



How digital business ecosystems drive efficiency and innovation in a new era

Focus on Spain

Oxford Economics worked with Google Cloud to survey 1,000 CIOs in eight countries, including 50 CIOs in Spain, about how digital business ecosystems can support goals like efficiency, agility, innovation, and growth.

The survey data was collected in January and February 2020, largely before the period of economic uncertainty that has followed. The results remain relevant in this new landscape, helping us understand how CIOs have been building digital business ecosystems to achieve their strategic goals—and what tactics they should use to prepare their organizations for prosperity in the new business era. This report details the results of our research for Spanish respondents.

Developing business partnerships to power innovation

CIOs in Spain, like their peers in other countries, are focused on building digital business ecosystems—collaborative relationships with partners, third-party providers, developers, and customers that are powered by APIs—to drive business goals like efficiency, resilience, and innovation.

- 01 Business networks are expanding to include a diverse mix of participants.** CIOs in Spain are building close business relationships (52% report a slight or substantial increase in the number of partnerships over the past three years, vs. 51% of others). They are working closely with groups including technology providers (96%, vs. 80% of others), partners and suppliers (86% vs. 77%), customers (70% vs. 57%), developers (60% vs. 54%), and even other organizations in their industry (58% vs. 44%).
- 02 Business relationships are becoming more collaborative and integrated.** 88% of Spanish CIOs expect business relationships to deepen over the next three years (vs. 86% of others). These organizations also demonstrate stronger integration with partners: 46% of Spanish CIOs describe their current business partnerships as fully connected and collaborative (vs. 36% of others).
- 03 Strong business relationships support business goals.** Top business benefits supported by digital business ecosystems include the ability to automate operations (60% in Spain say ecosystems are substantially or highly important to this outcome, vs. 50% of others), brand reputation (54% vs. 51%), access to new markets (52% vs. 42%), and customer satisfaction and engagement (50% vs. 53%).

How has the number of your organization's close working relationships changed over the *past three years*?

How do you expect this number to change over the *next three years*?

- Slight/substantial increase
- No change
- Slight/substantial decrease



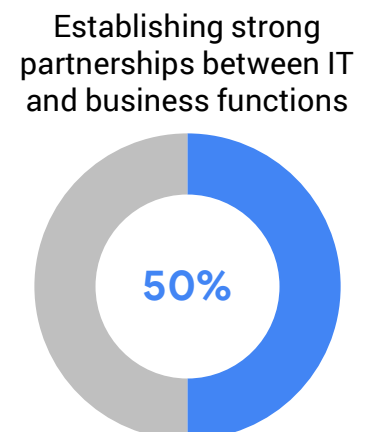
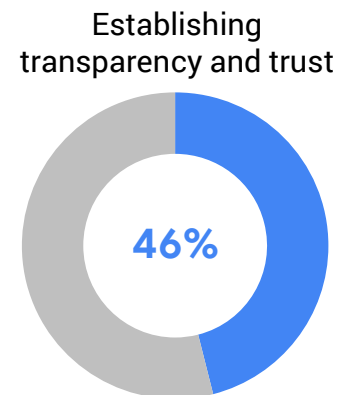
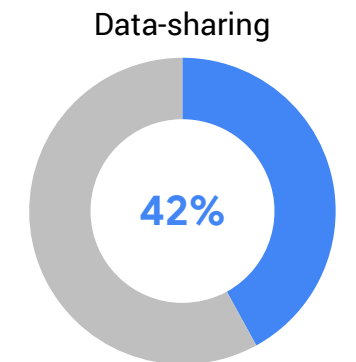
Building better digital ecosystems

Getting full value from digital business ecosystems requires companies to change their approaches to secure data-sharing, communication, and talent.

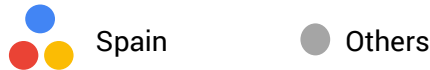
- 01 **Data-sharing could use improvement.** 54% of Spanish CIOs (vs. 41% of others) cite data-sharing as critical to making their partnerships and ecosystems productive and valuable, and 42% rate themselves as highly effective in data-sharing. However, only 40% have increased the application of data to business strategy (vs. 33% of others). A subset of leading organizations—we call them Digital Business Ecosystem Leaders—are more effective at sharing data and establishing trust with partners, and report a wide range of benefits from their partnerships.
- 02 **The ecosystem mindset is still emerging.** Many have work to do in terms of changing their cultures and communication strategies to support effective partnerships. For example, just 26% of Spanish CIOs (vs. 32% of others) have increased the level of collaboration with business partners, and only 28% (vs. 31%) have increased transparency into their business for developers, partners, employees, and customers.
- 03 **Lack of talent hinders digital business ecosystem development.** Nearly one-fifth (16%) of Spanish CIOs cite a major shortage of data analytics skills (vs. 21% of others), and 26% cite a major shortage of user experience and design thinking skills (vs. 17%). Focusing hiring or training efforts in these areas may support process and culture changes around digital business ecosystem development.

How effective is your organization in the following areas related to supporting and sustaining business relationships and ecosystems?

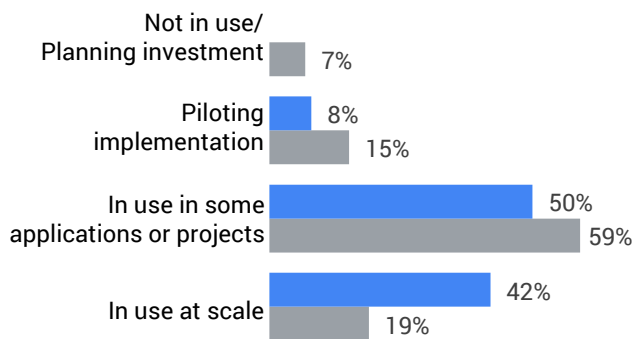
● Highly effective



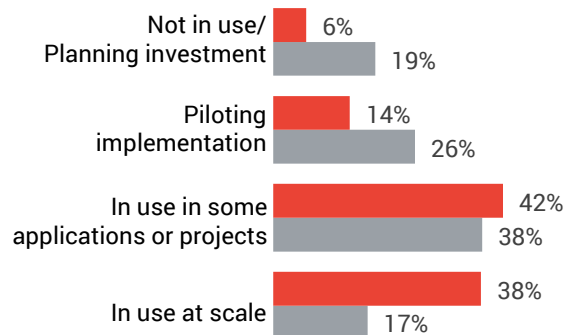
Which best describes your organization's use of the following technologies?



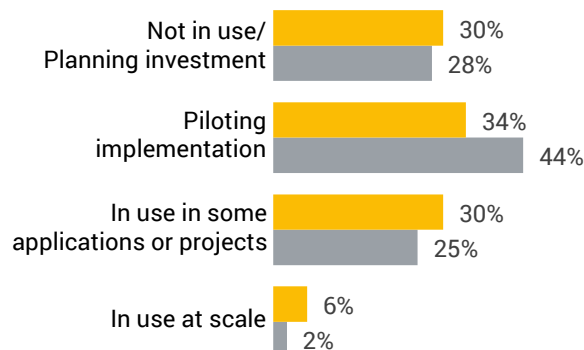
APIs



API Management Platforms



Artificial Intelligence/Machine Learning



The technology imperative

Effectively managing digital business ecosystems requires a solid technology infrastructure that allows rapid and efficient communication, secure data-sharing, and innovation.

01 Technology is critical to supporting digital business ecosystems. According to CIOs in Spain, the factors most critical to making business relationships valuable are using APIs (74% say this is important or very important, vs. 50% of others), quantifying the investment needed to participate in ecosystems (66% vs. 44%), and establishing strong security practices with all partners (60% vs. 44%).

02 CIOs in Spain see APIs as core to digital business ecosystems, but have work to do in integrating them into operations. APIs are seen as important to interactions and data-sharing with developers (64% of Spanish CIOs say so, vs. 55% of others), other organizations in their industry (50% vs. 49%), and partners and vendors (50% vs. 46%). Ahead of their peers, roughly 40% of Spanish CIOs say APIs or API management platforms are in use at scale. However, few say artificial intelligence and machine learning—tools that will be critical to scaling innovation across digital business ecosystems—are in wide use.

03 CIOs who have adopted APIs lead their peers in a range of areas. Companies from around the world that use APIs are more likely to say their business relationships and ecosystems support business goals like brand reputation (54% vs. 31% of those that do not use APIs), automating operations (53% vs. 26%), innovation (53% vs. 26%), and employee productivity (49% vs. 33%).

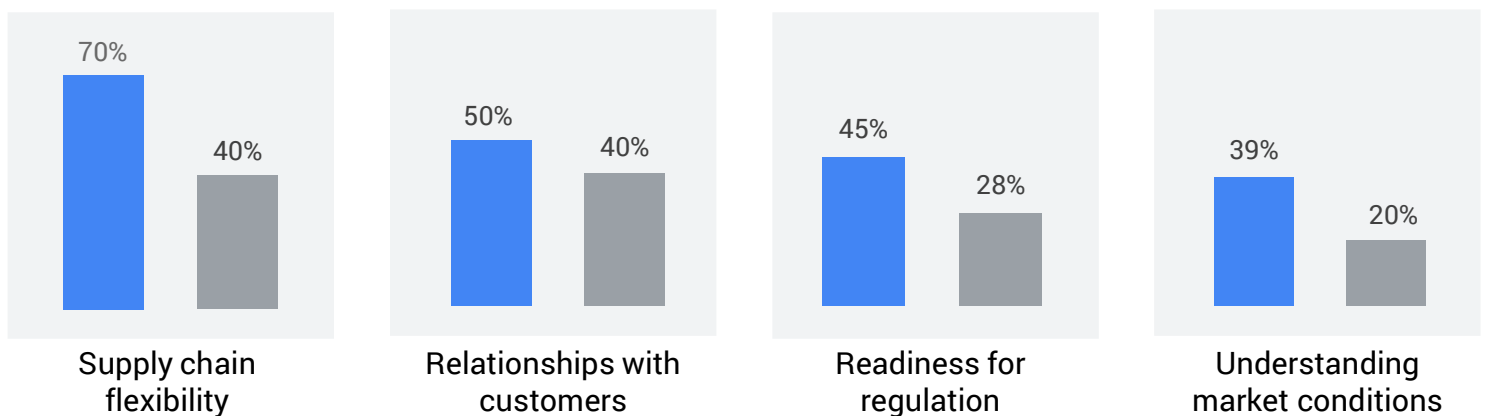
How digital business ecosystems pay off

Organizations in our survey that report strong, innovation-focused partnerships tend to be better equipped to manage efficiency, support growth, and meet a range of other business goals.

- 01 CIOs in Spain are beginning to realize value from digital ecosystems.** CIOs in our survey say their business relationships and ecosystems support employee productivity (32% of Spanish CIOs say so, vs. 48% of others), market intelligence (36% vs. 46%), and agility (38% vs. 39%)—areas that can support resilience in uncertain times. They are most likely to get value in terms of automating operations (60%).
- 02 Digital business ecosystem benefits are growing.** Within three years, over three-quarters of Spanish CIOs expect their business partnerships to pay off in terms of brand reputation (84% vs. 70% of others) and financial performance (80% vs. 73%). They also expect increased value in terms of customer satisfaction and engagement (80% vs. 73%) and rapid innovation (78% vs. 72%).
- 03 Companies with stronger digital business ecosystem strategies are better positioned to manage in an uncertain era.** Our study identified a group of respondents who are ahead of their peers in terms of using their business relationships to support digital innovation, and ensuring partnerships are fully integrated and collaborative. Digital Business Ecosystem Leaders from across the global sample are more effective in a range of areas, including supply chain flexibility, relationships with customers, readiness for regulation, and understanding market conditions.

How would you rate your organization's effectiveness in the following areas? "Highly effective" responses shown

● Digital Business Ecosystem Leaders
● Others



About the research

Methodology

Oxford Economics was commissioned by Google Cloud to conduct a survey of 1,000 CIOs. The survey was conducted between January 2020 and March 2020 via computer-assisted telephone interviewing. Respondents come from the US, Canada, France, Germany, Spain, the UK, Australia, and Singapore.

They represent seven industries (17% each from Banking and Insurance, Healthcare, Manufacturing, Media and Entertainment, Telecommunications, and Retail). All respondents come from organizations with over \$2 billion in revenue; one-quarter come from organizations with over \$20 billion in revenue.

