

Project Database
Spanish Railways Technological Platform
Monographic

**Analysis of railway projects financed by the Spanish
Centre for the Development of Industrial Technology
CDTI**

2012 – 2020

January 2021 edition

Centre for the Development of Industrial Technology Financed railway projects

- Analysis of public information of approved CDTI projects available at the CDTI Website, searched by keywords.
- Data source: <http://www.cdti.es/index.asp?MP=6&MS=794&MN=2&TR=C&IDR=2699> (figures extracted on February 2021)
- Identification of approved RAILWAY projects
- Period analysed: 2012 – 2020

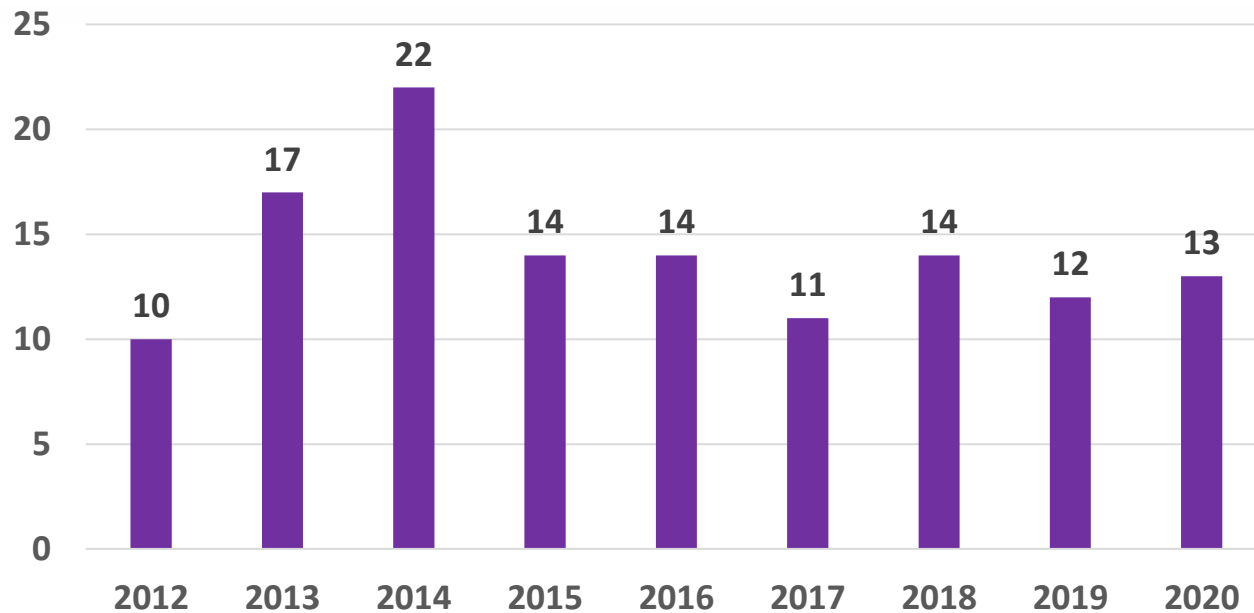
Centre for the Development of Industrial Technology Rail-related projects 2012-2020

- 127 rail-related projects identified
- 133 different companies, with a total of 203 participations
- 70% - “Research and Development” type of CDTI grant
- Distributed in 6 Sectorial Areas
- Developed in 12 Autonomous Communities

CDTI – Identified railway projects 2012 -2020

Distribution per year

CDTI – Financed rail-related projects per year



CDTI – Railway projects 2012 -2020

Companies with higher number of awarded projects

COMPANY NAME	# PROJECTS
PATENTES TALGO SL	15
AZVI SA	8
CAF SIGNALLING SL	6
ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS	5
INSE RAIL SL	5
TELEFONOS LINEAS Y CENTRALES SA	5
VIAS Y CONSTRUCCIONES, S.A.	4

CDTI – Railway projects 2012 -2020

Number of projects according to the type of grant

TYPE OF CDTI GRANT	#PROJECTS
Research and Development	90
FEDER Innterconecta	8
Research and Development in Cooperation	8
Innovation Direct Line	5
CDTI INNOGLOBAL	4
Consortio de Investigación Empresarial Nacional (CIEN)	4

TYPE OF CDTI GRANT	#PROJECTS
NEOTEC Grant	3
EEA Grants	2
Línea de Financiación de la Innovación Tecnológica	1
Internacionaliza	1
CDTI-Eurostars	1

CDTI – Railway projects 2012 -2020

Number of projects per sectorial area

SECTORIAL AREA	#PROJECTS
INDUSTRIAL SECTORS	73
TRANSPORT AND INFRASTRUCTURE	27
INFORMATION AND COMMUNICATION TECHNOLOGIES	14
CONSTRUCTION, TERRITORIAL PLANNING AND CULTURAL HERITAGE	11
SAFETY, SECURITY AND DEFENCE	1
ENERGY	1

CDTI – Railway projects 2012 -2020

Number of projects per Autonomous Community

AUTONOMOUS COMMUNITY	#PROJECTS
MADRID (COMUNIDAD de)	66
ANDALUCIA	50
PAIS VASCO	24
CATALUÑA	17
ASTURIAS (PRINCIPADO de)	10
CASTILLA-LA MANCHA	9
COMUNIDAD VALENCIANA	9

AUTONOMOUS COMMUNITY	#PROJECTS
GALICIA	7
CASTILLA Y LEON	6
ARAGON	2
NAVARRA (C. FORAL de)	2
BALEARS (ILLES)	1

2020

13 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2020	"AUTOMATION OF THE WHEEL MANUFACTURING AND MILLING PROCESS FOR THE RAILWAY SECTOR"	INDUSTRIAL MATRICERA PALENTINA, S.L.	Innovation Direct Line
2020	"LIFE EXTENSION FOR TALGO TRAINS" (LETS-GO)	PATENTES TALGO SL	Research and Development
2020	DEVELOPMENT OF ADVANCED EQUIPMENT AND TOOLS FOR THE AUTOMATION OF THE BLASTING OF TALGO CARRIAGES	PATENTES TALGO SL	Innovation Direct line
2020	DESIGN OF AN INTERMODAL WAGON FOR TRUCKS AND CONTAINERS COMBINED TRANSPORT ON 2 TRACK GAUGE UIC / IBERIAN	TALLERES ALEGRIA, S.A.	Research and Development
2020	DESIGN AND DEVELOPMENT OF A NEW PANTOGRAPH WITH INTEGRATED INSULATORS FOR VERY HIGH SPEED	SCHUNK IBERICA SA	Research and Development
2020	DESIGN AND DEVELOPMENT OF A NEW BIDIRECTIONAL SYSTEM FOR ON-BOARD ELECTRIC BATTERIES CHARGING IN RAILWAY	PREMIUM SA	Research and Development
2020	AUTOMATED DATA PREPARATION ENVIRONMENT FOR RAILWAY SIGNALING SYSTEMS INTEGRAL SIMULATION	CAF SIGNALLING SL	Research and Development

Year	Title of the Project	Company Name	Type of CDTI grant
2020	EUROTRACKS. DEVELOPMENT OF THE INTEGRATED MANAGEMENT SYSTEM FOR RAIL TRAFFIC	ENCLAVAMIENTOS Y SEÑALIZACION FERROVIARIA ENYSE, S.A.	Research and Development
2020	RESEARCH ON THE INTEGRATION AND IMPLEMENTATION OF ADDITIVE MANUFACTURING TECHNOLOGIES FOR THE DEVELOPMENT OF FUNCTIONAL ELEMENTS IN RAIL ROLLING STOCK	PATENTES TALGO SL	Research and Development
2020	NEW HIGH-PERFORMANCE APPLICATION FOR THE CALCULATION AND VERIFICATION OF RAILWAY SIGNALING SYSTEMS	INSE RAIL SL AIRTREN SL	Research and Development in Cooperation
2020	NEW BLOCKING CENTER BY RADIO FOR THE CONTROL AND MANAGEMENT OF RAILWAY TRANSPORT	CAF SIGNALLING SL	Research and Development
2020	TRIBOLOGICAL SOLUTIONS FOR THE RAILWAY SECTOR	IDP INGENIERIA Y ARQUITECTURA IBERIA SL NBI BEARINGS EUROPE S.A GRUPO TECNICO RIVI SL ARCELORMITTAL INNOVACION INVESTIGACION E INVERSION SL BRUGAROLAS, S.A.	CONSORCIO DE INVESTIGACIÓN EMPRESARIAL NACIONAL
2020	TALGO VEHICLE WITH DUAL TRACTION (HYDROGEN / ELECTRIC) FOR NON-ELECTRIFIED NETWORKS	PATENTES TALGO SL	Research and Development

2019

12 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2019	CHK-20180004 TERCIO: INNOVATIVE MONITORING TECHNOLOGIES FOR RADIO COMMUNICATIONS SYSTEMS TO SUPPORT RAILWAY MAINTENANCE AND OPERATION	METRO DE MADRID, S.A.	Research and Development
2019	DEVELOPMENT OF AN ERTMS LEVELS 2 AND 3 SYSTEM INTEGRATED IN THE INTERLOCKING PLATFORM	ENCLAVAMIENTOS Y SEÑALIZACIÓN FERROVIARIA ENYSE, S.A.	Research and Development
2019	DEVELOPMENT OF A NEW SOLUTION FOR THE CALCULATION, DESIGN AND VALIDATION OF THE ENTIRE CATENARY SYSTEM IN RAILWAY PROJECTS	INSE RAIL SL TELEFONOS LINEAS Y CENTRALES SA	CDTI-INNOGLOBAL
2019	BROKEN RAIL DETECTION	NEXT GENERATION RAIL TECHNOLOGIES SL	Research and Development
2019	DESIGN AND DEVELOPMENT OF LARGE DIMENSIONAL COMPOSITE COMPONENTS FOR HIGH SPEED TRAINS	BARCELONA TECHNICAL CENTER SL	Research and Development
2019	RESEARCH, DESIGN AND DEVELOPMENT OF A NEW SIL 4 RAIL SAFETY SYSTEM FOR THE DETECTION OF OBSTACLES IN LEVEL CROSSINGS	ENA TECNOLOGIA SL	Research and Development
2019	INTELLIGENT MAINTENANCE OF RAILWAY INFRASTRUCTURES IN NEW CLIMATE SCENARIOS BASED ON INTEGRAL DATA TREATMENT	AZVI SA	Research and Development

Year	Title of the Project	Company Name	Type of CDTI grant
2019	NEW FULLY ACCESSIBLE ROLLONG STOCK FOR VERY HIGH SPEED – ACCEMAV	PATENTES TALGO SL	Research and Development
2019	NEW CABLE TENSIONING AND LAYING SYSTEM FOR RAILWAYS	PARROS OBRAS SOCIEDAD LIMITADA	Research and Development
2019	BUSINESS PLAN SUPRARAIL	SUPRASYS SL	NEOTEC Grants
2019	SELF-CONFIGURABLE AND INTEROPERABLE RAILWAY PLATFORM	PATENTES TALGO SL	Research and Development
2019	REAL-TIME STATUS VARIABLE MONITORING SYSTEM FOR REMOTE MANAGEMENT OF RAILWAY FLEETS	CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A.	Research and Development

2018

14 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2018	NEW INTEROPERABLE CBTC SYSTEM FOR THE URBAN TRANSPORTATION OF THE FUTURE	CAF SIGNALLING SL MASATS SA AUTO DRIVE SOLUTIONS SL TELTRONIC, S.A. INTEGRATED TECHNOLOGY SYSTEMS SL	Consortio de Investigación Empresarial Nacional (CIEN)
2018	NEW DEVELOPMENTS IN RAIL TRACTION FOR A MORE FLEXIBLE AND EFFICIENT OPERATION - FLEXITRAC	PATENTES TALGO SL	Research and Development
2018	DEVELOPMENT OF A NEW COMPREHENSIVE TOILET MODULE FOR TRAINS WITH THE LATEST TECHNOLOGIES IN PRINTED ELECTRONICS AND PREDICTIVE MAINTENANCE	ROLEN TECHNOLOGIES & PRODUCTS SL	Research and Development
2018	DEVELOPMENT OF A NEW PRIMING SYSTEM AND A NEW STRUCTURAL ADHESIVE BASED ON EPOXY RESIN FOR THE MANUFACTURE OF ALUMINUM BEE-NEST SANDWICH FOR THE RAILWAY SECTOR	UNECO, S.A.	Research and Development
2018	DESIGN AND DEVELOPMENT OF AN AUTOMATIC SYSTEM FOR THE SELECTIVE CORRECTION OF WAVY WEAR ON URBAN, PERIURBAN RAILWAY LINES AND TRAMWAY SYSTEMS	TECSA EMPRESA CONSTRUCTORA, S.A.	Research and Development
2018	STUDY OF A NEW PREDICTIVE MAINTENANCE TECHNOLOGY FOR FISURATION IN RAILWAY RAILS	INGENIERIA DE CALCULO ESTRUCTURAL Y MODELADO MECANICO SL	Research and Development

Year	Title of the Project	Company Name	Type of CDTI grant
2018	RESEARCH OF NEW CONCEPTS OF AUXILIARY POWER SYSTEMS, INTENDED FOR RAILWAY INVESTORS AND ADAPTED TO OPERATION IN EXTREME CONDITIONS	INGENIERIA VIESCA SL	Research and development
2018	AUTOMATIC MACHINE FOR SLAB TRACK ASSEMBLY	AZVI SA	Research and development
2018	NEW INDEPENDENT AND UNATTENDED CONTROL SYSTEM FOR SWITCHES AND CROSSINGS	ALDESA CONSTRUCCIONES, S.A.	Research and development
2018	NEW SAFETY MANAGEMENT SYSTEM IN THE RAILWAY CIRCULATION BASED ON BLOCKCHAIN TECHNOLOGY	GRUPO EUROGESTION INGENIERIA DE TELECOMUNICACIONES SL	Research and development
2018	NEW PREFABRICATED TRACK FIXING SYSTEMS	PANDROL IBERICA SA	Research and development
2018	ADVANCED CALCULATION SYSTEM FOR THE OPTIMIZATION OF THE SIGNALING AND COMMUNICATIONS SYSTEMS, AS WELL AS THE OPERATION PLAN, OF A RAIL SYSTEM	INSE RAIL SL	Research and development
2018	DEVELOPMENT OF A NEW CINEMOMETER FOR THE RAILWAY SECTOR	AUTO DRIVE SOLUTIONS SL	NEOTEC Grant
2018	SIGMAQ - DIGITALIZING THE RAILWAY INDUSTRY	SIGMA-RAIL SL	NEOTEC Grant

2017

11 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2017	DEVELOPMENT OF A MONITORING SYSTEM FOR THE OPERATION OF SMART TRAIN: SAFE OPERATION TO IMPROVING THE SUSTAINABILITY OF THE TRAIN	SERVICIOS DE DESARROLLO ORIENTADO A SOLUCIONES SL	CDTI-INNOGLOBAL
2017	RAILWAY ACCESS MANAGEMENT SYSTEM FOR MAINTENANCE OPERATIONS	AUXITEC TECNICA Y CONTROL SA	CDTI-INNOGLOBAL
2017	ADVANCED SURFACE TREATMENTS TO INCREASE THE LIFE OF RAILWAY COMPONENTS AND ACCESSORIES	ARCELORMITTAL ESPAÑA SA DANOBAT S. COOP.	CDTI-INNOGLOBAL
2017	RESILIENCE OF RAILWAY INFRASTRUCTURES WHEN FACING OF CLIMATE CHANGE	COMSA, S.A. RETEVISION I SA TPF GETINSA EUROESTUDIOS S.L. ESTUDIOS GIS SL MAGTEL OPERACIONES SL CENTRO DE ESTUDIOS DE MATERIALES Y CONTROL DE OBRA SA TELEFONOS LINEAS Y CENTRALES SA	Consortio de Investigación Empresarial Nacional (CIEN)
2017	DERIVVA- DEVELOPMENT OF INTEROPERABLE REDUCED INTERLOCK WITH AUTONOMOUS VALIDATION AND VERIFICATION PROCESSES	ENCLAVAMIENTOS Y SEÑALIZACION FERROVIARIA ENYSE, S.A.	Research and Development

Year	Title of the Project	Company Name	Type of CDTI grant
2017	DEVELOPMENT OF NEW METHODS AND FUNCTIONALITIES APPLICABLE TO RAILWAY MAINTENANCE IMPLEMENTED IN A DRESIN PROTOTYPE	GESTION INTEGRAL DEL SUELO SL	Research and Development
2017	DEVELOPMENT OF AN AUTOMATED CONTINUOUS ADVANCE SYSTEM FOR THE EXPANSION OF RAILWAY TUNNEL SECTIONS WITH TRAFFIC IN CIRCULATION	CONSTRUCCIONES Y PROMOCIONES COPROSA SA	Research and Development
2017	DEVELOPMENT OF A VERY HIGH-SPEED MOVING TREAD SYSTEM	PATENTES TALGO SL	Research and Development
2017	RESEARCH AND DEVELOPMENT OF AN ADVANCED, OPEN, LIGHTWEIGHT AND OPTIMAL SOLUTION FOR THE SUPERVISION AND CONTROL OF RAILWAY POWER REMOTE CONTROLS	SAMPOL DIGITAL SL	Research and Development
2017	PROJECT FOR THE APPLICATION OF CARBON NANOPARTICLES TO ROAD, RAIL AND AIRPORT SAFETY	TECNIVIAL, S.A.	Research and Development
2017	DEVELOPMENT OF ADVANCED EQUIPMENT AND TOOLS FOR WELDING, INTEGRATION AND TURNING IN THE MANUFACTURE OF THE FIRST TALGO TRAIN INTENDED FOR THE TRANSPORTATION OF PASSENGERS IN THE URBAN AND SUBURBAN AREA	PATENTES TALGO SL	Innovation Direct Line

2016

14 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2016	DEVELOPMENT OF NEW BIOPOLIESTERS FROM AGROINDUSTRIAL BY-PRODUCTS FOR APPLICATIONS IN THE RAILWAY AND PACKAGING SECTOR	AGROCODE BIOSCIENCE SL CITRICOS DEL ANDEVALO S.A. PLASTIPAK IBERIA SL CANAGROSA LAB&SERVICES SL AZVI SA LISANPLAST SL	FEDER Innterconecta
2016	DEVELOPMENT OF A PROTOTYPE OF INTELLIGENT MANAGEMENT SYSTEM FOR RAILWAY INFRASTRUCTURE, THROUGH THE USE OF MASSIVE STRUCTURED DATA	INGENIERIA INSITU SL ALSTOM TRANSPORTE, S.A. FERROVIAL AGROMAN, S.A. ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS	FEDER Innterconecta
2016	NATURAL CONSOLIDATION OF EXPLANATION AND FORM LAYER IN RAILWAY WORKS	AZVI SA	Research and Development
2016	DEVELOPMENT OF A PORTABLE EQUIPMENT TO MEASURE RESIDUAL TENSIONS ON WHEELS FOCUSED ON THE RAILWAY SECTOR	INNERSPEC TECHNOLOGIES EUROPE SL	Research and Development
2016	DESIGN AND DEVELOPMENT OF RHINE MACHINE FOR RAIL MAINTENANCE	INGENIERIA DE MAQUINARIA FERROVIARIA SA	Research and Development
2016	DESIGN, ANALYSIS AND OPTIMIZATION OF RAILWAY NETWORKS	INSE RAIL SL	Research and Development
2016	H2-RAIL: DESIGN AND DEVELOPMENT OF A ROUTER BASED ON LTE-A TECHNOLOGY FOR THE RAILWAY ENVIRONMENT	TELDAṬ, S.A.	Research and Development

Year	Title of the Project	Company Name	Type of CDTI grant
2016	NEW SOLUTIONS FOR THE MAINTENANCE MACHINING OF THE RAILWAY SECTOR	GORATU MAQUINAS-HERRAMIENTA, S.A.	Research and Development
2016	NEW CONCEPT OF IDENTIFICATION, POSITIONING AND ENERGY COLLECTION SYSTEM FOR TRAMS	CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A.	Research and Development
2016	HIGH PERFORMANCE PROGRAMMABLE THREE-PHASE SINUSOIDAL INVERTER FOR RAILWAY AND INDUSTRIAL USE.	PREMIUM SA	Research and Development
2016	AC-900 RADIO COMMUNICATION AXLE COUNTER SYSTEM	INGENIERIA Y CONTROL FERROVIARIO SA	Research and Development
2016	SYSTEM OF EARLY DETECTION AND ALARM OF APPROACHING TRAINS TO WORK ZONES	LABORATORIO ANDALUZ DE ENSAYOS DE CONSTRUCCION SRL	Research and Development
2016	HIGHLY DISTRIBUTED SAFE INPUT AND EXIT SYSTEM FOR NEXT GENERATION INTERLOCKING	CAF SIGNALLING SL	Research and Development
2016	NEW SYSTEM FOR MONITORING THE STRUCTURAL INTEGRITY OF RAILWAY INFRASTRUCTURES THROUGH ITS DYNAMIC RESPONSE	TELEFONOS LINEAS Y CENTRALES SA INSE RAIL SL	Research and Development in cooperation

2015

14 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2015	SYSTEM FOR THE IDENTIFICATION, PREVENTION AND ELIMINATION OF THE FORMATION OF ICE IN THE CONTACT AIR LINES OF RAILWAYS	ELECTRIFICACION Y ESTUDIOS FERROVIARIOS SL AMAYUELAS SL	CDTI-Eurostars
2015	DEVELOPMENT OF EFFICIENT AND SUSTAINABLE INTERMODAL TRANSPORTATION STATION	CAF POWER & AUTOMATION SL TECNICAS REUNIDAS, S.A. SISTEMAS DE COMPUTACION Y AUTOMATICA GENERAL SOCIEDAD ANONIMA AMOPACK SL CAF TURNKEY & ENGINEERING SL ORONA, S.COOP.	Consortio de Investigación Empresarial Nacional (CIEN)
2015	DEVELOPMENT OF A MULTIPLE INSPECTION UNMANNED VEHICLE FOR RAILWAY TUNNELS	VIAS Y CONSTRUCCIONES, S.A. FERROVIAL AGROMAN, S.A. ALSTOM TRANSPORTE, S.A. INGENIERIA INSITU SL TINAMICA SL ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS	FEDER Innterconecta
2015	DEVELOPMENT AND APPLICATION OF A COMPREHENSIVE SOLUTION TO WAVY WEAR ON RAILWAY NETWORKS BASED ON THEORETICAL-EXPERIMENTAL ANALYSIS OF THE RAIL	TECSA EMPRESA CONSTRUCTORA, S.A. ARCELORMITTAL ESPAÑA SA CALPE INSTITUTE OF TECHNOLOGY SL	FEDER Innterconecta
2015	OPTIMIZATION OF THE CONSERVATION OF RAILWAY INFRASTRUCTURE FOR URBAN TRANSPORT	AZVI SA AGC MARKET VIEW SERVICES SL SOLTEL IT SOLUTIONS SL ROVIMATICA SL	FEDER Innterconecta

Year	Title of the project	Company Name	Type of CDTI grant
2015	DEVELOPMENT OF A PLATFORM FOR THE INTEGRATION OF HIGH-SPEED RAILWAY SYSTEMS	MYTRA CONTROL SL	Research and Development
2015	TECHNOLOGICAL DEVELOPMENTS FOR AN EFFICIENT MANUFACTURING PROCESS OF BRAKE DISCS FOR HIGH-SPEED TRAINS	FUNDICIONES DEL ESTANDA, S.A.	Research and Development
2015	RESEARCH ON SUBSYSTEMS INTEGRATED IN A VERY HIGH SPEED TRAIN TESTING PLATFORM	PATENTES TALGO SL	Research and Development
2015	PROJECT OF CONCEPTION, DESIGN, DEVELOPMENT AND MANUFACTURE OF ATEX 21 PROTOTYPE OF A MULTIPLE LOCK BRAKING SYSTEM FOR LARGE MACHINES MOVING ON RAILWAY TYPE RAILS - LUMOBRAKE	LUMOAN SL	Research and Development
2015	SYSTEM AND ALGORITHMS FOR THE AUTOMATIC OPERATION OF INTERURBAN TRAINS	CAF SIGNALLING SL	Research and Development
2015	VERIFICATION AND CONTROL SYSTEMS FOR RAILWAY VEHICLES	CM4 ENGINYERIA, S.A.	Research and Development
2015	T2SIP - RAILWAY SECURITY OPERATION TELEPHONY ON MULTI-SERVICE NETWORK INFRASTRUCTURES	REVENGA INGENIEROS, S.A.	Research and Development
2015	GAUGE CHANGEROVER FOR MULTIPLE RAILWAY AXLES FOR FREIGHT SERVICES	INGENIERIA TECNICA DEL TRANSPORTE TRIA SA AZVI SA	Research and Development in cooperation
2015	PRE-DERAIL	EUROCONSULT NUEVAS TECNOLOGIAS SA TORRESCAMARA Y CIA DE OBRAS SA	Research and Development in cooperation

2014

22 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2014	ONLY NECESSARY ENERGY ON TRAIN	WIND INERTIA TECHNOLOGIES SL BOMBARDIER EUROPEAN HOLDINGS SL RENFE OPERADORA ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS	EEA Grants
2014	RECOVERY AND USE OF ENERGY FROM VIBRATIONS PRODUCED ON THE TRACK	VIAS Y CONSTRUCCIONES, S.A. TELEFONOS LINEAS Y CENTRALES SA	EEA Grants
2014	DEVELOPMENT OF ORGANIC RAILWAY MATERIALS FOR NEW APPLICATIONS	ICER RAIL SL	Investigación y Desarrollo
2014	DEVELOPMENT OF AN AUTOMATIC AND GUIDED SYSTEM OF CONTINUOUS CONCRETING ON HIGH PERFORMANCE SLAB TRACK	TECSA EMPRESA CONSTRUCTORA, S.A.	Investigación y Desarrollo
2014	DESIGN AND DEVELOPMENT OF NEW GEARBOX HOUSINGS FOR THE RAILWAY SECTOR FREE OF RESIDUAL TENSIONS WITHOUT THE NEED TO APPLY HEAT TREATMENTS	FUNDICIONES GARBI, S.A.	Investigación y Desarrollo
2014	E! C13167 ADORAS (EURIPIDES): ON-BOARD INFORMATION PROCESSING AND ANALYSIS SYSTEM FOR RAILWAY ENVIRONMENTS	AVANGROUP BUSINESS SOLUTIONS SOCIEDAD LIMITADA	Investigación y Desarrollo
2014	ENERGY AND OPERATIONAL EFFICIENCY OF RAIL TRANSPORT NETWORKS	AYESA INGENIERIA Y ARQUITECTURA SA	Investigación y Desarrollo
2014	HIGH PERFORMANCE MEASUREMENT EQUIPMENT FOR THE RAILWAY WHEEL PARAMETERS IN SERVICE	DANOBAT S. COOP.	Investigación y Desarrollo

Year	Title of the Project	Company Name	Type of CDTI grant
2014	GAPZERO (DEVELOPMENT OF A WALKWAY FOR THE EDGE OF PLATFORMS)	METRO DE MADRID, S.A.	Research and development
2014	RESEARCH OF A NEW DETECTION SYSTEM FOR BROKEN RAIL	ELECTRO SISTEMAS BACH, S.A.	Research and development
2014	NEW GENERATION OF COMPOSITE THERMOPLASTIC PRODUCTS FOR THE AERONAUTICAL AND RAILWAY SECTORS	BERBETORES INDUSTRIAL, S.L.	Research and development
2014	INTEGRAL PLATFORM OF EMBEDDED SYSTEMS FOR MASS URBAN TRANSPORTATION WITHOUT ONBOARD OPERATOR	CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A.	Research and development
2014	OPTICAL SENSOR FOR DETECTION OF FALLING OBJECTS ON THE TRACK	SISTEMAS Y MONTAJES INDUSTRIALES SA	Research and development
2014	ADVANCED ACCUMULATION SYSTEM FOR COMPLETELY CATENARY-FREE TRAMS - SAVTRAN	CAF POWER & AUTOMATION SL	Research and development
2014	ALARM SYSTEM FOR APPROACHING TRAINS	INGENIERIA Y CONTROL FERROVIARIO SA	Research and development
2014	ANALYSIS AND SIMULATION SYSTEM FOR SIGNALING	CAF SIGNALLING SL	Research and development
2014	SOLID GRAPHITE LUBRICATION SYSTEM FOR RAILROAD WHEEL FLANGES	SCHUNK IBERICA SA	Research and development

Year	Title of the Project	Company Name	Type of CDTI grant
2014	UNIVERSAL MEASUREMENT SYSTEM OF CATENARY PANTOGRAPH INTERACTION	PATENTES TALGO SL	Research and development
2014	SMART URBAN TRAIN	PATENTES TALGO SL	Research and development
2014	NEW PREFABRICATED ELEMENTS FOR SOUND INSULATION AND WATER RUNWAY CONDUCTION ON RAILWAYS	VIAS Y CONSTRUCCIONES, S.A. BUPRE SL	Research and development in Cooperation
2014	DESIGN OF FLOOR PARTS OF RAILWAY VEHICLES INTENDED FOR SCANDINAVIAN COUNTRIES AND RUSSIA	FUNDICION EN CASCARA, S.A.	Innovation direct line
2014	DESIGN, DEVELOPMENT, VALIDATION AND IMPLEMENTATION OF A RAILROAD ROTOPERFORATION PLATFORM	TELEFONOS LINEAS Y CENTRALES SA	Innovation direct line

2013

17 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2013	MINIMIZACIÓN DE LOS EFECTOS ORIGINADOS POR CLIMATOLOGÍAS EXTREMAS SOBRE LAS INFRAESTRUCTURAS FERROVIARIAS DE ALTAS PRESTACIONES LOCALIZADAS EN ZONAS ÁRIDAS	DEIMOS SPACE, S.L.U INSTALACIONES INABENSA, S.A. ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS NERVADOS SA INGENIERIA Y ECONOMIA DEL TRANSPORTE, S.A. OBRASCON HUARTE LAIN, S.A. WIND INERTIA TECHNOLOGIES SL	FEDER Innterconecta
2013	NUEVO SISTEMA DE VÍA EN PLACA PARA ALTA VELOCIDAD SOSTENIBLE Y RESPETUOSO CON EL MEDIO AMBIENTE	SOFTWARE FOR CRITICAL SYSTEMS SL CENTRO DE ESTUDIOS DE MATERIALES Y CONTROL DE OBRA SA AYESA INGENIERIA Y ARQUITECTURA SA AZVI SA TESTING AND ENGINEERING OF AERONAUTICAL MATERIALS AND STRUCTURES SL ACCIONA INFRAESTRUCTURAS, S.A.	FEDER Innterconecta
2013	SISTEMAS DE CAMBIO DE ANCHO UNIVERSAL	TRIA RAILWAY R&D SL	Internacionaliza
2013	APLICACIÓN DE ELEMENTOS DE AISLAMIENTO Y DISIPACIÓN SÍSMICA EN PUENTES FERROVIARIOS DE ZONAS DE ALTA INTENSIDAD DE SISMO.	TEC-CUATRO,SA	Investigación y Desarrollo
2013	APLICACIÓN DEL ANÁLISIS MODAL OPERACIONAL EN VIADUCTOS DE LÍNEAS DE ALTA VELOCIDAD	INGENIERIA Y ECONOMIA DEL TRANSPORTE, S.A.	Investigación y Desarrollo
2013	DESARROLLO DE NUEVO MATERIAL PARA APLICACIONES DE ALTA VELOCIDAD.	ICER RAIL SL	Investigación y Desarrollo
2013	DESARROLLO DE NUEVOS EQUIPOS PARA LA FABRICACION DE NEUMÁTICOS PARA METRO	MICHELIN ESPAÑA PORTUGAL SA	Investigación y Desarrollo

Year	Title of the Project	Company Name	Type of CDTI grant
2013	DESARROLLO DE RODAMIENTOS PARA TRENES DE ALTA VELOCIDAD	NBI BEARINGS EUROPE S.A	Investigación y Desarrollo
2013	DESARROLLO DE SISTEMA DE DETECCIÓN DE CARRIL CORTADO PARA INSTALACIONES FERROVIARIAS	INSTALACIONES INABENSA, S.A.	Investigación y Desarrollo
2013	DESARROLLO DE UNA NUEVA PLATAFORMA DE TREN PARA LA OPERACIÓN EN CONDICIONES EXTREMAS	PATENTES TALGO SL	Investigación y Desarrollo
2013	DESARROLLO DE UNA TRACCIÓN MÁS EFICIENTE - EFITRACC	PATENTES TALGO SL	Investigación y Desarrollo
2013	DISEÑO Y DESARROLLO DE UN NUEVO SISTEMA AUTOMÁTICO DE DETECCIÓN TEMPRANA DE DEFECTOS EN RUEDAS FERROVIARIAS MEDIANTE MONITORIZACIÓN DE PARÁMETROS EN VÍA.	AGRUPACION MEDITERRANEA DE INGENIERIA SA	Investigación y Desarrollo
2013	NUEVOS ELEMENTOS PREFABRICADOS PARA APLICACIONES EN INFRAESTRUCTURAS FERROVIARIAS	VIAS Y CONSTRUCCIONES, S.A.	Investigación y Desarrollo
2013	SISTEMA DE PLACAS INTERMEDIAS DE ALTAS PRESTACIONES PARA APARATOS DE VÍA	DESARROLLOS Y FABRICACION D Y F SA	Investigación y Desarrollo
2013	SISTEMA EXCITADOR PARA INDUCIR VIBRACIONES EN INFRAESTRUCTURAS FERROVIARIAS. HAMMER	MORA SALAZAR SL	Investigación y Desarrollo
2013	VÍA EN PLACA PREFABRICADA CON CARRIL EMBEBIDO Y ESPESOR REDUCIDO	EIS GUIA CONSULTORES SL	Investigación y Desarrollo
2013	DISEÑO Y DESARROLLO DE UN NUEVO MATERIAL BITUMINOSO TERMICAMENTE AISLANTE Y PARCIALMENTE POROSO PARA SER EMPLEADO COMO CONSTITUYENTE DE LA CAPA DE SUBBALASTO DE LA INFRAESTRUCTURA FERROVIARIA EN PAÍSES CON CLIMAS FRIOS	AGLOMERADOS LOS SERRANOS SA CYE CONTROL Y ESTUDIOS SL PROYFE SL	Investigación y Desarrollo en Cooperación

2012

10 railway projects identified

Year	Title of the Project	Company Name	Type of CDTI grant
2012	DESARROLLO DE LA PRIMERA RED INTELIGENTE PARA LA GESTIÓN ENERGÉTICA DEL SECTOR FERROVIARIO	ANDALUCIA DE ELECTRICIDAD, S.A. TELVENT TRAFICO Y TRANSPORTE, S.A. ADEVICE SOLUTIONS S.A. AERONAVAL DE CONSTRUCCIONES E INSTALACIONES, S.A. INDRA SISTEMAS, S.A. WIND INERTIA TECHNOLOGIES SL ADIF INSTALACIONES INABENSA, S.A. TELVENT ENERGIA, S.A.	FEDER Innterconecta
2012	AVISO DE ARRANQUE PARA MAQUINARIA FERROVIARIA	IDNEO TECHNOLOGIES SL	Investigación y Desarrollo
2012	CONTROL DE DISTORSIONES TERMOESTRUCTURALES USANDO TÉCNICAS AVANZADAS DE ENDEREZADO DE CARRIL	ARCELORMITTAL ESPAÑA SA	Investigación y Desarrollo
2012	DESARROLLO DE SISTEMAS DE ACUMULACIÓN DE ENERGÍA PARA VEHÍCULOS FERROVIARIOS CON ELEVADA CAPACIDAD ENERGÉTICA Y RECUPERACIÓN DE LA FRENADA	CAF POWER & AUTOMATION SL	Investigación y Desarrollo
2012	ECOTRAIN	PATENTES TALGO SL	Investigación y Desarrollo
2012	MATERIALES COMPUESTOS DE BASE NFU PARA CAPAS INTERMEDIAS DE LÍNEAS FERROVIARIAS	AZVI SA	Investigación y Desarrollo

Year	Title of the Project	Company Name	Type of CDTI grant
2012	SISTEMA DE CAMBIO DE ANCHO PARA VÍA MÉTRICA	TRIA RAILWAY R&D SL	Investigación y Desarrollo
2012	DESARROLLO DE UN SISTEMA GLOBAL DE SECTORIZACIÓN FRENTE A INCENDIOS EN TÚNELES FERROVIARIOS EN EXPLOTACIÓN	TALENT INGENIERIA INSTALACIONES Y SERVICIOS, S.L. TALLERES ZITRON, S.A. EUROCONSULT ANDALUCIA SA MECANIZADOS VILLARREAL SL POSTIGO OBRAS Y SERVICIOS SA BONDITEX SL	Investigación y Desarrollo en Cooperación
2012	DESARROLLO DE UNA NUEVA TIPOLOGÍA DE SOPORTE DE RAÍL FERROVIARIO EMBEBIDO ANTIVIBRACIÓN	ACUSTICA Y TELECOMUNICACIONES, S.L. QMC TECNOLOGIA QUIMICA SL	Investigación y Desarrollo en Cooperación
2012	INNOVADORA LINEA DE RECUBRIMIENTO DE PIEZAS PARA EL SECTOR FERROVIARIO	GALOL, S.A.	Línea de Financiación de la Innovación Tecnológica

Spanish Railways Technology Platform - PTFE

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