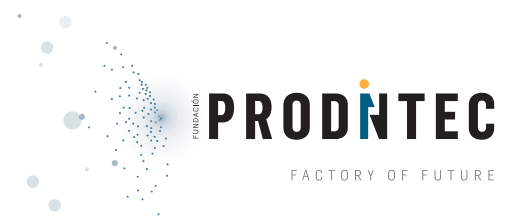


FUNDACIÓN **PRODINTEC**

FACTORY OF FUTURE

2015

ACTIVITY *REPORT*



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2015
ACTIVITY *REPORT*

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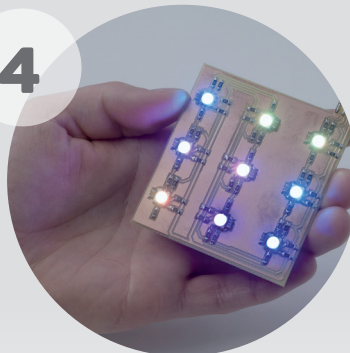
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1

IGNACIO LÓPEZ ARANGUREN

LETTER FROM THE **CHAIRMAN**

“ I LIKE TO THINK THAT PRODINTEC IS A FACTORY
OF DREAMS THAT COME TRUE, OF IMPOSSIBLE THINGS
THAT BECOME POSSIBLE.

THE BASIS OF OUR WORK IS TECHNOLOGICAL BUT WE ARE
DRIVEN BY MANY OTHER ASPECTS.

It is said that Heraclitus of Ephesus, around 500 years B.C., had the idea that everything flows and nothing stands still; he asserted that we cannot bathe twice in the same water in a river because everything is in permanent movement.

If life is evolution, matter is evolution and human beings are evolution, immobility is a state we cannot afford.

We are surrounded by catastrophic examples of clinging to a situation to maintain power; perhaps politics is the first thing that comes to mind, but the same thing can be said of companies and of our personal environment, causing bottlenecks in our society.

Change generates insecurity, especially in times of uncertainty such as those we have been experiencing in the past few years. A frequent philosophy of life is "let things stay as they are".

We are currently witnessing an important transformation: the gradual step from the industrial age to a new digital era. Companies are struggling to adapt to the birth of the digital age; we are starting to see changes in products, in business models and in all the procedures that support them. Businesses are starting to develop in a digital technological environment. Companies, individuals and the organisational culture has to adapt to the new situation.

In this panorama, PRODINTEC's ability to understand the new needs of companies and how they behave in the new technological era is equally vital and noteworthy. PRODINTEC is the clearest example of movement and it is also the support many companies need to keep flowing.

2015 has served to raise the level of what we demand of ourselves and to confirm that the commitment we made some years ago to 3D printing, when it seemed a dream rather than a reality, has allowed us to be at the forefront of a technology that can be used by a multitude of sectors, forcing us to be more creative in order to develop and propose new applications.

In these times of constant change, I must thank all the staff working at PRODINTEC for their ability to adapt to the new environment, for having a clear vocation to continuous training and for committing to a technology centre that is clearly at the forefront of European R&D.

We are grateful to the Government of the Principality of Asturias, the University of Oviedo, the Foundation for the Promotion of Applied Scientific Research and Technology in Asturias FICYT, to other industrial players and to all our clients for their constant support and the trust they place in our daily work.

I like to think that PRODINTEC is a factory of dreams that come true, of impossible things that become possible. The basis of our work is technological but we are driven by many other aspects.

2



ÍÑIGO FELGUEROSO FERNÁNDEZ-SAN JULIÁN

INTRODUCTION BY THE **MANAGING DIRECTOR**

“ IS THE CONTINUED PROMINENCE OF THE CENTRE AND OF ITS ACTIVITIES, ITS EFFORT TO PROMOTE AWARENESS AMONG COMPANIES REGARDING THE LATEST TECHNOLOGICAL TRENDS THAT WILL HELP TO IMPROVE COMPETITIVENESS IN THE INDUSTRIAL SECTOR

The overall balance for 2015 can be considered positive in general terms. The level of activity regarding innovative projects has been maintained and PRODINTEC is still playing a driving role in stimulating technological innovation in the business fabric in its fields of competence.

Another outstanding aspect is the continued prominence of the Centre and of its activities, its effort to promote awareness among companies regarding the latest technological trends that will help to improve competitiveness in the industrial sector. PRODINTEC's permanent commitment to Europe has resulted, over the last year, in the implementation of an important number of European projects that allow us to keep in touch with the main lines of research at a global level.

We find ourselves affected by new megatrends that we are learning to incorporate to our organisation with the necessary flexibility and specialisation that these changes require. The challenge of adapting the principles that are the bases of Industry 4.0 has become part of our basic organisational pillars and technological specialisation and we accept the challenge, the commitment and the responsibility of supporting the operational deployment of R&D policies that will lead to their effective implementation in the industrial fabric. The experience accumulated over these years and the awareness of the needs of product design and of the manufacturing sector enable us to tackle the challenges of Industry 4.0 with a high level of optimism and commitment, which we hope will result in successful innovative projects with the companies that trust us.

In parallel to the consolidation of existing lines of work, we are dealing with new technological needs and challenges that the Centre continues to address year after year to ensure its future.

A job well done sometimes leads to acknowledgements, such as the ATOS Award to digital progress in the "Industry 4.0" category, which we deeply appreciate and that motivates us to continue working for the industrial sector and, ultimately, for society.

Like every year, I cannot fail to sincerely thank the professionals that work at PRODINTEC for their efforts, dedication and involvement in day-to-day activities, which makes it possible for us to continue to move forward and to contribute to the extent of our abilities to building a better society. I would also like to thank the Members of the Board of Trustees of the Foundation for their full support over the years and our customers for their continued trust in the Centre.

3

THE FOUNDATION





WHO WE ARE

The PRODINTEC Foundation is a private non-profit entity created in 2004 on the initiative of a group of firms in the region and the Regional Government. It forms part of the network of Technology Centres of the Principality of Asturias.

As the Asturias Technology Centre for Industrial Design and Production, our mission is "to foster the competitiveness of industrial firms by applying technological advances both

to their products and to their manufacturing and management processes".

We obtained AENOR certification in 2005 in accordance with the UNE-EN ISO 9001:2008 standard (quality management systems) and the UNE 166002:2006 standard (R&D&I management system), being the first technology system in Spain to receive this integrated certification. Furthermore, since 27th March 2007, we are registered as an

Innovation and Technology Centre (no. 99) by the Spanish Ministry of Industry, Energy and Tourism.

Our slogan, *PRODINTEC Foundation Factory of Future*, faithfully mirrors the course we have followed over the last few years as well as our clear commitment to the future, fully in line with European trends in this field, as reflected in our Strategic Plan.



GOVERNING BODIES



The Board of Trustees guarantees that the Foundation fulfils the aims and actions laid out in its Statutes.

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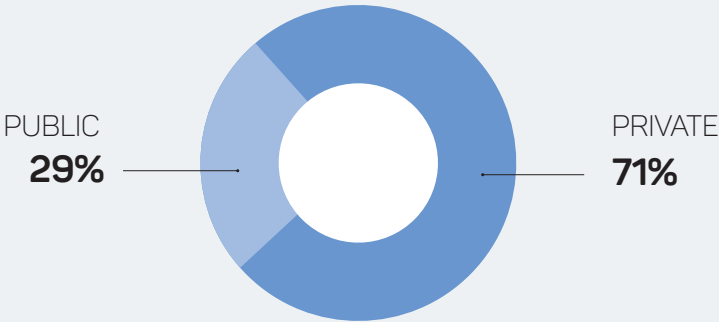
Honorary Trustee:

CAJA RURAL DE ASTURIAS



[BREAKDOWN OF THE BOARD OF TRUSTEES]

Public-/private-sector participation on the Foundation's Board of Trustees



HUMAN RESOURCES

As of 31st December 2015, there were 63 people working at PRODINTEC, between staff and interns from the University of Oviedo. We have also collaborated with the trainee practice scheme of the Gijón Educational Center no. 1, the Industrial and Services Sector Vocational Training Integrated Centre, the School of Art of the Principality of Asturias and the Revillagigedo Vocational Training Centre.

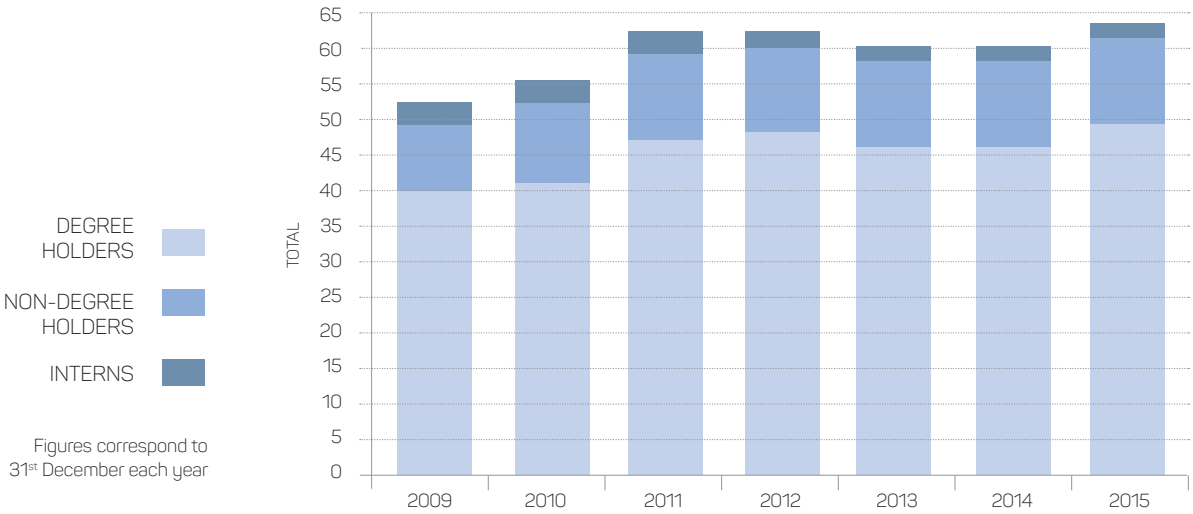
This figure represents the equivalent of 56.87 full-time employees throughout the year, including interns, who suppose 1% of the total.

BREAKDOWN OF STAFF

[STAFF CHARACTERISTICS AS OF 31ST DECEMBER 2015]

QUALIFICATIONS	MEN		WOMEN		TOTAL
	nº	%	nº	%	
PhDs	3	7%	4	22%	7
5-year Degree Holders	23	51%	5	28%	28
3-year Degree Holders	12	27%	4	22%	16
Vocational Training	6	13%	4	22%	10
Bacclaurate or equivalent	1	2%	1	6%	2
Total	45	100%	18	100%	63
		71%		29%	100%

[CHANGES IN STAFF QUALIFICATION STANDARDS OVER TIME]



MEET OUT TEAM



Nuria Rodríguez

< INNOVATION MANAGEMENT AREA >



I am a chemical engineer by the University of Oviedo. I was born in Gijón 32 years ago, but I also consider myself a “citizen of the world”. In addition to visiting other countries, I spent some time during my last year at university in Albi (France) thanks to an Erasmus scholarship. I then took a Master’s degree in internationalisation and innovation promoted by IDEPA, which required spending almost half a year in Hangzhou (China). At a professional level, I worked in the Basque Country and returned to Asturias in 2011 to join PRODINTEC. The innovation management department in which I work handles projects covering various regional, national, European and international technological sectors. We support SMEs in their internationalisation processes and any entity interested in issues related to industrial protection, among other things.

Among many hobbies; travelling, languages and reading are the first three on my list.

What is PRODINTEC from your point of view?

For me, PRODINTEC is a platform from which we can prove that Asturias is also a national and international benchmark in state-of-the-art technology and innovation and from where we can help other entities, including SMEs, to exploit their capabilities and enhance their internationalisation prospects.

What did you see in PRODINTEC to decide to work here?

During the Master’s degree in Chinese language, culture and negotiation I dealt with internationalisation and innovation issues, and as part of the learning activities, we visited certain key organisations related to these issues. One of them was PRODINTEC, in which

we also attended some training sessions. Since then, I have been impressed with the centre and considered it an example to be followed. When I was working in Bilbao, I was also looking for new job opportunities and I tried to find other options, and that was when PRODINTEC and I “chose each other”. And, of course, the possibility of returning to my homeland had a bearing on the decision.

Of all the projects you have worked on, which one is your favourite?

The truth is I find it difficult to choose from among several projects, but if I had to choose only one, I would probably highlight one that will have an impact on the planet. It is a project on which we are currently working for the European Space Agency (ESA) in which PRODINTEC,

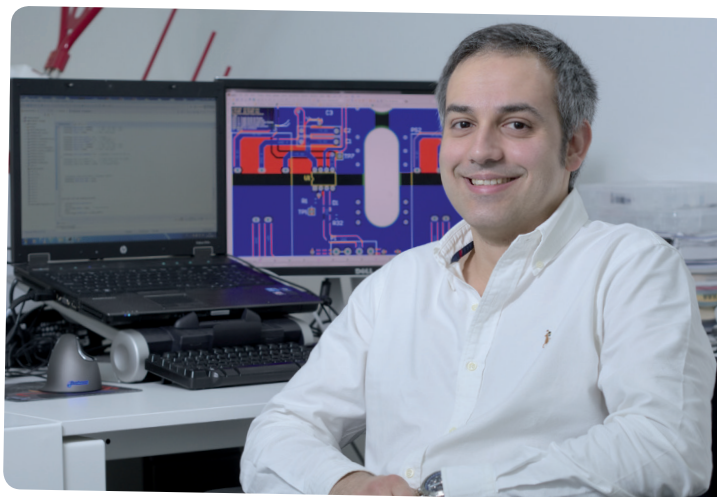
together with GMV and the Polytechnic University of Milan, will develop a system to collect the “space debris” orbiting the Earth as a result of the various missions carried out throughout the history of the space race.

Have you had opportunities to learn and develop at this job?

The truth is that it is not always easy to combine learning and work but I have had an outstanding opportunity to combine both. Thus, in 2014, I was able to spend some time at the SOST - CDTI offices in Brussels on a Management Specialisation Programme. It allowed me to learn about the latest developments of the Horizon 2020 programme and I also got to know many European agents, allowing us to confirm PRODINTEC’s place in Europe.

Fernando Jesús García

< ELECTRONIC ENGINEERING AREA >



It all started at the Revillagigedo Foundation, with my vocational training. Then, I graduated as an industrial technical engineer at the University of Oviedo and finally I took a Master's degree in Electrical Energy Conversion and Power Systems at the Polytechnic School of Engineering of Gijón.

Once I finished my studies, I went to work outside of Asturias where I was able to obtain my first experience in electronic design aimed at the mass manufacture of equipment, working closely with production teams and focusing the design on functional aspects but also on ensuring a simple production process. PRODINTEC provided me with the opportunity to continue my professional career in Asturias, a land I missed, and, in 2009, I joined the electronics department, where I currently conduct research projects and I also test electromagnetic compatibility issues.

Why did you decide to work in the field of electronics?

Pure vocation. There was an old wireless at home that didn't work. One afternoon I was bored and I got a screwdriver and opened it. I was attracted by all those components, welded so meticulously, and I started to wonder what each one was. I looked in books without too much success. As Internet did not exist and without a specialised bibliography, it was quite difficult to learn; which led me to consider a Vocational Training course. That proved to be the right choice because, in addition to basic skills in electronics, I learned an attitude towards work and the need to make an effort.

Have you had opportunities to learn and develop at this job?

Yes. In addition to taking an official Master's degree while still at work, I have also been able to take part in very diverse projects, putting my capacity of adaptation and versatility to good use. I have been able to learn how to use the Electromagnetic Compatibility laboratory and to solve problems in devices that fail the said tests.

What do you like most about working at PRODINTEC?

What I like most is working in a leading company, a local and national benchmark in various technologies. I can work on very

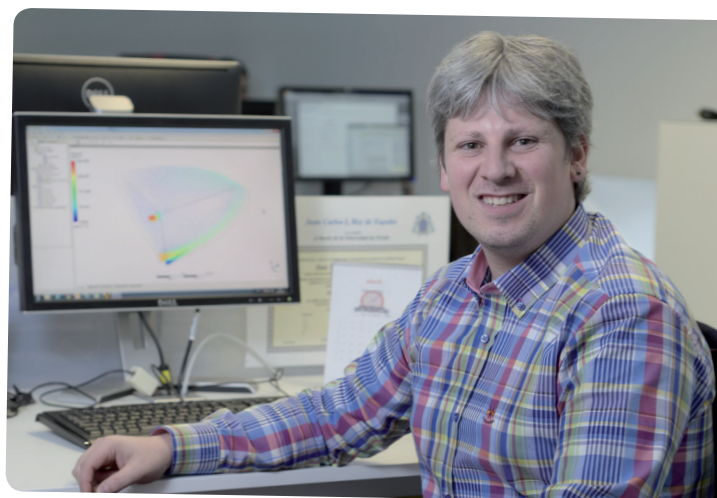
complicated projects with international teams.

What would be the ideal project in which you would like to be involved?

It would be one in which we manage to transform an idea into something tangible, something that can reach the end customer and meet a need, that people will like, talk about, and, if to achieve all this, I have had to make the most of my skills and acquire new knowledge, then, it would certainly be my ideal project.

Sergio García

< PRODUCT DESIGN AND ENGINEERING AREA >



I am 33 years old and from Gijón. I have been working as a mechanical engineer at PRODINTEC since 2010. I studied Industrial Engineering at the Polytechnic School of Engineering of Gijon and subsequently widened my training by taking various graduate courses in the field of commercial, financial and work team management. My work experience has led me to specialize in the field of finite element analysis in multiphysical environments (structural, thermal, modes, fluid dynamics...) and I have made several presentations in this field at domestic and international level. On a personal level, I love challenges and new experiences. I enjoy the pleasure of a good meal with old friends and travelling to new destinations and learning about cultures that are different from ours.

What did you see in PRODINTEC to decide to work here?

As a dynamic person who enjoys challenges, the possibility of working in a technological centre dedicated to R&D for enterprises was an opportunity I could not let pass. I have always been a bit of an "inventor" and PRODINTEC's mission and values perfectly matched my ideals of a company, not forgetting the access I have to leading technologies and the excellent references I had received about the centre.

What is your day-to-day work at PRODINTEC?

I usually start by reviewing my list of tasks and setting out a goal for the day. Then I put on my overalls and tackle the challenges our customers have submitted, trying to improve tasks as far as possible using available resources.

What is the most important thing you have learned in these years?

The importance of customer satisfaction. You have to strive for excellence in your work because satisfied customers will

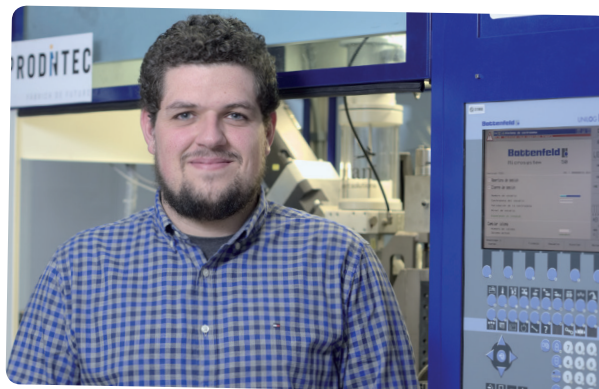
come back. Today, this is a treasure that we have to preserve with the greatest care.

What do you like most about working at PRODINTEC?

The chance of working on projects of a very diverse nature, from small ideas for entrepreneurs to new designs for offshore rigs for the wind power industry. On the other hand, just as important or even more so, is the excellent commitment and work of my co-workers, who make everyday difficulties easier to overcome.

Luis Ignacio Suárez

< ADVANCED MANUFACTURING AREA >



I am an industrial engineer that specialises in the field of Manufacturing Process Engineering. After working with the research group of this department at the University of Oviedo, I joined the PRODINTEC team in 2011 as an expert in advanced manufacturing, within the field of microtechnology. My work currently focuses on three major technical facets: the development of new ideas and ways of working in the field of advanced manufacturing, the technical coordination of projects on this topic, and applied techniques as an expert in the microinjection of thermoplastic polymers and in powder injection moulding processes.

What is your day-to-day work at PRODINTEC?

At the risk of sounding cliché, it could be summed up in a simple way by saying that every day is a new challenge. Not only at a technical level - if this were not the case we would not be doing our job well - but also in regard to the different sectors for which we work. PRODINTEC is, to a great extent, a cross-cutting organisation regarding the type of collaborating companies and the projects we address. Each one of them proposes a new task and in most cases, tasks that are radically different from previous experiences. Providing each one of them with a valid solution implies that we have to become experts in that field very quickly.

What is the most important thing you have learned in these years?

Within the field of engineering applied to manufacturing, there are not many professional contexts that require technical experts to be flexible and versatile and to

encompass diverse technologies and processes. This becomes a maxim when you work in innovation. There is a positive part in this for dynamic people with curiosity but it also requires a high degree of commitment at all levels in regard to keeping abreast of the latest technologies, trends and fields of application. In fact, "technological surveillance" is one of the pillars of PRODINTEC that precisely addresses this issue.

What would be the ideal project in which you would like to be involved?

It is always much more rewarding to work on collaborative multidisciplinary projects. Realising how manufacturing technologies complement other aspects involved in a global technological development is truly satisfactory. On the other hand, there must also be a sufficiently interesting implementation framework to justify the work undertaken. In this sense, the medical field is always gratifying as a sector in which the results of a project are

tangible and generate an impact in such an important field as the welfare of people.

What was your greatest challenge last year?

Having to analyse and design new ways of working with innovative ideas often constitutes the greatest challenge, even greater than the technical challenges we face on a daily basis. In particular, I recall a project that we began last year where we wanted to explore the possibility of "functionalising" micro-implants to monitor critical parameters in certain pathologies. Finding companies interested in the development and, above all, with the necessary technical expertise to meet the challenge, inside Spain and abroad, is always complicated. The good thing about all this is that you never cease to be surprised by the will to advance and develop, and of the technical capabilities of neighbouring companies of which you thought you knew everything.

FACILITIES

PRODINTEC headquarters are situated in the INTRA area of expansion of Gijón Science and Technology Park. These facilities, highly focused on improving the competitiveness of the manufacturing industry through technological innovation, boast the latest industrial innovation technologies for manufacturing products and processes and are located in a truly representative building of the valuable industrial heritage of both Gijón and Asturias, as is the Universidad Laboral's old tobacco drying facility.

These facilities occupy a parcel of about 1,600 sq m, with a usable area of almost 5,000 sq m, distributed in:

- Technical office area
- Laboratories equipped with advanced manufacturing technologies
- A space reserved for housing spin-offs, i.e. innovating companies that have arisen from R&D activities and projects developed in collaboration with PRODINTEC.

Moreover, PRODINTEC has an office in Madrid, established in 2011, and located in Madrid Science Park Building in Cantoblanco Campus.

CORPORATE SOCIAL RESPONSABILITY

COMMITMENT TO THE PROTECTION OF THE ENVIRONMENT AND EFFICIENCY

The efficient management of resources and respect for the environment are present in the day-to-day operations of PRODINTEC.

We encourage all initiatives aimed at waste reduction and management: recycling paper, cardboard packaging and glass; improvements in the areas and procedures dedicated to the management and classification of waste whether generated in offices or laboratories; enabling users to process and subsequently management waste using their own resources or, in the case of hazardous waste, through authorised companies, etc.

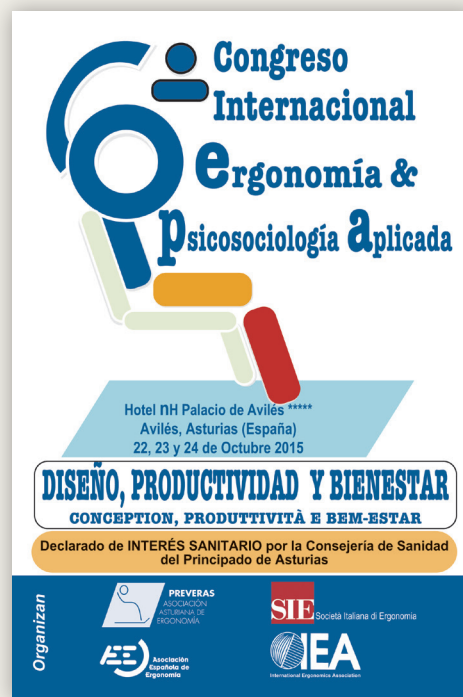
Similarly, we work and encourage continuous improvements aimed at reducing energy consumption, optimizing the lighting and air conditioning of our facilities and the energy consumption of the equipment.

COMMITMENT TO QUALITY

At PRODINTEC we are committed to quality as a fundamental pillar of the services and projects we provide. Consequently, we operate a management system based on UNE 166002 and ISO 9001 standards, which ensures compliance with our customers' requirements and with applicable legal rules and regulations.

GOOD GOVERNANCE AND TRANSPARENCY

For the last two years, we have been using a tool to optimize governance, aimed at enhancing the dialogue between members of the Foundation's Board of Trustees and the centre's management.



COMMITMENT TO THE DEVELOPMENT OF SOCIETY

PRODINTEC has been acknowledged by the City Council of Gijón with the seal of **"Companies Committed to Youth"** for its participation in the Programme of non-Labour Practices and for promoting, therefore, labour integration of the youth in the city. Furthermore, PRODINTEC has had recognition for its collaboration in the municipal programmes of employment, training and economic promotion of the City Council of Gijón.

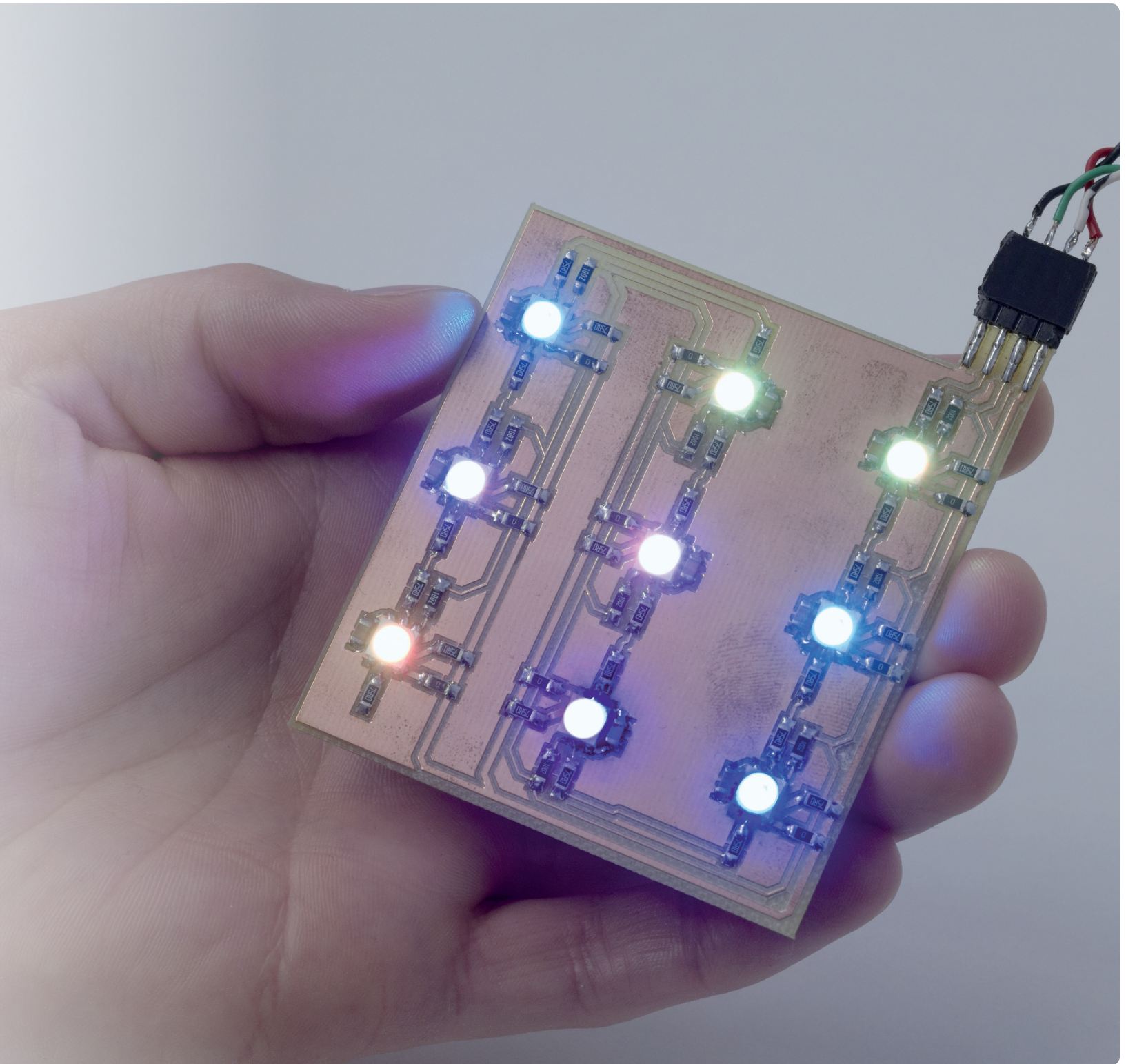
Similarly, during 2015, as part of our foundational purposes, PRODINTEC collaborated with different agencies in the dissemination of innovative culture via visits to our facilities, informative talks and the participation of our employees in different forums, seminars and events at regional, national and international level.

In addition, PRODINTEC sponsored the following events in 2015:

- **9th Patents and Utility Models Contest** organised by CEEI Asturias.
- **6th National Conference of Ergonomics and Applied Psychosociology** organised by the Asturian Ergonomics Association (PREVERAS), the Spanish Ergonomics Association (AEE), the Italian Ergonomics Society (SIE) and the International Ergonomics Association (IEA).



4 *OUR ACTIVITIES*



ORGANIZATIONAL STRUCTURE

PRODINTEC is now structured in four major areas:

Operational Area

Constitutes PRODINTEC's technological "muscle". It is composed of technicians who are specialists in different technologies and their applications in industrial sectors. In turn, it is organised into four units: product design and engineering, electronic engineering, advanced manufacturing and innovation management.

External Relations Area

Centralises PRODINTEC's interaction with the market: searching for new business opportunities of regional, national and international scope, identifying industrial needs, dealing with clients... This area also coordinates communication and dissemination activities.

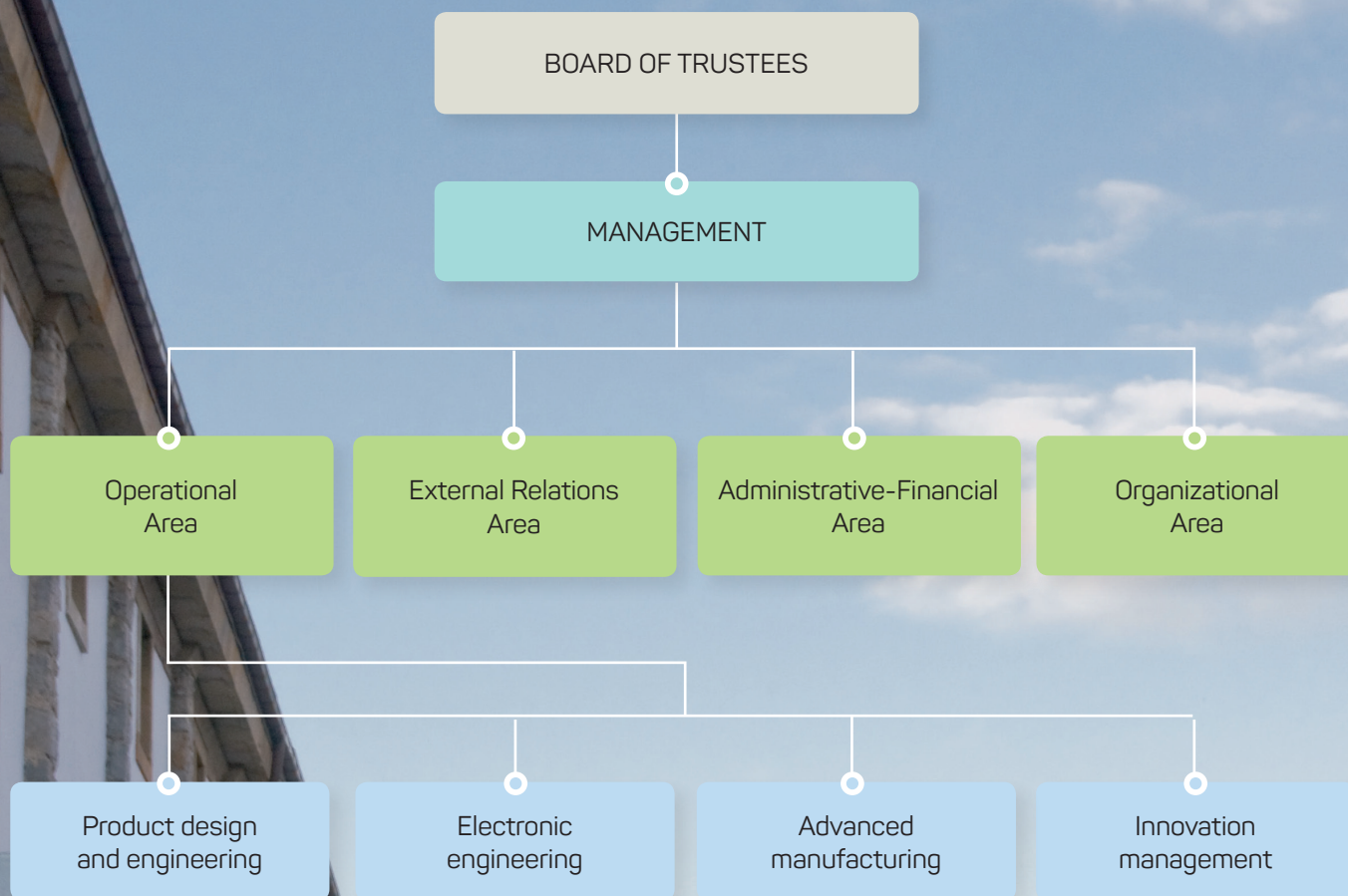
Administrative-Financial Area

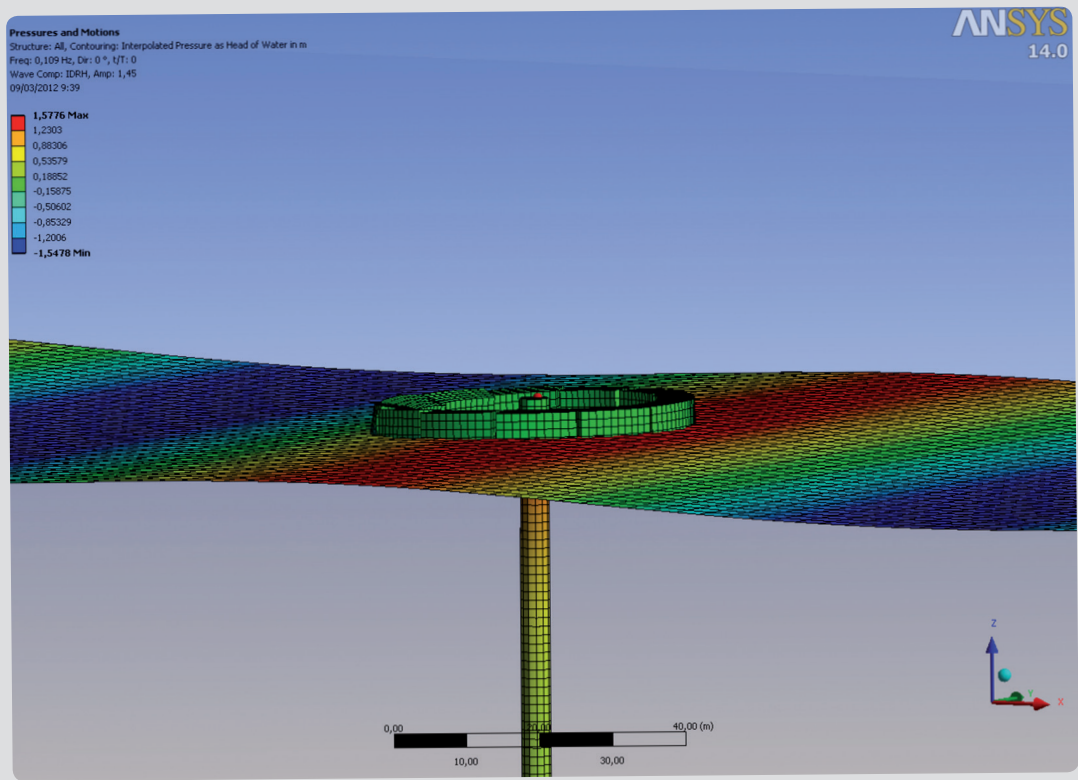
It is aimed at the economic and financial control of PRODINTEC, working –in coordination with the Managing Director–, on short-, medium- and long-term investment strategies, as well as legal and fiscal and human resources management.

Organizational Area

It is the one in charge of supporting all the other areas at PRODINTEC. Specifically, it is responsible for running the internal quality, R&D&I management system, the management and maintenance of information systems, the telecommunications network and the access system and compliance with work safety and industrial hygiene protocols.

PRODINTEC's **organizational structure** responds to the need to adapt to organisation's growth (in terms of both staff and volumen of projects and services undertaken) and to prepare it to continue to maintain the high levels of efficiency within the organisation.





PRODUCT DESIGN AND ENGINEERING

At PRODINTEC, we have **cutting-edge methodologies** and technologies to help companies during all the new product (turnkey equipment, tools, structures, parts, pilot plants, special machinery...) design and development stages and for a broad range of sectors (aeronautics, capital goods, health, biotechnology, energy, construction...).

We can fully assume the execution of these tasks or support companies on an ad-hoc basis in the stages where they consider it necessary, always taking into consideration aspects such as the mechanical strength, material, safety factors, manufacturability, cost and durability, as well as aesthetics and usability of the product, always taking into account target market and sector.

Thus, at PRODINTEC all the product design stages are addressed:

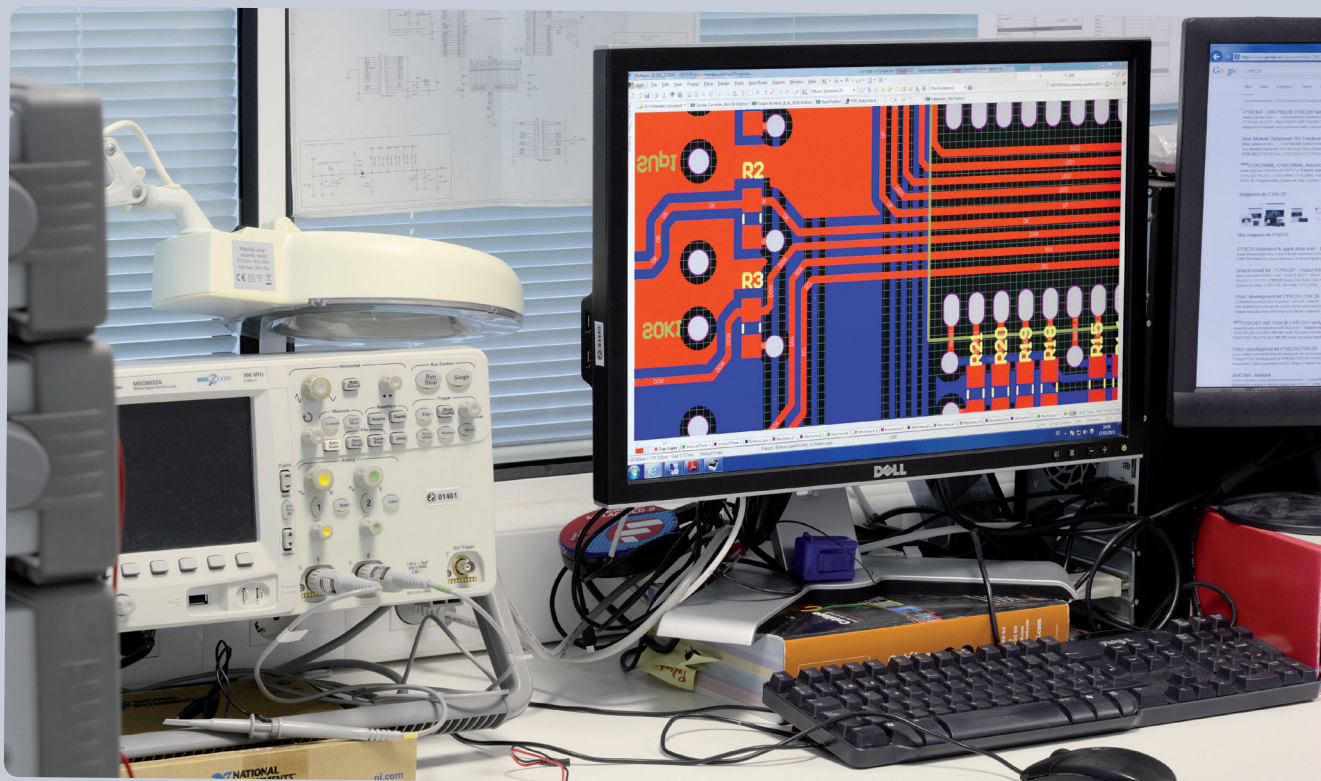
- Strategic definition
- Economic and technical feasibility study
- Concept design
- Detailed design
- Technical office and product engineering
- Validation tests
- Industrialisation

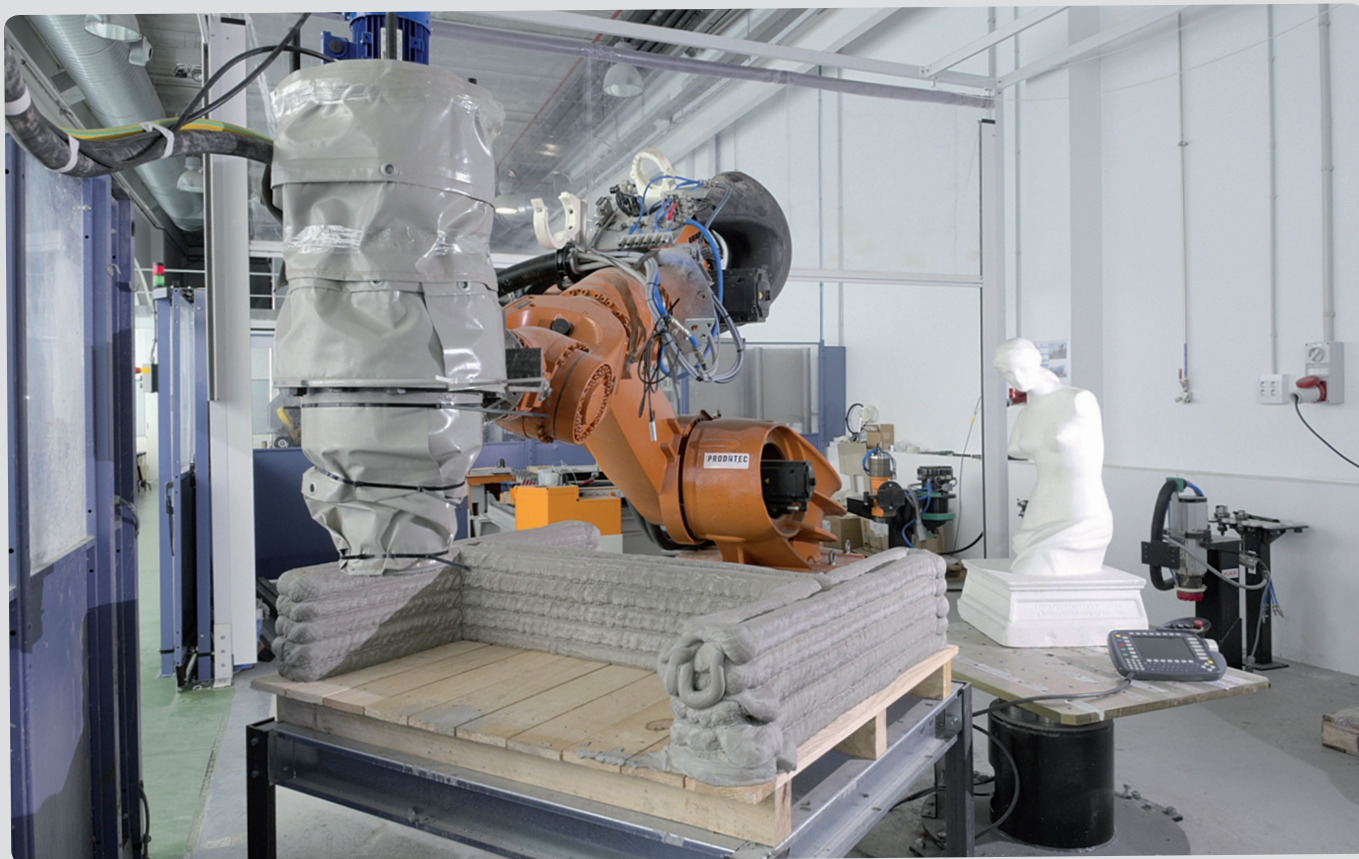
ELECTRONIC ENGINEERING

PRODINTEC's electronic engineering department is specialised in the development of new devices, equipment and machinery that require tailor-made automation or electronics integration to obtain accurate, efficient and smart operation. Thus, we can develop new technological products for our customers that satisfy the market demands in all types of sectors, as well as design and manufacture the machinery and equipment needed for the different manufacturing, research, control and testing processes, in the form of automated or autonomous operation.

In this field, we focus on the following action lines:

- Electronic engineering
- Flexible printed electronics
- Automation and robotics
- Smart systems
- Electromagnetic compatibility and electric safety





ADVANCED MANUFACTURING

At PRODINTEC we help our customers control, optimise and improve their manufacturing processes, develop new production processes and choose the most appropriate manufacturing technology and material to satisfy their product demands.

To do so, we put the following technologies and methodologies at their disposal:

- Additive manufacturing (3D printing)
- Microtechnologies
- RIM (Reaction Injection Moulding)
- Milling
- Industry 4.0
- Collaborative robotics
- Artificial vision
- Manufacturing control and planning
- Simulation of industrial processes
- Dimensional metrology and reverse engineering

INNOVATION MANAGEMENT

The management of innovation processes is key to make companies more competitive. Although often they are not aware of it, all firms innovate in their day to day to stay on the market: they improve their products and processes, introduce changes in their way of organising or seek new ways to sell better. But a good innovation management makes the difference, allowing to minimize associated risk and improve efficiency in the use of human and material resources.

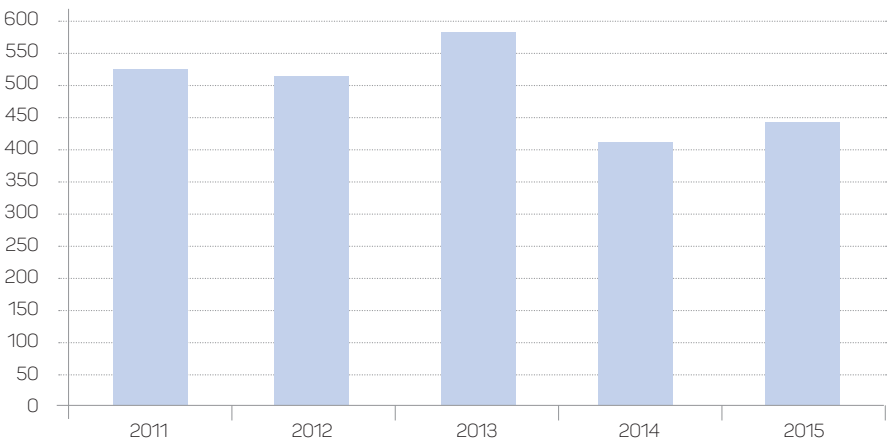
PRODINTEC places the following tool and services at the disposal of companies that require systematic management of their innovation processes.

- R&D and innovation project management
- Technology protection
- Technology surveillance and forecasting
- Internationalisation of R&D and innovation

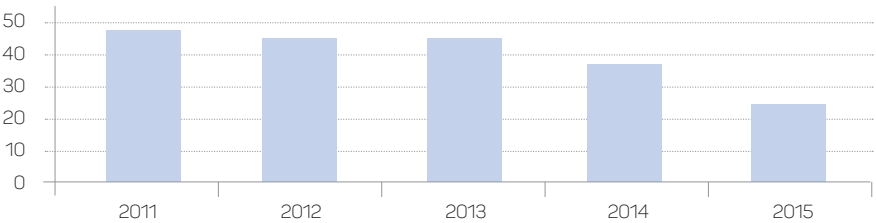


R&D&I PROJECTS AND TECHNOLOGY SERVICES PORTFOLIO

[NUMBER OF TECHNOLOGY SERVICES PROVIDED DURING EACH YEAR]



[NUMBER OF R&D&I PROJECTS PROVIDED DURING EACH YEAR]



RELEVANT PROJECTS



FoFAM

Industrial and regional valorization of Additive Manufacturing projects under the PPP “Factories of The Future (FoF)”.

Consortium: PRODINTEC (Spain – coordinator), TNO (the Netherlands), ERRIN (Belgium) and TWI (UK).

Funding programme: Horizon 2020 – European Commission (grant agreement no. 636882).

Budget: 348,210 €.

Duration: January 2015 – December 2016.



SYMBIO-TIC

Development of solutions for new working environment based on an immersive and symbiotic collaboration between human workers and robots aimed at achieving lower costs, increased safety, better working conditions and higher profitability.

Consortium: Royal Institute of Technology (Sweden – coordinator), Hungarian Academy of Sciences (Hungary), Laboratory for Manufacturing Systems & Automation of the University of Patras (Greece), Profactor (Austria), University of Skövde (Sweden), IDEKO (Spain), Fraunhofer IPA (Germany), Volvo (Sweden), SANXO Systems (Hungary), ABB (Sweden), Amorph Systems (Germany), Robomotion (Germany), Aciturri (Spain), VTT (Finland) and PRODINTEC (Spain).

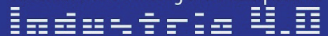
Funding programme: Horizon 2020 – European Commission (grant agreement no. 637107).

Budget: 7,230,208 €.

Duration: April 2015 – March 2019.



Observatorio de Inteligencia Competitiva



OTEA

Development of a key tool for implementing a new business model based on technological surveillance to automate the processes of collection and sorting of useful information for the company and to optimally manage the knowledge analysis and extraction for dissemination.

Consortium: PISA Innovation Projects (Spain – coordinator), Federation of Metal and Related Product Companies in the Principality of Asturias FEMETAL (Spain), CTIC Foundation (Spain) and PRODINTEC (Spain).

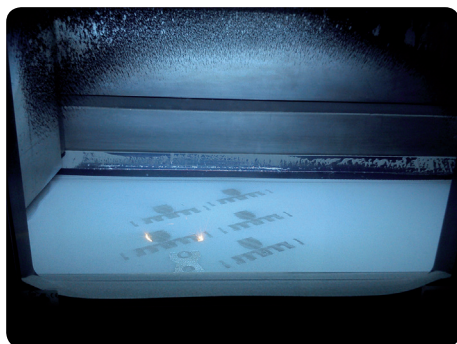
Funding programme: Business development platforms – Gijón City Council (grant agreement no. 1070B/2015).

Budget: 107,909 €

Duration: June 2015 – November 2017.



PRINT CREDIT



PRINTCR3DIT

Employment of 3D printing to boost process intensification in the chemical industries by adapting reactors and structured catalysts to the requirements of the reaction.

Consortium: SINTEF (Norway – coordinator), Arkema (France), Yara (Norway), Biosynthis (France), Johnson Matthey (UK), SICAT (France), ACM (Germany), ADERA (France), Linde (Germany), Amtech (Germany), University of Porto (Portugal), Institute of Chemical Process Fundamentals (Czech Republic) and PRODINTEC (Spain).

Funding programme: Horizon 2020 – European Commission (grant agreement no. 680414).

Budget: 5,493,891 €.

Duration: October 2015 – September 2018.





WINNER

Development of a new solar photovoltaic system integrated into buildings (specifically, smart windows) for optimal climate control combined with the self-generation of energy.

Consortium: PRODINTEC (Spain – coordinator), CeNTI (Portugal), Evangelical National University (Dominican Republic) and University of Bio-Bío (Chile).

Funding programme: ERANet-LAC – Spanish Ministry of Economy and Competitiveness MINECO (grant agreement no. PCIN-2015-152).

Budget: 614,855 €.

Duration: November 2015 – October 2017.



RAMICA

Development of a robotic system consisting of an autonomous buoy powered by solar panels able to take water samples at different levels and analyse microbiological parameters in situ and in real time.

Consortium: Underwater Research Center (Spain – coordinator), JMP Engineers (Spain), InDrops (Spain), University of Vigo (Spain), CETMAR (Spain) and PRODINTEC (Spain).

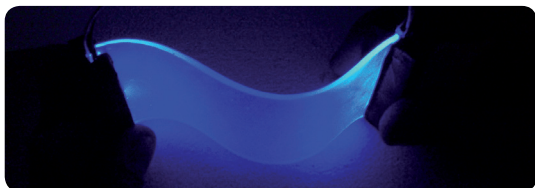
Funding programme: Challenges-Collaboration 2015 – Spanish Ministry of Economy and Competitiveness MINECO (grant agreement no. RTC-2015-4192-2).

Budget: 995,277 €

Duration: November 2015 – December 2018.



PILOT LINES

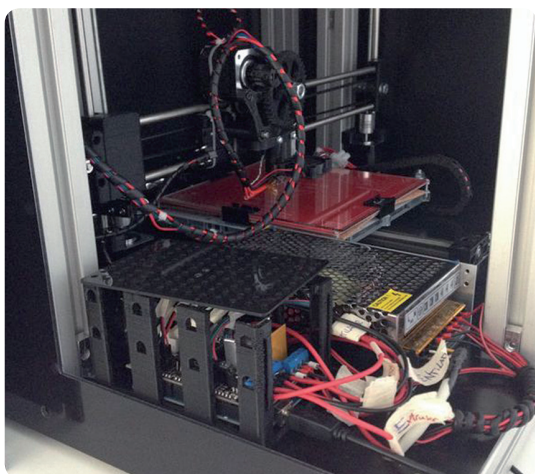


FLEXIBLE PRINTED ELECTRONICS

Our roll-to-roll manufacturing pilot line for the production of high-technology products on low cost flexible materials is the result of combining PRODINTEC's expertise in electronic design, equipment manufacturing and process automation.

Currently, we use this line to design tailored products and analyse the feasibility of their mass production. For this, we test different materials and substrates, and develop, manufacture and integrate new roll-to-roll operation modules and quality control systems (visual and inspection).

Some types of products where the roll-to-roll production is being implemented are lighting and signing products (LED, OLED, EL...), photovoltaics, electrochemical sensors, microfluidic systems, flexible optical systems, smart labeling, RFID, etc.



BIOPRINTING

Bioprinting is a new applied research area that results from the adaptation of additive manufacturing technology (3D printing) to generate live tissues and even whole human organs.

This process can be applied directly, by printing the entire biochemical structure needed for cell growth, or indirectly, by creating scaffolds on which the cell growth can occur.

PRODINTEC has the experience needed to address the design and manufacture of complete indirect bioprinting prototypes, including the development of devices and the testing of different materials (bioinks, biopapers...), as well as the development of new direct bioprinting concepts.

TESTING CENTRES



R&D CENTRE FOR VERTICAL TRANSPORTATION

Located at the Industrial Site of Porceyo (Gijón), the testing tower is the most emblematic feature of this R&D centre. It is 38 m high (equivalent to 12 floors) and with a 6 x 4 m internal shaft to test lifts of up to 4 tons.

Thanks to this laboratory, companies specialised in the vertical transport field can optimise the deadlines to validate their new developments by testing and checking the products before launching them onto the market, improving aspects such as the design, equipment comfort, mechanic, electric or electronic systems or trial runs.

In this way, our product design and development and electronic engineering capabilities are complemented with advanced infrastructure to provide our customers with a holistic service to develop more competitive products.



ELECTROMAGNETIC COMPATIBILITY LABORATORY

Our Electromagnetic Compatibility Laboratory (CEMLab), located at the Campus of Gijón of the University of Oviedo, is the most powerful tool for the electromagnetic testing of electronic products, both during the development stages and during the commercialisation process.

This evaluation allows us to get to know the electromagnetic disturbance caused by the equipment in normal operating conditions, as well as subject it to certain radiations and disturbances to ensure its robustness.

Moreover, our specialised staff provides personalised guidance and counselling to our customers in terms of electromagnetic quality and CE marking, which, complemented with the capabilities of our electronic lab, allows us to guide the design of electric and electronic products to the final compliance with the applicable standards or their fast adaptation if the evaluation is negative.

IN-HOUSE DEVELOPED PRODUCTS



IDINET

The project management methodology developed in-house by PRODINTEC enables the execution, monitoring and control of R&D&I projects with a guarantee of success, while at the same time allowing the user to know the value obtained through these projects.

Based on this methodology and in conjunction with Futuver Consulting, we have developed IDINET, an intuitive software tool to manage not only projects, but all the organization's activities and projects. The system enables us to plan the team's tasks, manage expenses and income, centralise documents, generate reports based on the information saved, manage contacts...

Simple use, fast implementation and high availability of centralised information from any spot by means of an agile and safe web environment have resulted in the presentation by Microsoft of IDINET® as one of the most innovative tools in the market. At the same time, AENOR has certified IDINET® as an R&D&I management system in organisations.



R3ALD

R3ALD is the first Spanish additive manufacturing (3D printing) platform to target the industrial sector. It provides instant quotations and permits ordering online the manufacture of parts in different materials (metal, plastic, resin, plaster...) and finishes (painted, tinted, metallic...), from a file provided by the customer while preserving the strictest confidentiality.

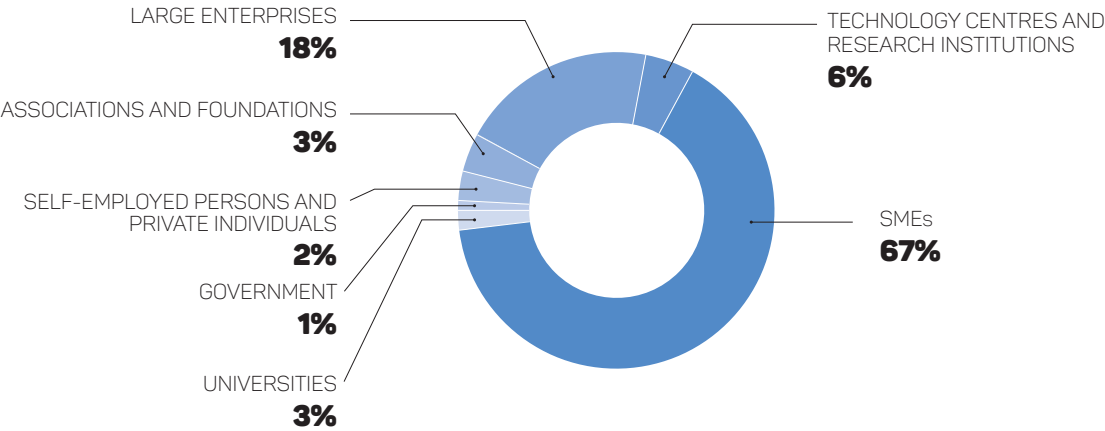
R3ALD ensures the purchase of competitive products, with very short delivery times whilst adapting to the stringent requirements of the industrial sector (capital goods, aeronautics, automotive, mould and die sectors, energy, health, implantology...).

R3ALD's target audience are the engineering or R&D departments, designers, entrepreneurs, architects... In general, anyone who needs to manufacture a part based on a 3D file, either to validate its design or to use it as a final product.

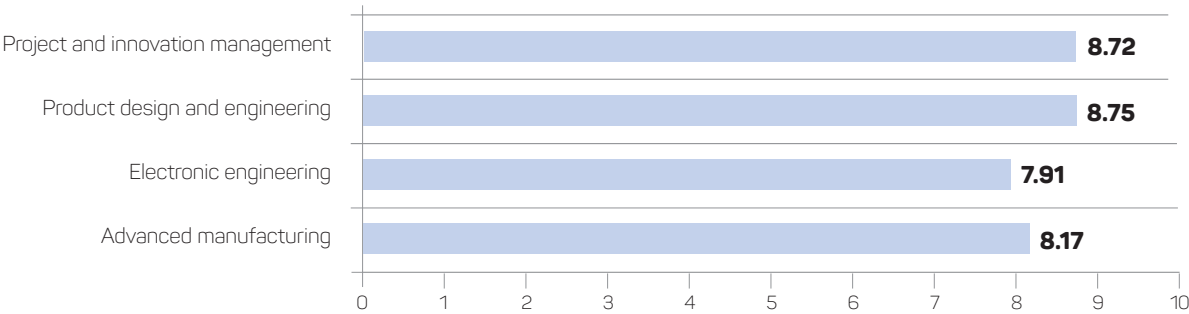


CLIENT PORTFOLIO

[CLIENT PORTFOLIO IN 2015 BY TYPE OF CLIENT]



[LEVELS OF CLIENT SATISFACTION]



OUR CLIENTS' OPINION

FIBHULP

FIBHULP is the body responsible for the administrative management in support of research at the Health Research Institute of the University Hospital La Paz, with the ability to manage and generate resources and recruit staff. The purpose of FIBHULP is to manage clinical research programmes and projects and other related activities in the field of biomedicine, promote research, training and teaching in the field of health sciences and to promote and consolidate biomedical research in the University Hospital La Paz.

Among the support platforms that comprise FIBHULP, the Innovation Support Unit (UAI) is noted for its close cooperation with PRODINTEC. It was established in 2010 with the purpose of transferring any innovative knowledge and results obtained from assistance programmes and research activities of its in-house staff to society with a view to generating an economic return. In order to achieve this goal, the main action plan set out was to encourage, promote and identify innovative ideas among all the research and health care staff, as well as the subsequent optimisation of the same to transfer them to society. Precisely, in order to achieve this optimisation, the UAI operates as a channel for the development

of industrial projects and prototypes and it is for this purpose that the UAI is seeking the collaboration of PRODINTEC.

What type of work do you do with PRODINTEC?

To date, our collaboration with PRODINTEC has consisted mainly in conducting studies on the technical feasibility of products based on technologies arising within the hospital, as well as their commercial viability and possible marketing strategies. Occasionally, PRODINTEC has been involved in the development of a prototype for one of these products.

We are currently exploring all possible avenues of collaboration to participate jointly in research projects that result in the transfer of innovative ideas that arise in the hospital to the markets. As part of this collaboration, we contemplate the joint preparation of proposals for R&D funding programs, such as Horizon 2020.

What does working with a technology centre such as PRODINTEC mean to you?

Given the great diversity of product types and fields of use of the technologies that we have to transfer to the market, we need to rely on a multidisciplinary collaborator that specialises in a wide range of sectors, and that is able to

undertake all kinds of projects at any point in their development phase.

To assess the commercial potential of a product to be transferred, FIBHULP needs a technological overview of the project; therefore, working with PRODINTEC allows us to hear their specialised opinion about the product in relation to its viability and the place it may occupy in the market. This enables us to know the requirements that the product in question lacks with a view to its subsequent development and marketing.

What are, in your opinion, PRODINTEC's strengths?

The main strength of PRODINTEC is that it has a highly professional, skilled, specialised, multidisciplinary and experienced team that covers all fields and industries. Their key hallmark is their availability and adaptability, the immediacy in their responses, as well as the friendly manner in which they deal with everyone.

It is also worth mentioning the important network of collaborators and contacts they have and that allows them to reach agreements and meaningful relationships with other companies and agencies.



Hospital Universitario La Paz
Fundación para la Investigación Biomédica



TEKOX

TEKOX is a company from Asturias that has specialised in the design, manufacture and marketing of low voltage electrical connecting components for 40 years. It is the leading company in its sector in Spain and has a strong position in the international arena. It is present on the five continents and coordinates all its operations from its headquarters in the Technological Park of Asturias, in Llanera.

Always committed to quality, it is one of the companies driving the culture of quality in Asturias and a founding partner of the Asturian Quality Club. TEKOX was the first Asturian company and the first European company in the electric sector to be certified under ISO 9000 standards. Quality, in the broadest sense of the word - product, service, relationships - is still the key aspect that guides TEKOX in its day-to-day operations.

The electrical connections manufactured are aimed at two specific types of markets: low voltage electrical facilities and the manufacture of lighting equipment and devices.

Our innovative nature and our close collaboration with customers enable us to develop optimal solutions for every need through a thorough study and monitoring process of the evolution and trends of each market.

What type of work do you do with PRODINTEC?

The collaboration between Tekox and PRODINTEC goes back more than eight years and covers several fields:



- The manufacture of prototypes using additive manufacturing systems
- Product design
- R&D projects in cooperation with PRODINTEC and international partners

On the other hand, regarding the so-called fourth industrial revolution, PRODINTEC is our partner of choice when it comes to introducing new tools in our manufacturing systems that guide the processes toward a smart factory concept. Hence, for several years we have been collaborating on various so-called Industry 4.0 projects.

What does working with a technology centre such as PRODINTEC mean to you?

A technology centre like PRODINTEC is the ideal partner for our company which, in spite of

its small size, is very active in various markets and technologies. Their knowledge of various disciplines and their experience in all kinds of projects provide added value when we collaborate; value that is difficult for an SME to obtain otherwise.

What are, in your opinion, PRODINTEC's strengths?

As a technological centre, PRODINTEC is very familiar with new industrial technologies and methods, and facilitates their implementation in companies.

In addition, the multidisciplinary nature of PRODINTEC'S team of professionals enables them to tackle extremely diverse projects and solve issues that may arise from various points of view. In short, collaborating with PRODINTEC ensures success.

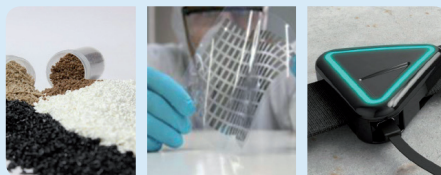




CeNTI is a distinct European Research and Development Centre, equipped with cutting-edge technology and conducting world-class research and development focused on three major pillars: Functional Materials & Solutions, Smart Materials & Systems, and Design, Modelling & Engineering for the development of innovative materials and solutions for aeronautics, automotive, architecture and construction, health, protection and well-being applications. CeNTI provides, in a business to business approach, applied R&D, engineering and scaling-up production of innovative smart materials and devices. Our services take a multi-disciplinary approach and include the participation of experienced technologists and researchers (physicists, chemists, electronics/chemical/materials engineers and designers). Currently, CeNTI has more than 40 industry driven ongoing projects, counting with 50 R&D staff, in 2,000 m² labs and process facilities. CeNTI is an active member of different European Technology Platforms related to energy efficiency buildings, organic and printed electronics and high-tech fibre materials and multifunctional coatings for textile applications such as E2B-EI, OE-A and ETP-TC.

In which fields or projects are you collaborating with PRODINTEC?

Since 2013, CeNTI and PRODINTEC experience a fruitful cooperation driven by a complementary strategy towards innovation and competitiveness for their industrial partners. The two technological centres have been walking into collaborative research activities



with an understanding that cooperation across all science and technology domains offers the opportunity to embark upon successful bottom-up inter and multidisciplinary experiences. It has been so since the collaboration in the European project Value4Nano for the valorisation of strategic value chains and pilot lines for nano-enabled technologies, services and products, contributing to the implementation of a strategic research roadmap on European nanotechnology. The cooperation between the two organisations has been strengthened recently in an ERANET-LAC joint call, involving Europe, Latin-America and the Caribbean countries, targeting the development of smart windows for near-zero energy buildings (WINNER project).

How would you describe the collaboration between CeNTI and PRODINTEC?

PRODINTEC's expertise in cutting-edge manufacturing technologies (e.g. advanced additive manufacturing), prototyping and R&D and innovation project management (e.g. IDINET software tool) became a true asset in collaborative technical projects and internal organization. In line with the European strategy and policies to reverse the inefficient use of energy and natural resources, CeNTI

was able to set a strong basis to endeavour future R&D activities in the field of innovative multicomponent fibres, multifunctional polymers and coatings and multi-layered high performance materials for a wide range of applications and sectors (e.g. textile, automotive, construction) where PRODINTEC's expertise in the field of 3D printing and conceptual design is a relevant strength.

What, in your opinion, are the strengths of PRODINTEC?

PRODINTEC is capable of providing complete prototyping and product development services, encompassing R&D development and proof-of-concept, pilot-scale process development and prototype/product engineering, complemented by a strong sense of commitment and responsibility. These technical and human competences proved to be valuable assets to foster the competitiveness of their industrial partners, and promote a cluster-based approach to scientific research and innovation in Europe.



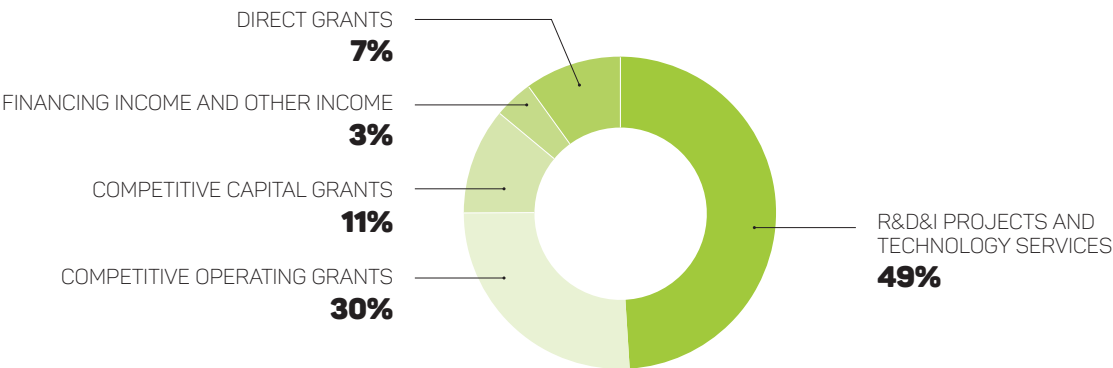


5 *FINANCIAL REPORT*

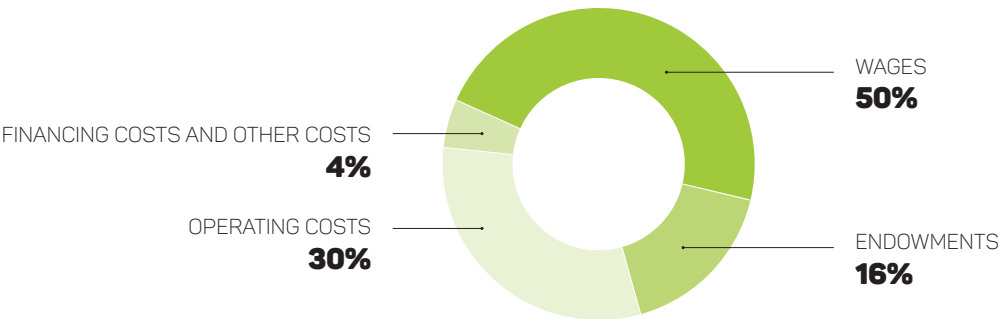


INCOME AND EXPENSES

[TYPE OF INCOME 2015]



[TYPE OF EXPENSE 2015]



BALANCE SHEETS

[PROFIT AND LOSS ACCOUNT]

CONTINUING OPERATIONS	
Turnover due to the entity's own activity	4,066,882.44
Works undertaken by the entity on its assets	36,354.09
Wages	-2,047,593.11
Other business expenses	-1,352,785.37
Fixed asset depreciation	-649,662.32
Grants, donations and bequests of capital transferred to the profit/loss of the period	0.00
Deterioration and result due to disposals of fixed asset	-60.29
One-off revenues	2,528.09
OPERATING PROFIT	55,663.53
Interest income	1,534.60
Financing costs	-22,142.42
Differences in exchange rates	-38.34
Deterioration and result due to disposals of financial instruments	-40.87
FINANCIAL STATEMENT	-20,687.03
PRE-TAX PROFIT	34,976.50
SURPLUS FOR THE PERIOD	34,976.50

[STATEMENT OF ASSETS AND LIABILITIES]

ASSETS	
NON CURRENT ASSETS	7,326,175.41
Intangible fixed assets	567,980.09
Material fixed assets	6,642,949.05
Long-term financial investment	114,246.27
CURRENT ASSETS	4,246,604.68
Stock	0.00
Trade and other receivables	3,663,009.04
Short-term investments in group and associated companies	4,550.00
Short-term accruals	5,761.16
Cash and other equivalent liquid assets	573,284.48
TOTAL	11,572,780.09
NET ASSETS AND LIABILITIES	
NET ASSETS	9,651,872.55
Equity	1,484,501.51
Grants, donations and bequests received	8,167,371.04
NON CURRENT LIABILITIES	475,815.09
Long-term provisions	87,102.33
Long-term debt	388,712.76
CURRENT LIABILITIES	1,445,092.45
Short-term provisions	5,040.90
Short-term debt	229,096.97
Accounts payable and other payables	1,207,004.58
Short-term accruals	3,950.00
TOTAL	11,572,780.09

AUDIT REPORT

On 27th May, the entity CENTIUM AUDITORES, S.L., registered under No. S1315 at the Official Register of Auditors of Spain, certified the audit of the annual accounts corresponding to the financial year 2015 of the PRODINTEC Foundation.

CENTIUM
auditors

INFORME DE AUDITORIA INDEPENDIENTE DE LAS CUENTAS ANUALES

Al Patronato de FUNDACIÓN PRODINTEC

Hemos auditado las cuentas anuales adjuntas de la entidad FUNDACION PRODINTEC, que comprenden el balance al 31 de diciembre de 2015, la cuenta de pérdidas y ganancias y la memoria correspondientes al ejercicio terminado en dicha fecha.

Responsabilidad del Presidente del Patronato en relación con las cuentas anuales

El Presidente del Patronato es responsable de formular las cuentas anuales adjuntas, de forma que expresen la imagen fiel del patrimonio, de la situación financiera y de los resultados de FUNDACION PRODINTEC, de conformidad con el marco normativo de información financiera aplicable a la entidad en España, que se identifica en la Nota 2.1) de la memoria adjunta, y del control interno que consideren necesario para permitir la preparación de cuentas anuales libres de incorrección material, debida a fraude o error.

Responsabilidad del auditor

Nuestra responsabilidad es expresar una opinión sobre las cuentas anuales adjuntas basada en nuestra auditoría. Hemos llevado a cabo nuestra auditoría de conformidad con la normativa reguladora de la auditoría de cuentas vigente en España. Dicha normativa exige que cumplamos los requerimientos de ética, así como que planifiquemos y ejecutemos la auditoría con el fin de obtener una seguridad razonable de que las cuentas anuales están libres de incorrecciones materiales.

Inscrita en el Registro Mercantil de Asturias, Tomo 2.614, Folio 209, Hoja AS 01377, Inscripción 1ª, C.I.F. B-39.98.90.35
Centium Auditores, S.L. inscrita en el Registro Oficial de Auditores de Cuentas con nº S1315

Una auditoría requiere la aplicación de procedimientos para obtener evidencia de auditoría sobre los importes y la información revelada en las cuentas anuales. Los procedimientos seleccionados dependen del juicio del auditor, incluida la valoración de los riesgos de incorrección material en las cuentas anuales, debida a fraude o error. Al efectuar dichas valoraciones del riesgo, el auditor tiene en cuenta el control interno relevante para la formulación por parte de la entidad de las cuentas anuales, con el fin de diseñar los procedimientos de auditoría que sean adecuados en función de las circunstancias, y no con la finalidad de expresar una opinión sobre la eficacia del control interno de la entidad. Una auditoría también incluye la evaluación de la adecuación de las políticas contables aplicadas y de la razonabilidad de las estimaciones contables realizadas por la dirección, así como la evaluación de la presentación de las cuentas anuales tomadas en su conjunto.

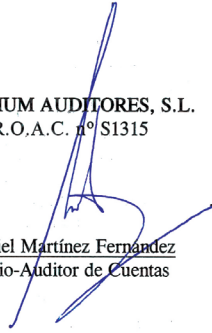
Consideramos que la evidencia de auditoría que hemos obtenido proporciona una base suficiente y adecuada para nuestra opinión de auditoría.

Opinión

En nuestra opinión, las cuentas anuales adjuntas expresan, en todos los aspectos significativos, la imagen fiel del patrimonio y de la situación financiera de la entidad FUNDACION PRODINTEC al 31 de diciembre de 2015, así como de sus resultados y flujos de efectivo correspondientes al ejercicio anual terminado en dicha fecha, de conformidad con el marco normativo de información financiera que resulta de aplicación y, en particular, con los principios y criterios contables contenidos en el mismo.

Oviedo, 27 de Mayo de 2016

CENTIUM AUDITORES, S.L.
R.O.A.C. nº S1315


Daniel Martínez Fernández
Socio-Auditor de Cuentas



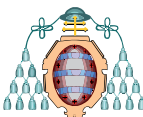
6 *RELATIONAL CAPITAL*





List of firms or bodies with we have established significant agreements or collaborations:

 <p>Additive & 3D Manufacturing Technologies Association of Spain</p>	 <p>Alliance of Foundations for the Development of Territories</p>	 <p>Asociación para el PROGRESO de la DIRECCIÓN</p> <p>Association for the Advancement of Leadership</p>	 <p>FEDERACIÓN ASTURIANA DE EMPRESARIOS</p> <p>Asturian Federation of Businessmen</p>
 <p>Club Asturiano de la Innovación</p> <p>Asturian Innovation Club</p>	 <p>ASOCIACION DE INVESTIGACION DE INDUSTRIAS CÁRNICAS PRINCIPADO DE ASTURIAS</p> <p>Asturian Meat Industry Research Association</p>	 <p>CLUB asturiano de calidad</p> <p>Asturian Quality Club</p>	 <p>RED Asturiana</p> <p>Asturian Technology-Based Companies Network</p>
 <p>CEEI</p> <p>Business Innovation Centre CEEI Asturias</p>	 <p>EFFRA a MANUFUTURE initiative</p> <p>European Factories of the Future Research Association</p>	 <p>NANO futures</p> <p>European Technology Integrating and Innovation Platform on Nanotechnology</p>	 <p>MINAM Micro- and NanoManufacturing</p> <p>European Technology Platform for Micro- and Nano-Manufacturing</p>
 <p>AM PLATFORM</p> <p>European Technology Sub-platform in Additive Manufacturing</p>	 <p>MANUFUTURE-EU</p> <p>European Technology Platform</p>	 <p>FEDERACIÓN DE EMPRESARIOS DEL METAL Y AFINES DEL PRINCIPADO DE ASTURIAS</p> <p>Federation of Metal and Related Product Companies in the Principality of Asturias</p>	 <p>Cotec</p> <p>Foundation for Technological Innovation</p>

 <p>FUNDACIÓN METAL ASTURIAS</p> <p>Foundation for Training, Qualification and Employment in the Metal Sector</p>	 <p>PARQUE CIENTÍFICO DE MADRID</p> <p>Madrid Science Park</p>	<p>AENOR</p> <p>Spanish Association for Standardisation and Certification</p>	 <p>Asociación Española de Fundaciones</p> <p>Spanish Association of Foundations</p>
 <p>M2F Move to Future</p> <p>Spanish Automotive Technology Platform</p>	 <p>federación española de empresas de fenin TECNOLOGÍA SANITARIA</p> <p>Spanish Federation of Sanitary Technological Companies</p>	 <p>itemas RED DE INNOVACIÓN EN TECNOLOGÍAS MÉDICAS Y SANITARIAS</p> <p>Spanish Innovation Platform on Medical and Health Technologies</p>	 <p>Hispa Rob.</p> <p>Spanish Robotics Technology Platform</p>
 <p>MANU-KET</p> <p>Spanish Technology Platform for Advanced Manufacturing</p>	 <p>Solar Concentra</p> <p>Spanish Technology Platform on Concentrating Solar Power</p>	 <p>UNIVERSIDAD DE OVIEDO</p> <p>University of Oviedo</p>	 <p>GVT OBSERVATORIO VIRTUAL DE TRANSFERENCIA DE TECNOLOGÍA</p> <p>Virtual Observatory for Technology Transfer</p>

7 *RECORD OF EVENTS*

SALIDA





JANUARY TO APRIL

19/02: Talk "3D printing PILOT: European Network on High Performance Production with 3D Printing" during the workshop "Asturias Vanguard Initiative for Growth through the Smart Specialisation" organised by the Government of the Principality of Asturias in Oviedo.

20/02: Stand at the networking event "Oviedo Undertakes" organised by AJE Asturias.

20/02: Presentation of the project "Green Global Car Sharing: development of an intelligent car rental system" during the technological breakfast organised by Impulsa Empresas at Gijón Science and Technology Park.

24-27/02: Presentation of the project "Life Hygenet: hydroelectric modular system generation for water supply networks" at the Energy and Environment International Fair "Genera" held in Madrid.

05/03: Participation in the roundtable "Best practices in managing drinkable water supply networks" at the workshop "LIFE+ program as a tool for local development through environmental improvement projects" organised by the Asturian Energy Foundation in Mieres (Asturias).

11/03: Talk "R3ALD: from CAD to 3D printing" at the workshop organised by Gijón Impulsa Empresas.

17/03: Presentation of the project "FoFAM: industrial and regional valorization of FoF Additive Manufacturing projects" at the 3rd Plenary Meeting of the Vanguard Initiative Pilot "High Performance Production through 3D Printing" held in Brussels.

17-18/03: Stand at the 14th Employment Forum organised by the University of Oviedo.

20/03: European project NanoDiode competition award event organised by PRODINTEC at its facilities.

24/03: Talk "3D Printing in health technology" during the parallel session "KETs applied in technical and medical





equipment" at the 8th Annual Conference of the Biomedical Research Technology Platforms held in Madrid.

24-26/03: Stand at the 4th Forum of the Metal Sector of Asturias.

26/03: Talk "Lighting systems: manufacturing on flexible substrates" at Graphispag 2015 fair held in Barcelona.

27/03: Participation in the roundtable "Business cooperation: challenges and

success stories" at the workshop "Business Cooperation in the Knowledge Mile: Challenges and Opportunities" organised by Gijón Impulsa Empresas.

15/04: Talk "Possibilities of 3D printing in health" at the II Conference on e-health in Asturias organised by Impulso, CITIPA and COIIPA.

17/04: Presentation of the project "EN4DIS: virtual environments for people with disabilities" during the technological

breakfast organised by Impulsa Empresas at Gijón Science and Technology Park.

23/04: Organisation of the workshop "Manufacturing by milling: a look into the future" within the framework of the European project CAPP4SMEs at PRODINTEC facilities in Gijón.

29/04: Talk "Additive manufacturing in the industrial environment" during the session on 3D printing organised by the SAT Centres Network and AJE Asturias.





MAY TO AUGUST

05/05: Organisation of the official presentation of the project "CON3D: application of 3D printing in the construction sector", together with Coprosa and Cementos Tudela Veguín (Masaveu Group) at PRODINTEC facilities in Gijón.

06-08/05: Stand at the Modus Gijón Congress 2015.

07/05: Presentation of the project "Green Global Car Sharing: mobile technology for sustainable mobility" at ExpoEnergía 2015 in Langreo (Asturias).

10/06: Talk "Implementation of additive manufacturing technologies by selective laser sintering in the aircraft industry: challenges and applications" and poster "Replication of intra ocular lenses (IOLs) by microinjection techniques" at the Twentieth Congress of Machine Tool and Manufacturing Technologies organised by AFM in San Sebastián.

12/06: Talk "NANO*fu*tures: The path to the commercial products: Introduction to the Implementation map for EU nanotechnology" during the workshop "Nanotechnology and materials in action: Pilot lines and industrial alliances to reach the market" at EuroNanoForum 2015 in Riga (Latvia).

16/06: Presentation of the project "EN4DIS: virtual environments for people with disabilities" organised by COCEMFE in Madrid.

17-19/06: Talks "Research on new constructive elements for an eco-efficient building thermal storage" and "Hydroelectricity in water supply networks" and stand at Spain Minergy congress held in Gijón.

24/06: Presentation of PRODINTEC's capabilities and expertise during the pitch session "Smart Factory & Innovative



Processes" at the European Brokerage Event of Advanced Manufacturing and Processes held in Nantes.

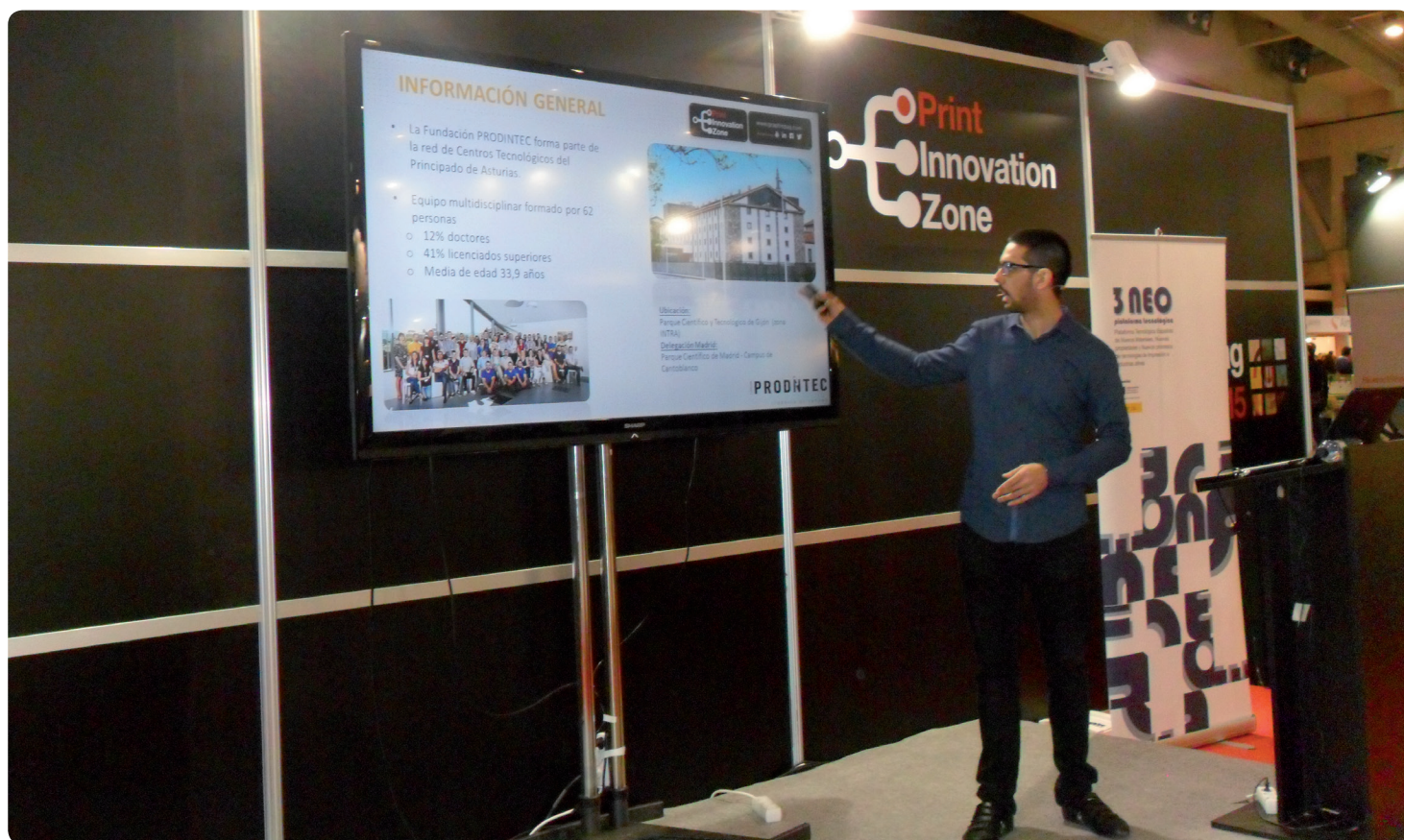
26/06: Presentation of PRODINTEC's capabilities and expertise during the Innovation Session for Industry at the International Days in Critical Raw Materials organised by ICCRAM in Burgos.

02/07: Webinar "ISO 9001: 2015 News and integrated management with IDINET" jointly taught with FUTUVER.

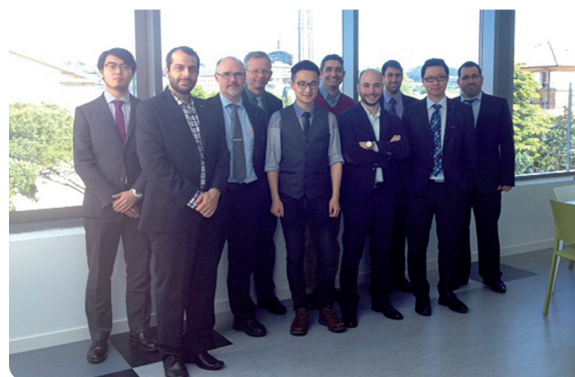
22-24/07: Poster "Flexible printed electronics: roll-to-roll manufacturing pilot line for the production of high-technology products on low cost flexible materials" at MESIC 2015 in Barcelona.

06/08: Talk "Vanguard Initiative: Europe's commitment to the factory of the future" at the meetings with Industrial Engineers organised during of the International Fair of Samples of Asturias 2015.









SEPTEMBER TO DECEMBER

22/09: Organisation of the European project FoFAM 1st Experts' Workshop held in Brussels.

23/09: Talk "R3ALD: from CAD to 3D printing" at the workshop organised by Gijón Impulsa Empresas.

23/09: Introduction of FoFAM project at the 16th AM Platform stakeholders meeting held in Brussels.

30/09: Talk "Industrial and regional valorisation of Additive Manufacturing projects in the field of the factory of the future" at the workshop "The factory of the future: keys for the transformation of the Galician industry" organised by Capacita Directivos in Santiago de Compostela.

01/10: Participation in the roundtable "Design and Innovation" in the Design & You congress organised by the Asturian Industrial Designers Association.

20/10: Presentation of the project "CON3D: application of 3D printing in the construction sector" at the workshop "3D Printing, BIM and industrialisation: the construction of the future?" organised by CIC Architecture and Responsibility in Madrid.

21-22/10: Talk "3D printing and additive manufacturing" at the workshops "New

Experience. Understanding the new industrial revolution. 3D printing and additive manufacturing" organised by APD in Pontevedra and Orense.

4-5/11: Stand at Madrid Metal Sector fair 2015.

10/11: Participation in the roundtable "Strategies for attracting financial resources" at the info day on NMP - HORIZON 2020 "Nanotechnologies, advanced materials and advanced manufacturing and processing" organised by the Andalusian Agency of Knowledge in Seville.

13/11: Workshop "New production models: industry 4.0 in Asturias " jointly organised with Cluster TIC and FADE at PRODINTEC's facilities in Gijón.

13/11: Talk "Technological innovation in materials and manufacturing processes" at the academic event on occasion of the festivity of Saint Albert the Great organised by the University of Oviedo.

25/11: Workshop on innovation management, jointly organised with AENOR at PRODINTEC's facilities in Gijón.

26/11: Collecting the Atos award to digital processing in the "Industry 4.0" category.

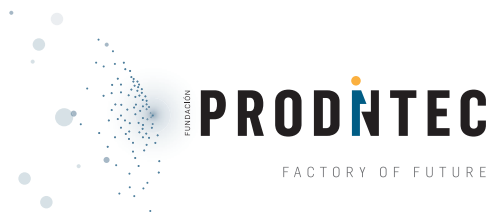
04/12: Granting of the "Companies Committed to Youth" stamp awarded by the City Council of Gijón.

12/12: Official presentation of Aciturri Additive Manufacturing at PRODINTEC's facilities in Gijón.











FACTORY OF FUTURE

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