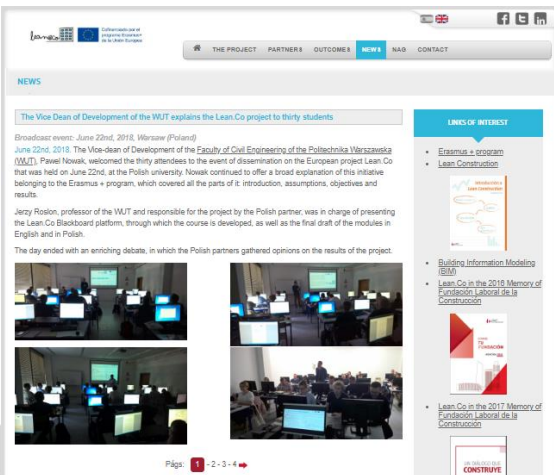


- **Event:** this area talks about the Multiplier Event developed in Pamplona (Spain) led by Asociación de Constructores Promotores de Navarra and Fundación Laboral de la Construcción, «The Positive Power of Change: LEAN-BIM-Digitalization of Construction».



- **News:** this section support the dissemination of the project including the workshops, the partners meeting, the development of the programme, the presentation in international networks and other event in which the project has participated. The majority of the news were traduced in English for increase the dissemination of the project in the different European countries.

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

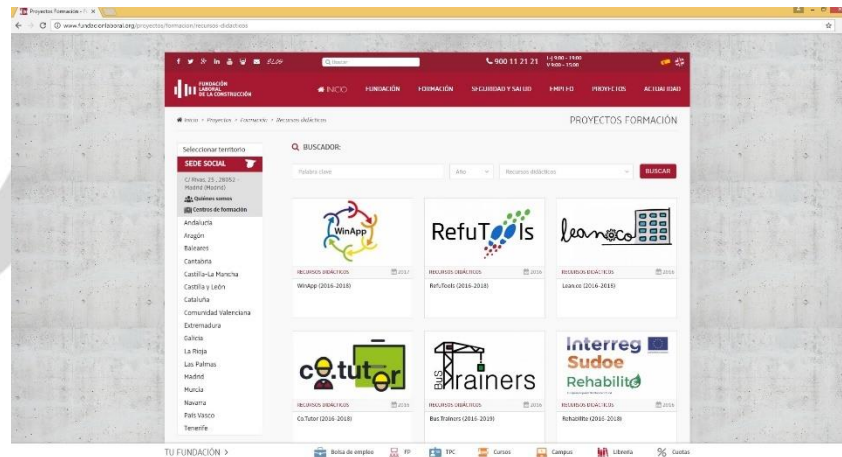


• Contact

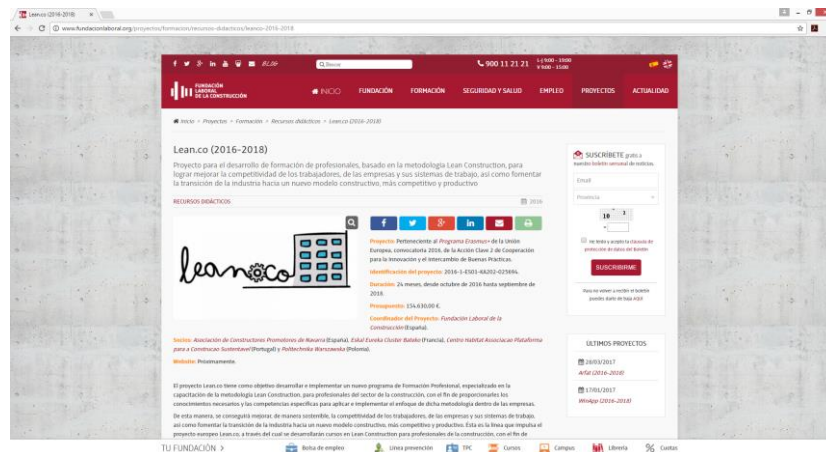
Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

4. PRESENCE IN CORPORATE WEBSITES OF PARTNERS

Fundación Laboral de la Construcción

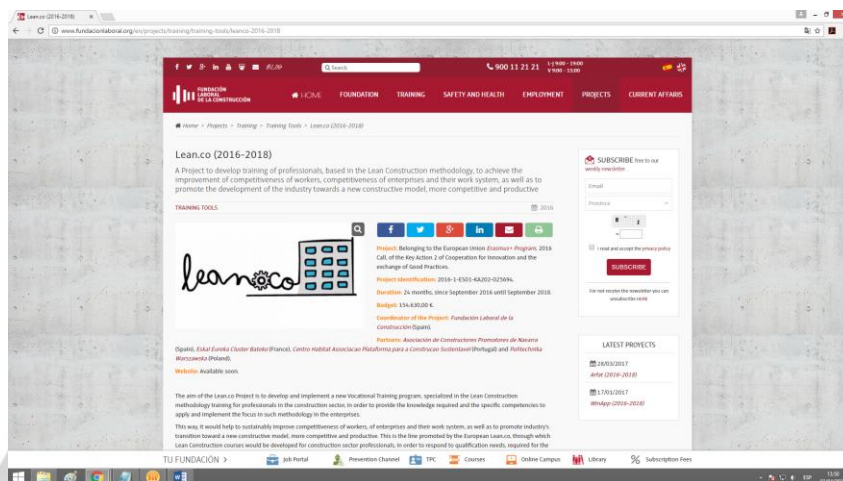


<http://www.fundacionlaboral.org/proyectos/formacion/recursos-didacticos>

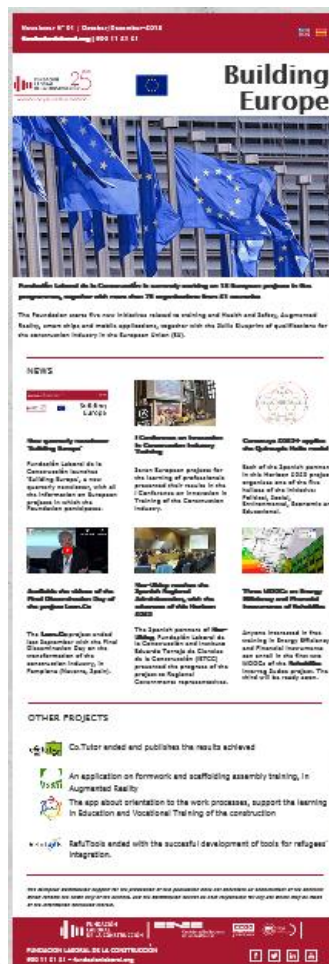
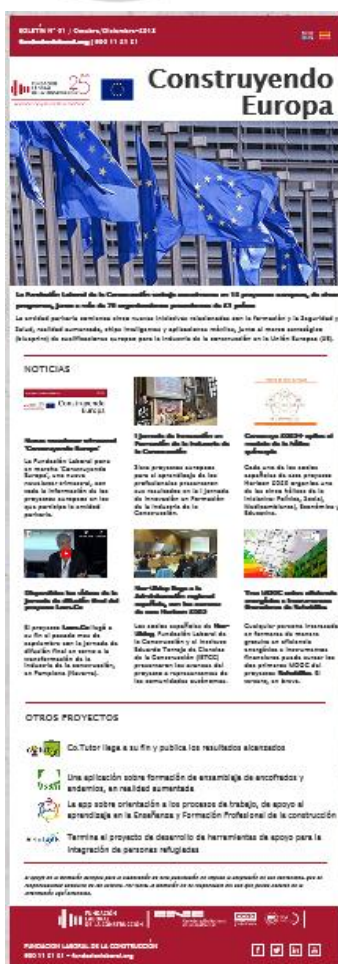


<http://www.fundacionlaboral.org/proyectos/formacion/recursos-didacticos/leanco-2016-2018>

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model



<http://www.fundacionlaboral.org/en/projects/training/training-tools/leanco-2016-2018>



This Newsletter (EN/ES) is a communication tool for the dissemination of the Fundación Laboral European Projects:

http://www.fundacionlaboral.org/mailling/001_construyendoeuropa_octubre diciembre2018/001_ConstruyendoEuropa_octubre-diciembre-2018.html

http://www.fundacionlaboral.org/mailling/001_buildingeurope_octoberdecember2018/001_BuildingEurope_ober-december-2018.html

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

Asociación de Constructores Promotores de Navarra



http://www.acpnavarra.com/Web/Home/wf_home.aspx#

Technological & Innovative Platform for Environmental Efficiency -Tipee-



<https://www.platorme-tipee.com/projet/projet-leanco/>

Centro Habitat Associacao Plataforma para a Construcao Sustentavel

LEAN.CO



Programa de treino contínuo em Construção Lean
Apoio à transição do setor da construção face a um novo modelo mais competitivo e produtivo



Programa de apoio: Erasmus+ da União Europeia, convocatória 2016, da Ação-Chave 2 de Cooperação para a Inovação e Intercâmbio de Boas Práticas.

Duração: 01/10/2016 a 30/09/2018

Orçamento: 154.630,00 €

Identificação do Projeto: 2016-1-EB01-KA202-025694

Website: <http://microsites.fundacionlaboral.org/leanco?pag=12&idioma=1>

Objetivos: O projeto LEANCO visa desenvolver e implementar um novo programa de treino contínuo em CONSTRUÇÃO LEAN para profissionais do setor da construção que os prepare com o conhecimento e aptidões específicas para implementar a abordagem Lean na construção, com o objetivo de melhorar a sua competitividade e potenciar a transição para um novo modelo de construção. LEANCO desenvolve os conhecimentos dos profissionais, com base na Construção Lean, de modo a melhorar a competitividade dos trabalhadores, a competitividade das próprias empresas e o seu sistema de trabalho, permitindo promover o desenvolvimento da indústria através de novos modelos de construção, mais produtivos e competitivos.

Coordenador de Projeto: Fundación Laboral De La Construcción (EB)

Parceiros: Asociación de Constructores Promotores de Navarra (EB), Associação Plataforma para a Construção Sustentável (PT), Politechnika Warszawska (PL), Technological & Innovative Platform for Environmental Efficiency (FR)



<http://www.centrohabitat.net/pt/projecto/leanco>

LEAN.CO



Continuing V.E.T. Training Programme in Lean Construction
Support the transition of the Construction Sector towards a more competitive and productive model



Program: European Union Erasmus+ Program, 2016 call, Key Action 2 of Cooperation for Innovation and the Exchange of Good Practices.

Implementation period: 01/10/2016 to 30/09/2018

Budget: 154.630,00 €

Project identification: 2016-1-EB01-KA202-025694

Website: <http://microsites.fundacionlaboral.org/leanco?pag=12&idioma=1>

Objectives: The LEANCO project aims at developing and implementing a new continuing V.E.T. Training Programme in LEAN CONSTRUCTION for Professionals from the Construction sector to provide them with the required knowledge and specific skills to apply and implement the Lean Construction approach within the companies. In view of improving their competitiveness and foster the transition toward a new construction model, LEANCO is a Project to develop training of professionals, based in the Lean Construction methodology, to achieve the improvement of competitiveness of workers, competitiveness of enterprises and their work system, as well as to promote the development of the industry towards a new constructive model, more competitive and productive.

Project Coordinator: Fundación Laboral De La Construcción (EB)

Partners: Asociación de Constructores Promotores de Navarra (EB), Associação Plataforma para a Construção Sustentável (PT), Politechnika Warszawska (PL), Technological & Innovative Platform for Environmental Efficiency (FR)



<http://www.centrohabitat.net/en/projecto/leanco>

Politechnika Warszawska



<http://www.erasmusplus.il.pw.edu.pl/>

5. DISSEMINATION IN MEDIA (general, specialized, owns...)

Media outputs of Lean.Co					
Country	Partner	Media	Headline	Date	Link
		Fundación Laboral de la Construcción (Newsletter No. 513)	La Fundación Laboral de la Construcción lidera cuatro nuevos proyectos europeos y participa en otros seis	13/10/2016	http://www.fundacionlaboral.org/actualidad/bol-etin-digital/513 http://www.fundacionlaboral.org/actualidad/noticias/fundacion/la-fundacion-laboral-de-la-construccion-lidera-cuatro-nuevos-proyectos-europeos-y-participa-en-otros-cuatro-estrategicos-y-dos-regionales
		Fundación Laboral de la Construcción (Newsletter No. 534)	La Fundación Laboral de la Construcción afianza el trabajo colaborativo con socios de 18 países miembros de la UE	23/03/2017	http://www.fundacionlaboral.org/actualidad/bol-etin-digital/534 http://www.fundacionlaboral.org/actualidad/noticias/fundacion/la-fundacion-laboral-de-la-construccion-afianza-el-trabajo-colaborativo-con-socios-de-18-paises-miembros-de-la-ue
		Fundación Laboral de la Construcción	Annual Report	07/2017	http://www.fundacionlaboral.org/uploads/memoria/applications/ARCH5971a7599978b.pdf
		Fundación Laboral de la Construcción (Newsletter No. 544)	La formación, una prioridad para el avance del 'empleo verde' en Europa	01/06/2017	http://www.fundacionlaboral.org/actualidad/bol-etin-digital/544 http://www.fundacionlaboral.org/actualidad/noticias/reportajes/la-formacion-una-prioridad-para-el-avance-del-empleo-verde-en-europa
		Fundación Laboral de la Construcción (Newsletter No. 561)	La Comisión Europea y la Fundación Laboral abogan por "una nueva generación de profesionales de la enseñanza"	16/11/2017	http://www.fundacionlaboral.org/actualidad/bol-etin-digital/561 http://www.fundacionlaboral.org/actualidad/noticias/redirect/la-comision-europea-aboga-por-una-nueva-generacion-de-profesionales-de-la-ensenanza
		Fundación Laboral de la Construcción (Newsletter No. 572)	Atracción de los inversores privados hacia la eficiencia energética	15/02/2018	http://www.fundacionlaboral.org/actualidad/bol-etin-digital/572 http://www.fundacionlaboral.org/actualidad/noticias/fundacion/la-fundacion-laboral-de-la-construccion-atrae-inversores-privados-hacia-la-eficiencia-energetica

					icias/reportajes/atracccion-de-los-inversores-privados-hacia-la-eficiencia-energetica
		Fundación Laboral de la Construcción	Annual Report	07/2018	http://www.fundacionlaboral.org/uploads/memoria/applications/ARCH5b3c6ed3bcf12.pdf
		NavarraCapital.es	Hacia un cambio de paradigma en la construcción	23/08/2018	https://navarracapital.es/hacia-un-cambio-de-paradigma-en-la-construccion/
		Fundación Laboral de la Construcción (Newsletter No. 593)	JORNADA : El poder positivo del cambio: LEAN-BIM-Digitalización de la construcción	12/09/2018	http://www.fundacionlaboral.org/actualidad/bolletin-digital/593 http://www.fundacionlaboral.org/actualidad/noticias/fundacion/el-proyecto-leanco-celebra-en-navarra-una-jornada-sobre-el-poder-positivo-del-cambio-lean-bim-digitalizacion-de-la-construccion
		CONSTRUIBLE	Jornada gratuita sobre la digitalización de la construcción el 18 de septiembre en Pamplona	14/09/2018	https://www.construible.es/2018/09/14/jornada-gratuita-digitalizacion-construccion-18-septiembre-pamplona
		Fundación Laboral de la Construcción	Expertos internacionales debaten en Pamplona sobre las oportunidades que la digitalización ofrece a la industria de la construcción	18/09/2018	Press Call Annex 2
		Fundación Laboral de la Construcción	La Construcción reflexiona sobre nuevos modelos de desarrollo	18/09/2018	Press Release Annex 3
		Europa Press	Jornada organizada por la Fundación Laboral de la Construcción	18/09/2018	https://fotos.europapress.es/f1719235/
		ABC	Expertos ven oportunidades para la construcción en la digitalización	18/09/2018	http://agencias.abc.es/noticia.asp?noticia=2919091 http://agencias.abc.es/agencias/noticia.asp?noticia=2919091
		Finanzas	Expertos ven oportunidades para la construcción en la digitalización	18/09/2018	http://www.finanzas.com/noticias/economia/20180918/expertos-oportunidades-para-construccion-3911089_age.html

	RTVE Telenavarra	La construcción navarra reflexiona sobre su futuro	18/09/2018	https://www.youtube.com/watch?v=ITMX_rHljd0
	Fundación Laboral de la Construcción (Newsletter No. 594)	El proyecto Lean.Co cierra su jornada de difusión final en torno a la transformación de la industria de la construcción, en Pamplona	19/09/2018	http://www.fundacionlaboral.org/actualidad/bolletin-digital/594 http://www.fundacionlaboral.org/actualidad/noticias/redirect/el-proyecto-leanco-cierra-su-jornada-de-difusion-final-en-torno-a-la-transformacion-de-la-industria-de-la-construccion-en-pamplona
	Diario de Navarra	La construcción navarra reflexiona sobre nuevos modelos de desarrollo	19/09/2018	https://www.diariodenavarra.es/noticias/negocios/dn-management/2018/09/18/construccion-navarra-reflexiona-nuevos-modelos-desarrollo-611480-2541.html
	Diario de Noticias	Los constructores piden que se considere "estratégico" el sector	19/09/2018	Print edition: http://www.acpnavarra.com/Administracion/Archivos/Noticias/18694/Untitled1.pdf
	Noticias de Navarra	Los constructores piden que se considere "estratégico" el sector	19/09/2018	Online edition: https://www.noticiasdenavarra.com/2018/09/19/economia/los-constructores-piden-que-se-considere-estrategico-el-sector
	Navarra Capital	Hacia la Construcción 4.0	19/09/2018	https://navarracapital.es/hacia-la-construccion-4-0/
	Ikonstruccion	El sector de la construcción en Navarra apoya la digitalización	27/09/2018	https://ikonstruccion.es/2018/09/27/construccion-navarra-digitalizacion/
	Diario de Navarra	Edificar a golpe de clic	10/10/2018	Print edition: https://www.noticiasdenavarra.com/2018/09/19/economia/los-constructores-piden-que-se-considere-estrategico-el-sector
	Fundación Laboral de la Construcción (Newsletter No. 594)	La Fundación Laboral comienza cinco nuevos proyectos europeos relacionados con la formación y la prevención en el sector de la construcción	18/10/2018	http://www.fundacionlaboral.org/actualidad/bolletin-digital/598 http://www.fundacionlaboral.org/actualidad/noticias/fundacion-lab-l-fundacion-lab-l-comienza-cinco-nuevos-proyectos-europeos-formacion-prevencion-construccion
	Newsletter Construyendo Europa	Fundación Laboral starts five new European projects related	26/10/2018	http://www.fundacionlaboral.org/mailling/001_buildingeurope_octoberdecember2018/001_Buildin

		[Building Europe] This Newsletter is a communication tool for the dissemination of the Fundación Laboral European Projects	to training and prevention in the construction sector Available on (ES/EN)		gEurope_october-december-2018.html
		European Commission *Presence in the European Vocational Skills Week 2018	Final Dissemination Day of the Lean.Co Project: "The Positive Power of Change: LEAN-BIM-Digitalization of Construction"	5-9/11/2018	https://ec.europa.eu/social/vocational-skills-week/your-country_en
		Fundación Laboral de la Construcción (Newsletter No. 594)	La Fundación Laboral de la Construcción participa en tres foros internacionales, invitada por la Comisión Europea y por la FIEC	15/11/2018	http://www.fundacionlaboral.org/actualidad/bolletin-digital/601 http://www.fundacionlaboral.org/actualidad/noticias/fundacion/la-fundacion-laboral-de-la-construccion-participa-en-tres-foros-internacionales-invitada-por-la-comision-europea-y-por-fiec
		Fundación Laboral de la Construcción	Dossier «Descubre tu Fundación» 2500 copies distributed to all the Territorial Councils of Fundación and at fairs	08/2018	https://www.cursosenconstruccion.com/doc/dossier-servicios-fundacion.pdf
		ACP	El poder positivo del cambio: LEAN-BIM-Digitalización de la construcción	n.a.	http://www.acpnavarra.com/Web/PLN/wf_pagina.aspx?idPag=111&idMenuPadre=29&idMenu=90&idPagPadre=101&home
France	Technological & Innovative Platform for Environmental Efficiency (Tipee)	Tipee	The fourth meeting of the Lean Construction project	n.a.	https://www.platforme-tipee.com/the-fourth-meeting-of-the-lean-construction-project/
		Tipee	Découvrez le BIM et le Lean Construction au court d'une manifestation le 25 septembre	n.a.	https://www.platforme-tipee.com/decouvrez-bim-lean-construction-court-dune-manifestation-25-septembre/
Portugal	Centro Habitat Sustentável (CHS)	CHS (Newsletter 10/2016)	KICK-OFF MEETING - Projeto LEAN.CO (PT/EN)	21/10/2016	https://us3.campaign-archive.com/?u=ce2ce0cf195c0a6219bab0ba0&id=53667c0a4a

				http://www.centrohabit.at.net/pt/news/kick-meeting-projeto-leanco
	CHS (Newsletter 3/2018)	Curso de Formação em Construção Lean – GRATUITO (PT/EN)	03/04/2018	https://mailchi.mp/e2c00b4eda09/59zqr52u8q-3269837 http://www.centrohabit.at.net/pt/news/curso-de-formacao-em-construcao-lean-gratuito
	CHS (Newsletter 4/2018)	4ª Reunião de Coordenação do projeto Lean.Co (PT/EN)	24/04/2018	https://mailchi.mp/219ec7f626a/59zqr52u8q-3287029 http://www.centrohabit.at.net/pt/news/4a-reuniao-de-coordenacao-do-projeto-leanco
	CHS (Newsletter 6/2018)	Conclusão do curso "Lean.co - Programa de treino contínuo em Construção Lean" (PT/EN)	09/06/2018	https://mailchi.mp/e93a60b39269/59zqr52u8q-3308413 http://www.centrohabit.at.net/pt/news/conclusao-do-curso-leanco-programa-de-treino-continuo-em-construcao-lean
	CHS (Newsletter 8/2018)	Seminário "Desafios da Construção Lean" 21.09.2018 (PT/EN)	21/09/2018	https://mailchi.mp/c55eabbaf92c/59zqr52u8q-3326277 http://www.centrohabit.at.net/pt/evento/seminario-desafios-da-construcao-lean-21092018
	Sig Habitat	Seminário Desafios da Construção Lean (PT/EN)	21/09/2018	http://www.sighabitat.pt/p155-ev-69-seminario-desafios-da-construcao-lean-pt?site_lingua=pt
	CHS (Newsletter 9/2018)	Lean.Co Seminário "Desafios da Construção Lean" (PT/EN)	25/09/2018	https://mailchi.mp/d871a6dabb60/59zqr52u8q-3335885 http://www.centrohabit.at.net/pt/news/leanco-seminario-desafios-da-construcao-lean
		Reunião do Projeto "Construção Lean" em Pamplona	25/09/2018	
	Sig Habitat	Lean.Co - Programa de treino contínuo em Construção Lean (PT/EN)	n.a.	http://www.sighabitat.pt/p160-prj-2-lean-co-continuing-v-e-t-training-programme-in-lean-construction--en?site_lingua=pt
	CHS	O Seminário "Desafios da Construção Lean"	n.a.	Call Release https://mailchi.mp/4863cd059ff3/59zqr52u8q-3330777

Poland	Politechnika Warszawska (WUT)	MATEC Web of Conferences, Volume 86, 05005 (2016) International Journal	LEANCO - Continuing V.E.T. Training Programme in Lean Construction to support the transition of the Construction Sector towards a more competitive and productive model (page 6-7)	28/11/2016	https://www.matec-conferences.org/articles/mateconf/pdf/2016/49/mateconf_ipicse2016_05005.pdf
		MATEC Web of Conferences, Volume 117, 00032 (2017) International Journal	Last planner system in construction * Provides a short information about the LEANCO project.	24/07/2017	https://www.matec-conferences.org/articles/mateconf/pdf/2017/31/mateconf_rsp2017_00032.pdf
		Inżynier Mazowska, nr 1 (7)January, 2018, page 6	Civil Engineering Faculty Warsaw University of Technology - Cooperation with construction sector	01/2018	Print edition: Annex 4
		EDULEARN18, the 10th annual International Conference on Education and New Learning Technologies, Palma de Mallorca (Spain) on the 2nd, 3rd and 4th of July, 2018	MODERN APPROACH TO EDUCATION IN CONSTRUCTION INDUSTRY	07/2018	https://iated.org/concrete3/view_abstract.php?paper_id=65276

6. DISSEMINATION IN SOCIAL NETWORKS

Spanish version

Concerning social networks, the main information on the project is currently being spread by Twitter, Facebook and LinkedIn. The project own profiles have been created by the beginning of November, 2017.



@LeanCoEU

<https://twitter.com/LeanCoEU>




#LeanCoEU



The Lean.Co account in Twitter has 182 followers and 217 tweets have been disseminated on the project or related topics, supporting the dissemination of the project.

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

Also, Partners have contributed to the development of the project dissemination goals through their corporate social networks, which can be seen in the examples of the following tables.

 <p>fundacionlaboral.org @fund_laboral Te sigue</p>	https://twitter.com/Fund_Laboral/status/1039824692671115265
	https://twitter.com/Fund_Laboral/status/1040149331809128449
	https://twitter.com/entornoBIM/status/927435248752771072
	https://twitter.com/Fund_Laboral/status/1041957986078318592
	https://twitter.com/Fund_Laboral/status/1043043406170079233
	https://twitter.com/Fund_Laboral/status/874247865375371265
 <p>Cluster Habitat Sust @Clusterhabitat</p>	https://twitter.com/ClusterHabitat/status/929012330410717184
	https://twitter.com/ClusterHabitat/status/991718833600847874
	https://twitter.com/ClusterHabitat/status/978932842045624320
	https://twitter.com/ClusterHabitat/status/1037377011453448192
	https://twitter.com/ClusterHabitat/status/1039145858640633856
	https://twitter.com/ClusterHabitat/status/1042001075149176832
 <p>TIPEE @TIPEE_plateform Te sigue</p>	https://twitter.com/ClusterHabitat/status/1044521186334560256
	https://twitter.com/acal_quiros/status/926859592289701889
	https://twitter.com/acal_quiros/status/931536654816423936
	https://twitter.com/TIPEE_plateform/status/927936407364096000
	https://twitter.com/TIPEE_plateform/status/1044560450787192834
	https://twitter.com/TIPEE_plateform/status/1036594865398792192
	https://twitter.com/TIPEE_plateform/status/1027500972690628608
	https://twitter.com/TIPEE_plateform/status/1039792831844495361
	https://twitter.com/TIPEE_plateform/status/1040588328716980226
	https://twitter.com/TIPEE_plateform/status/1044227997098758144
	https://twitter.com/TIPEE_plateform/status/1044564366325108736
	https://twitter.com/TIPEE_plateform/status/1044573278583607297
	https://twitter.com/TIPEE_plateform/status/1044581762997792768

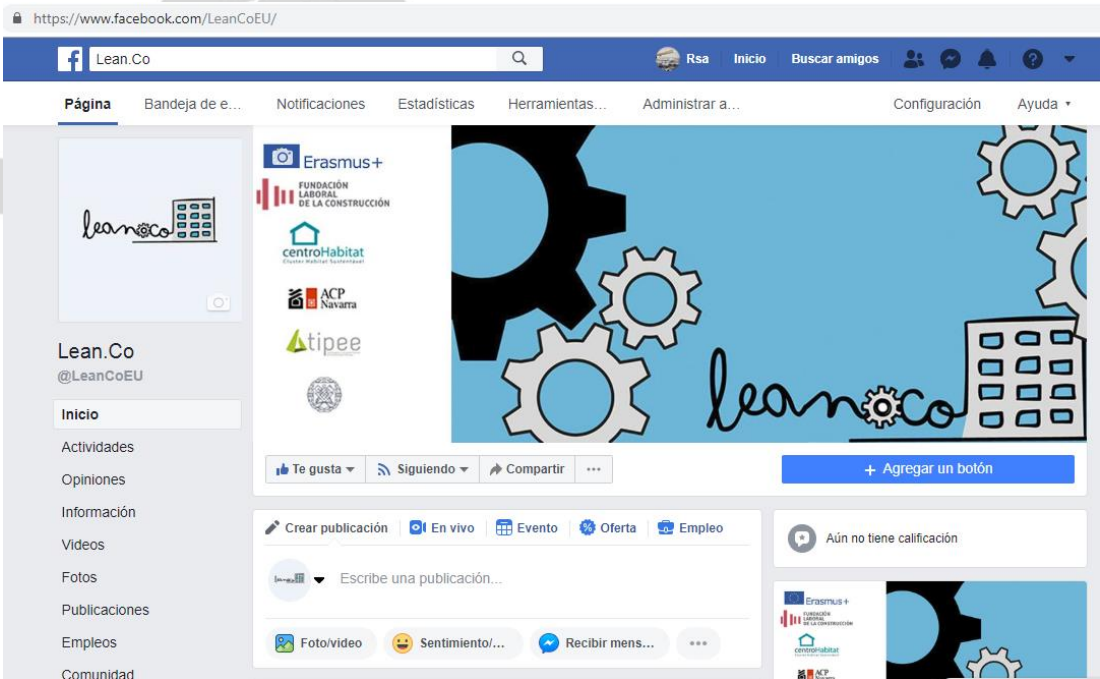
lean

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@LeanCoEU

<https://www.facebook.com/LeanCoEU/>



The Lean.Co account in Facebook has 12 followers and 13 likes have been disseminated on the project or related topics, supporting the dissemination of the project.

Also, Partners have contributed to development of the project dissemination goals through their corporate social networks, which can be seen in the examples of the following tables.

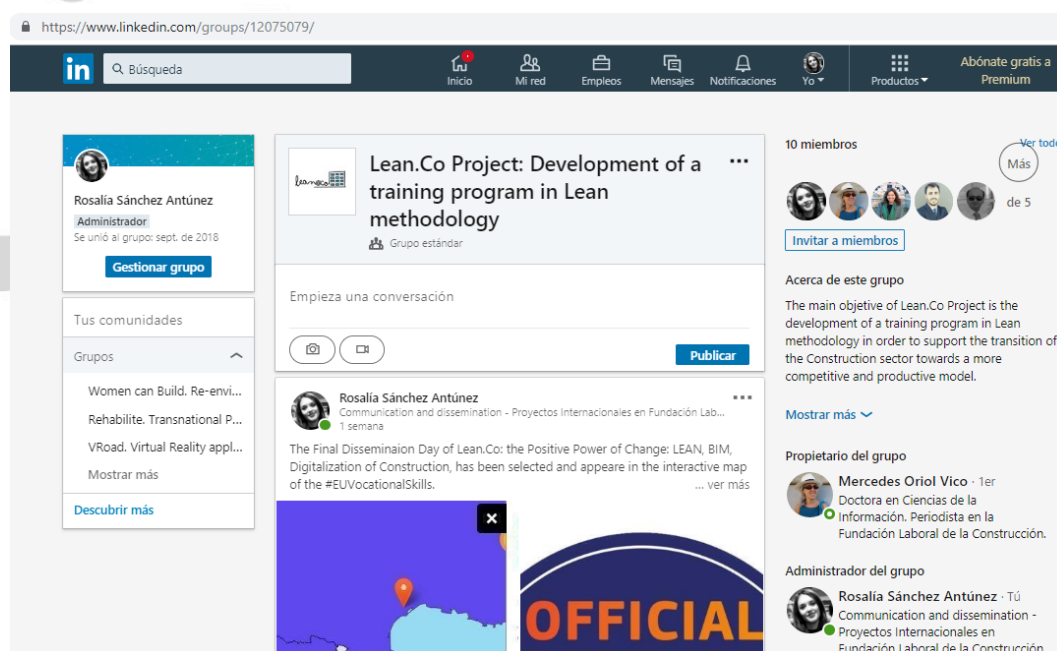
 Fundación Laboral de la Construcción @FundacionLaboralConstruccion	https://www.facebook.com/FundacionLaboralConstruccion/posts/2100571830013597?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion/posts/2087854761285304?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/1105648742945497?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/1125641337612904?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/1107383302772041?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/1075007632676275?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/952532754923764?__tn__=-R

	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/927060277471012?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/897560207087686?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/777059265804448?__tn__=-R
	https://www.facebook.com/FundacionLaboralConstruccion.Navarra/posts/776602045850170?__tn__=-R
	https://www.facebook.com/permalink.php?story_fbid=548297218926463&id=100012385683911
 <p>Cluster Habitat Sustentável @clusterhabitat</p>	https://www.facebook.com/clusterhabitat/photos/a.334748299907703.72079.145689325480269/1573862459329608/?type=3&theater
	https://www.facebook.com/clusterhabitat/posts/1605286946187159
	https://www.facebook.com/clusterhabitat/photos/a.345727838809749/1772220426160476/?type=3&theater
	https://www.facebook.com/clusterhabitat/photos/a.345727838809749/1777864158929436/?type=3
	https://www.facebook.com/clusterhabitat/photos/a.345727838809749/1777864158929436/?type=3&theater
	https://www.facebook.com/clusterhabitat/posts/1794734450575740?__xts__[0]=68.ARBGCbWgISi4c_2z0_BmRYGG5Ku6XtfLAMQjYUgPoUDny2VGGJlzzj8cP2zEkZPfV3rEovFzvZYQWxsgSW2WcwI5NXm59qRE51FOAwM2G5fL8wS3WgCi4DGSrNdHkwJvNG-G97fu2Mt6_oeZPleGCD7F5_-o2xJpz8rXtjHfSZTgU1Dw53srzLudQJWAlluF-ICGtuDIALs&__tn__=-R
 <p>Politechnika Warszawska @politechnika.warszawsk a</p>	https://www.facebook.com/smartcitypw/posts/1265661713516736?__tn__=-R

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model



<https://www.linkedin.com/groups/12075079/>



The Lean.Co group in LinkedIn is integrated by 10 members and 17 posts have been disseminated on the project or related topics, supporting the dissemination of the project.



Also, Partners have contributed to development of the project dissemination goals through their corporate social networks, which can be seen in the examples of the following tables.







 <p>Cluster Habitat Sustentável</p>	https://www.linkedin.com/feed/update/urn:li:activity:6443139061375995904
	https://www.linkedin.com/feed/update/urn:li:activity:6444908699218776064
	https://www.linkedin.com/feed/update/urn:li:activity:6447768003655405568
	https://www.linkedin.com/feed/update/urn:li:activity:6450289140545261569
 <p>Tipee 250 seguidores</p>	https://www.linkedin.com/feed/update/urn:li:activity:6449994001557790720
	https://www.linkedin.com/feed/update/urn:li:activity:6446356691201196032
	https://www.linkedin.com/feed/update/urn:li:activity:6442360941433614338
	https://www.linkedin.com/feed/update/urn:li:activity:6440113873034059776
	https://www.linkedin.com/feed/update/urn:li:activity:6401687356348391424

	https://www.linkedin.com/feed/update/urn:li:activity:6253221580311273473
	https://www.linkedin.com/feed/update/urn:li:activity:6402902276842811392
	https://www.linkedin.com/feed/update/urn:li:activity:6446360254392467457
	https://www.linkedin.com/feed/update/urn:li:activity:6448207695798505472
	https://www.linkedin.com/feed/update/urn:li:activity:6448889479032905728









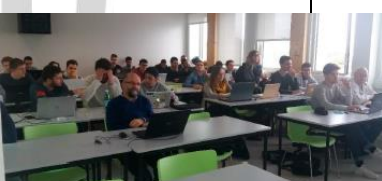

7. DISSEMINATION OF THE PROJECT IN EVENTS

Country	Partner	Media	Date	Evidence
Spain	Fundación Laboral de la Construcción	Kick-off meeting of Lean.Co Project in Huarte in Navarra (Spain)	18/10/2016	10 representatives of the Partnership of the project Photo 
		Presentation of Lean.Co by Javier González, head of Internacional Projects manager of Fundación Laboral, in multiplier event «Continuing VET Training Programme in Lean Construction to support the transition of the construction sector towards a more competitive and productive model in Lisbon (Portugal)	12-13/06/2017	18 assistants representatives of the Portugal construction sector Photo 
		Presentation of the Project to the Navarra Territorial Council of Fundación Laboral in Navarra (Spain)	21/09/2017	8 construction professionals interested in the Lean methodology applied to the sector Photos  
	Asociación de Constructores Promotores de Navarra (ACP)	Presentation at Governing Board and Annual General Assembly of ACP in Navarra (Spain)	24/10/2016	25 representatives of the developer companies and associated developer-builders Photo 
		Presentation in the Internal Commission of ACP in Navarra (Spain)	26/06/2017	8 representatives of the developer companies and associated developer-builders
		Dissemination of the project to Association Régionale des CFA du BTP d'Aquitaine in Bordeaux (France)	04/07/2017	11 assistants

		Dissemination of the project to NASUVINSA, (Public company under the Department of Development of the Government of Navarre. Its objective is the sustainable territorial and urban development of the Navarre Regional Community and the promotion and management of land and real estate, especially protected housing) in Navarra (Spain)	29/08/2017	5 assistants
		Dissemination of the project to the Official College of Industrial Engineers of Navarra (COIINA) in Navarra (Spain)	30/08/2017	4 assistants
		Dissemination of the project to ASCOBI, (Asociación de Constructores y Promotores de Bizkaia)	19/10/2017	4 assistants
		Dissemination of the project to Social Rights Counselor and Director of the Housing Service of the Government of Navarra	16-17/10/2017	5 assistants
		Dissemination of the project NASUVINSA, COIINA, COATNA, COAVNA, ANECOP, and Fundación Laboral de la Construcción in Navarra (Spain)	03/11/2017	51 professionals from the construction and residential construction sector of Navarra (Spanish region) Photos
				
		Presentation of Lean.Co project to the Annual General Meeting of the Association of Developer Builders of Navarra (Spain)	22/11/2017	17 professionals of the developer companies and associated developer-builders Photo
				
		Presentation of the project to the Governing Board of ACP de Navarra(Spain)	18/12/2017	5 assistants representatives of the developer companies and associated developer-builders
		Dissemination event of the Lean.Co pilot experience in Huarte (Spain)	02-05/2018	30 trainees of the developer companies, associated developer-builders,

			Architects, Industrial Engineers, Road Engineers, and Building Engineers
			Photos
		Dissemination of the project to the Social Rights Counselor and Director of the Housing Service of the Government of Navarra (Spain)	24/04/2018 4 assistants
		Dissemination of the project to the organizers of the Forum Hiria, which was organized by the newspaper Diario de Noticias, addresses different aspects of the Navarra economy	08/05/2018 Forum attendees from various sectors of society
		Fifth partners meeting in Huarte (Spain)	17/09/2018 8 Partnership of the project Photo 
		Multiplier Event of Lean.Co project «Thee Positive Power of Change: LEAN-BIM-Digitalization of Construction» in Navarra (Spain)	18/09/2018 79 assistants: Promoters, promoters, associated builders, architects, industrial engineers, road engineers, and building engineers. Photos   
		Presentation of the Multiplier Event to the Governing Board of ACP de Navarra (Sapin)	04/11/2018 8 assistants of the developer companies and associated developer-builders







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France	Eskal Eureka/ Bateko (This partner left the project on 03/2017)	Second partners meeting in Bidart (France)	01-02/02/2017	11 Partnership of the project Photos
				
	Technological & Innovative Platform for Environmental Efficiency (Tipee) (This partner joined the project on 10/2017)	Dissemination event of the Lean.Co pilot experience in La Rochelle (France), based on the first two parts of the project (Conceptual Level and Operative Level)	8-12/01/2018	16 participants as a trainees Photos
				 
		Dissemination event of the Lean.Co pilot experience in La Rochelle (France), focused on the Conceptual Level and Operative Level parts of the project	19-23/02/2018	27 participants as a trainees Photos
				 
		Dissemination event of the Lean.Co pilot experience in La Rochelle (France), based on the last three parts of the project (Operative Level, Transversal Level and Implementation Level)	05-09/03/2018	30 participants as a trainees Photos
				
		Multiplier event «Lean? BIM? Kezako?» in La Rochelle (France)	25/09/2018	46 participants, most of whom were local assistants Dissemination through social networks


			 	Photos
Portugal	Centro Habitat Sustentável (CHS)	<p>Presentation of Lean.Co project at the 21th General Assembly of the Sustainable Habitat Cluster in the University of Porto (Portugal)</p>	24/03/2017	<p>49 assistants Agents from the Habitat value chain involving on areas from the extractive sector to processing of building materials, as well as construction and rehabilitation and also other activities involving suppliers of goods and equipment for the built environment (Habitat)</p> <p>Photos</p>
				
		<p>Presentation of Lean.Co in Techdays Aveiro 2017 (Portugal)</p>	12-14/10/2017	<p>TICE interlocutors and professionals of all the sectors that benefit from TICE to create innovative responses to solve their daily problems</p> <p>Photos</p>
		 	24/03/2018	<p>8 Partnership of the project</p> <p>Photo</p>






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		Dissemination event of Lean.Co Training Programme, pilot-testing in Aveiro University (Portugal)	13/04/2018 – 08/06/2018	9 professionals of the construction sector Photos
				
		Lean.Co Multiplier Event «Lean Construction Challenges» in Aveiro University (Portugal)	21/09/2018	45 Professionals and students of the construction sector Photos
				
				
				
Poland	Politechnika Warszawska (WUT)	Participate in the 5th International Scientific Conference «Integration, Partnership and Innovation in Construction Science and Education» in Moscow (Russia)	16-17/10/2016	Approx. 100 participants of the construction companies representatives and academic tutors Photo
				
		Participate in the meeting with Faculty Project Advisory Board at WUT (Warszawa, Poland)	25/10/2016	Approx. 35 participants among which were presidents and directors of prominent Polish and international construction companies Photo
				


	Participate in the opening session of Postgraduate studies Management of infrastructure projects in railway construction at WUT (Warsaw, Poland)	04/11/2016	Approx. 30 participants representatives of Polish construction companies, and experts from local authorities Photo
			
	Presentation and poster session in Mikolajki (Poland) session during Conference titled: CSR in construction. Responsible business in irresponsible world	25/11/2016	Approx. 65 participants among which were presidents, directors, and other representatives of prominent Polish and international construction companies Photos
			
	Presentation of the projects ideas and assumptions at the Diploma Award Ceremony, Postgraduate Studies «Management in construction» at WUT (Warszawa, Poland)	27/01/2017	Approx. 50 participants which were civil engineers and academic tutors Photo
			
	Presentation of the Lean.Co projects ideas and assumptions at the Business Mixer meeting at WUT (Warszawa, Poland)	28/01/2017	6 participants as a civil engineers, managers and experts from construction industry Photo
			
	Meeting with Faculty Project Advisory Board and with professional Magazine at WUT (Warszawa, Poland)	07/03/2017	Approx. 40 participants representatives of the presidents and directors of prominent Polish and international construction companies Photo
			
	Presentation of the project at MSc. studies Diploma	19/03/2017	15 young civil engineers

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		Seminar at classes in English at WUT (Warszawa, Poland)		Photo 
		Presentation of the projects ideas and assumptions at the official opening ceremony of Postgraduate Studies «Management in construction» at WUT (Warszawa, Poland)	07/04/2017	Approx. 40 participants which represented professionals civil engineers, managers and experts from construction industry and University tutors Photo 
		Presentation of the Lean.Co projects ideas and assumptions at the meeting of Industrial Chamber of Land Transport in Ożarów Mazowiecki (Poland)	19/04/2017	30 participants which were civil engineers, managers and experts from construction and transport industry Photo 
		Presentation of the Lean.Co project ideas and assumptions at Building Fairs 2017 in Nadarzyn, (Poland)	21-23/04/2017	The event has approx. 15,000 attendees, most of whom were civil engineers, managers and experts from the construction industry Photo 
		Presentation of the projects ideas at the leaflets displayed at the Faculty corridors at WUT (Warszawa, Poland)	22/04/2017	Approx. 800 viewers: civil engineers, managers and experts from construction industry, University tutors, MSc. students (young engineers) Photo 


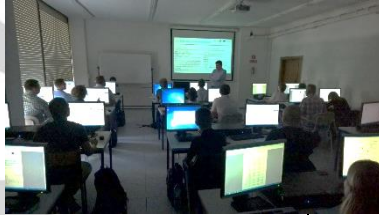
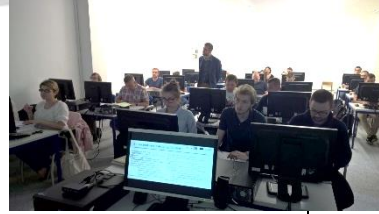




		<p>Presentation of the Lean.Co projects ideas and assumptions at International Erasmus Fairs 2017 in Sibiu University (Romania)</p> 	08-12/05/2017	<p>Approx. 400 participants. civil engineers, managers and experts from construction industry, University staff and MSc. students (young engineers)</p> <p>Photo</p>
		<p>Presentation of the Lean.Co projects ideas and assumptions at Erasmus+ ARFAT meeting in Madrid (Spain)</p> 	19/05/2017	<p>Approx. 20 participants representatives of civil engineers, experts from construction industry, distance learning tutors</p> <p>Photo</p>
		<p>Presentation of the projects ideas and assumptions at XXVI Russian-Slovak-Polish Conference in Warsaw, Theoretical Foundations of Civil Engineering, publication in MATEC (see publications chapter) in Warsaw (Poland)</p> 	22/08/2017	<p>Approx. 60 participants: civil engineers, experts from construction industry, distance learning tutors and MSc. students from Russia, Slovakia, Poland and other EU countries</p> <p>Photo</p>
		<p>Presentation of the Lean.Co Project and discussion with young engineers at WUT (Poland)</p> 	04/10/2017	<p>Approx. 15 participants from the sector: civil engineers, managers and experts from construction industry</p> <p>Photo</p>
		<p>Presentation of the Lean.Co Project and discussion with experts in computer methods, construction and education at Stavanger University (Norway)</p> 	05/10/2017	<p>Approx. 12 participants representatives of the civil engineers, managers and experts from EU construction industry from Norway, Italy and Finland</p> <p>Photo</p>

		<p>Presentation of the Lean.co Project and discussions during ERASMUS+ meeting, in Bratislava (Slovakia)</p> 	10/10/2017	<p>Approx. 50 participants from ERASMUS+ agencies and VET experts from different EU countries (AT, BG, CZ, DE, HR, HU, PL, RO, SI and SK)</p> <p>Photos</p> 
		<p>Presentation of Lean.Co and discussions at the meeting with the ERASMUS+ coordinators at WUT (Warszawa, Poland)</p>	20/10/2017	<p>Approx. 12 participants from different faculties at WUT</p> <p>Photo</p> 
		<p>Presentation of the project and discussion with the participants of CLOEMC IV project final conference at WUT (Warszawa, Poland)</p> 	27/10/2017	<p>Approx. 60 assistants including: construction engineers, construction workers, governmental representatives, stakeholders and associations in the construction sector, SMEs and companies (construction sector), VET providers, and technical universities.</p> <p>Photo</p>
		<p>Third partners meeting and pilot experience at WUT (Warszawa, Poland)</p> 	7-8/11/2017	<p>Approx. 18 participants: construction engineers, construction workers, governmental representatives, stakeholders and associations in the construction sector, SMEs and companies (construction sector)</p> <p>Photo</p>
		<p>Presentation of Lean.Co and discussion with the education and mentoring experts from Hungary, UK, France and Portugal in Leeds Beckett University (UK)</p> 	21/11/2017	<p>Approx. 12 participants representatives of mentoring specialists, SMEs and companies (construction sector)</p> <p>Photo</p>

		<p>Presentation (+poster session) of the project and discussion with the directors, managers and CEOs of Polish construction companies during Conference in Mikołajki (Poland)</p> 	<p>24/11/2017</p> 	<p>Approx. 40 participants including: directors, managers and CEOs of Polish construction companies</p> <p>Photos</p>
		<p>Presentation of the project and discussion with the education and Augmented Reality from Germany, Poland, Spain in Darmstadt Technical University (Germany)</p> 	<p>27/11/2017</p>	<p>Approx. 10 participants which were directors, managers and CEOs of German, Spanish and Polish construction companies and Universities</p> <p>Photo</p>
		<p>Presentation of the project and discussion during Dean Advisory Board meeting at WUT (Warszawa, Poland)</p> 	<p>12/12/2017</p>	<p>Approx. 40 participants, including: directors and CEOs of Polish construction companies</p> <p>Photo</p>
		<p>Presentation of the Lean.Co project's aim and assumptions during international meeting in Polytechnic University of Catalonia (Spain)</p> 	<p>07/03/2018</p>	<p>Approx. 10 diagnosis experts from Poland, Spain, Portugal and UK</p> <p>Photo</p>
		<p>Presentation of the Lean.Co project's aim and assumptions during international meeting in Ferrara University (Italy)</p> 	<p>21/03/2018</p>	<p>Approx. 80 diagnosis experts from Poland, Spain, Portugal and UK</p> <p>Photo</p>

Development of a training program in Lean methodology in order to support the transition of the Construction sector towards a more competitive and productive model

		<p>Presentation of the Lean.Co project's aim and assumptions during Ferrara fair: XXV Cultural heritage preservation, museums and creative and cultural business trade show. Technologies for existing buildings and cultural heritage diagnosis and management in Ferrara Fiere Congressi (Italy)</p> 	<p>22/03/2018</p> <p>Approx. 60 participants coming from: construction engineers, construction workers, governmental representatives, stakeholders and associations in the construction sector, SMEs and companies (construction sector), VET providers and technical universities</p> <p>Photo</p>
		<p>Presentation of the projects ideas and assumptions at the official opening ceremony of Postgraduate Studies «Management in construction» at WUT (Warszawa, Poland)</p> 	<p>06/04/2018</p> <p>Approx. 40 civil engineers, managers and experts from construction industry and University tutors</p> <p>Photo</p>
		<p>Presentation of the projects ideas and assumptions at the General Assembly of Polish Association of Building Managers in Warsaw (Poland)</p> 	<p>10/05/2018</p> <p>Approx. 50 participants, including: civil engineers, managers and experts from construction industry and University tutors</p> <p>Photo</p>
		<p>Presentation of the Lean.Co projects ideas and assumptions at the Erasmus+ Mentor Partners meeting in Catholic University Porto (Portugal)</p> 	<p>17/05/2018</p> <p>Approx. 10 participants which were civil engineers, managers and experts from construction industry and University tutors</p> <p>Photo</p>
		<p>Presentation of the projects ideas and assumptions at the meeting of Sectorial Advisory Board on</p>	<p>21/06/2018</p> <p>30 assistants representatives of civil engineers, managers and</p>

		Construction Competences in Polish Chamber of Construction Engineers Headquarter in Warsaw (Poland)		experts from construction industry Photo
				
		Multiplier event of Lean.Co in Poland	22/06/2018	36 assistants: 28 Polish participants representatives of Polish construction industry, 6 foreign participants from EU (Belgium, France, Germany, Italy and UK) and two presenters participated in the meeting Photos
				
				
				
		Presentation of the Lean.Co projects ideas and assumptions at EDULEARN18, the 10th annual International Conference on Education and New Learning Technologies at Palma de Mallorca (Spain)	2-4/07/2018	Approx. 800 assistants to the event, among whom were Civil engineers, managers and educational personnel, among others - from construction industry, University tutors Photos
				
				
		Participation in the meeting with IPB (construction technologies) 2018 Conference, under the aegis of Polish Academy of Science in Park Hotel Olsztyn (Poland)	23/10/2018	Approx. 100 participants which were representatives of the presidents and directors of Polish construction companies, also academic tutors from 22 'construction related' Faculties of Public Universities in Poland Photo
				
		Presentation of the project in the Erasmus+ IPCIC Partners meeting at WUT (Warszawa, Poland)	29/10/2018	Approx. 10 participants representatives of project Partners from Poland, Lithuania and Italy,

			vocational schools and professional associations Photo
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8. BRIEF COMMUNICATION ACTIONS AND RESULTS

Main communication actions and results achieved during the period between October, 2016 and November, 2018 are:

- The graphic line/artwork of the project has been completed with the logotype, general graphic line, several documents and templates, and images for the social networks profiles.
- The Lean.Co website has been designed, edited and released, in Spanish and in English.
- All partners have published information on project in their corporate websites.
- The profiles' Lean.Co project in social networks have been created and set in motion. Twitter, Linkedin and Facebook profiles were launched in November, 2017 and currently the project has a total of **204 followers**: Twitter, 182 followers; Facebook, 12 followers; Linkedin, 10 members.
- Lean.Co social networks have been active until November, 2018.
- **36** impacts in media: **2 publications** in Annual Reports (Fundación Laboral de la Construcción); **2 publications** in an International Journal (MATEC Web of Conferences); **1 publication** in international conferences (EDULEARN18, the 10th annual International Conference on Education and New Learning Technologies); **1 impact** in a communication dossier («Descubre tu Fundación» of the Fundación Laboral); **1 presence** in the map of the European Vocational Skills Week 2018.
- **2** call release
- **1** press release
- The partners have made presentations on Lean.Co project in **65 events**, (including **4 Multiplier Events** -208 assistants- and **5 Partnership Meeting**) with **1718 attendees**, approximately (124 trainees in the pilot experiences).

For all these reasons, we consider that the strategy and the communication and dissemination actions/activities carried out by the Lean.Co Partnership have been successful and have exceeded all the indicators.

To analyze and evaluate the project, we considered it necessary to review the situation of the dissemination indicators, in order to check whether what was expected at the beginning of the project has been fulfilled:

Diffusion indicators review			
Ref.	Indicator	Situation reached	To achieve the objectives
CI T1 T1.1	Communication and Exploitation Plan	-Development of the Communication and Exploitation Plan.	Done!
CE T1.2	Design of the logotype and graphic line	-Logotype. -Graphic line. -Applications to documents. -Manual of logotypes use.	Done!
CE T2 T2.1	Web/microsite of the project ES/EN	-Web platform. -Communication of the launch of the social networks.	Done!
CE T2.2	Corporate websites of partners	-URL of the Project presence	Done!
CE T3 T3.1	Social networks profiles of the Project: Twitter, LinkedIn y Facebook.	-Launch. -Followers number. -Update.	Done!
CE T3.2	Corporate social networks of the partners	-Posts and mentions with dissemination of the project.	Done!
CE T4	Advertising campaign: posters, brochures, etc.	-Roll ups. -Brochures. -Posters.	Done!
CE T5	Newsletters of the partners	-Publication and sending's. -Number of subscribers. -Opening indices. -URL of the news.	Done!
CE T6	Relationship with local, regional and national media	-Number of references and appearances in the media. - URL of the news, title, date, media. -Number of media. -Number of Press Releases.	Done!
CI T7 T7.1 T7.2 T7.3 T7.4	Evaluation of communication, impact, transfer and exploitation objectives	-Interim communication reports. -Final Dissemination Report.	Done!
CI/CE T8 T8.1	Consortium Steering Committee Meetings	-Number and description of attendees. -Photographs. -Information in the microsite of the project. -Evidences of the diffusion.	Done!
CE T9	Multiplier Events (in the different Partnership Countries)	-4 multiplier events that will have an impact. -Number and description of attendees. -Photographs. -Information on the project microsite. -Evidences of the diffusion.	Done!
CE T10	International networks and congresses	-Presence in 20 events. -Presentations. -Broadcasting signatures sheet. -Photographs. -Information on the project microsite.	Done!

Annex

Annex 1

Dissemination and Communication Plan

<http://www.fundacionlaboral.org/documento/leanco-desarrollo-de-un-programa-formativo-en-metodologia-lean-para-apoyar-la-transicion-del-sector-de-la-construccion-hacia-un-modelo-mas-c>

Annex 2

Press Call of Fundación Laboral de la Construcción (18/09/2018)



Polígono Industrial de Iruia, C/ Balmori 28
31002, Pamplona (Navarra)
Tel: 941 261 261 / Fax: 941 261 267
www.fundacionlaboral.org

CONVOCATORIA DE MEDIOS

Expertos internacionales debaten en Pamplona sobre las oportunidades que la digitalización ofrece a la industria de la construcción

El vicepresidente foral de Derechos Sociales, Miguel Lapuerta, inaugura la jornada "El poder justiciero del cambio: LEAN-REM Digitalización de la Construcción", dentro del proyecto europeo LeanCo.

Día: martes, 18 de septiembre de 2018
Horario: De 9 a 18 horas

Lugar: Hotel Iruia Reyes (Calle Tacuena, 1, 31002, Pamplona, Navarra)

Asunto: El vicepresidente foral de Derechos Sociales, Miguel Lapuerta, inaugura la jornada "El Poder Justiciero del Cambio: LEAN-REM Digitalización de la Construcción" que, dentro del proyecto interregional LEANCo, tendrá en Pamplona a expertos nacionales e internacionales que analizarán las posibilidades que las nuevas tecnologías, modelos y tecnologías pueden suponer para el sector de la construcción.

MÁS INFORMACIÓN

La construcción afronta un proceso de transformación radical que hará que sea actividad más segura, más competitiva y más sostenible. La innovación y desarrollo de nuevos modelos, modelos y tecnologías abren al sector a un profundo proceso de renovación y transformación, al que se adhieren la industria.

En ese contexto, el vicepresidente foral de Derechos Sociales, Miguel Lapuerta, inaugura el martes, 18 de septiembre, la jornada "El Poder Justiciero del Cambio: LEAN-REM Digitalización de la Construcción" que se celebrará en el Hotel Iruia Reyes de Pamplona de forma interregional desde las 09:00 hasta las 18:00 horas con el patrocinio de Cabildos, Lapuerta será acompañado por Juan Luis Reyes, presidente de la Asociación de Construcción Promotora de Navarra (ACP) y de la Fundación Laboral de la Construcción de Navarra; Enrique Corral, director general de la Fundación Laboral de la Construcción; y José Luis Sanja, director de Iruia de Empresas de Construcción en Navarra.

Convocada en el marco del proyecto europeo de cooperación interregional LeanCo, la Fundación Laboral de la Construcción y la Asociación de Construcción y Promoción de Navarra (ACP) serán las anfitrionas de una día que pretende traer experiencias y lecciones de profesionales de distintos países que han puesto en práctica con éxito la digitalización en el sector de la construcción.



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Así, el programa contempla la exposición de prácticas buenas y malas, además de ofrecer a conocer una serie de datos sobre los recursos humanos de la mano, por ejemplo, de la metodología BIM, que muestra, así, además, la experiencia de Pablo Calvo, socio fundador y consejero de IruiaCo, una de las principales empresas dedicadas a la gestión global en IruiaCo con presencia en Argentina, España, Colombia, Panamá y Perú, entre otros países, o María Rosales, de Tecnología & Innovación Platform for Environmental Efficiency (Tipe), quien mostrará los últimos avances en digitalización de la construcción producidos en España.

Como se verá, la jornada contará también con la intervención de Miguel Lapuerta, responsable de Tecnología de Producción y Gestión en IruiaCo, además de Pablo Calvo, socio fundador de ACP y consejero en el desarrollo del sistema de producción Lean; Miguel Infante Vega, director general de Corral Ingeniería Arquitectónica; Juan Carlos Rosales, director del grupo Iruia; Juan Fernández, de AI Top Technology; o Miguel Arribas, socio fundador de IruiaCo, entre otros, presentes.

CONVOCADO

LeanCo es un proyecto para el desarrollo de formación de profesionales en la metodología Lean Construction, que pretende mejorar la competitividad de los emprendedores, de los pequeños y muy pequeños de trabajo, así como fomentar la formación de la industria hacia un nuevo modelo constructivo, más competitivo y productivo.

Una iniciativa liderada por la Fundación Laboral de la Construcción, perteneciente al Programa Resumir de la Unión Europea, dentro de la Acción Clara 2 de Cooperación para la innovación y el desarrollo de Buenas Prácticas. En ella participan otros cuatro socios: Asociación de Construcción Promotora de Navarra (ACP), Tecnología & Innovación Platform for Environmental Efficiency (Tipe) (Francia), Centro de Estudios Tecnológicos (CET) y Politécnica de Valencia (España). Se puso en marcha en octubre de 2017 y finaliza este mes de septiembre.

SOBRE LA FUNDACIÓN LABORAL DE LA CONSTRUCCIÓN

La Fundación Laboral de la Construcción comenzó su actividad en el año 1982, fruto de un aligero social extendido entre la corporación y los estudiantes del sector. La Confederación Nacional de la Construcción (CNCT), CCNT de Construcción y Servicios, y la Federación de Industria, Construcción y Agua de IUT (FICIA).

El objetivo de crear este aligero social fue por y para el sector, mediante el Consejo General del Sector de la Construcción, una proporción a empresas y trabajadores los recursos que deberían poseer un sector más profesional, seguro, competitivo y con futuro.

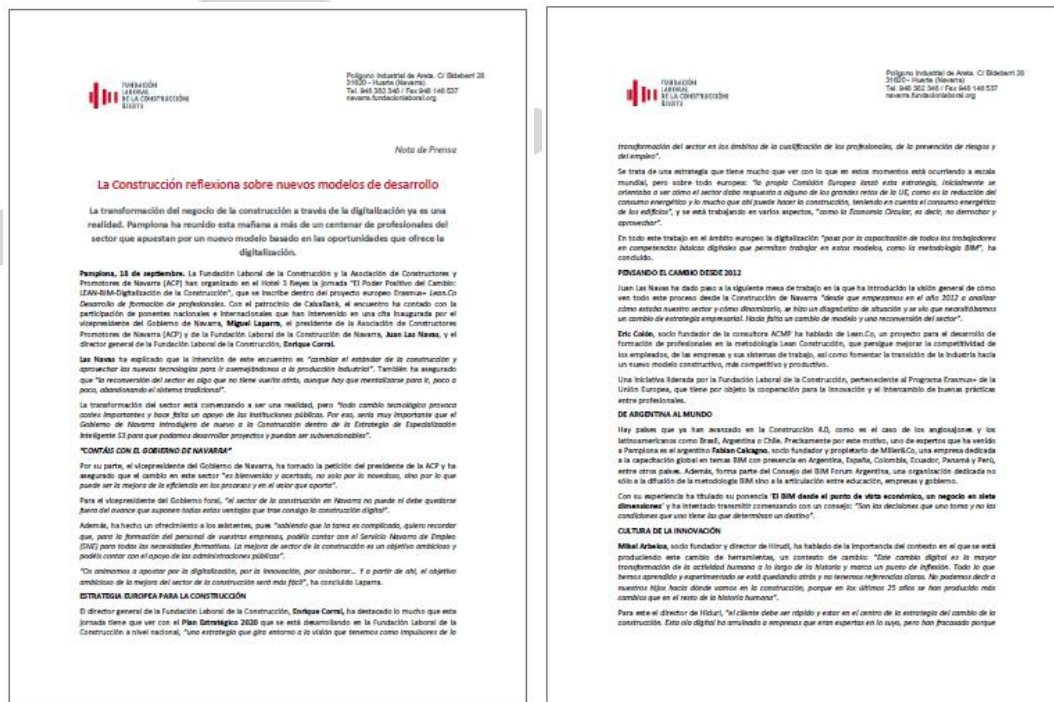
La Fundación Laboral de la Construcción forma cada año a una media de más de 10.000 profesionales del sector, lo que la convierte en una de las principales entidades formadoras de España en número de alumnos, por encima de la mayoría de las universidades de nuestro país.

Cada año imparte más de 5 millones de horas de formación, de las cuales, más de un tercio son de materias relacionadas con la innovación de nuevos sistemas. Total convalidado por 17 Centros Tecnológicos y 16 Centros de Formación propios distribuidos por toda España, 22 de los cuales poseen un Centro de Prácticas Prevencionales, en los que los profesores enseñan a los alumnos los riesgos reales que pueden correr en los obra y otros prevencionales. Para impartir los más de 200 especialidades formativas que ofrece, cuenta con la colaboración de más de 1.400 formadores especializados en las más diversas materias relacionadas con el sector de la construcción.

Presencia de contacto: Iruia Reyes, M. 941 261 261 / 941 261 267.
Presencia de información: <http://www.fundacionlaboral.org/leanco>

Annex 3

Press Released of Fundación Laboral de la Construcción (18/09/2018)



Annex 4

Inżynier Mazowska, nr 1 (7) January, 2018, page 6: Civil Engineering Faculty Warsaw University of Technology - Cooperation with construction sector



Coordinator of the project:



Fundación Laboral de la Construcción (Spain)

Partners of the project:



Asociación de Constructores Promotores de Navarra (Spain)



Technological & Innovative Platform for Environmental Efficiency -Tipee- (France)



Centro Habitat Associacao Plataforma para a Construcao Sustentavel (Portugal)



Politechnika Warszawska (Poland)

