



## RODAMIENTOS VIGO, S.A.

ha obtenido el indicador ARDÁN

### EMPRESA INNOVADORA 2021

Las Empresas Innovadoras presentan altos niveles en su desempeño innovador medido a través de indicadores como el Esfuerzo en I+D interna, Capacitación en I+D+i, Tecnología en procesos, Productividad laboral o Retorno de la I+D+i.

Empresas participantes en la Encuesta sobre capacidades de I+D+i de la Comunidad Autónoma Gallega (2021).  
Consortio de la Zona Franca de Vigo/ Axencia Galega de Innovación (GAIN)

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# 11. DIAGNOSIS OF BUSINESS R+D+I IN GALICIA

## 11.1. Introduction

As in previous editions, this chapter deals with the diagnosis of R + D + i in Galician companies. Given that the data that has been requested from the companies correspond to the years 2019-2020, the effect of the pandemic is present throughout all the graphs and figures. Most companies and their protagonists, people with family concerns and dilemmas in their jobs, have traveled a complex path that is still - hopefully - taking its final blows today. Today many companies continue to suffer from liquidity problems, billing problems, ERTes, etc. It has not been the best time to think about the medium and long term, but rather about how to stay active week after week.

Far from thinking that this first paragraph reflects a mere liturgical discourse, it should be noted that R & D & I efforts are the first to suffer in periods of economic crisis. Companies prioritize short-term objectives related to day-to-day life, and an activity of such a cumulative nature, path dependent and with uncertain results, is not usually part of the priority objectives in most Galician SMEs. This is what usually happens in periods of economic crisis. What we have experienced during the periods of confinement, however, was something new. Many companies had to close their facilities due to legal obligation for a time, and when it was possible to open many, especially in the services sector, they were subject to certain limitations regarding the organization of work and access to clients to keep the necessary precautions. Circumstances have therefore made this 2021 edition a particularly - probably even historically - interesting edition.

The mechanics of the field study have not changed. Thus, the starting point is a population of 5,353 Galician companies with 10 or more employees included in the ARDÁN Database (non-financial or real estate companies whose 2019 Annual Accounts were available in ARDÁN on February 1, 2021). The survey was sent to all these companies from ARDÁN via email to be completed directly on the Vigo Free Zone Consortium website. To guarantee a representative sample, an external company was hired that carried out a telephone follow-up between February 18 and May 31, 2021, according to a stratified random sample with proportional allocation by size, sector and province. As has been the case since 2019, all the ARDÁN surveys were unified in a single interface with different modules for each topic, allowing companies to answer the surveys they wanted (innovation, internationalization, gender equality, circular economy, smart company). The result of this field work resulted in the response of 401 companies specifically to the innovation survey, whose data was reviewed in search of atypical data. Some errors solved after consulting the companies involved, the public companies were eliminated from the aggregate analysis (not from their possible inclusion in the ranking if they obtained the ARDÁN indicator). Thus, finally, the sample was made up of 398 companies with valid answers (386 in 2019 and 188 in 2020). This sample is representative of the population, therefore, with a sampling error of  $\pm 4.7\%$  for a confidence level of 95%. As in previous editions, the chapter begins with the general trends in innovative performance from the evolution of the Synthetic Innovation Index, and the reasons for innovating / limiting factors. From here, the structure of the chapter reproduces the nature of R + D + i as a process:

## DIAGNOSIS OF BUSINESS R+D+I IN GALICIA

The inputs are first characterized: section 3 is dedicated to investment and financing decisions, and section 4 to technological and human resources. Subsequently, the capacities that these inputs manage are addressed (section 5 deals with competitive strategy, the level of systematization of R & D & I, and cooperation between companies). Next, the performance in the generation of intermediate outputs generated by the capacities and resources that companies have is presented (section 6, whether they are product / marketing, process, organizational or financial innovations). Finally, the two fundamental outputs are presented in section 7: sales of new products and efficiency / return of the R + D + i process). The work concludes in section 8 with some final reflections as a synthesis, and then includes in an annex the final ranking of innovative companies.

## DIAGNOSIS OF BUSINESS R+D+I IN GALICIA

- Companies with the ARDÁN Indicator of Innovative Company in 2021  
(**synthetic innovation index  $\geq$  350**)



Company	Productive system	Location	
29 RODAMIENTOS VIGO, S.A.	Machinery and equipment	MOS	4 STARS