mods CONNECT

WORKPACK

V1.0 2024

> MODS SOFTWARE SOLUTIONS <

> Go paperless with digital work packs for more intelligent working <

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> MODS Connect WorkPack is a digital work pack solution that links all essential project details including engineering, manning, materials, inventory, fabrication, installation, HSE and scheduling into a single, accountable, visible and real-time system that facilitates everything from planning to signoff <

> How does MODS Connect WorkPack save time?

It can take up to to 1-2 weeks for paper-based work packs to reach remote job sites. Shipping and closing-out paper-based work packs can take 60-90 days, causing delays and interrupting sequential activities.

MODS Connect WorkPack is cloud-based, enabling remote and agile work pack management with instantaneous digital sign-offs and real-time status reporting for all stakeholders.

> How does MODS Connect WorkPack streamline workflows to deliver value?

- Reduces time spent providing key project data to clients by 50 percent.
- Reduces offshore administrative time and ensures accuracy and control of paperless, workflow-based digital work packs and progress monitoring.
- Shortens the closeout schedule.
- Delivers a high volume of wide-ranging brownfield modifications on schedule and within budget.
- Fast turnaround to replace critical pipework to ensure continuous operations.
- Eliminates a 7-to-14-day turnaround time for paper work packs to reach an offshore asset

> How does MODS Connect WorkPack increase project efficiency?

- Increases transparency.
- Aligns interests and fosters trust between and among stakeholders (i.e. contractors, owners, etc.).
- Prioritizes value engineering (i.e. standardization and repeatability).
- Transforms onsite execution (i.e. management systems, technical systems and mindsets).
- Upskills the workforce.

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> Why are cloud-based digital work packs like MODS Connect WorkPack better than on-prem work pack software?

Any work pack inefficiency has downstream implications. The inability to access real-time work pack information offsite will lead to delays. Cloud-based digital work packs are accessible anywhere with an internet connection, by all stakeholders who have been granted access.

Cloud-based work packs open a host of possibilities for remote project management, enabling evidence-based decision making from afar. Relative to both paper-based and on-prem systems, cloud-based work packs enhance communication, enabling transparency and overall quality of information management, saving time and money.

> How does MODS Connect WorkPack reinforce Lean construction principles?

Lean principles and MODS Connect WorkPack both progress construction processes in as time-and-cost efficient manner as possible by streamlining workflows, cutting out waste, optimizing safety and quality, saving time, materials and increasing project ROI.

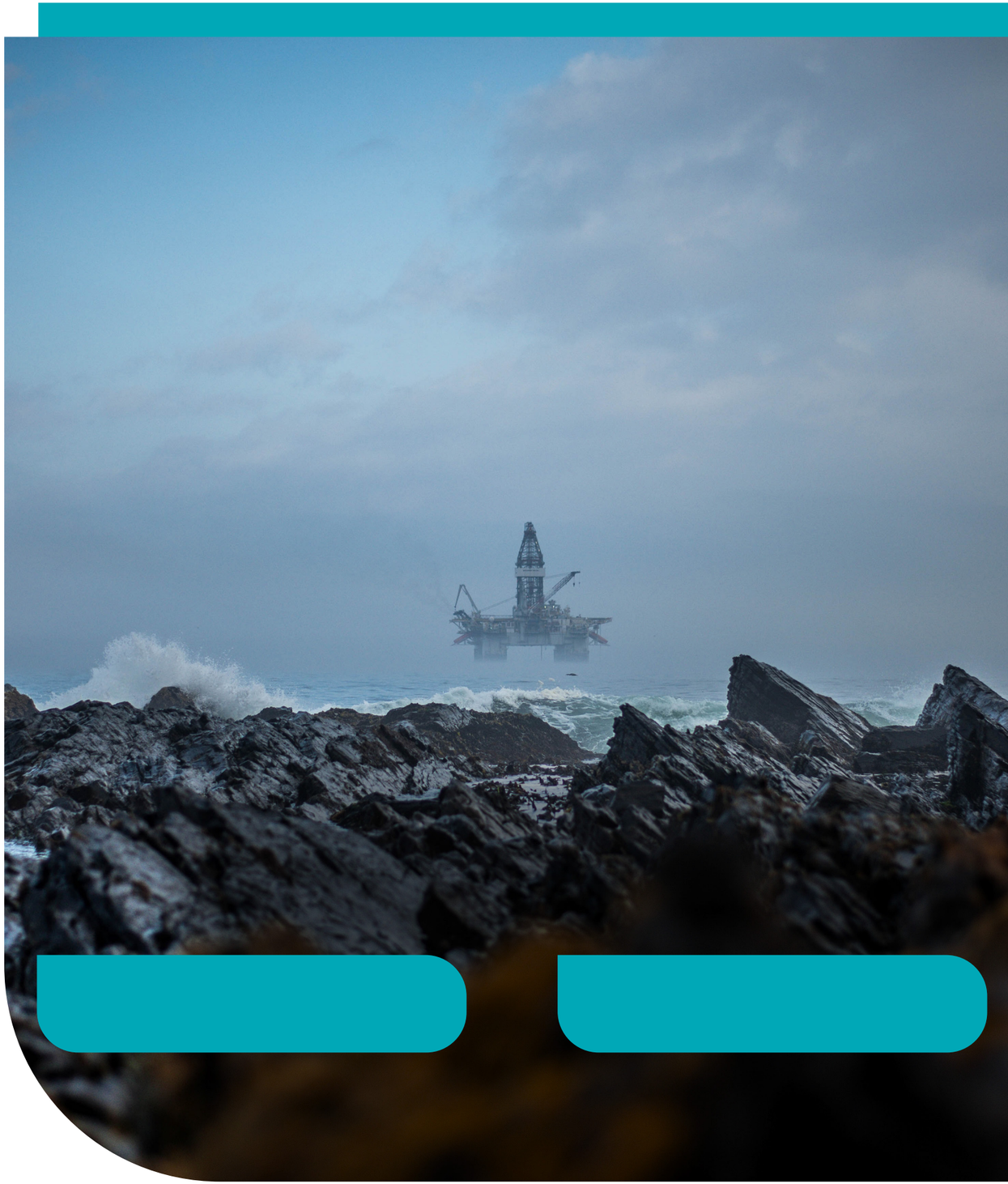
MODS Connect WorkPack supports AWP implementation.

> MODS Connect WorkPack

> MODS Connect WorkPack Benefits

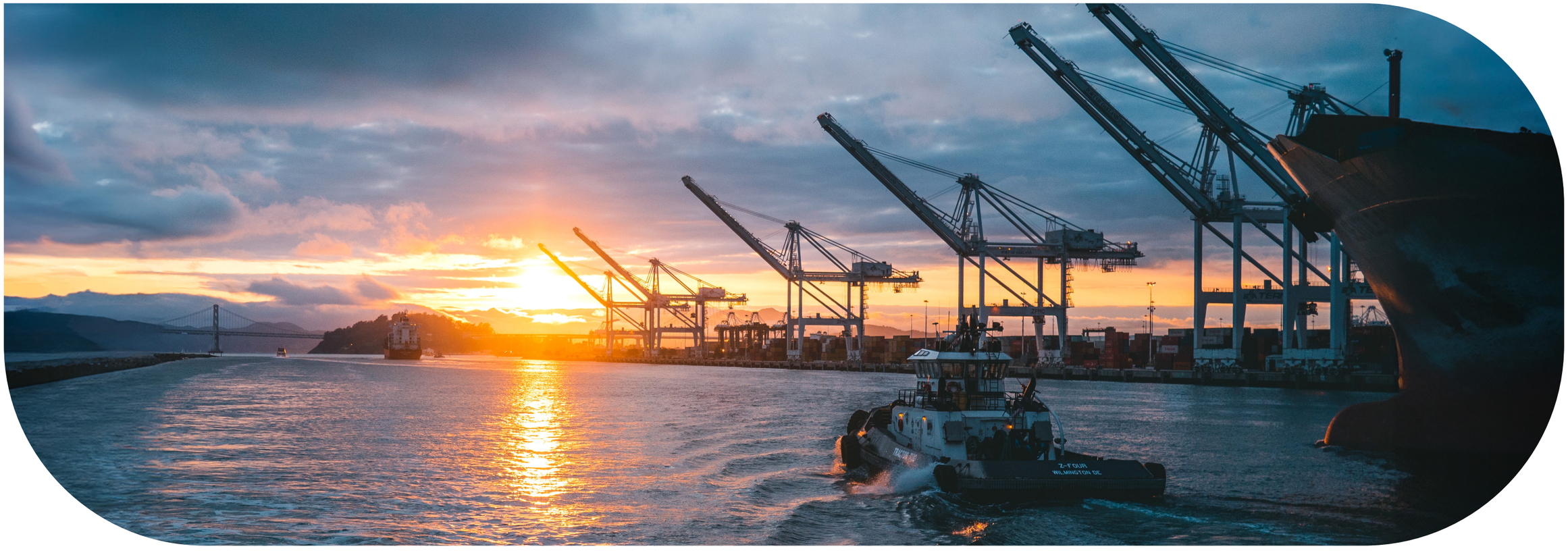
MODS Connect WorkPack solves the myriad of problems associated with paper-based work packs, **such as time-and-cost overruns, compromised safety, loss of information, lack of adequate records, as well as compromised accountability and transparency**.

- Reduces downtime.
- Eliminates non-value-added activities, such as transporting hard-copy files to remote field locations.
- Enhances worker safety.
- Streamlines schedules through automated features.
- Improves planning thanks to real-time and archival information at the ready.
- Automates quality checks ensure compliance and enforcement of standard operating procedures (SOPs).
- Faster, improved communication at all levels: from internally with tradespeople and externally with clients.
- Enables agile working with handheld compatibility.



> MODS Connect WorkPack Features

- Comprehensive work pack planning and execution covering all project phases.
- Field or project development planning.
- Engineering activities coordination.
- Detailed work scopes and drawings.
- BOMs and soft allocation.
- Construction and crew requirements.
- Cost, Time and Resources (CTR) estimating.
- Tag list creation.
- Easy review, control and updates.
- Revision control and signature issuance.
- Clone work packs and/or job cards.
- Cloud-based working.
- Online/offline mobile execution.
- Automatic revision archive.
- Permit and work pack readiness trackers.
- 4D visualization.
- Multiple project access.
- Accurate, comprehensive, accessible project information (archival and real-time progress).
- Instantaneous information sharing between departments.
- Electronic signoffs for immediate commencement of works.
- Project terminology screen for regional/industry differences.



> Anatomy of a digital work pack

Our world is changing. And it's changing the way we need to build, maintain, decommission and rebuild assets. Yet operators, contractors and vendors are relying on outdated tools, paper-based documentation and siloed reporting to do their jobs.

A single digital work pack eliminates hundreds of pages of paper. Instead of requiring transportation from office to site and back for reviews and sign-offs, digital work packs are available to review, sign-off and action instantaneously, anywhere and at any time.

Digital work packs consolidate all information pertaining to everything from engineering design, materials (fabrication and inventory), equipment, installation specifications, worker requirements, health and safety, scheduling and estimated time for the specified scope. Subdivided into Job Cards, each digital work pack carries a unique identifying number for ease of access and to eliminate confusion.

We do this by bringing together decades of engineering and software development experience to build an intelligent ecosystem of connected software solutions that provide users with real-time insights, enabling them to make better, more impactful decisions every day.

> Digital completions management on a large-scale LNG plant

100%
paper-to-digital transition for turnarounds within 3 years.

Ability to digitally sign off completions ITRs on both the mobile app and web interface.

On one 8-week turnaround of a gas plant train, MODS Connect delivered

7468	545	1900
Digital Completions ITRs	Digital Work Packs	Digital Job Packs

25,000 Digital work packs issued on Assets worldwide, with each digital dossier replacing a paper-based work pack that can take 7-14 days to reach remote project sites.

63,000 Job packs issued globally for the construction and maintenance of industrial Assets.

> MODS Connect WorkPack

> A case study in brownfield digital soutions

Petrofac designs, builds, and operates world-class energy facilities engineered for safety, optimal efficiency and low emissions. In January 2020, MODS partnered with Petrofac to remove manual processes from their brownfield development projects.

Challenged with capturing data as well as the consistency and accuracy of that project data, Petrofac's brownfield delivery and digital execution teams, selected MODS Connect as the digital solution for the UKCS. MODS Connect, compatible with Petrofac's existing systems and processes, decreased administrative burdens to improve efficiency, reducing time and effort by 50 percent.

The cloud-based MODS Connect enhanced Petrofac's ease of communication, delivering project transparency with internal and external stakeholders for a variety of brownfield projects. Petrofac harnessed the power of digitization and visualization through MODS Connect WorkPack, MODS Connect Materials and MODS Connect Completions.

> The Problem: Data Drain

Petrofac prioritizes information management, which is particularly challenging in brownfield contexts. Therefore, their overarching objective in partnering with MODS was to capture all data in one system.

> The Solution: MODS Connect

Petrofac have implemented MODS Connect since early 2020 across a range of UKCS brownfield and TAR projects that have varied considerably in type and scope.

> The Benefits: Improved Brownfield Project Delivery

50 percent time saved in providing clients with key project data. Project transparency enabled informed decision making, anticipating and avoiding common pitfalls. High volumes of diverse brownfield modifications were delivered on time and within budget using MODS Connect.

"[With MODS Connect] we have standardized what 'good' looks like and we have the flexibility to meet client-specific requirements. We can record all information that goes into the system and measure and monitor data in a consistent manner so we can be very confident that what we report is accurate. Progress and photographs are at the click of a button. The accuracy is a very important point, the tools allow the folks in the field to trust the information coming to them to quality check."

> A Case Study In Digital Solutions

A significant global contributor to economic growth and industrial development, JGC Group is an engineering, procurement and construction (EPC) organization committed to meeting challenges for a better world.

> The Problem: Untenable Project Costs

The five issues that JGC sought to address through their digital transformation with MODS were:

- To reduce cost overruns and project delays through a paper-to-digital transformation.
- To increase productivity and minimize lost time through digital work packaging solutions and optimal allocation of resources.
- To integrate with and enhance the efficacy of their existing in-house construction management system through removing manual processes.
- To ensure transparency through making all project phases of their construction management (from planning and commissioning through to handover) visible, through cloud-based quality-assured data and information.
- To support an agile future and to continue to develop intelligent industrial software in partnership with MODS, enabling remote oversight of all phases of their construction execution projects, ultimately with advanced tools including Artificial Intelligence (AI).

> The Solution: Digital Transformation With MODS

Embarking on a digital transformation journey reinforced JGC's ethos to create a more prosperous future and to harmonize energy and the environment.

Since joining forces with MODS in 2016, MODS has enabled the paperless construction execution of around ten significant JGC projects. These projects include:

- Full development of a Central Gas Plant facility in Bahrain in 2017;
- From the ground up development of a crude oil gathering and processing facility with a capacity of 40,000bbl per day for Sonatrach in Algeria in 2018;
- The construction of an LNG export terminal in Canada in 2020; and,
- A USD 3.5 billion refinery upgrade project for South Refineries Company in Basra, Iraq.

> The Benefits: Lower Capital Expenditure And Increased Productivity

JGC's successful implementation of MODS software realized the following benefits:

- 70% reduction in time spent on piping inspection test packages.
- 35% time saved due to a reduction in human error.
- Significant reduction in capital expenditure of construction execution; e.g. USD 3 million savings in labor costs on one oil refinery expansion project.
- More streamlined communication with both internal and external partners.
- Improved forecasting ability.