

ERAIKUNE

Construction Cluster

Clúster de la Construcción de Euskadi

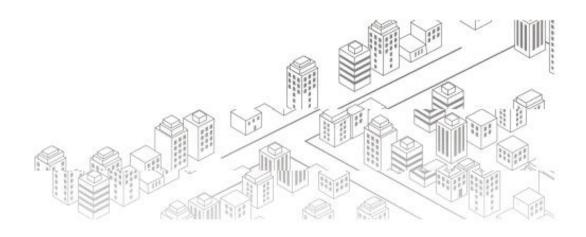
INDEX

- What is Eraikune?
- 25 Years of cluster policy in the Basque Country
- Eraikune. Some figures.
- Construction cluster's stakeholders
- Basque cluster construction sector
- Cluster organization and management
- Strategic Plan 2016-2018
- Working groups
- Launched projects 2017
- Launched projects 2018
- Services
- Intercluster





ERAIKUNE CLUSTER





Strategic Collaboration area Efficient resource in order to connect companies, universities, technological centers and other agents within the field

3

Innovation and internationalization projects' coordination and development



1

Non-profit private entity of the construction industry in the Basque Country 5

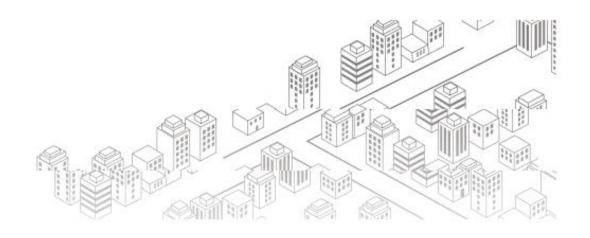
Tool for the competitive improvement through collaboration

4





25 YEARS OF CLUSTER POLICY IN THE BASQUE COUNTRY







INTERNATIONALISATION

- New markets
- Intercluster collaboration projects
- Support during the process of implementation of companies abroad



TECHNOLOGICAL INNOVATION

- Innovative and technological content
- Convergent technologies
- RVCTs collaboration
- Environmental and energetic sustainability
- Advanced manufacturing processes
- New technologies: TEICs, BIO,
 NANO, Sustainable energy and Green economy.



BUSINESS' INNOVATION

- Complete chains of activity
- Intraentrepeneurship initiatives
- Measurement and convergence of companies
- People's participation in companies
- New business models
- New financial tools
- •Line-up the cluster's action with the intelligent specialitation strategy
- Different actions linked to Advanced Manufacture, in the non-technologic environment, including the implementation of TEIC's tools for companies.



25 YEARS OF CLUSTER POLICY IN THE BASQUE COUNTRY

It is a value generator tool for its environment, consequent result of the **public-private cooperation** in the lining-up of its actions with the display of the institutional strategic policies, industrialization plan, internationalization, innovation and technology science, RIS3 – Intelligent specialization, etc.

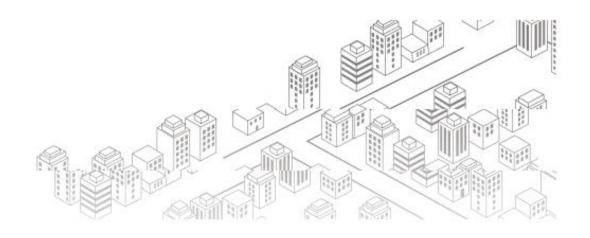
Its objective is the encouragement of the cooperation among its members when addressing the strategic challenges of each cluster, in a focused perspective towards the SMEs strengthening.







ERAIKUNE – SOME FIGURES





Representation Total number of partners 83 Presence in Araba in every linking Sectorial representatives 20 the Basque Bizkaia point of the **Knowledge & Technology 6** Gipuzkoa Country **Core Business 57** value chain Micro (1-9) 20 % Representation in small, medium SMB (10-50) 26 % and big companies Big (> 50)54 % 9.000 2.000 M EUR Eraikune's invoicing/ Basque **Eraikune's Employment/** employments **Countries construction GDP Basque Countries Sector** 50% 16%

300,9 M€

Partners' Exports

22,7 M€

Eraikune's Partners' Investment on R & D

7%

76%

19%



Cluster Policy

The Cluster Policy defines the role of the different clusters and their technic requirements.

Clusters are defined as a tool for the business competitiveness (making easier de cooperation between entities and reinforcing their competitiveness) and also as a government ally in the regional development.

The Basque Government defined its RIS3 Strategy to the requirement of the Basque Country, and launched the PCTI, with the different market niches and specific strategic lines for each one.

Scientific and Technological Capabilities Advanced Manufacturing **Bio-Science** Machine Health Energy Electricity Oil & Gas Renewable E. Opportunity fields Nutrition Ecosystems **Urban Habit** Creativity **Business Capabilities** habi mlc-its-euskadi 2004 2005 2008 2009 2012 2010

PCTI Basque Country 2020: Vertical Strategic Priorities





















1996





1998



Cluster Policy

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PCTI - RIS3 Strategy

OPPORTUNITY NICHE ON URBAN HABITAT AND SUSTAINABLE CONSTRUCTION

Strategic lines

Automated Construction and Virtual Updating

Refurbishment and Urban Regeneration

Cities, Districts and Intelligent buildings

New Materials for a Sustainable Construction

Vertical and Horizontal Accessibility and Mobility

Eraikune's Strategy

Work Groups



BIM – Automated Construction



Refurbishment and Urban Regeneration



Smart cities - ZEB



Materials



International

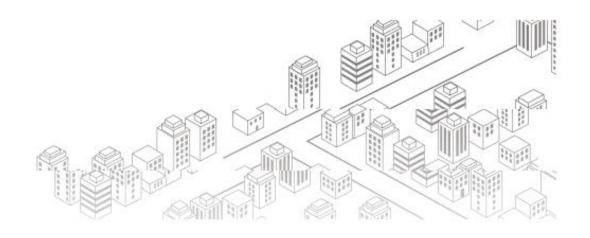


Infraestructures





CONSTRUCTION CLUSTER'S STAKEHOLDERS

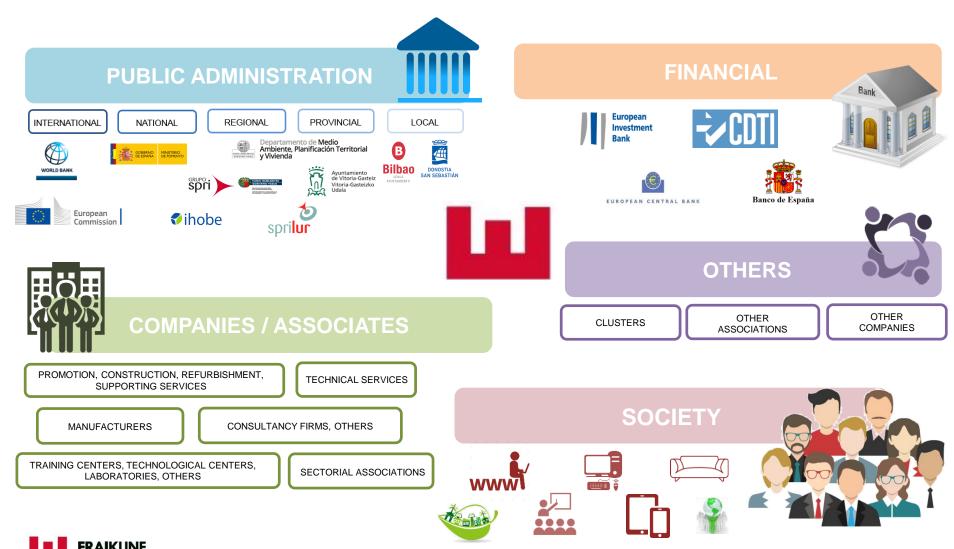


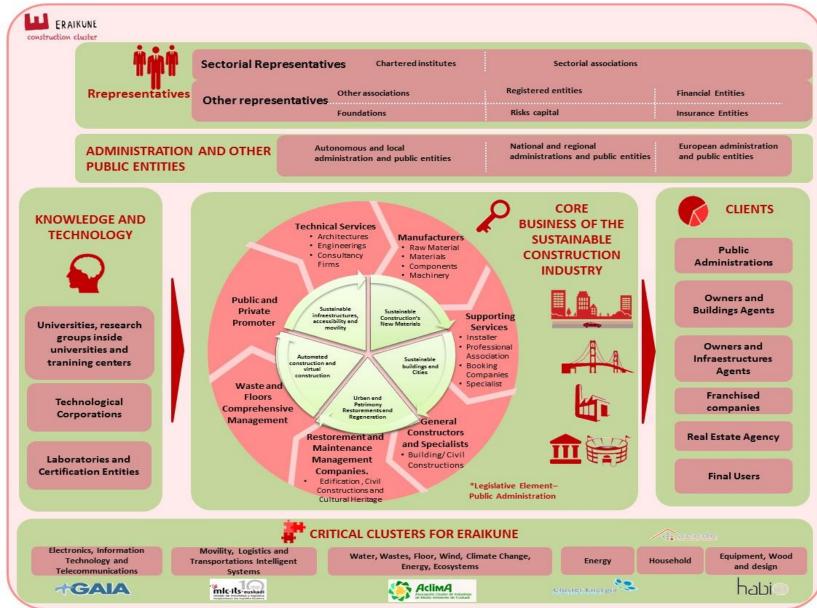


ERAIKUNE. STAKEHOLDERS

Construction Cluster

Stakeholders are those entities, public administrations and entities, persons, organizations, and those parts of the society at large that are involved directly, indirectly or have influence on cluster activities.







PROMOTION, CONSTRUCTION, REFURBISHMENT, SUPPORTING SERVICES

















































ERAIKUNE. STAKEHOLDERS

TECHNICAL SERVICES

















































ERAIKUNE. STAKEHOLDERS

MANUFACTURERS

















CONSULTANCY FIRMS, OTHERS











ASSOCIATIONS, CHARTERED INSTITUTES, TRAINING CENTERS, TECHNOLOGICAL CENTERS, LABORATORIES, OTHERS



























bizkaiko aparailari eta arkitekto teknikoen elkargo ofiziala



colegio oficial de aparejadores y arquitectos técnicos de bizkaia



ERAIKUNE. STAKEHOLDERS

Moreover, ERAIKUNE disposes collaboration agreements with public entities with whom it developes especific actions



Departamento de Medio Ambiente, Planificación Territorial y Vivienda

















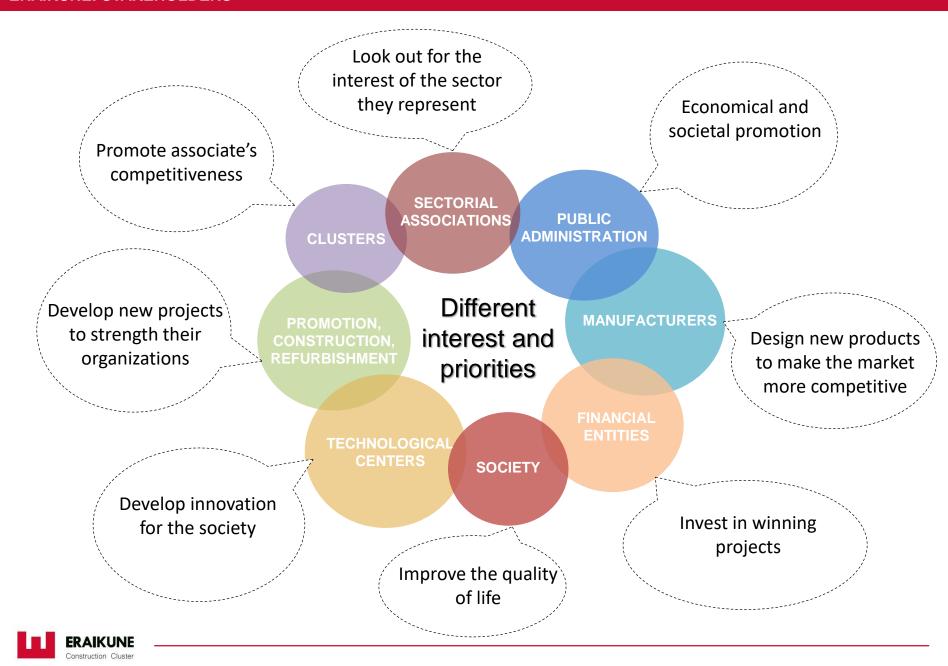












Activities with Stakeholders

Investment Plans

Technical visits

Industrial visits

Investment plans

Workshop to present the public investment plans from different public entities.

Involved Stakeholders: Public administrations, companies & society

Grants

Presentation of grant programs from different entities.

Involved Stakeholders: Public Administrations, companies & Tech centers

Industrial visits

Visit with clients, suppliers and prescribers to construction oriented main factories.

Involved Stakeholders : Companies & manufacturers

Technical visits

Technical visit to emblematic projects. Infrastructure, architectural, engineering,...

Involved Stakeholders : Public entities, companies & society



Activities with Stakeholders

Workingdynamics

Innovation Days

Disitalization

Working dynamics

Open workshops oriented present associate's capabilities to other associates. Clients-suppliers-prescribers.

Involved Stakeholders: Companies, tech administrations, centers. Public Sectorial associations & Others

Intersectorial Brunches

Workshops between associates and other sector's companies (and clusters) aimed to develop new business opportunities.

Stakeholders: Companies, Involved financial sectorial associations, clusters, entities, manufactures & Others

Digitalization

Presentation of the latest tools to digitalize the construction sector (BIM, ERP, CRM, social networks, big data, monitoring,...

Involved Stakeholders: Companies, tech

centers & society

Innovation Days

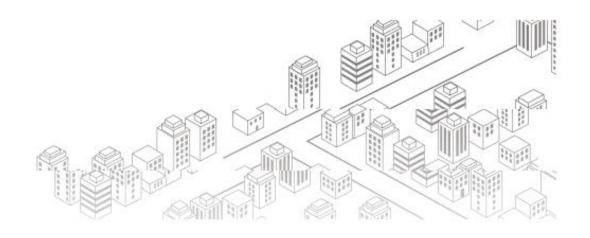
Presentation by tech centers of the latest advances in the innovation and technological field applied to construction sector.

Involved Stakeholders: Companies, clusters, & society





BASQUE COUNTRY'S CONSTRUCTION SECTOR

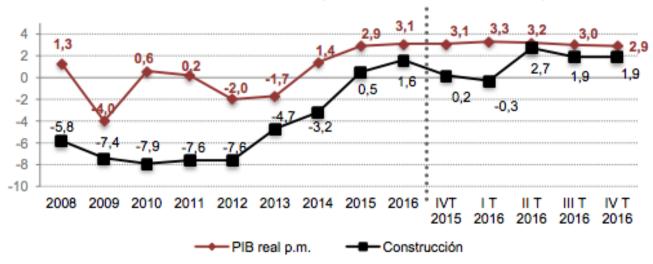




In **2016**, the activity recovery started in 2015, gets consolidated and intensified.

The added value of the construction sector in 2016 has increased in a 1,6% and supposes the 61,5 of the production of 2007.

Evolución comparada del PIB real a precios de mercado de la CAE y del valor añadido del sector de la construcción 2008-2016. (Tasas de variación interanual)

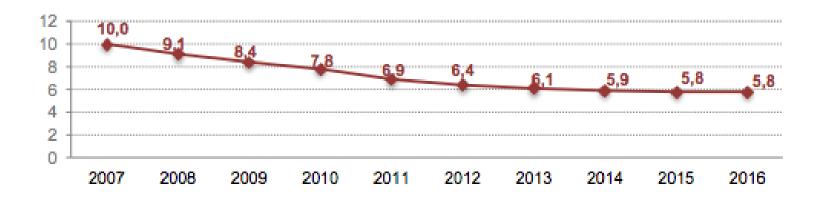


Source: El sector de construcción en la CAE: evolución 2008-2016



In 2016, the **sectorial production** supposes the **5,8% of the basque economy**, a very far ratio comparing with the achieved one at the beggining of the economic recession, so that in 2007 meant the 10%.

Evolución del peso relativo del valor añadido del sector de la construcción sobre el conjunto de la economía vasca 2008-2016. (Tasas de variación interanual 2007-2016)

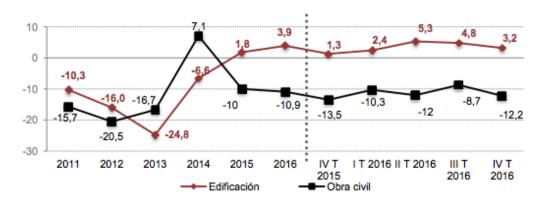


Source: El sector de construcción en la CAE: evolución 2008-2016



Activity linked to **edification** is what currently drives the sector in the process of recovery against the most negative behaviour observed in the activity liked with **civil work**.

Índice de Coyuntura del Sector de la Construcción en la CAE. (Tasas de variación interanual)



Fuente: Eustat

Civil Work activity 2016 - **10,9%**

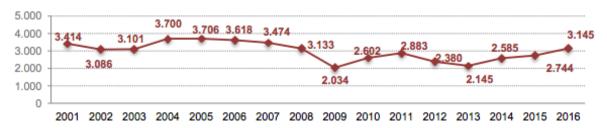
Edification activity 2016 - 3,9%

Source: El sector de construcción en la CAE: evolución 2008-2016

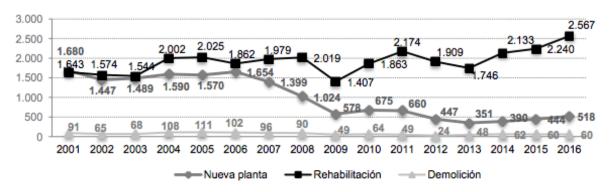


In 2016, increases significantly the number of construction licenses, in those of new plant, as well as the restoration ones.

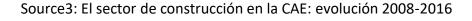
Evolución de las licencias de obra mayor según tipo de obra en la CAE. 2001-2016



New construction +16,6%



Refurbishment +14,5%





In 2016, the price of the new housing in the Basque Autonomous Community was yet placed in levels significantly remote to those of previous years to the beginning of the economic crisis, at least 25 points under historic maximums.

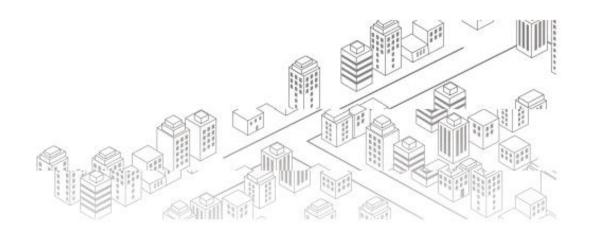
Evolución del índice de Precios de la Vivienda (IPV). 2007-2016 Estado 103,73 110 102,90 98.46 96,36 100 88.12 90 98,87 78,49 81,20 77,82 80 88,25 85,18 83,79 70 72,32 60 62,16 50 40 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 Vivienda nueva Vivienda segunda mano CAE 100,82 110 101.35 94,83 100 91,66 90 99,73 80,88 75,93 80 87,28 80,68 80,36 70 70,61 60 55.80 59,78 50 54,50 54,52 2010 2007 2008 2009 2011 2012 2013 2014 2015 2016 Vivienda nueva Vivienda segunda mano Fuente: INE







CLUSTER ORGANISATION AND MANAGEMENT





MEMBER ASSEMBLY

The member assembly is the Organ of control of the association and must validate management board's performance annually.

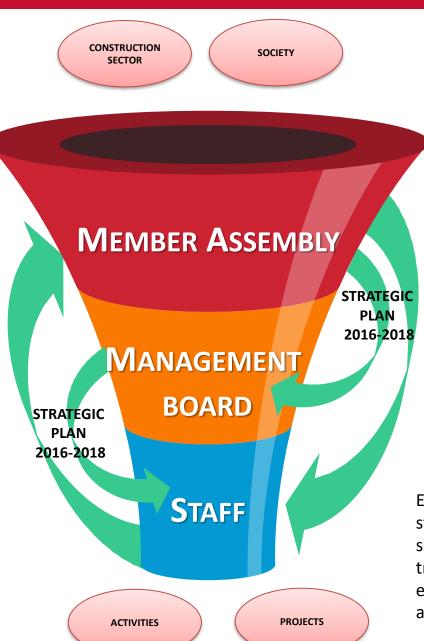
The assembly approves the strategic plans and annuals accounts proposed by the management board

MANAGEMENT BOARD

The management board defines association's strategic plan, key areas of interest, activities and tasks.

The management board meets every month with the general director in order to analyse cluster's evolution.





STAFF

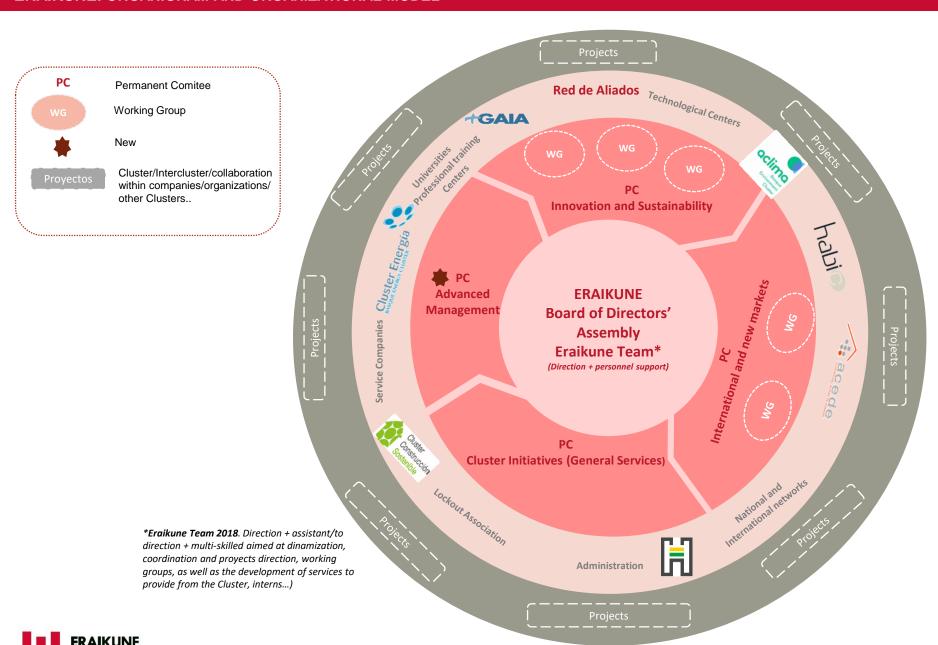
The general director delivers tasks to the staff related to the strategic plan, key areas, activities and tasks defined by the management board.

The staff listens to the companies in order to detect and kick off projects and activities of cluster's interest.

STRATEGIC PLANS

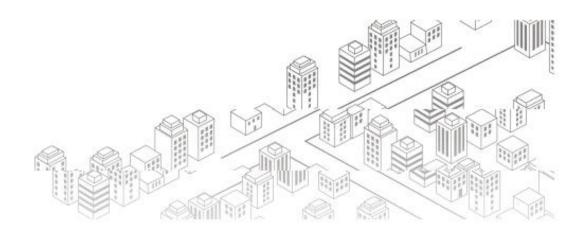
Each 3 years is defined a new strategic plan which gives sense to cluster's actions, trying to answer to the expected sector's reality and associate's needs.

ERAIKUNE. ORGANIGRAM AND ORGANIZATIONAL MODEL





THE CLUSTER IN DATA





AIMS AND OBJECTIVES

Be a reference cluster of the construction industry, economic, social and territorial transformation driving force of the Basque Country

GROW, LOOKING FOR SUSTAINABILITY

ACHIEVE CLUSTER'S VISIBILITY

STRENGHT THE COMPETITIVENESS OF THE CONSTRUCTION INDUSTRY

- ☐ Accomplish the requirements of Clúster Policy 2017.
- ☐ Gain new partners.
- □ Look deep into the integration and opening of key entities.
- ☐ Develop relations of loyalty with the partners.
- Increase the recognision and representativeness of Eraikune.
- ☐ Improve the recognision of the Construction Industry through the interest groups.
- Ease the processes oriented to internationalisation, innovation, and convergence process that lead to the search of a remarkable dimension which make them able to achieve the future objectives.
- ☐ Be the agent of change towards new paradigmas.

Everything, through the development of collaboration on every levels inter-company, inter-sectorial, inter-cluster and public/private

Light Structure

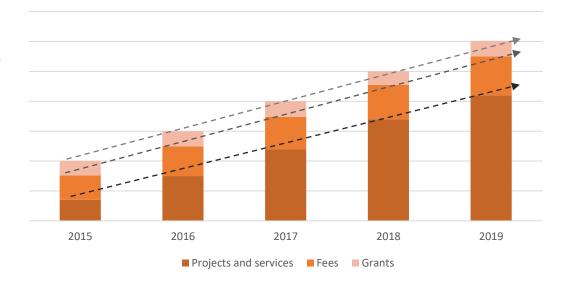


Revenues Model and Horizon Expenses 2019

35% revenues per projects 2015 **2 people** (Director + 2 grant holders). 61 partners 50% revenues per projects y services 3,5 people(Director + 2 tecnicians+ 0,5 secretary) 71 partners 58% revenues per projects + services 2017 5 people (Director + 2 tecnicians+ 1 grant holder + 1 secretary) 76 partners 62% revenues per projects y services 2018 6 people(Director + Technical Director + 3 tecnicians + secretary) 83 partners

Evolution from a model in which the 35% of the revenues come from the development of projects towards a model in which the 68% of the revenues is supported on the dynamization and execution of collaborative projects and services for partners. Our aim is to grow the number of partners up to 100 across 2019.

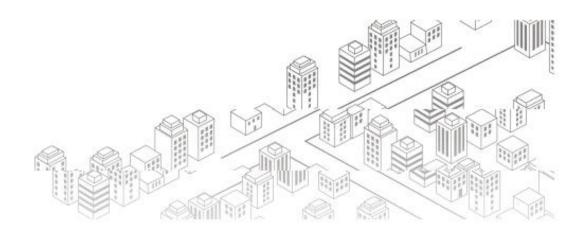
Horizon Model 2019







WORKING GROUPS







W.G 1. BIM – Automated Construction

Improves competitiveness: technologies, methodologies, systems and innovative constructive processes.



W.G 2 . Building Renovation and Urban Regeneration

Building Renovation and comprehensive urban regeneration. Accessibility and mobility.



W.G 3. Smart cities - ZEB

Cities, neighborhood and intelligent buildings (smart cities, construction towards zero-emission buildings).



W.G 4. Materials

Development and aplication of new materials in order to achieve sustainable construction.



W.G 5.
International

Supporting companies in the process of internationalization.



W.G 6.
Infrastructures

Development of solutions bounded to challenges regarding infrastructures matters



Meetings every 2 months

36 meetings at least each year



W.G 1. BIM – Automated Construction

Improves competitiveness: technologies, methodologies, systems and innovative constructive processes.

Drive the industrialized construction, systems and processes' optimization methodologies (LEAN, Last Planner,...), Project virtual design and modeling and others.

Highlighted initiatives

- BIM Euskadi Strategy.
- BIM training modules.
- Advanced Construction Masters Studies.
- Advanced Construction International Congress.

Technological Projects

- EISI 4.0 for the adoption of technological solutions and innovative systems.
- BIM Eraikal. BIM Implantation guide for construction companies.
- VIMAE. BIM methodology applied to building management.





W.G 2 . Building renovation and Urban Regeneration

Building renovation and comprehensive urban regeneration. Accessibility and mobility.

Conceptualization of urban regeneration as restoration on a neighbourhood level.

Highlighted initiatives

- Basque Country's restoration plan. Coordination strategy development for the restoration and urban regeneration of the Basque Country.
- Development of Business Plan for Restoration.

Technological projects

- Enerpat. Find energetically efficient solutions for buildings
- RE3D. Participation of Energy Service companies on building renovation through the potential of buildings' renewable energy generation. (Eraikune's original idea)





W.G 3. Smart cities - ZEB

Cities, neighborhood and intelligent buildings, (smart cities, construction towards zero-emission buildings).

Development of intelligent urban environments and energeticaly efficient through networks, smart infraestructures and zero energy buildings.

Highlighted initiatives

- District Heating.
- Adaptation to Climate Change.
- Industrial Areas . Smart Management, Adaptation and conservation.
- NZEB Restoration.

Technological Projects.

 HighPark. Smart management of urban parks through irrigation control, lightening, pruning, etc.. (Eraikune's original idea)





W.G 4. Materials

Development and aplication of new materials in order to achieve sustainable construction.

Development and aplication of new materials for the sustainable construction.

Highlighted initiatives.

- Circular Economy.
- Search of energeticaly efficient materials
- RCDs.

Technological Projects

- Fabrec. Study of energetic properties of the aplication in mixings of cement of metal slags. (Eraikune's original idea)
- BAI 4.0. Study of mixings of cement and systems for the 3D impression of big construction pieces.





W.G 5. International

Supporting companies in the process of internationalization.

Support the associates on their internationalisation processes.

Highlighted initiatives

- Direct and Inverse International Missions.
- Support to companies to visit Trade Fairs and Congresses.
- Encouragement of multisectorial Consortiums for international projects.
- R.I.C. (Red Internacional de Cooperación- Cooperation International Networks) Web Tool for promotion and contact among companies.

Missions

- Mexico. July and September, 2017
- Poland. February 2016, September, 2017
- Chile. September 2015, February, June and September 2017
- Colombia. February 2016, April 2017, October 2017





W.G 6.
Infrastructures

Development of solutions bounded to challenges regarding infrastructures matters

Develop actions to improve infrastructure companies' competitiveness

Highlighted Initiatives

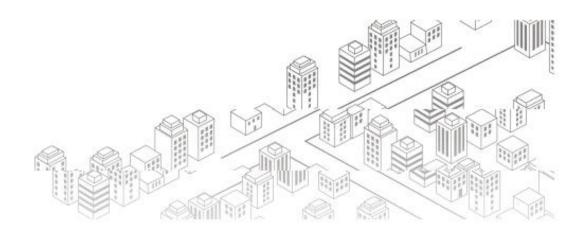
- Creation of associate's consortiums for national and international markets and niches.
- Incorporation to Eraikune of public entities bidders.
- Inclusion of infrastructure companies in the BIM Comission.

Actions

- Launch of "Bidea-Zabaltzen" project.
- Presentation of Public Administration's Investment Plannings.
- Emblematic projects visiting organization.













EISI 4.0



OBJECTIVE

Inclusion of new technologies and methodologies on the Construction sector: ARRASATE Group, URRUTIA Constructions, AH Group, NORTHBIM, ERAIKUNE +EMPRESAS



SUMMARY

Execution of 3 constructive projects about "new" construction and restoration using BIM methodology, together with Met Last Planner from the starting point, until the ending one



ACHIEVED LANDMARKS

Possible plots' search in order to begin with the first project.





BIM ERAIKAL



OBJETIVE

Evaluate and spread the process of inclusion of the BIM in a company.

EKOETXE, IGLÚ, BERRILAN BIM, TECNALIA



SUMMARY

Monitoring and analyzing the process followed by Ekoetxe in its process of inclusion of BIM and analyzing the achievable and feasible technological possibilities on the sector thanks to BIM.



ACHIEVED LANDMARKS

Preparation of a document for dissemination.



VIMAE



OBJETIVE

BIM virtualization solutions and maintenance of industrial buildings. INBISA, CT ENGINEERINGS, ALCAD, TECNALIA



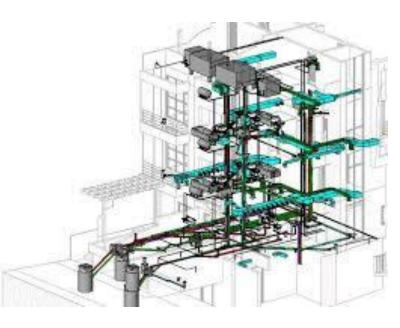
SUMMARY

IT & Communication solutions' inclusion to the facility Management through BIM and a unique platform.



ACHIEVED LANDMARKS

Design of the system to use and generation of the BIM model for an experimental case.



TRAINING



OBJETIVE

Incorporation of the construction industry to BIM methodology.

BERRILAN, NORTHBIM, IGLÚ, INAK



SUMMARY

Development of BIM methodology training content's for building companies and civil engineering.



ACHIEVED LANDMARKS

Impartition of BIM culture courses, definition of BIM modules for building and civil engineering.





REHAB. AND URBANISTIC REGENERATION

RE3D – SAN FAUSTO



OBJETIVE

Development of GIS – D platforms in Cloud, applied to energetic restoration.

TEUSA, GIROA, MAAB, ESTUDIOS GIS, TECNLAIA



SUMMARY

Evaluation of the photovoltaic and/or geothermic potential able to be installed in urban zones in order to finance their energetic rehabilitation.



ACHIEVED LANDMARKS

User requirements, design of the platform and multiscale urban model.





REHAB. AND URBANISTIC REGENERATION

ENERPAT



OBJETIVE

Look for territorial solutions of energetic efficiency in historic centers belonging to sudoe space. ENSANCHE 21, UPV-EHU, TECNALIA



SUMMARY

Improve energetic efficiency in the public buildings and private homes through the start-up of networks and joint experimentation.





ACHIEVED LANDMARKS

Endorsement of EU's projects.



SMART CITIES & NZEB

HIGHPARK



OBJETIVE

Development of a new high value added service about comprehensive management of green urban zones. ASASE, KOLLVIK, TECUNI, ELAI, DEUSTOTECH



SUMMARY

Design of an intelligent management platform which binds, lighting, irrigation and composting data together.





ACHIEVED LANDMARKS

Recompilation of the art's state and beginning of the development of a free software platform.



SMART CITIES & NZEB

STRATEGIC INITIATIVE, NZEB



OBJETIVE

Public administration buildings' restoration adding and using new technologies.

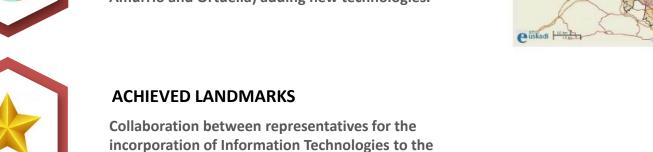
UPV-EHU, ALOKABIDE, HABIC, ERAIKUNE, TECNALIA



SUMMARY

restoration processes.

Project to develop the energetic restoration and accessibility in three municipalities (San Sebastian, Amurrio and Ortuella) adding new technologies.









MATERIALS

FABREC



OBJETIVE

Industrial valuation of steel mill's slags as material source for additive manufacturing.

NERVACERO, EXCAVACIONES DE DIEGO, MORTEROS Y REVOCOS BIKAIN



SUMMARY

New technologies' development for metal valuation, recovered derivatives in additive manufacturing and energetic efficiency products.



ACHIEVED LANDMARKS

Technologies identification and applications development.





MATERIALS

BAI 4.0



OBJETIVE

Additive manufacturing 4.0 technologies development. KOMAT, SMI ERANDIO, IHS WEIGLING, FYM, EKOREC, MAAB, RSI-INSERTEC, TECRESA, WINDTECHNIC, URKIA, ALBERDI, ERAIKUNE, HABIC



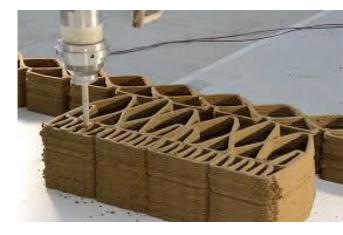
SUMMARY

Research and develop new technologies 4.0 of additive manufacturing applied to the industrialization of elements for architecture, urbanism, civil construction, eolian...



ACHIEVED LANDMARKS

Recopillation of materials' technological advances for additive manufacturing.





BIM Administration training.

Specific training for civil servants of the Administration about the use and working of BIM methodology.

@CONST

Dissemination campaign to the sector, of contents related to new methodologies and systems of business and projects management, urban regeneration, urban intelligent management, energetic efficiency..



DIFUSSION

Divulgation campaign of topics related with the working groups of Eraikune, to be able to arrive at the companies of the construction sector.

ForTec

Specific training for technicals from the Construction Industry with contents about Energetic Efficiency.



REHABIT

Methodology to prioritize the preventative management of the conservation of the Historic Patrimony.

Sector's platform

Interactive platform of training for the Construction industry, in which it will be incorporated interactive trainings for the Construction Sector.



COORDINA 4.0

Estudio de beneficios técnicos y económicos que se pueden conseguir con la introducción de nuevos sistemas de coordinación y gestión de proyectos de construcción, así como la incorporación de elementos y sistemas industrializados

Coordination Process

Implementation of a quality process, to achieve a better coordination among all the representatives who take part in the process of a construction; with the aim of overtaking the companies to the Design phase.









POLAND 2016

COLOMBIA 2016











RIC

Red Internacional de Cooperación



OBJETIVE

Development of web tools in order to support Basque businesses' internationalization and the coordination of this kind of actions.

ERAIKUNE



SUMMARY

Web tool for coordinating internationalization information's with presence of international companies of any industrial sector.



ACHIEVED LANDMARKS

Version 1.0 of the platform.





MISSIONS, TRADE FAIRS AND CONGRESSES

Organization of companies missions to interesting countries.

• INTERNATIONAL TENDERS

Support for the search, creation and coordination of international consortiums for tenders.





INTERNATIONAL PROGRAM OF URBAN COLLABORATION



SUMMARY

E.U project for 6 regions around the world:

- a) 3 year's duration (2017-2019)
- b) General Comission's 3 Directions support:
 - DG REGIO (Urban and regional policy)
 - DG ENER (Energy)
 - DG CLIMA (Action for Climate)





OBJECTIVE



Contribute with the improvement of the urban policies, the increase of the decentralization on the urban sustainable development and the struggle against climate change through sustainable energy, by means of:

- •Strengthen the cooperation between the administrataion or EU's cities and North America's región (Canadad, USA, Mexico) in projects about urban sustainable development.
- Strengthen cooperation between EU and North America in the struggle against local and regional climate change, basing on the initiative of the CoM (Convenant of Mayors).





INTERNATIONAL PROJECTS OF URBAN COLLABORATION



FINANCING

Financing of Exchange missions for the development of cooperation purposes.

- Technical aid for projects about urban sustainability
- Financing of seminars of experience exchanges among cities.
- Acces for the administrations to online trainings and to a virtual community of good practices global scale.













LOW CARBON BUSINESS ACTION IN BRAZIL TARGET SECTORS

Low Carbon Business Action in Brazil fosters the competitiveness and sustainability of Brazilian SMEs in the following areas:













Business rounds between selected Brazilian and EU SMEs, according to the demand/supply of environment-friendly solutions, applications and technologies;



Lectures about the Brazilian environment, technology, financial and business contexts;



Presentation of case studies and guided visits to local industries and companies;



Technology show-casing by manufacturers and service providers; Access to exhibitions and trade fairs;



B2B assistance and business follow up of the matchmaking missions;



Participation of sector organisations, public bodies, bilateral chambers of commerce, business agents, traders, environmental and financial consultants, among others.

EXAMPLES OF BUSINESS MODALITIES



Sale/Purchase agreements (import/export);



Establishment of partnerships for sales/distribution;



Mergers and Acquisition (M&A) deals;



Joint Ventures and investment partnerships;



Establishment of a production or service facility;



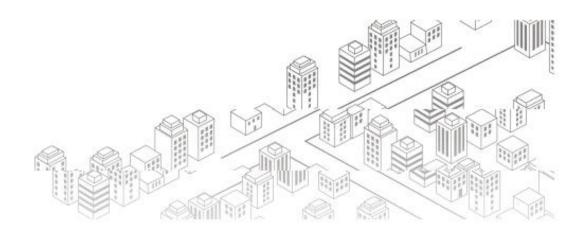
Agreements on knowledge exchange, joint technology research and developement;



Agreements between SMEs cluster organisations and within corporate supply chains.













SmartEner

Propuesta presentada a RED.es para la. identificación de las empresas y entidades involucradas en la implementación, uso y gestión de soluciones inteligentes y de eficiencia energética para atraerles hacia el sector de la rehabilitación y buscar colaboraciones que beneficien a todos los sectores.

👩 Otxarkoaga Strt Plan

Propuesta al **Ayto.** de **Bilbao**, dentro del **PCTI Euskadi 2020** para dinamizar desde el cluster un plan replicable en áreas de intervención prioritaria que estudio y dimensione las necesidades de rehabilitación y regeneración urbana en estas áreas, bajo las temáticas: social , técnico, accesibilidad, innovación y financier.

Nuevo Socio: Viviendas Municipales de Bilbao

red.es Digitalization

Presentación a RED.es de propuesta para establecer en el País Vasco una Oficina de Transformación Digital dirigida a empresas de construcción, que planifique e implemente acciones, además de prestar servicio de atención y acompañamiento.

Apyos de ASCOBI y ASCONGI



Sprilur - Trainning

Presentación de propuesta para la formación en metodología BIM del personal técnico de SPRILUR a través de empresas socias.





BIDEA ZABALTZEN - Market Development

Puesta en marha de un servicio de apoyo al deserrollo de mercados de las empresas socias del cluster

Alokabide



Propuesta a la **Dirección de Vivienda y Arquitectura del Gobierno Vasco** y a la entidad **ALOKABIDE** para estudiar sus procesos y apoyarles en la definición y priorización de acciones de rehabilitación en su parquet de viviendas, redefiniendo en el camino los procesos internos para aumentar la eficiancia, calidad, capacidad de respuesta y satisfacción

HABIC



Acciones de internacionalización.

Diagnosis



Propuesta de colaboración **Tecnalia&Eraikune** para realizar diagnósticos tecnológicos a las empresas del sector para conocer y dimensionar sus necesidades tecnológicas e identificar potenciales proyectos a poner en marcha.

ETS



Propuesta de colaboración entre ETS, Eraikune y socios en innovación (GT interno ETS) internacionalización (Ferias y misiones), organización de jornadas/talleres (compra pública innovadora, nueva ley de contratos públicos) Presentación de propuesta para la formación en metodología BIM del personal técnico de ETS a través de empresas socias.

A la espera de ser nuevo socio



SmartEner



OBJETIVE

Attract to the refurbishment sector to those entities involved in the intelligent solutions and efficient energy.





SUMMARY

Proposal presented to **RED.es** for the identification of those entities involved in the **implementation**, **use and management** of **intelligent solutions and efficient energy** in order to attract them to the refurbishment sector and find collaborations that benefit all the sectors.





ACHIEVED LANDMARKS





Otxarkoaga Strt Plan



OBJETIVE

Find out about the areas with priority intervention, according to the refurbishment necessities and the urban regeneration on this areas.





SUMMARY

Proposal to the **council of Bilbao**, inside of PCTI Euskadi 2020, to energize from the cluster a plan to replicate in areas with priority intervention. This plan will study and measure the necessities of refurbishment and urban regeneration in those areas, under the themes: social, technic, accessibility, innovation and financial.



ACHIEVED LANDMARKS





Digitalization



OBJETIVE

Set up in the Basque Country a Digital Transformation office destined to construction entities.





SUMMARY

Present a proposal to RED.es to set up in the Basque Country a Digital Transformation office destined to construction entities.

This office aim is the planification and implementation of the actions, and also give attention and accompanying service.



ACHIEVED LANDMARKS





Sprilur - Trainning



OBJETIVE

Teach to the SPRILUR technicians the BIM methodology.





SUMMARY

Present a proposal for the academic training of the SPRILUR technicians on the BIM methodology through associated entities.



ACHIEVED LANDMARKS





Alokabide



OBJETIVE

Study their processes and priority the refurbishment actions inside their house park.





SUMMARY

Proposal to the Directorate of Housing and Architecture of the Basque Government and the ALOKABIDE entity to study their processes and support them in the definition and prioritizing the refurbishment actions in their house park.



ACHIEVED LANDMARKS





Diagnosis



OBJETIVE

Identify Project inside the sector entities based on their technological necessities.





SUMMARY

Proposal of collaboration between Tecnalia and Eraikune to make technological diagnostics to entities of the sector in order to know and measure their technological necessities and identify new potential projects.



ACHIEVED LANDMARKS





ETS



OBJETIVE

Collaboration between ETS, Eraikune and associates.

Academic training to the ETS technicians in BIM methodology.





SUMMARY

Proposal of collaboration between ETS, Eraikune and associates in innovation (ETS Internal WG), internationalization (Trade fairs and missions), organization of conferences.

Presentation of the proposal of formation of the ETS technicians in BIM methodology through associated entities.



ACHIEVED LANDMARKS





SmartEner

Identificación y desarrollo de la cadena de valor de la rehabilitación energética inteligente.

Energía y ESLE

Advertising

Búsqueda de nuevos modelos de negocio para el sector de rehabilitación en colabotación con el sector de la publicidad y marketing e identificación de acciones para mejorar la presencia digital de empresas.

EIKEN

Sewage Sludges

Búsqueda de salidas a los lodos de depuradora distintas al vertedero. Silvicultura, Recuperación paisajística, Obra civil, Fachadas y cubiertas verdes, canteras, etc.

ACLIMA

Hotels

Colaboración con sector hotelero para identificar necesidades no cubiertas del ámbito cosntrucción, como: diseño, reformas, instalaciones, , accesibilidad, silver economy, adaptación a turistas, incorporación de tecnología, etc.

ASOC. Hostelera de Bilbao

Cibersecurity

Ciberseguridad aplicada a plantas de ingeniería e instalaciones industrials.

ELSE y Fluidex



BIM friendly ERP

Diseño de un ERP adaptado a estudios de arquitectura que tome datos de modelos BIM.

IA+B, AH, G&C, Berrilan

Gamification & Big Data

Gamificación de la promoción web de viviendas para analizar el Big data de cara a conocer mejor al cliente final y adaptación de la oferta

GIS for land sharing

Plataforma GIS para el intercambio y compensación de tierras

Telematic control

Desarrollo de app móvil para gestión telemática de trámites, certificados y documentación de obra.

Security

Desarrollo de sensórica, sistemas antirrobo y geolocalización para maquinaria, equipos y herramientas

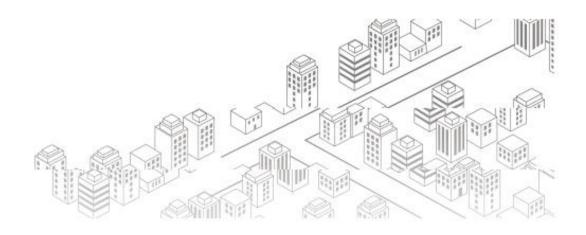
Refurbishment

Desarrollo de plataforma de gestión rehabilitadora-cliente para gestión de procesos e información a cliente





SERVICES





General Services: services provided to all cluster's members included in the anual quotas.

Specific Services: Payment services focused to satisfy a concrete need of a group of companies inside the cluster, usually associated with a project, work group or strategic line.



INFORMATION AND KNOWLEDGE



R & D AND COMPETITIVE IMPROVEMENT



SECTORIAL
REPRESENTATION AND
OPENED INTERLOCUTION



TRAINING



COLLABORATION - NETWORKING



INTERNATIONALIZATION

INFORMATION AND KNOWLEDGE



- **Database through application tipology**: sector's association, nationals and internationals, collaborator/supplier of profesional services and others.
- Information related to Eraikunes partners.
- Daily sending of infomartion related to the construction sector and other related topics.
- Eraikune's journal biweekly (news, grants, clusters projects, working groups' conclusions,...).
- **Web page** Sector's observation point: trends, news, statistics, conferences and reports.
- Eraikune's Intranet: Information Exchange and interesting documentation derived from working groups.

SECTORIAL REPRESENTATION AND OPENED INTERLOCUTION



- Direct contact with Public Administrations in order to channel joint changing purposes.
- Active participation Eraikune representation on committees and working groups of public and private profiles on which it is worked and decided about critical elements that may affect the sector or its future
- Monthly organization of working breakfasts about interesting topics, invitation to key people inside institutions and private companies, etc.
- **Sectorial events organization** for the spreading of the achieved landmarks by its companies and representatives.
- Companies' Products and services' external promotion.



COLLABORATION - NETWORKINGC



- Creation and coordination of Permanent Committees and Working Groups, aimed at the identification of projects in collaboration.
- Acts organization for the intra-cluster and inter-cluster collaboration encouragement (forum, workshops, events, etc..).
- Internal promotion of products and services of partner companies.
- Supporting and coordinating specific projects in collaboration.
- Actions organization/ commercial or image events requested by a group of companies.
- Specific knowledge **tools for the collaboration encouragement** (Ability) Cluster's multidisciplinary resources transfer for the development of joined actions (rooms, projectors, catering, working material...).

R & D AND COMPETITIVE IMPROVEMENT



- External resources attraction for the impetus of group behavior.
- Support, through collaborators, in the management of grants and subsidies.
- Advice in opportunities of **innovation in products and technologies** in collaboration with Technological Centers.
- Invigoration and coordination of specific projects on R & D in collaboration with technological representatives.



TRAINING



Specific grouped trainings of technical and innovative profiles on the Cluster's related fields (BIM,...) and on beneficial conditions for the partners.

INTERNATIONALIZATION

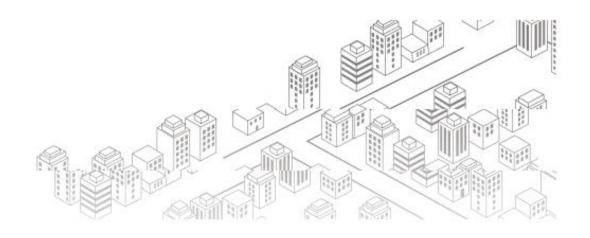


- **Vigilance systems** for the tenders and competitions' (national and international) identification.
- Research of markets and opportunity niches.
- **Direct** and inverse grouped **missions** (organization, management y coordination).
- Online platform: RIC (Red Internacional de Cooperación); International Cooperation Network.
- Dinamization and coordination of specific projects of Internationalization.
- Basis on the **creation of consortiums** and other non-usual collaborative manners (needed documentation, certificates, intergroup agreements, etc.).
- Support in the presentation of multilateral tenders. FEE
- Jointly attendance to Trade Fairs (organization, management and coordination).



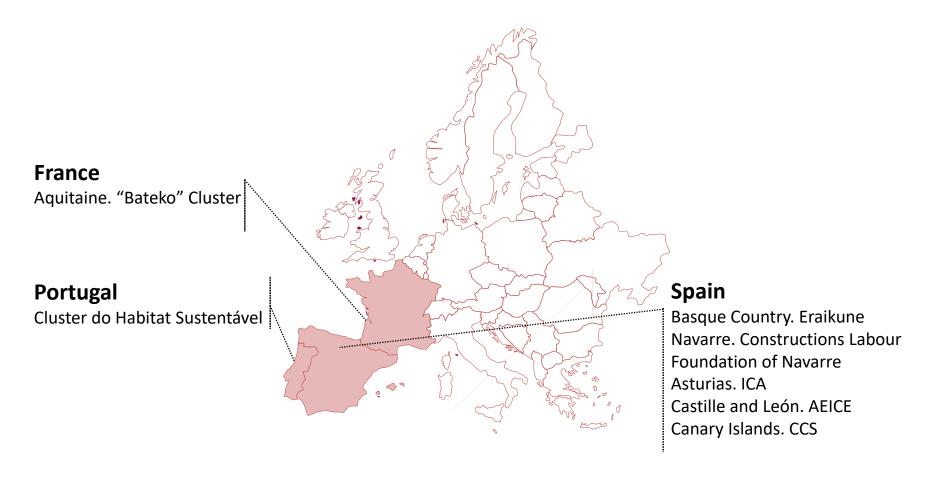


INTERCLUSTER





ERAIKUNE. CONSTRUCTION INTERCLUSTER EUROPEAN FORUM





























- Transnational cooperation in 36 Atlantic regions of five european countries.
 Budget €185M
- Regional development in the south west of Europe, financing transnational projects through the European Regional Development Fund (ERDF).
- R & D Project in collaboration with/between a company and/or research center of any other country of the Eureka network.

 Business technological cooperation in Ibero-America

Colombia

Bogotá. Construction Cluster Bogotá Region Medellín and Antioquía. Construction Cluster

Chile

Construye2025



Spain

Basque Country. Eraikune













ESKERRIK ASKO! ¡GRACIAS!