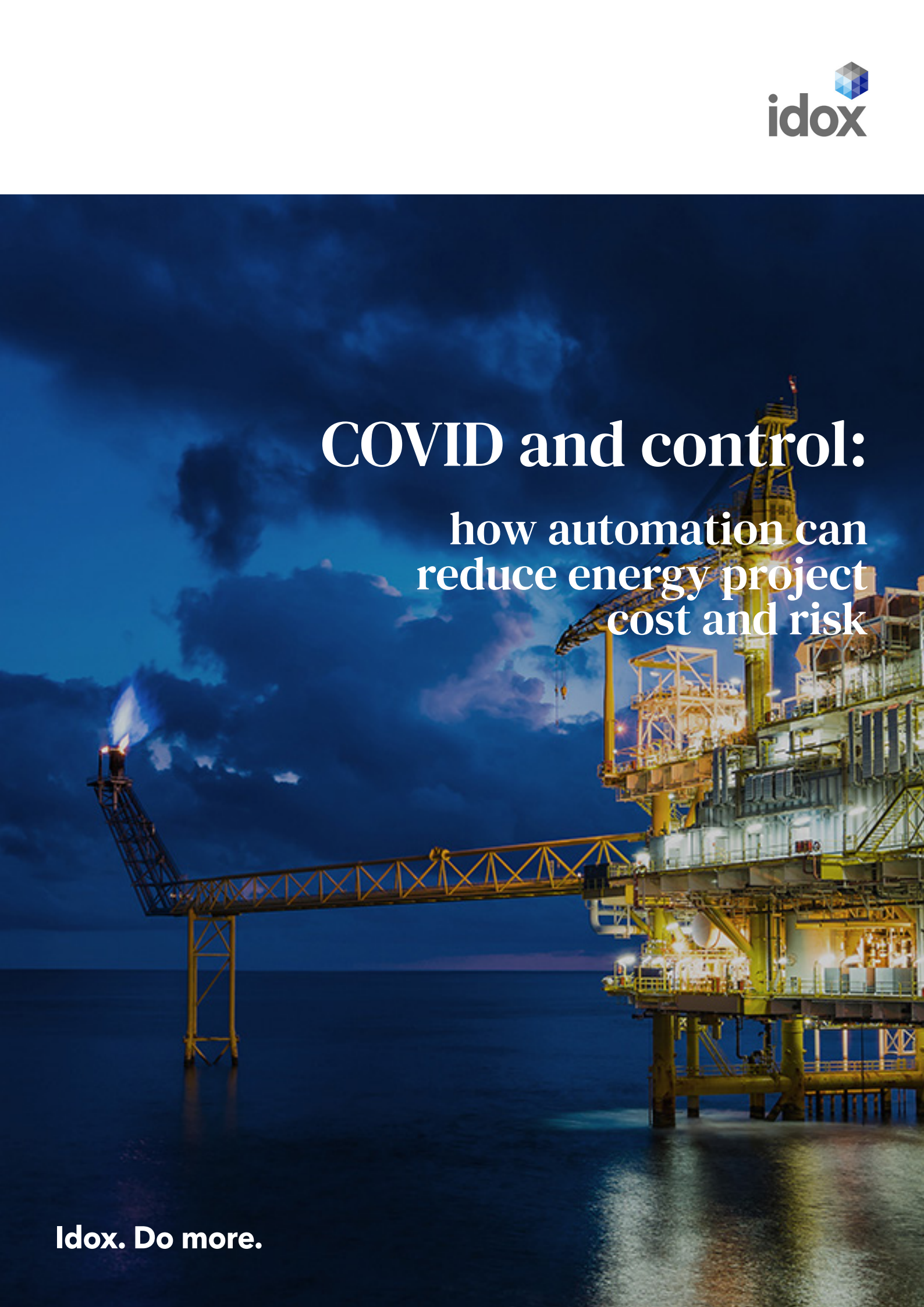


A large offshore oil rig is illuminated at night against a dark, cloudy sky. The rig's complex structure, including cranes and platforms, is lit up, and its reflection is visible in the dark water below. A flare on the left side of the rig is emitting a bright flame.

COVID and control:

how automation can
reduce energy project
cost and risk

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Contents

Right time, right information 02

Automated document control 03

Streamlining a project’s future 04

In a world where COVID-19 and control together seem an oxymoron, **Steven Bruce, Product Director** at Idox shares his insights into where and how energy players can exert tighter control over projects to reduce cost and risk.



Steven Bruce
Product Director
Idox

As oil demand recovers steadily, many operators had kept significant CAPEX and OPEX in a holding pattern. Yet, despite the international threat of Covid-19 variants having dented the pace of oil demand recovery, global oil demand is now expected to exceed pre-pandemic levels during 2022. Global mobility in December 2021 improved to only 3.8% below pre-Covid-19 levels – the highest since oil consumption rapidly declined at the start of the pandemic in 2020, according to S&P Global Platts. In addition, the International Energy Agency and OPEC anticipate oil demand to exceed 100 million barrels per day by summer 2022 – thereby finally returning to pre-pandemic levels.

Right time, right information

Underpinning the success of any large capital project is ensuring that the right people have the right information at the right time to make informed decisions. Inefficient document control can often be the bottleneck of an otherwise well managed project. In times past, companies would choose between hiring an army of document controllers to ease congestion or throwing millions of dollars at a custom management system to smooth the crunch.

Now, with years of engineering management software experience under the industry's belt, out-of-the-box workflows that have distilled those development learnings and built in best practice at the same time can be obtained for an affordable price. That's a big leap given the thousands of craft days and millions of pounds lost to rework due to poor document control every year. However, with COVID-19 continuing to exert pressure on both human resources and project costs, digital transformation can offer a means for industry to manage costs more tightly and improve the quality of work while reducing risk.

Automated document control

It's an age-old problem. Despite the technological advances that have made it possible for teams to connect and collaborate while working remotely, document controllers are still spending hours of their day chasing up engineering reviews and hunting down documents that have seemingly vanished into thin air. But what if automation could implement a self-service system that automates control over the distribution of the hundreds of thousands of engineering documents that are created, revised and circulated on any one project.

As an example, through automation engineers can send their own reviews and the supply chain can submit RFIs without needing the expertise of a document controller. A digital distribution matrix will innately know who needs to be involved in the review or RFI, calculate deadlines and send reminders for open tasks to avert missed deadlines. Instead of the review being sat in a document controller's inbox waiting to be forwarded, it lands directly in the inbox of the person that can review the document or help answer the questions. It sounds simple but we've seen examples where the turnaround for a request for information has come down from seven days to three, because the process of getting it to the right people, and back again, was entirely automated.

In a similar vein, circulating the right revisions to suppliers is a particular pain point on many projects. Send too many updates to a fabricator and you'll incur a big bill, send too few and you risk paying for rework. Again, the system can do the work by automating the transmittal of only the documents needed by the suppliers as soon as they are revised. This significantly reduces the engineering document control overhead associated with keeping constant tabs on who has received what, along with reducing the risk and cost of rework due to out of date content.

COVID-19 helped to accelerate the move away from paper copies by digitalising the binder and delivering paper as a PDF direct to engineers' devices instead. Delivery can be tailored so that workers only receive the documents most relevant to their work package. For those project managers still using hard copy binders, automation can offer a helping hand by highlighting which copies have changed since the binder was last updated.

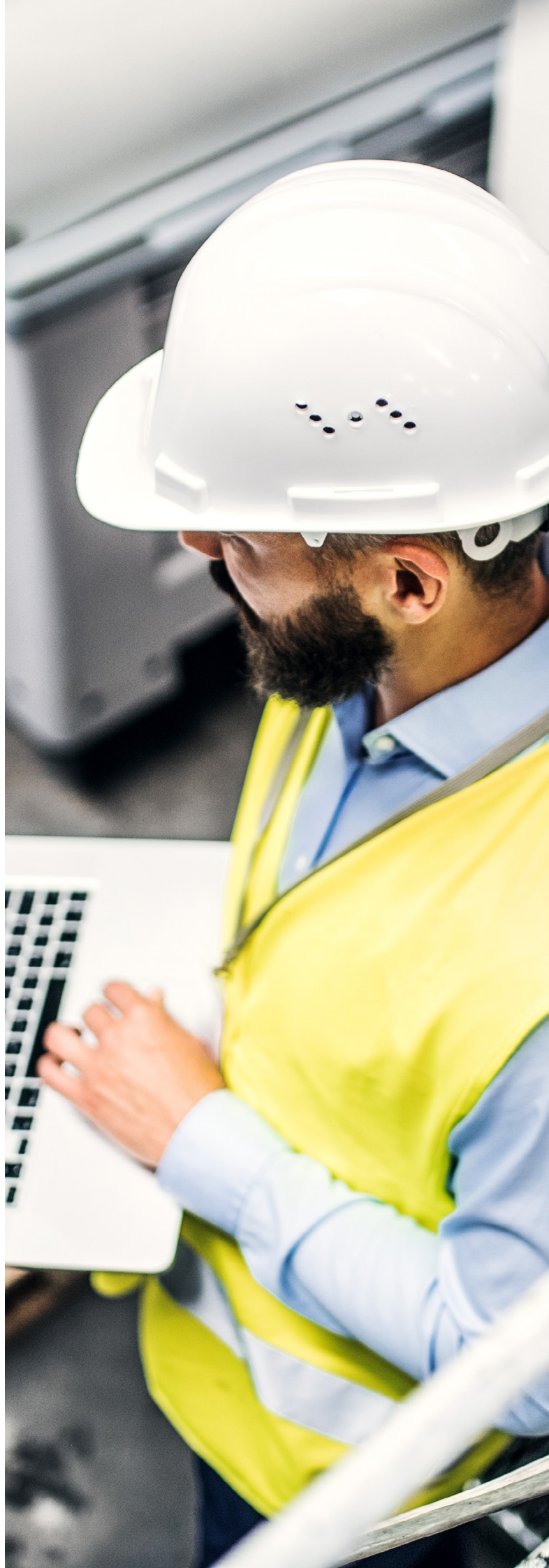


Streamlining a project's future

On a large greenfield project, the capture of engineering tags for supplier documentation is another laborious manual task. It's an inefficient process that takes engineers away from their core competency of, well, engineering things. It's not a simple fix either; a large project might have 50,000 vendor documents where manual extraction would take thousands of days. Not capturing this data and making it part of the information handover may save time on the project, but this is a false economy that results in an even greater cost in downstream operations.

Thankfully, the industry is increasingly moving towards mandating tag to document data as part of handover, helping to deliver time and cost savings well into the future. Making use of an automated extraction engine and tag centric viewer can reduce the time needed to extract and validate tags by 80% and the time it takes will only decrease as machine learning and natural language processing techniques improve. This turns what could have been a potential project threat and source of client frustration, into a competitive advantage. In addition, automation is also helping the industry to move to better standardisation for the handover of information by improving compliance as well as through the standardisation of processes and tools.

COVID-19 has incentivised most energy companies to take stock, with some left considering whether accepting schedule delays and budget overruns can continue particularly in the face of growing pressure to combat climate change. Automation can make an enormous difference at every stage of an energy project – driving efficiency, reducing costs and rework and improving schedule adherence while supporting staff in their respective roles. Applied appropriately, digital technologies can provide the crucial foundations for project success which, in the face of sector pressures and challenges, cannot be overlooked.



For further information on how we can help you reduce costs on your energy projects, please visit idoxgroup.com or email marketing@idoxgroup.com.

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