



G-Cloud 15 Service Definition

Accenture Digital Engineering Services

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accenture

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1.0 Scope of our services

Poor Engineering Management has adverse impact on Organization's Performance. Few of the key Industry Challenges faced by the industry are Cost & Schedule, Quality & Risk, Complexity. Capital projects across the globe face several challenges resulting in schedule overruns (71%) and cost overruns (46%). 42% of the projects fail to meet their project objectives. Output from the global construction industry is expected to rise to \$12.7 trillion in 2022, up from \$10.6 trillion in 2017. Despite this promising outlook, the industry has gained only 1% of productivity in the last 20 years due to **lack of digitization**.

Our scope of services covers the key issues faced by the industry in all phases of project lifecycle like lack of access to accurate project and asset information, globally distributed workforce not working collaboratively, different standard operating procedures for project execution, outdated processes to visualize and analyze accurate data. Our services tackle these challenges through the following benefits:

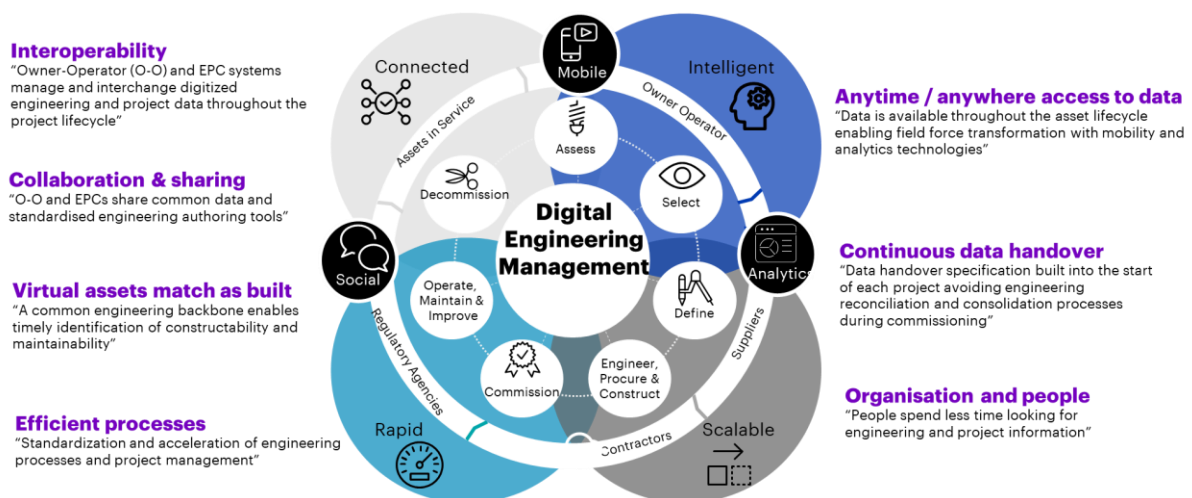


Figure 1: Scope & Benefits enabled by Digital Engineering services

More specifically in the case of Digital Engineering Services for Capital Projects, Accenture provides the below services:

Engineering Data Processing Services:

Offers business process for Engineering management across project lifecycle

Business Process Definition & Mapping: As a part of the Business Process Definition & Mapping, following are the activities performed:

- Compliance and Standardization with International standards
- Assessment of existing Process
- Collaboration for building future roadmap

Data Change Management: As a part of the Data Change Management, following are the activities performed:

- Establish Change management Process: Managing engineering changes through the process of initiation, change impact analysis, review, approval, and implementation
- Managing concurrent engineering: Handling multiple simultaneous changes

Engineering Data Handover: As a part of the Engineering Data Handover, following are the activities performed:

- Digital Asset Handover & Acceptance
- Maintaining Data Sustainability
- Handover Management: Managing the incremental and progressive handover of data during a project or for validating legacy information

System Completion Data Readiness: As a part of the System Completion Data Readiness, following are the activities performed:

- Validation and consolidation of data
- Validation of documents from contractors, vendors and other stakeholders during the design and construction phase

EDM Governance Model Development: As a part of the EDM Governance Model Development, following are the activities performed:

- Define business rules governing the use of data and enables the identification of shareable data across functional and organizational boundaries

Engineering Data Management:

Offers a system to store data related to engineering applications using computers and electronic storage media

EDMS Application Assessment: As a part of the EDMS Application Management offering, following is the approach:

- Maturity Assessment: As-is analysis to baseline the customer need
- Platform Selection: Application/Tool assessment based on customer needs
- Implementation approach

Engineering Data Standardization: As a part of the Engineering Data Standardization offering, following are the activities performed:

- Compliance with International Organization for Standardization
- Define the master document strategy
- Categorization and classification of documents as per engineering disciplines

Data Transformation & Migration: As a part of the Data Transformation & Migration offering, following are the activities performed:

- Develop methodology and data transition template
- Consistency of information between systems
- Version and Revision management

Data Security and Controls: As a part of the Data Security & Controls offering, following are the activities performed:

- Secure information system: Keeping sensitive information safe and act as a countermeasure against unauthorized access
- Handling Authentication issues
- Managing Access control

- Managing the Backups & recovery process

Engineering Document Management (EDMS):

Offer system to capture, track and store electronic documents such as PDFs, word processing files and digital images of paper-based content

Document Migration Solution: As a part of the Document Migration Solution offering, following are the activities performed:

- Assessment of document sources
- Define and Design the Migration
- Build the migration solution

Engineering Document Control: As a part of the Engineering Document Control offering, following are the activities performed:

- Define document creation, review, and approval process
- Develop document revision system
- Develop obsoleting process of documents

Engineering Document Digitization: As a part of the Engineering Document Digitization offering, following are the activities performed:

- Tag & meta data extraction
- Document conversion system
- Digitization of various types of documents

Data Transformation & Migration: As a part of the Data Transformation & Migration offering, following are the activities performed:

- Develop methodology and document transition template
- Framework for integration and establishing digital thread

Engineering Analytics:

Offer data processing services to ensure a strong backbone for data analytics

Progress & Exception Reporting: As a part of the Progress & Exception Reporting offering, following are the activities performed:

- Develop Integrated Dashboards for Project Progress tracking in terms of Design, Procurement, Delivery, Construction etc. to track deviations
- Automate MIS Reporting through RPA across systems

Engineering Analytics: As a part of the Engineering Analytics offering, following are the activities performed:

- As-is analysis to baseline the customer need
- Evaluation of their demand
- Framing strategy for data analysis and readiness

Digital Engineering:

- Offer optimization and best value case using digital engineering solutions like Generative Design Studio

Generative Design Studio: As a part of the Generative Design Studio, following are the activities performed:

- Maturity Assessment: Assessment of customer need
- Tool selection: Application/Tool assessment based on customer needs
- Implementation Approach: Define Generative design implementation approach

Strategy & Engineering Governance Establishment:

Offer Engineering maturity assessment, value case development with a comprehensive Engineering governance and class library definition

Capability Maturity Assessment and Benchmark: As a part of the Generative Design Studio, following are the activities performed:

- Maturity Assessment: As-is analysis to baseline the customer need
- Capability Benchmarking
- Gap Assessment & Recommendations

Engineering Governance & Class Library: As a part of the Engineering Governance & Class Library, following are the activities performed:

- Define business rules governing the use of data and enables the identification of shareable data across functional and organizational boundaries

Strategy & Roadmap: As a part of this, following are the activities performed:

- Develop roadmap and migration strategy
- As-is and to be process
- Analyze change management, transition planning
- Prepare solution blueprint

System Establishment & Implementation:

Offer a customized solution based on customer requirement to capture, track, and store electronic documents such as PDFs, word processing files and digital images of paper-based content

Product Vendor Assessment: As a part of the Product Vendor Assessment, following are the activities performed:

- EDMS system assessment
- Handover system assessment
- Engineering design tool

System Implementation: As a part of the System Implementation, following are the activities performed:

- Define business rules governing the use of data and enables the identification of shareable data across functional and organizational boundaries

Framework & Architecture: As a part of Framework & Architecture, following are the activities performed:

- Digital Asset Handover & Acceptance
- Maintaining Data Sustainability
- Handover Management: Managing the incremental and progressive handover of data during a project or for validating legacy information

System Integration: As a part of System Integration, following are the activities performed:

- Validation and consolidation of data
- Validation of documents from contractors, vendors and other stakeholders during the design and construction phase

Digital Engineering Services enable following values and benefits:

- Improved Engineering Management
- Improved data management system
- Single source of truth (data)
- Use of data for decision making
- Improved Productivity
- Internal & External Collaboration
- Standard workflows/tools
- Regulation & Security risk management
- Management of Change
- Scheduling improvements
- Improved information accessibility
- Improved maintenance planning
- Accuracy of plant designs

2.0 Our Approach

We have a proven method to assess and determine the approach to Digital Engineering Services as shown below.

We have a proven method to assess and determine the approach to Engineering Digitization. This is based on methodology which brings both the human aspects, processes, and technology together to create 360-degree value (which looks at value from six lenses of financial, experience, talent, inclusion and diversity, sustainability, and drivers specific to each client). The timescales below are indicative and will vary dependent on each client situation and the scope of work required.

Our sprint-based approach relies on our highly experienced team, global capabilities and relations with key solution providers. The typical approach for an engineering assessment and implementation comprises of the following key steps:

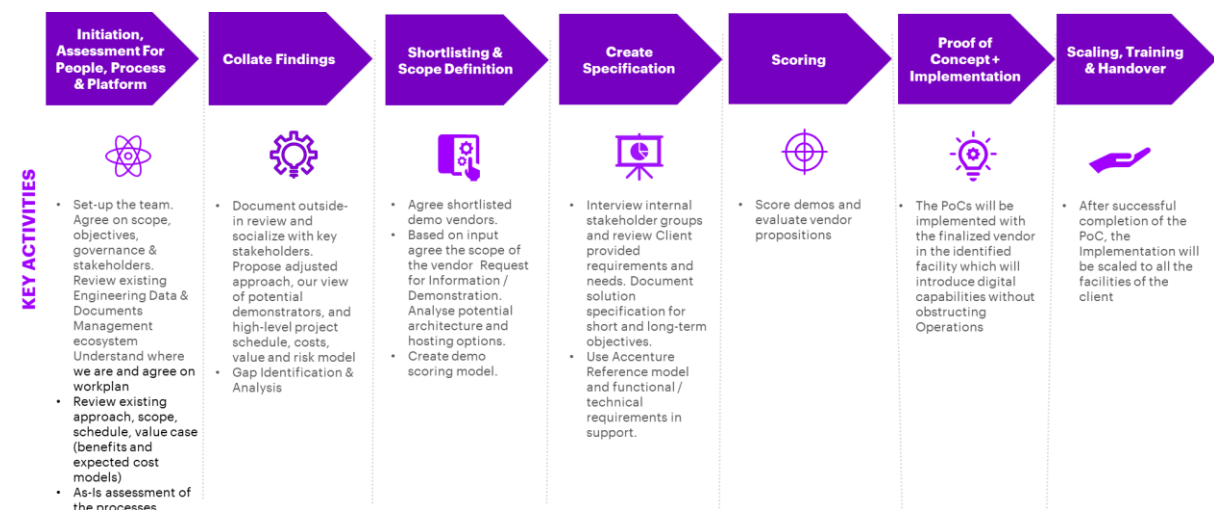


Figure 2: Implementation Approach

3.0 Assets and Tools

Accenture is a leader in Digital Engineering Services and has a community of subject matter advisors. We have also built several accelerators and tools within the last few years that have helped build on our capability in this space. We also benefit from several strategic partnerships in this area with Aveva, Hexagon, Bentley Systems, Dassault Systems, Autodesk, and many other organizations which enable us to provide the best of our expertise in Digital Engineering space.

Throughout the Capital Project Lifecycle, we can bring our Digital Engineering tools and accelerators to make the change journey more effective and efficient

Generative Design:

This tool executes an iterative design process that involves a program that will generate a certain number of outputs that meet certain constraints, and a designer that will fine tune the feasible region by changing minimal and maximal values of an interval in which a variable of the program meets the set of constraints, to reduce or augment the number of outputs to choose from. Generative Design has the following capabilities:

Within **Generative Design Studio**, we have the following tools:

1. **Equipment Layout Optimization** enables the **designer to compare and rank different layout designs** generated automatically based on a set of pre-defined criteria and metrics and how they are weighed over each other.
 - a. Utilizing a 3D model and constraint inputs, a parametric design is developed. This design is processed utilizing multiple algorithmic approaches along with advanced machine learning techniques to find layout solutions which best meet a project's defined success criteria.
 - b. This tool can be leveraged during the potential rooms for improvements of existing factory layouts or ending up with the optimal arrangement of the facilities in a plant design.
2. **Automated PFD (Process Flow Diagram) Generation** helps automate the PFD generation. At this moment, the drawing process is done manually
3. **Generative Bill of Materials** helps on the front end of design, pulling together information from siloed sources and historical records to make better decisions.

Accenture's Digital Engineering Tools & Accelerators:

- **EDMS Maturity Diagnostic Tool:** Identify the current EDMS maturity of client and generate value proposition of transformation capability along with roadmap
- **EDMS Estimator:** To estimate different kind of projects related to EDMS eg. Platform selection, implementation, Digitization & Digital twin
- **EDMS Vendor Assessment Template:** Can be used as reference for capability evaluation of different EDMS vendors and to identify basic requirement of EDM system
- **Document Structuring Utility:** Categorization of document as per engg doc category eg- All manuals in one folder. Reduce the manual effort and useful for further processing of documents
- **Master Document Identification:** Identify the latest revision or master copy from set of different documents available as soft copy. Helps in removing duplicate documents

- **Data Enrichment:** Standardize the extracted data as per ISO 15926 or any other standards and helps to generate the single data standard across all extracted information
- **Document Renaming Utility:** In brownfield industry major problem is available documents provided by EPC is in bundle form where various doc type is merged as one doc and hence require splitting of doc. With the splitting the split doc require re-naming. Out utility perform this task 90% faster than manual
- **Best Practices Accelerators:** This helps to establish streamline flow of the entire process and reduce overall digitization effort
- **Asset Document Analysis Tool:** Asset Document Analysis Tool (ADAT) is a common language tool that can extract the metadata of the Document and can perform the detail binary level match of the different document of any extension. Based on binary level match and based on approximate match it is capable of identifying the master document out of different revisions of different document copy. Also, it can generate the detail reports of duplicates existing in the current system. This tool is capable to link with any document source for extracting the duplicate files.
- **Optical Character Recognition (OCR):** OCR is a technology for the optical character recognition of data within scanned paper documents and image files. Accenture Capital Projects have built a dedicated team and digitization accelerators around the ABBYY OCR set of tools.
- **Asset Data Analysis and Processing Tool:** Asset Data Analysis and Processing Tool (ADAPT) is the inhouse tool developed both for greenfield and brownfield plant. This tool can generate the standard asset metadata template which can be configured as per the target system. Also, this tool can perform the validation of the metadata and attribute information and can standardize it as per the ISO 15926 or any other client standards. It is a powerful tool for generating the loadable templates of metadata which directly can be fed into either Engineering Data Management or Enterprise Asset Management System
- **Engineering Data Digitization:** Engineering Data Digitization (EDD) can extract the metadata, tag, and other related information out of electronic documents like dwg, dgn files and also from native word or pdf types of files. Accenture Capital projects has a dedicated team of various COTS application which can perform this task.

4.0 Pricing

Please refer to the associated pricing document/ rate card relevant for this service.

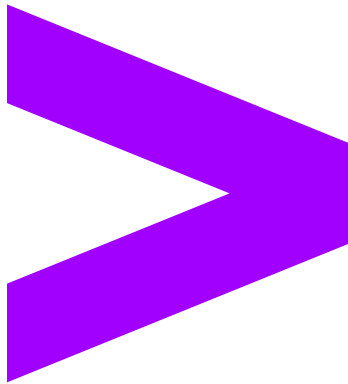
5.0 **Contacts**

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6.0 About Accenture

Accenture is a leading global professional services company that helps the world's leading businesses, governments and other organisations build their digital core, optimise their operations, accelerate revenue growth and enhance citizen services—creating tangible value at speed and scale. We are a talent- and innovation-led company with approximately 799,420 people serving clients in more than 120 countries. Technology is at the core of change today, and we are one of the world's leaders in helping drive that change, with strong ecosystem relationships. We combine our strength in technology and leadership in cloud, data and AI with unmatched industry experience, functional expertise and global delivery capability. We are uniquely able to deliver tangible outcomes because of our broad range of services, solutions and assets across Strategy & Consulting, Technology, Operations, Industry X and Song. These capabilities, together with our culture of shared success and commitment to creating 360° value, enable us to help our clients reinvent and build trusted, lasting relationships. We measure our success by the 360° value we create for our clients, each other, our shareholders, partners and communities



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