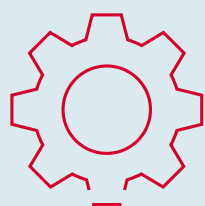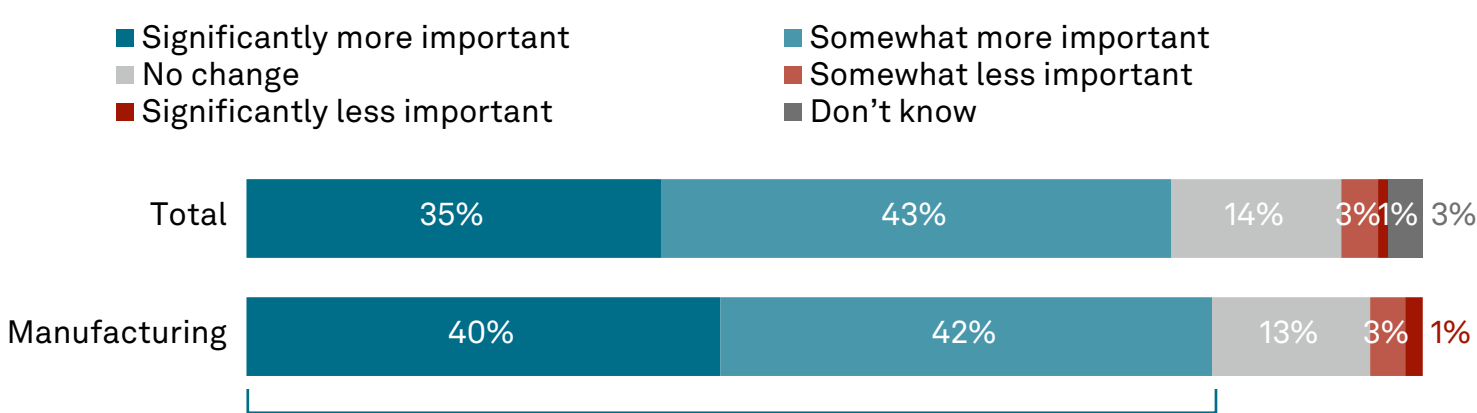# DataOps bridges the divide between data challenges and opportunity

In the **manufacturing sector, data is increasing in importance**, often even more so than in other industries. DataOps methodology seeks to orchestrate these data-driven efforts.
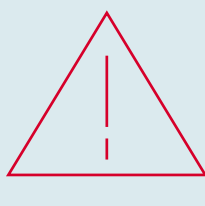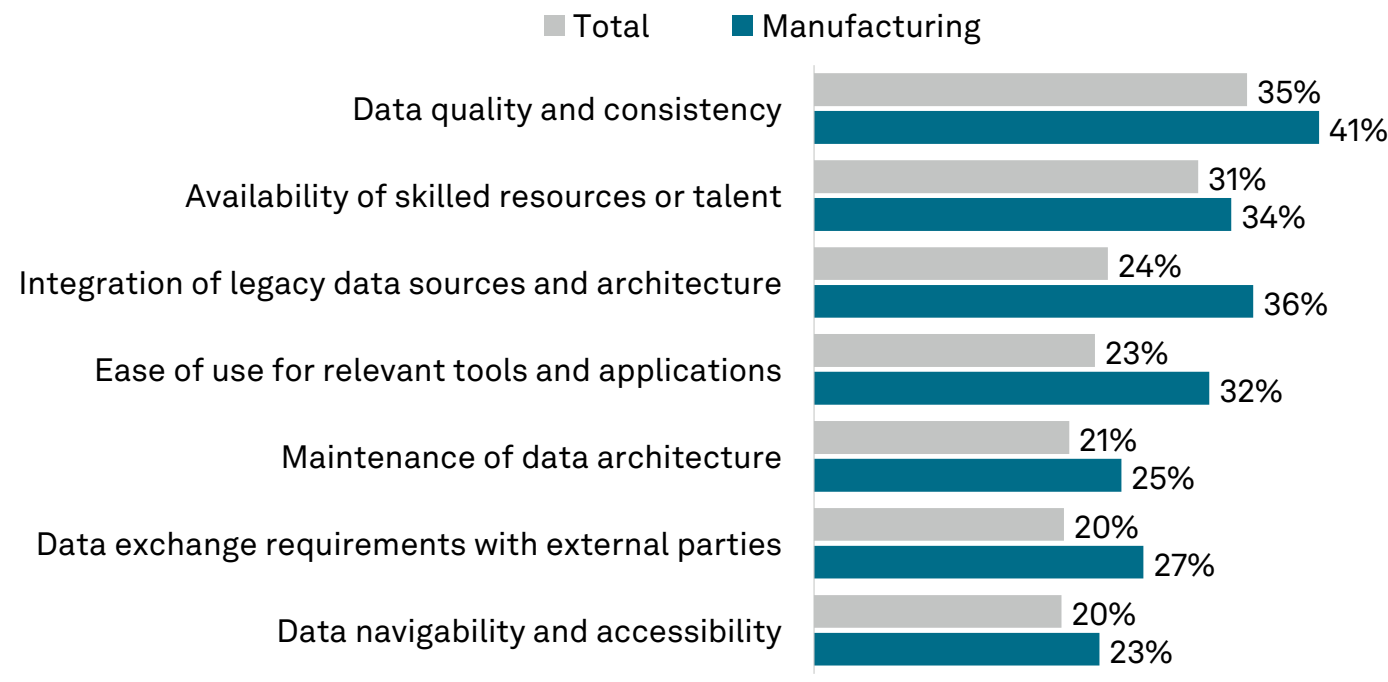
Looking ahead 12 months, do you think data will be more or less important to your organization's decision-making?

Legend:
- Significantly more important
- Somewhat more important
- No change
- Somewhat less important
- Significantly less important
- Don't know

	Significantly more important	Somewhat more important	No change	Somewhat less important	Significantly less important	Don't know
Total	35%	43%	14%	3%	1%	3%
Manufacturing	40%	42%	13%	3%	1%	

The vast majority of manufacturing respondents report that **data will become more important** over the next year, which is not surprising considering the proliferation of data from plants and factories.
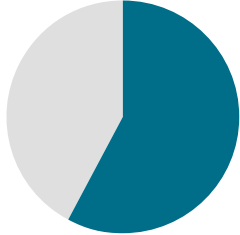
Despite the overwhelming desire to become more data-driven, industrial sectors such as manufacturing **often face steeper data challenges** than other verticals.

What are the most significant barriers your organization faces in attempting to be more data-driven?

Legend: Total / Manufacturing

	Total	Manufacturing
Data quality and consistency	35%	41%
Availability of skilled resources or talent	31%	34%
Integration of legacy data sources and architecture	24%	36%
Ease of use for relevant tools and applications	23%	32%
Maintenance of data architecture	21%	25%
Data exchange requirements with external parties	20%	27%
Data navigability and accessibility	20%	23%

The **complexity of data systems and architecture** in manufacturing leads to several challenges, and data quality is a key concern. Available tools are also often difficult to use.

Given these DataOps challenges, it is unsurprising that manufacturing organizations are **highly receptive to data fabric architectures** as they seek to simplify and unify their access to reliable data.
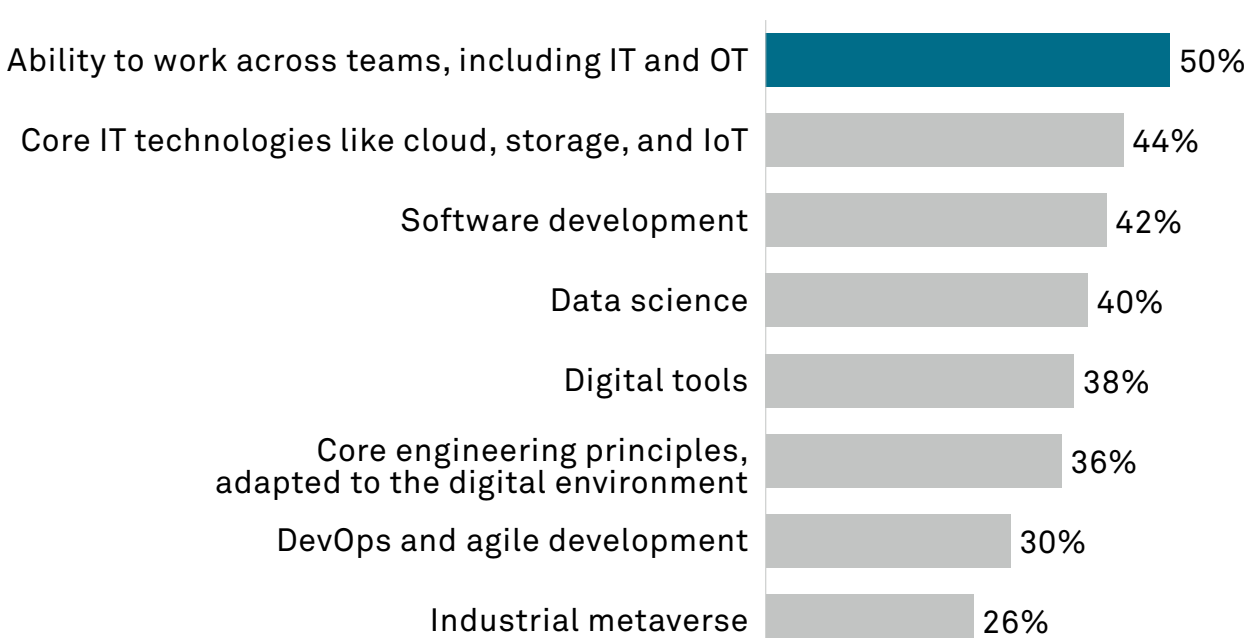
58% of manufacturing respondents say their organization currently has a data fabric, compared to **50%** of total respondents.

More so than many other industries, manufacturing is progressive in data fabric adoption.

DataOps can facilitate data fabrics via more automated data governance, data access, and even data security.

But technical talent alone is not enough to ensure outcomes with data. **Cross-functional skillsets** are critical in industrial settings, particularly when multiple data sources are involved.

Which of the following skills and capabilities do you view as most important as part of a digital engineering skillset?

Ability to work across teams, including IT and OT	50%
Core IT technologies like cloud, storage, and IoT	44%
Software development	42%
Data science	40%
Digital tools	38%
Core engineering principles, adapted to the digital environment	36%
DevOps and agile development	30%
Industrial metaverse	26%

IT and OT data need to be integrated, emphasizing the need for teams to work together. An effective DataOps approach coordinates both human talent and supporting technologies.

HITACHI
Inspire the Next

Experience the power of Lumada DataOps
Meet with an expert to see the full solution functionality including integration, profiling, optimization and analytics.