

White paper

To Build or To Buy?

How businesses are navigating the build or buy equation.



Introduction

Each time an organization identifies the need for a new application, technology leaders face a difficult choice: Do we build a solution in-house, or do we buy an existing solution to fit this need?

Over the past decade, this decision has been heavily driven by the accessibility and ease of each approach at any given time. As a result, the build/buy equation has fluctuated back and forth, with organizational preferences leaning toward the method with the most accessible tools at the moment.

We now sit at a point where both building applications and buying applications are realistically accessible to most organizations, which leads to the question:

What does the future of compute hold for the build/buy equation?

In September 2020, we asked technology leaders in ten countries to share their perspectives on the future of compute for their organizations. For this report, we surveyed CIOs, CTOs, COOs, IT Directors and other senior IT decision makers at organizations across a range of industries, including: technology, manufacturing, retail, media, financial services and the public sector.

Our survey posed questions related to each organization's current ratio of built applications to bought applications, how tech leaders expect to shift that ratio in the future, what drives the choice to build or buy and what tools they rely on for each approach.

Here, we'll present our key findings and subsequent predictions on the future of compute over the next three to five years.

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The equation of build/buy is changing, but not in the way we expected

We expected to see a shift in this equation — knowing that building applications in-house is becoming more feasible, while out-of-the-box SaaS solutions are also becoming more customizable to meet unique business needs. We predicted that the build/buy equation would shift dramatically over the next three years, with tech leaders favoring one approach over the other.

At first, we were surprised to see that the results of our research indicated very little, if any, shift in the ratio of building applications vs. buying applications. In fact, tech leaders seemed to indicate that they planned to maintain the same ratio of build to buy in the immediate future.

Upon closer inspection, we found that while tech leaders don't expect the ratio to change much, a shift is occurring. Our research revealed that tech decision makers don't plan to move strictly away from build and toward buy (or vice versa), but rather to shift in strategically choosing when to build and when to buy. The balance of the equation isn't changing, but the underlying strategy is.

Based on the results, businesses will prioritize building high-impact applications that enable a business to differentiate itself in the landscape, while investing in customizable SaaS for all other applications.

As we analyzed further, the more interesting questions then became: Which applications do tech leaders intend to build, which do they intend to buy, and why?

We came away with three findings:

1. The build/buy equation is shifting to a strategic balance of both, with the choice heavily based on an application's ability to differentiate a brand or impact revenue.
2. When buying applications, tech leaders are increasing their adoption of SaaS solutions.
3. When building applications, tech leaders are amplifying their investment in low-code/no-code solutions.

Let's take a deeper look at these three insights from our research.

The balance of the build/buy equation isn't shifting — the underlying strategy is.

The survey results did not support our prediction that organizations would decrease their focus on building applications, in favor of buying. In fact, the participants' answers revealed that organizations don't plan to significantly change their current distribution of building vs. buying.

Approach for new software and applications

How is your current approach for new software and applications distributed across the below options?

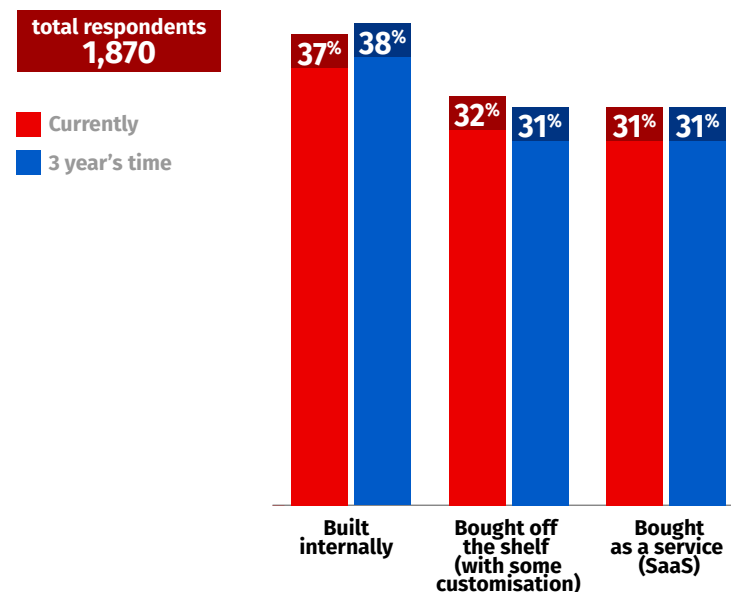


Figure 1 - Approach for new software and applications

From the highest level, it looks like the build/buy equation isn't changing, but taking a deeper look, we learned that the equation is shifting — in the underlying strategy around whether to build or to buy.

Rather than choosing to prioritize one approach over the other across the board, organizations plan to invest more strategically in each approach, as appropriate for each business case. Tech leaders see the value in both build and buy, and they interpret that value differently depending on an application's impact to the business. [Figure 2, Figure 3]

Application development - 2 years ago and currently

What is your approach to specific application development? Please state the approach you use for each application currently and what it was 2 years' ago?

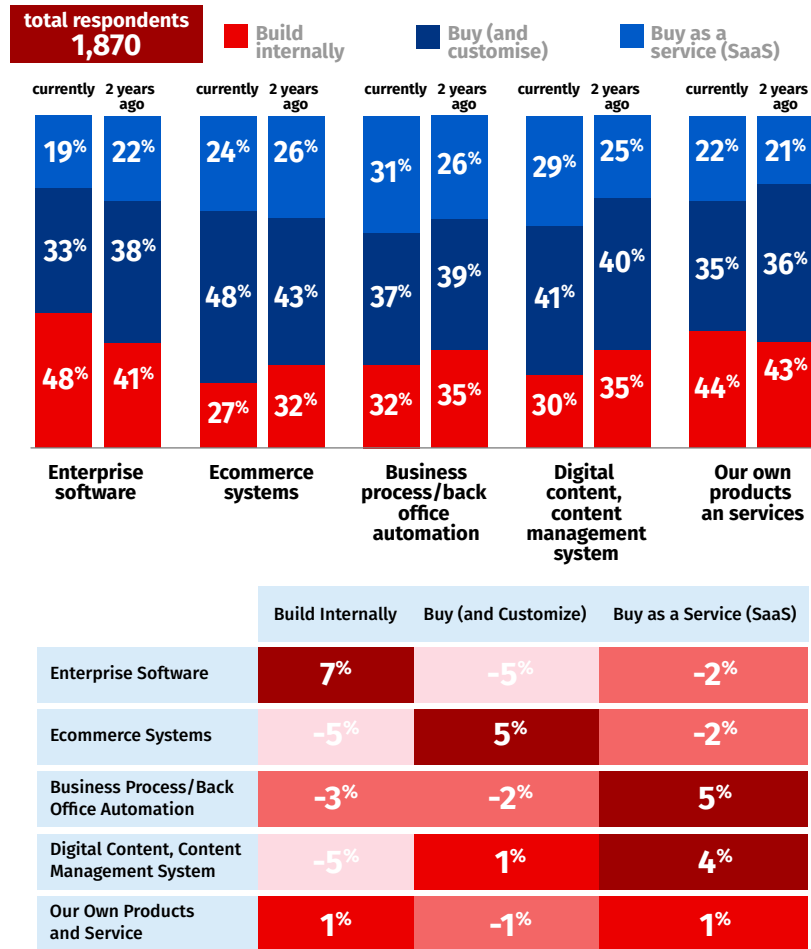


Figure 2 and 3 - Application development - 2 years ago and currently

Compared to two years ago, survey participants are shifting away from build and toward buy for ecommerce systems, business process automation, back-office solutions and content management systems. 70% of participants indicated that they utilize SaaS offerings in the back office to gain efficiency. [Figure 4]

Simultaneously, survey participants are shifting away from buy and toward build for enterprise software and for their organization's products and services. 72% of participants selected "strongly agree" or "tend to agree" that they prioritize building customized applications for customer-facing purposes, and 67% selected "strongly agree" or "tend to agree" that digital transformation and the need for differentiation is driving the need to build applications in-house. [Figure 4]

Views on statements

Keeping your business in mind, to what extent do you agree or disagree with the following statements?

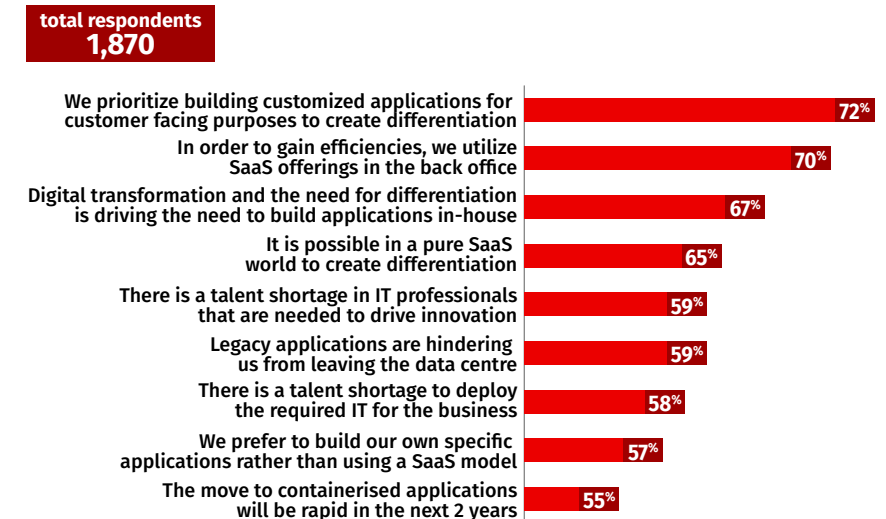


Figure 4 - Keeping your business in mind, to what extent do you agree or disagree with the following statements?

We believe this is a result of tech leaders aiming to "work smarter" with their in-house development skill sets; reserving the internal technical resources for building applications that will have a high impact on customer experience and differentiate the brand from competitors. For all other applications, they prefer to buy solutions, for increased efficiency and ease of use.

With two of the greatest business challenges cited as hiring skilled employees (38%) and training and upskilling existing employees (42%).

Tech leaders don't want to spend valuable developer resources building and maintaining applications that won't significantly set the brand apart.

The future of build vs. buy brings a focus on applying skilled in-house developers where they'll have the most impact and buying reputable solutions to fill the gaps.

Greatest challenges

Which of the below present the greatest challenges to your organisation currently?



Figure 5 - Which of the below present the greatest challenges to your organization currently?

Diving deeper, we asked about which types of tools tech leaders are focused on to drive their buying strategy and their building strategy.

In cases where organizations choose to buy, we will see increased adoption of SaaS.

The decision to buy an application is primarily driven by its ease of use and implementation (62%), followed by the opportunity to gain a competitive edge (59%) and familiarity with the existing application (58%). [Figure 6]

Notably, participants also indicated that fast project timelines and compatibility with other applications are driving factors in the choice to buy solutions.

Reasons for buying software applications

When you choose to buy software applications, why do you do that?

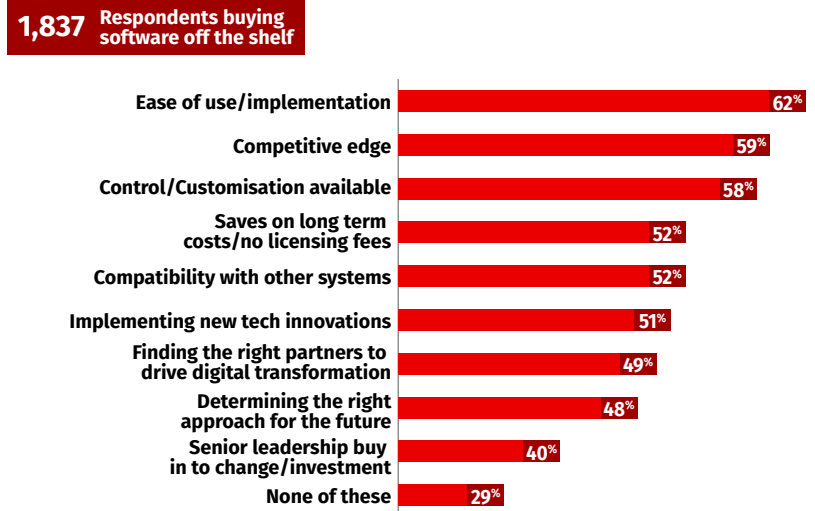


Figure 6 - When you choose to buy software applications, why do you do that?

These factors are steering tech leaders toward buy, for a higher ROI in cases where an application won't significantly elevate the business in the eyes of their customers. Building in-house is generally more costly and time-consuming, and may offer a lower return for applications that don't drive revenue directly.

The reasons for buying are also influenced by the level of tech savvy among end users (such as back-office staff, HR personnel and marketing teams).

It's easier to bring back-office staff up to speed on a familiar, user-friendly SaaS product than a bespoke system, where only a handful of internal developers can provide user training and troubleshooting. SaaS applications offer dedicated service teams and even user-led communities to support user adoption, answer questions and troubleshoot common issues.

For a business problem that's fairly standard — such as scheduling, accounting or operations management — why reinvent the wheel by building a completely custom application in-house? There is likely a SaaS provider who has already invested time and resources toward refining a solution for this particular business problem; making buying the more efficient option in terms of cost and deployment speed.

Within the options for buying a solution, SaaS products are rising in favor as they continue to become more robust in capabilities, highly customizable and easier to implement. Our research indicates a rise in SaaS as the preferred option when buying applications to enhance crucial but non-differentiating areas of business.

Importance of SaaS products

Which of the below SaaS products do you use and how important are they? Please rank them in order of importance, where ranked 1st is the most important.

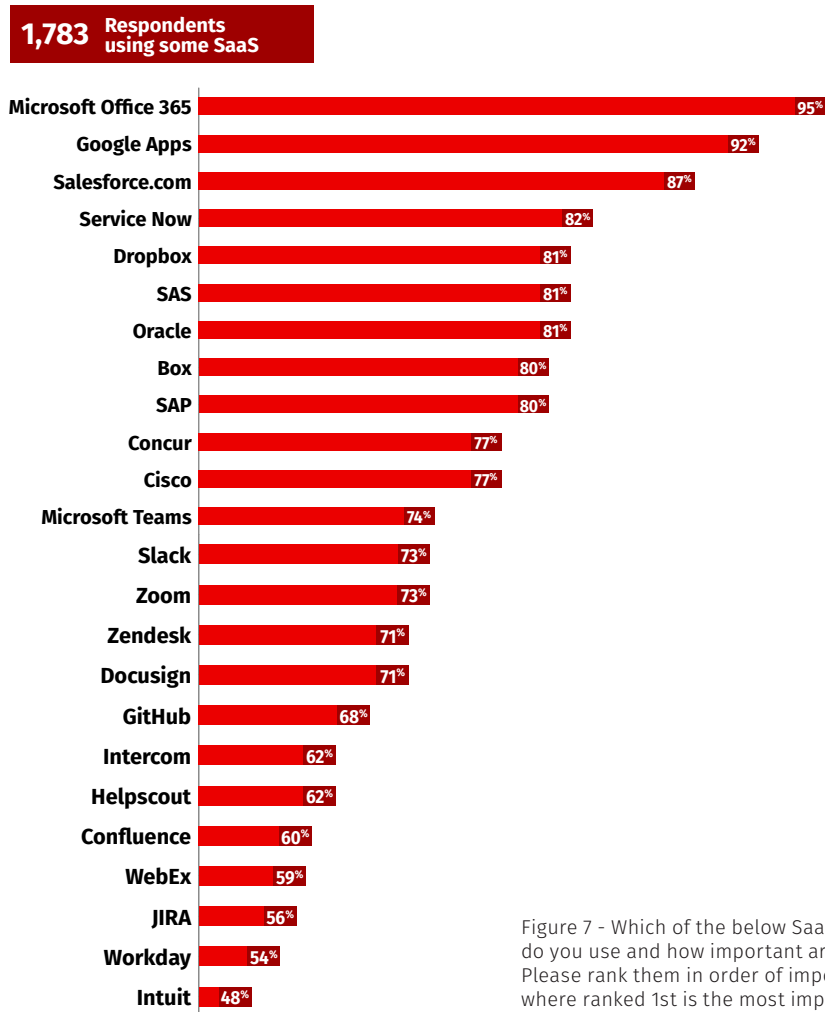


Figure 7 - Which of the below SaaS products do you use and how important are they? Please rank them in order of importance, where ranked 1st is the most important.

One of the attractive factors of SaaS products, that we expect will continue to grow, is the capacity for customization. This is likely one of the major factors that causes tech leaders to opt for SaaS rather than another buy solution. 65% of participants agree that it is possible in a pure SaaS world to create differentiation. [Figure 4]

Customization of SaaS products

How much customization do you think is available in your current SaaS products?

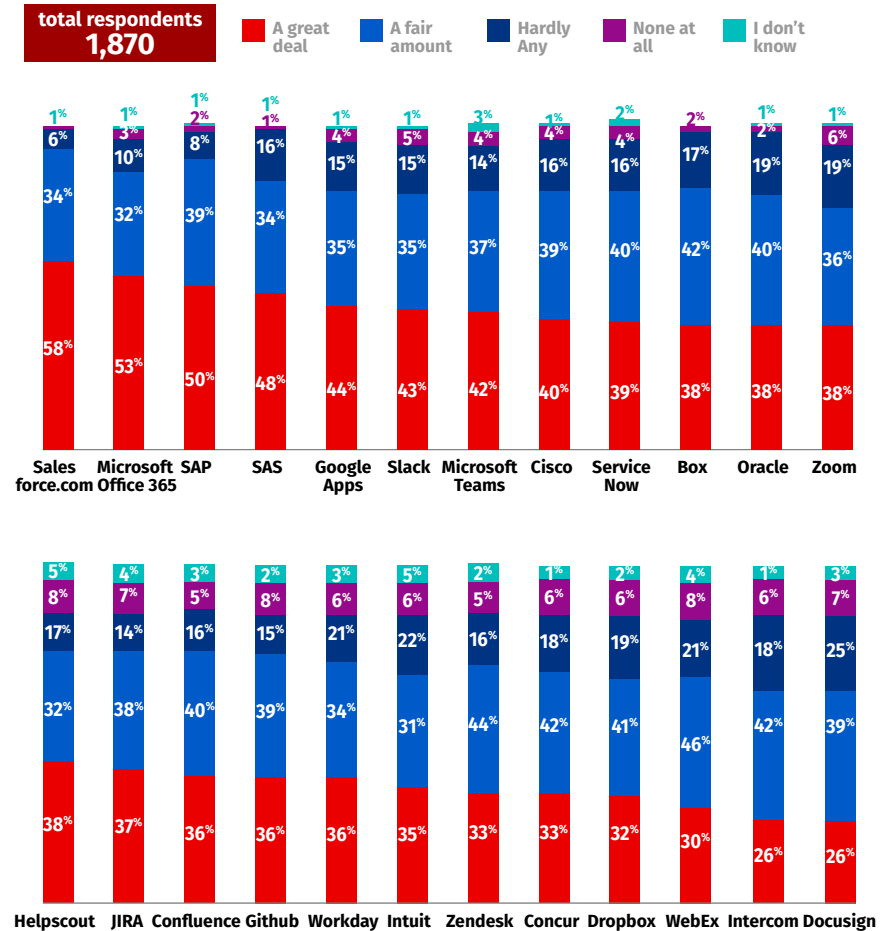


Figure 8-9 - How much customization do you think is available in your current SaaS products?

The trend is moving toward choosing to buy whenever possible, to see a higher ROI, increase efficiency and ease of use, and maximize resources by freeing up in-house talent to build applications that will bring higher impact.

In cases where organizations choose to build, we will see increased adoption of low-code/no-code solutions.

The decision to build applications in-house is primarily driven by ease of implementation (60%), the opportunity to gain a competitive edge (56%), and the ability for a high level of control and customization (56%). [Figure 10]

Reasons for building software applications internally

When you choose to build software applications internally, why do you do that?

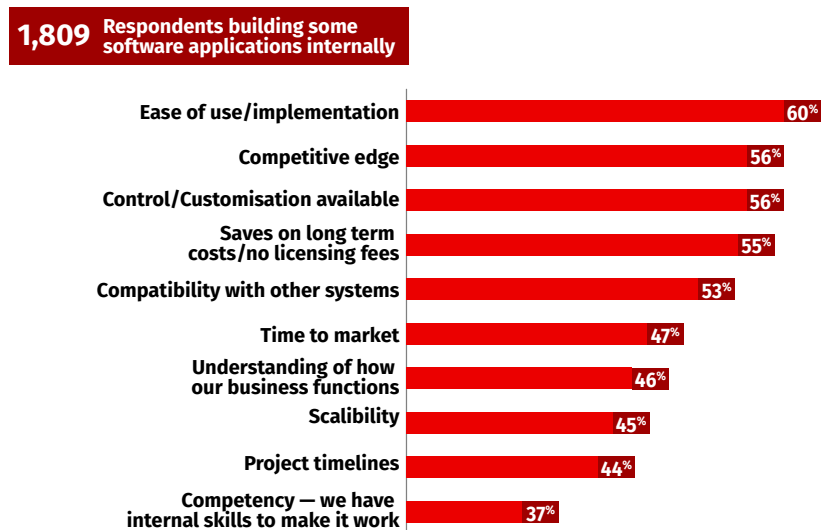


Figure 10 - When you choose to build software applications internally, why do you do that? Please select the five most important reasons, ranking the most important 1st.

Differentiation is the name of the game, as the ability to set your brand apart and deliver a superior experience is a major driver of revenue. In areas where an application will heavily impact the customer experience or give the brand an advantage over competitors, it's beneficial to build in-house and retain full control over the application. The increased time and expense of building internally is worthwhile when there's a high business impact.

For proprietary applications, building in-house also brings a level of security. By far, the biggest force driving tech leaders to invest in building applications internally is that of concerns over security (57%). After this, employee growth (44%) and speed of development (43%) are the next biggest factors that steer tech leaders to invest in building.

Driving investment

Thinking specifically of investment in infrastructure, which of the below factors are driving investment focus on building applications internally within your organisation?



Figure 11 - Thinking specifically of investment in infrastructure, which of the below factors are driving investment focus on building applications internally within your organization?

When asked which tools tech leaders plan to use for building applications, 72% of participants said their organization uses low-code/no-code platforms [Figure 12], and as many as 86% said they are satisfied or extremely satisfied with low-code/no-code developments. [Figure 13]

Utilizing low code/no code

Does your organisation utilize low code/no code software development platforms?

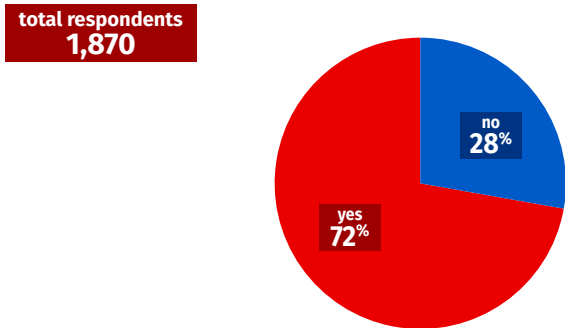


Figure 12 - Does your organization utilize low-code/no-code software development platforms?

Satisfaction with low code/no code

Overall, how satisfied are you with low code/no code developments to date?

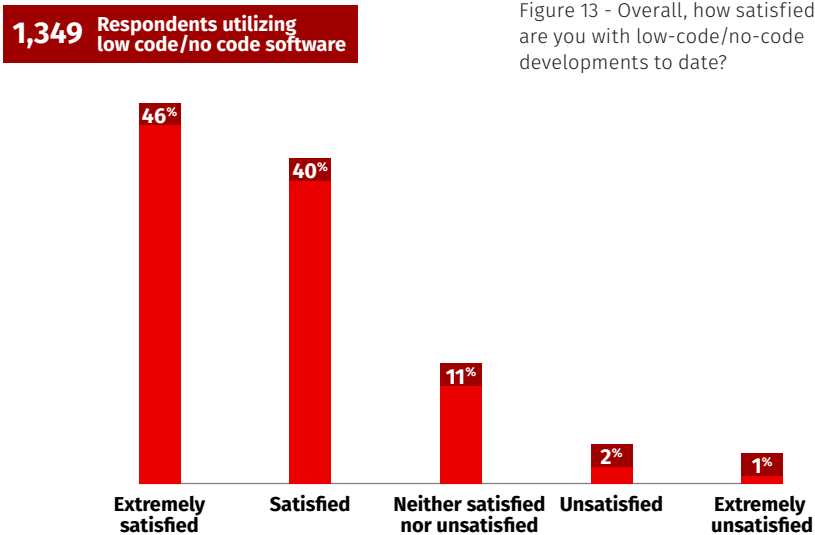


Figure 13 - Overall, how satisfied are you with low-code/no-code developments to date?

Over half of participating organizations (58%) use low-code/no-code platforms for enterprise software, such as supply chain management, CRM, HR systems and ERP. Low-code/no-code is also heavily used for building content management systems (43%), back office automation (41%), and an organization's products and services (41%).

Areas of business utilizing low code/no code

Please list the areas within your business where low code/no code is utilised.

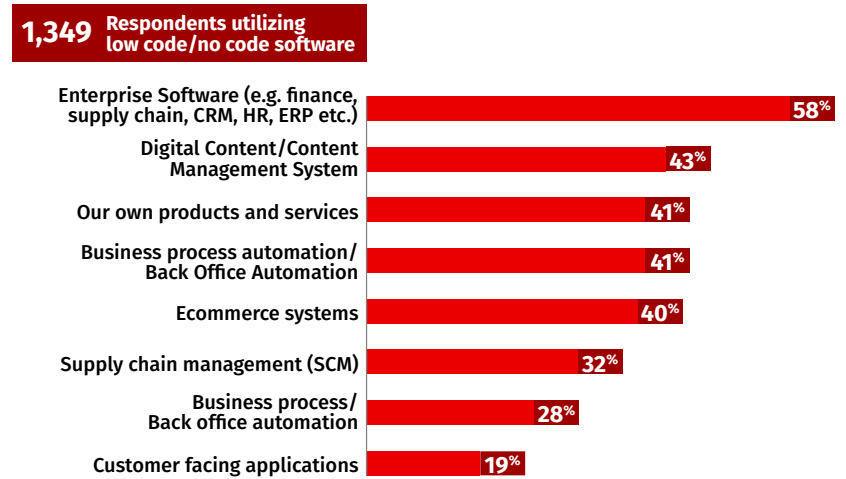


Figure 14 - Please list the areas within your business where low-code/no-code is utilized.

The high preference for low-code/no-code solutions appears to continue the trend of “working smarter” even within the build approach, by reserving skilled technical developers for highest impact work and supplementing with existing technology. Low-code/no-code tools democratize application development, allowing organizations to leverage user-friendly build tools to bridge the gap in developer skill sets — and free up their high-value developer resources to support applications with a high strategic focus for the business.

It will also increase customization across other areas of business applications by leveraging lower-skilled development to tailor in-house applications to unique needs.

Benefits of low code/no code

What are the benefits for your organisations utilization of low code/no code?

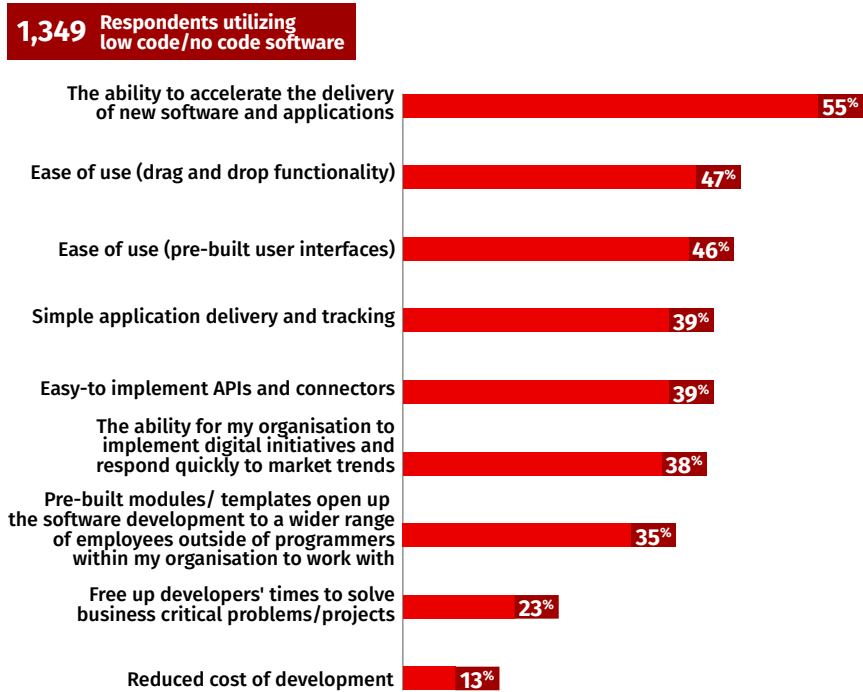


Figure 15 - What are the benefits for your organizations utilization of low-code/no-code?

Tech leaders have no plans for slowing down their use of low-code/no-code tools in the near future. 64% can envision their business using a low-code/ no-code approach extensively in the future, and 63% concur that low-code/ no-code will be the key trend for the next three years. [Figure 16]

Views on low code/no code

To what extent do you agree or disagree with the following statements regarding low/no code?

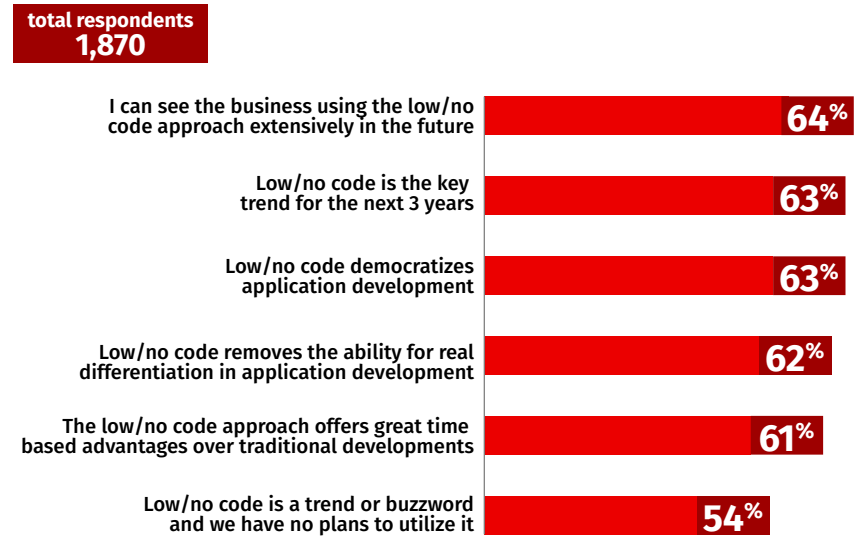


Figure 16 - To what extent do you agree or disagree with the following statements regarding low-code/no-code?

Our predictions for the build/buy equation moving forward

We set out to discover whether tech leaders would focus more on building or buying in the next three to five years. It turns out our original questions were off-base.

We learned that at this stage of compute, the far more valuable questions to examine are:

1. **What will drive tech leaders to build?**
2. **What will drive them to buy?**
3. **How do they plan to fuel those approaches?**

The future of compute lies in making strategic choices around whether to build or buy, for each individual application; optimizing in-house resources to build applications that offer high value or differentiation; and increasing efficiency and ROI by buying reputable SaaS products for all other purposes.

How will the build/buy equation continue to change?

Based on our findings, we expect to see an increasing focus on SaaS applications, particularly those with high levels of customizability. Organizations won't want to spend highly technical human resources on implementing and customizing their SaaS solutions, so we can expect a growing demand for more user-friendly UX that allows less technical staff to get on board more quickly, as well as more partner support from SaaS providers.

We also predict that we'll see increasing demand for more accessible and user-friendly low-code/no-code solutions in the cases where organizations do choose to build in-house. Even when building, tech leaders want to use their human resources as wisely as possible; they will look to low-code/no-code tools that allow junior developers to do more, while reserving the highest/most technical or senior developers for the work where they can make the most impact.



What tech leaders can take away to guide their decisions around build/buy

Technology decision makers should start to assess each new application from the standpoint of two criteria:

- What impact will this have on our customer experience?
- Will this significantly differentiate us in the market?

Tech leaders should continue to invest in filling internal teams with the technical skills to build custom applications in-house; these skills will continue to be important. At the same time, leaders should be more strategic in applying their technical human resources to the applications that will bring the highest impact; using the two questions above to assess carefully before deciding to build a new application in-house.

For all other applications — those that don't meet the two criteria above — tech leaders should look to SaaS products and other solutions that don't require highly technical internal resources to implement, train users and manage updates.

Lessons learned:

- Don't reinvent the wheel if the application won't significantly differentiate your business in the competitive landscape. Back-office or operations products won't set you apart from competitors; it's not important to make these unique or proprietary, so make the most of your budget by buying where you can.
- When buying, look for partners that can support your less-technical staff in implementation and beyond, so your in-house technical teams can focus on projects that will see the highest return for their efforts.
- When building, look for low-code no-code solutions that allow lower-level developers to do more, while reserving senior developers for areas of the project where they can make the most impact.

About the Research

The survey was conducted by Coleman Parkes in September 2020 and targeted 1,870 senior IT decision makers across multiple key sectors in the USA, LATAM, EMEA and APJ markets.

About Coleman Parkes

Coleman Parkes is a full-service B2B market research agency specializing in IT/technology studies, targeting senior decision makers in SMB to large and enterprises across multiple sectors globally. For more information, contact research@coleman-parkes.co.uk

About Rackspace Technology

Rackspace Technology is the multicloud solutions expert. We combine our expertise with the world's leading technologies — across applications, data and security — to deliver end-to-end solutions. We have a proven record of advising customers based on their business challenges, designing solutions that scale, building and managing those solutions, and optimizing returns into the future.

As a global, multicloud technology services pioneer, we deliver innovative capabilities of the cloud to help customers build new revenue streams, increase efficiency and create incredible experiences. Named a best place to work, year after year according to Fortune, Forbes, and Glassdoor, we attract and develop world-class talent to deliver the best expertise to our customers. Everything we do is wrapped in our obsession with our customers' success — our Fanatical Experience™ — so they can work faster, smarter and stay ahead of what's next.

Learn more at www.rackspace.com or call 1-800-961-2888.

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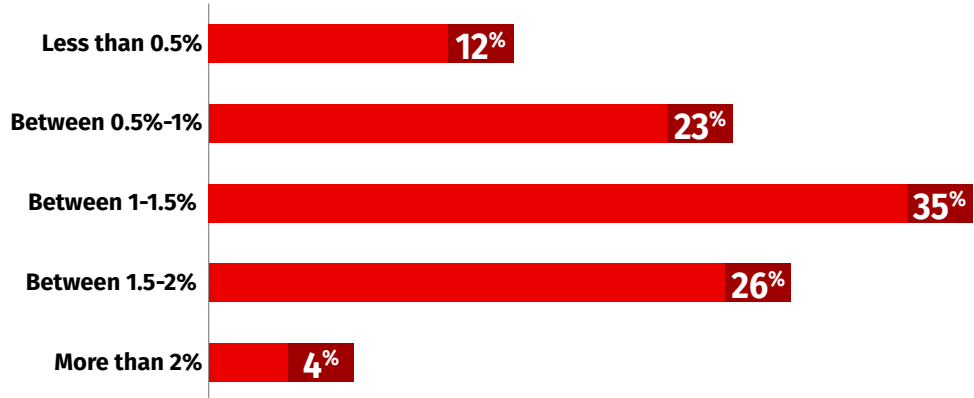
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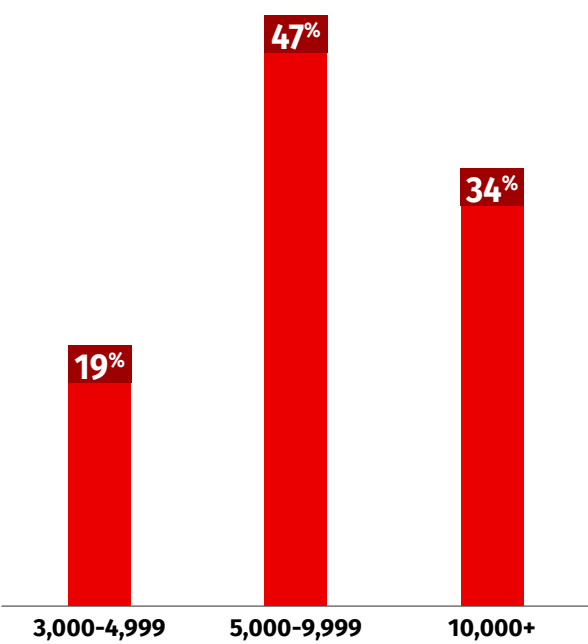
Appendix

Audience Profile

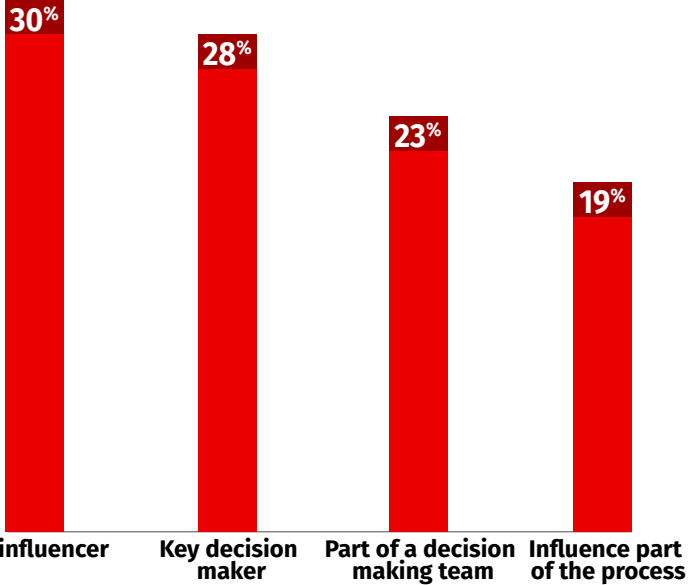
IT budget average **1.2%**



Number of employees



Decision making



Year organization founded

average year **1988**

Audience Profile

