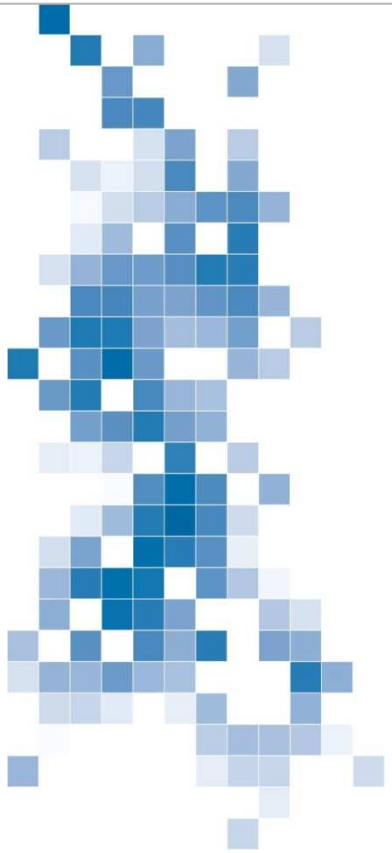
USING A DATABASE SYSTEM TO DRIVE EHS EFFICIENCIES



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A Common Problem

- Increasing volume of work
- Increasing regulation
- Increasing data
- Increasing expectations on reducing liability

Result

- The traditional way Oil and Gas EHS departments have stored and managed their data (hard copy files, spreadsheets, outside consultants) is no longer a viable solution.

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Why an EHS Database?

- Better ability to manage deadlines, audits, and ongoing obligations.
- Better ability to manage costs on any EHS projects.
- Lower corporate liability as all EHS data is centralized in one system and there is confidence in the data.
- Better corporate reporting, trending, and analysis.

Spreadsheets – good for data output, but NOT for data storage, especially with muliple users, locations, etc.

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What can be tracked in an EHS Database?

- Environmental Permits and conditions
- Inspections and audits
- Incidents
- Contaminations and Spills
- Waste Disposal
- Reclamation/Remediation projects
- Assessments (soil, water, veg)
- Water volumes
- Air emissions and GHG
- Other ‘non standard’ data (through attachments)

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Database Options

- Develop your own database (either in house or through software consultants)
  - Pro: can be a very custom solution.
  - Con: very tough as you are not and expert in software development and it usually becomes much more complex, and costly then anticipated.
- Buy a generic commercial EHS package
  - Pro: package software eliminates complexity of developing it yourself.
  - Con: compromises in now fitting it to your specific industry and company requirements.
- Buy an EHS package dedicated to upstream O & G
  - Pro: out of the box package is likely very close to your requirements.
  - Con: getting people to standardize and capture quality data will still be a challenge.

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Challenges

- Data Quality is Essential.
- End users are often Pumpers, Admin, Consultants etc. – not necessarily EHS experts, They are often collecting data on your behalf, so an easy to use system so that end users will provide quality data is essential.
- Customizing system to meet initial requirements, plus ongoing changes, is a must.
- Ongoing Corporate adherence to system means top Management commitment is required.

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Getting Started

- Management commitment is key to set overall direction but will also be required when it comes time for setting end user expectations on using the system.
- Identify the most important data you want to capture and report on and start there.
- Import legacy data into the new system so nothing is lost.
- Have a solid initial training program and ongoing support program to ensure quality and constancy of the data.
- Expand the project scope to other areas of usage only with the success of the initial project.

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