HSE Data Management Challenges  
Providing Strategic Support to Our Clients

Based on the subject matter expertise of our HSE staff, the experience of our Management Information Systems (MIS) team, and our in-depth knowledge of our client organizations and operations, AECOM is often selected as a partner for clients who have recognized the challenges inherent in the patchwork of bespoke data management solutions. Landscapes that have evolved throughout their operations over a number of years related to their HSE data. These clients are seeking support in developing inventories of the existing systems, analyzing the “as is”, and developing strategies to streamline data management processes, reduce the number of systems in use, and identifying ways to better leverage the data being collected. The following project summaries provide some specific examples.

SUPERMAJOR O&G  
(Confidential Client) – Faced with the challenge of what had become a patchwork of commercial vendors, custom designed systems and the continuing use of Excel spreadsheets for managing EHS data, the client selected AECOM (as URS) to support them in a project to appraise their existing circumstances, to work with them to develop a more strategic approach and to identify potential solutions.

AECOM conducted interviews with a number of representative business units around the world (upstream, midstream, downstream), helped to develop functional and IT requirements, aspirational workflows focused on EHS data management and supported the corporate project management team in developing decision support content for stage gate reviews including business case preparation.

In later phases AECOM provided system selection support through the development of scripted demonstrations, vendor scoring and selection, gap analysis, and development of RFI s and RFPs. Once vendor selections had been made, AECOM was selected as the preferred implementation partner, assisting business units in the configuration of the enterprise system, interface design and development, custom report development, user training, user acceptance testing support, content development and quality assurance, and post go-live support.

AECOM continues to provide as needed/requested upgrade and enhancement support, configuration support for business units joining the system, impact analysis and governance support, and serves in an advocacy role with the software vendor regarding client enhancement requests.

MAJOR O&G CLIENT  
(Confidential Client) – A major Oil and Gas company identified the need to streamline their operations, to reduce the complexity that had evolved over time both operationally and within their EHS organization. Their goal was to drive more consistency effectiveness and efficiently, to reduce duplicative efforts and to allow their team to focus on more value added activities.

AECOM conducted interviews of key stakeholders to identify the “as is” state and areas for improvement, reviewed systems and procedures, created an annotated inventory of the existing IT and non-IT systems (capturing the strengths and weaknesses) and developed a set of recommendations. AECOM is currently engaged in supporting the client in implementing the recommendations which include
eliminating several workbook/Access database tools, leveraging existing systems for additional functionality, implementing improvements in existing systems, and eliminating legacy work processes that are no longer necessary.

**GLOBAL MANUFACTURING CLIENT (Confidential Client)** - A global manufacturing client, had identified an EHS MIS solution and was working with the vendor to configure and deploy the system globally. During that process, the client came to realize that their global operations, comprised of a number of legacy companies, were going to be challenged in both defining a common set of requirements and in accepting an enterprise solution. The client selected AECOM to work with them to step back and perform an analysis of the "as is" processes and requirements and to help in determining if a harmonized, global process and shared requirements could be identified, thus allowing them to move forward with a single system, as well as allowing for the aggregation and analysis of the HSE data through this shared solution.

For this project AECOM is leveraging our global team of HSE professionals and our EHS Management Information System (MIS) practice to work with client staff in a number of countries in collecting information, sharing findings and project progress, and in performing a gap analysis of the selected solution with respect to the requirements of the harmonized approach.

**FEDERAL AGENCY** – AECOM was selected by a major federal agency to support their analysis of EHS data management practices and tools currently in use with the goal of developing a short and long term strategy and solution roadmap. This project involved a review of existing IT solutions, defining client workflows and user types, graphically presenting the relationships between the variety of tools and systems, and developing recommendations and options for the client to consider.

The next phase of the project will include support for the implementation of the recommendations selected by the client, including working the clients IT team to enhance the functionality of existing tools and to define additional phases for the solution.

**FOR MORE INFORMATION:**

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