eBook

### Data Leaders' Best Practices to Overcoming Key Data Integration Challenges

Data leaders see shared data platforms and low-code environments as cost-effective ways to address a shortage of data integration resources and talent.

Integrating data from multiple source systems is essential for providing company stakeholders with consistent and valuable insights at scale.

However, the sheer variety of data sources that enterprises are processing today makes connecting, aggregating and governing all this data to provide trusted 'sources of truth' challenging.

Our research has identified a range of challenges that are impacting the ability of data teams to preserve the integrity of their data as units across their businesses integrate datasets for use in analytics.

Dan Power, MD of Data Governance, Global Markets at State Street, says: "With a technical topic like data integration, technology issues, such as affordability or staffing, or sophistication of the tool, mean the trend is definitely toward low-code/no-code."

### Staff with Data Integration Skills are Scarce

Please rate the challenge a lack of staff with the right skills represents to your enterprise's data integration capabilities



Source: Corinium Intelligence, 2021

### The enterprise data integration skills shortage

The greatest challenge for enterprise data integration capabilities today is a lack of staff with the right skills. Of the executives we surveyed, 82% say securing the right staffing resources is at least 'quite challenging', with 44% describing it as 'very challenging'.

"Developers are very costly," notes Power. "They're scarce and they're expensive."

At the same time, 77% say processing high volumes of data is at least 'quite challenging', while 73% say their teams find dealing with multiple sources of data and complex data formats at least 'quite challenging'.

Similarly, 81% say ensuring the quality of this data as at least 'quite challenging' and 73% say a lack of technology or services to facilitate data integration is creating challenges for their teams.

Difficulty building real-time data pipelines is another hurdle faced by many, with 78% of respondents describing this as at least 'quite challenging'.



### Mendez says:

"We are facing the same challenges most organizations face. For data integration, it's 1) overcoming legacy issues with processes, technology or data model and data quality, and 2) data in different systems not being synchronized and having different levels of timeliness."

ONS Chief Data Architect Tomas Sanchez concludes: "It's no secret that the UK government has been wanting to improve data sharing and data interoperability across departments for a very long time now. Now, there is real momentum towards achieving that ambition."

### "Technology issues, such as affordability or staffing, or sophistication of the tool, mean the trend is definitely toward low-code/no-code"

Dan Power

MD of Data Governance, Global Markets, State Street

### Overcoming barriers to effective data integration

Our research has identified two main strategies for overcoming the barriers to effective data integration enterprises are grappling with today.

On the organizational side, data-focused executives are working to 'join up' the data their various business units and teams are looking after. To do this, they're developing shared data platforms and organizational structures geared toward breaking down data silos.

"We've been discussing with our partners across government, and we've put forward a specific proposal for how to create a platform to achieve that data sharing," Sanchez says. "Rather than have departments talking to each other to exchange data for their project needs, we will have a platform to facilitate that sharing of data for specific research projects."

"WPP has launched a new organization called Choreograph," adds Vipul Parmar, Global Head of Data Management at WPP. "What it does is draw upon our 'data giants', as well as some of our smaller agencies and the pockets of resources that have been effectively working in silos, to support clients by doing the same things.

"This was an important step toward breaking down those silos, bringing those people together under one umbrella organization."



On the technical side, executives are also investing in technologies that allow non-data scientists to handle some data integration tasks.

"Low-code, no-code means that a savvy business user from one of our business lines can become a configurator," Power concludes. "It's not a Nirvana, but it does tend to shorten the cycles. We are looking to embrace low-code/no-code everywhere."

Further investment in technologies like these may be necessary to address the data integration challenges facing businesses today. Just 58% of our survey respondents agree they have the right tools to access data, process it and put it where it needs to be.

### "We are looking to embrace low-code/no-code everywhere. We're looking to do it for data quality, for data integration and data transformation"

Dan Power

Overcoming barriers to effective data integration

### **Enterprises Must Invest in Data Integration Technologies**

Please rate the challenge a lack of the right technology or services represents to your enterprise's data integration capabilities



This is an excerpt from our recent report in partnership with Corinium Business Intelligence — Data Integrity Trends: Chief Data Officer Perspectives in 2021.

Download full report