



# INTEGRATED PROJECT DELIVERY SOLUTION (IPDS)

Providing world-class project delivery services to all of our customers

PROGRAMME MANAGEMENT



**IPDS embraces the core disciplines of information management and project controls. It brings people, processes and technology together in an integrated approach to ensure effective and efficient project delivery.**

Against increasingly stringent requirements the associated project delivery challenges require the highest standard of information management and project controls.

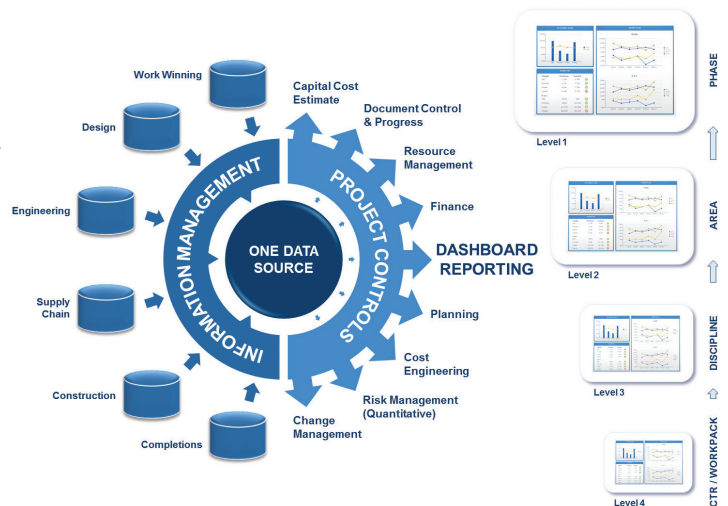
At the core of IPDS, business intelligence software provides the portal to a trusted source of data that all project reporting is built upon, with information from disparate business and information systems consolidated via data integration software and a data warehouse.

A standardised dashboard with selection, filtering and drill down through the project WBS provides summarised project health checks and detailed status reporting including:

- Milestone status
- Earned value analysis (graphical and tabular)
- Resource management
- Project schedule analysis
- Document and deliverables production status
- Risk and change management
- Trends and forecasts

IPDS is scalable to project size and complexity and supports the applicable project life cycle and work scope through a modular approach encompassing:

- Work winning
- Resource management
- Information management and document control
- Document and deliverables progress
- Supply chain management
- Planning and scheduling
- Cost database
- Change control
- Risk management and analysis
- Construction and completions progress



## PROJECT CONTROLS ASSURANCE

Our integrated project management baseline sets the expectations and targets for project schedule, budgets, risk and change.

This forms the basis for Assured Information Management and Project Controls, with our conventional quality assurance regime supplemented by the implementation of:

- Project categorisation
- Estimate and schedule basis (narratives)
- Integrated baseline reviews
- Schedule integrity checks
- Project controls peer assists
- P3M processes

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ENGINEERING TOMORROW...TODAY

## ACTIONABLE INSIGHT

Our repository of verified and accurate real-time data and periodic snapshots ensures the regular and timely update of project status on a continual basis promotes:

- Insight - early warning of adverse trends that threaten project objectives or the identification of opportunities
- Action - time for considered decision making and action planning to keep the project on track

The creation of actionable insights result in the accurate assessment of performance, prediction and realisation of cost and time objectives and certainty of project delivery.



## BUILDING INFORMATION MANAGEMENT (BIM)

The IPDS data warehouse and integrated business systems form the foundation for the development of Building Information Modelling (BIM).

## IPDS - A TRIED AND TESTED SOLUTION

IPDS has been successfully deployed on the three projects listed below:

- Total CMRU & SCS
- Dimlington Freon Replacement
- Wylfa AEDL

Implementation continues for all new projects delivered to Costain's Oil & Gas customers. Our team is currently extending this solution to customer projects in other market sectors.

## ADDITIONAL TECHNICAL INFORMATION

Certain elements of IPDS are Cloud based, which ensures a cost effective and efficient solution that benefits both short and long term projects.

## PROCESSES AND PEOPLE

The Costain project control processes are consistent with those prescribed by the foremost project management bodies including APM, PMI, ACostE and ACEI.

Our Project Management Office (PMO) provides organisational support to IPDS and as confirmed through our formal competency assurance processes includes suitably qualified and experienced project controls and information management specialist and practitioners.



Our commitment to and focus on training and corporate responsibility won the Supreme Award at the 2009 Construction News Quality Awards, with our Project Management Academy also winning the training category and subsequently achieving APM Accreditation.

As lead employer in the Project Control Technician Trailblazer programme, Costain heads a group of businesses and organisations working with the Department of Business, Innovation and Skills to develop the standard for an apprenticeship that will equip young people with the project control skills both they and industry need to continue to develop the project controllers of the future.



Over and above supporting and implementing IPDS, our subject matter experts and practitioners sit on industry working groups, deliver conference presentations, papers and interactive workshops and attend local branch meetings at events organised by the aforementioned professional bodies and others such as European Construction Institute (ECI) British Chemical Engineering Contractors Association (BCECA), Global Alliance for Project Performance Standards (GAPPS) and Engineering Construction Industry Training Board (ECITB)



## IPDS FACTSHEETS

For further information a suite of IPDS factsheets are available covering Earned Value Analysis, Resource Management, Planning, Cost Engineering, Document Control and Progress and Business Intelligence.