



Asset Optimization System



Our Mission is Helping You Achieve Sustainable Value Creation Through Asset Optimization

OptimaWell is a Knowledge-Based Company Assisted with Artificial Intelligence, Offering Socio Technical Solutions to Optimize Value in a Sustainable Manner, During Life Cycle of Challenging Assets

January 2026

OptimaWell Asset Optimization System

A Brief Description

Trist & Bamforth's seminal 1951 study on the effects of mechanization in UK coal mines revealed a crucial insight: productivity problems often arise when new technologies are introduced without considering their impact on human factors and the social work structure. They concluded that work processes should not be seen solely as technical systems (plants and machinery) or social systems (organization and relationships), but as integrated socio-technical systems.

*This foundational concept underpins the **OptimaWell Optimization System**, which delivers integrated solutions to create sustainable value, optimize productivity, and mitigate risks for complex natural and physical assets.*

Our "Value in 1, 2, and 3 (+V123)" approach offers a structured framework for asset optimization across three stages of maturity:

- 1. Short-term: Rapid response to capture low-hanging fruit.*
- 2. Mid-term: Designing integrated productivity solutions.*
- 3. Long-term: Developing scenarios for enhanced sustainable value.*

*Leveraging over 40 years of lessons learned from world-class assets, the **OptimaWell Optimization System** accelerates the analysis and diagnosis of complex, challenging-to-produce assets. We combine best practices in asset-based project and process management with cutting-edge data and knowledge systems to ensure robust outcomes.*

Our Integration Workshops further enhance sustainable value by combining:

- Life-cycle strategic asset planning.*
- Capability maturation processes.*
- Competitive technology intelligence.*
- Opportunity and risk identification.*

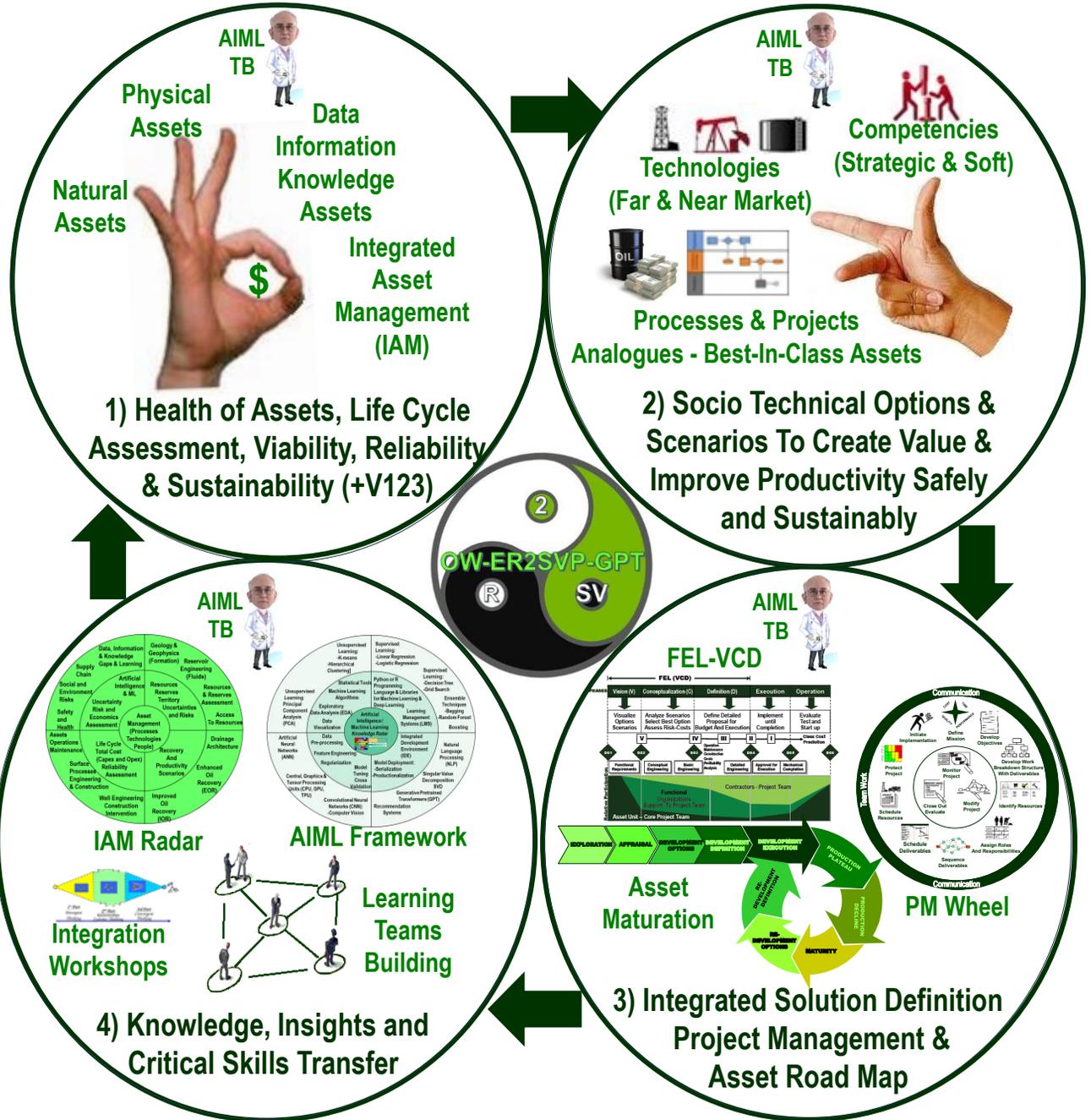
This approach enables the selection of the right technologies, processes, and competencies to design life-cycle scenarios that maximize value. It also helps define a clear strategy and asset reference plan to achieve sustainable, efficient, and effective production—while prioritizing safety, social responsibility, and environmental sustainability.

*The **OptimaWell Optimization System** is powered by artificial intelligence (AI) and machine learning tools, which analyze data and generate actionable insights to support informed decision-making.*

Moreover, the system fosters cross-project learning by providing high-quality baseline content and tools that use analogs for knowledge transfer. Through a unique toolbox combining engineering expertise, AI, systemic thinking, and role-playing games, we promote teamwork, innovation, and practical application.

*The **OptimaWell Optimization System** isn't just a tool—it's a paradigm shift for managing assets to produce more with less while ensuring long-term sustainability.*

Asset Optimization System



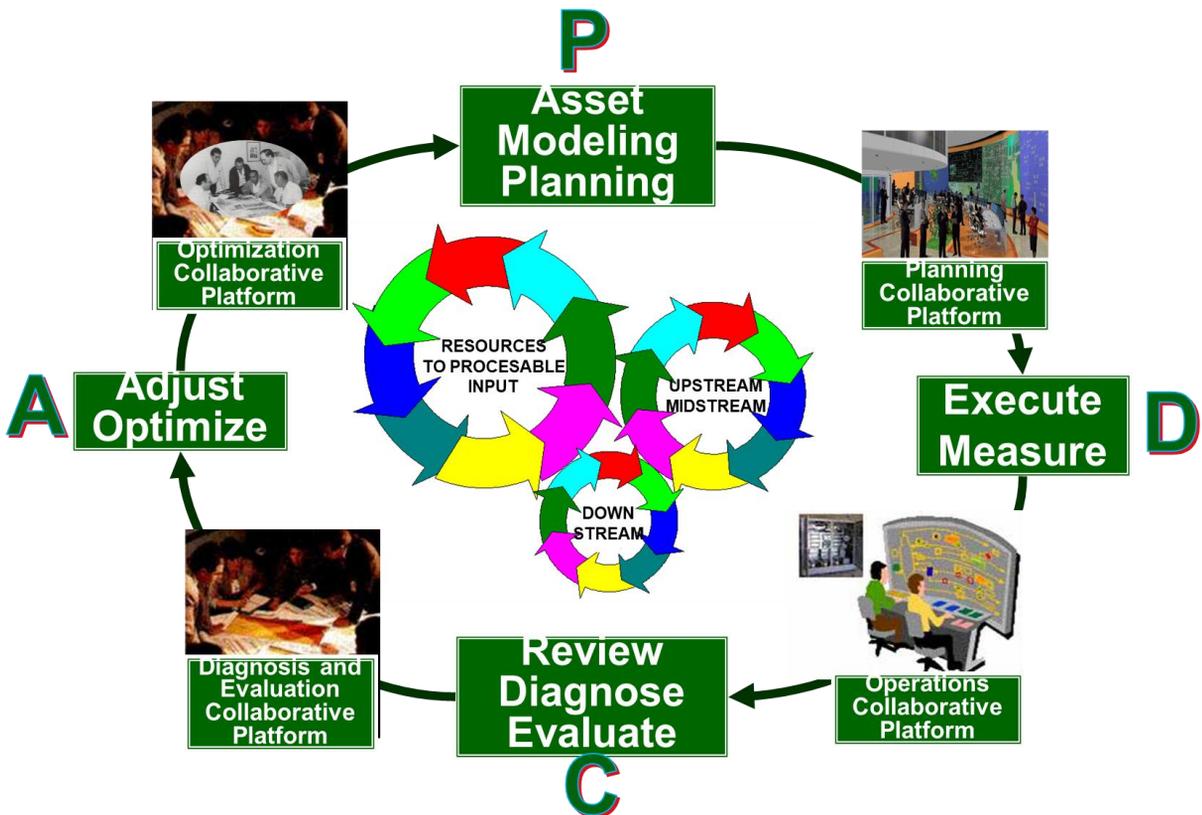
Asset Databases - Benchmarking – Reliability & Failure Statistics

Artificial Intelligence / Machine Learning Toolbox (AIML TB)

Asset Optimization System

ER2SVP GPT model - PDCA Cycle

The Asset Optimization System is powered by the OptimaWell ER2SVP-GPT model, which integrates generative artificial intelligence and pretrained transformer (GPT) algorithms. It leverages the PDCA (Plan-Do-Check-Act) cycle as a continuous improvement framework for asset optimization. This synergy provides a systematic approach to implementing changes while maximizing value and efficiency..



1) Health of Assets, Life Cycle Assessment, Viability, Reliability & Sustainability (+V123)



ID: C-ADIICAMP-8

Assessment Of Data And Information Requirements For Your Business Or Asset Plan And Preparation Of Measurement, Control, Automation and Optimization Asset Master Plan

ID: C-ADIICAMP-8

Description
This assessment addresses all production operations processes that occur from the sand face at the bottom of each producing or injection well up to the surface in the custody transfer point of the surface production system. All activities within processes are analyzed in terms of measurement and basic control, supervision and advanced control, optimization and finally business integration. Benefits and costs are evaluated and opportunities for value creation are ranked. This model has been used successfully in the oil and gas industry with actual examples that also can be used as analogs.

DATA INFORMATION KNOWLEDGE PYRAMID INSTRUMENTATION, CONTROL AND AUTOMATION

- STRATEGIC LEVEL**: Business Planning, Performance Evaluation
- TACTIC LEVEL**: Local and Global Optimization, Simulation and Modeling
- OPERATIONAL LEVEL**: Remote Surveillance and Control Strategies (SCADA), Process Analysis, Diagnosis & Troubleshooting
- Measurement and Basic Control (Wells and Installations)**: Data Acquisition, Local Autonomy, Sensors, RTUs, PLCs, Actuators

Outcomes

- Identification of data coming from each activity and process within the production system as well as the existing instrumentation, control and automation levels are mapped and analyzed to determine what decisions are made, which data bases and applications are using these data.
- Data reliability diagnosis and failure mode and effect analysis (FMEA) and risks assessment is performed for each data elements.
- Four levels of instrumentation, control and automation levels are assessed in terms of cost benefits for each failure mode and risks.
- Benefits are classified by their effect on reduction of production losses, operating costs, HSE related risks mitigation.
- Potential combination of options are visualized, and proposals are prepared.

Field (F)	ASC-RE	O-RE	AF
Reservoir (RE)	ASC-SI	O-SI	
Surface Installation (SI)	ASC-WH	O-WH	
Well Head (WH)	ASC-DA	O-DA	
Drainage Area (DA)			

INVESTMENTS (I)

BENEFITS (B)

Basic Supervision Control, Advanced Supervision Control, Optimized, Invest

Consulting

ID: C-ADE-LCAA-4

Analysis, Diagnosis of Production And Life Cycle Cost Assessment Of Physical And Technology Assets

ID: C-ADE-LCAA-4

Description
Check if your assets are performing the required functions to sustain resources recovery and reserves production. Identify capacity losses impacting your production system. Review if your current flow of data, information and decisions is supporting identification of failures, production losses and life cycle cost losses. This services will provide operators about health and performance of existing assets and identification of production losses which prevents achieving target volumes and costs.

Oil Production System Effectiveness

Mission Reliability, Operational Readiness, Performance Capability

Reservoir Functions, Well Functions, Surface Facilities Functions, Operations Functions

Potential, Capacity Losses (Reservoir), Capacity Losses (Wells), Capacity Losses (Surface), Capacity Losses (Operations)

Outcomes

- High level risk assessment with hazard identification and risk ranking including a review of the criteria for risks under the ALARP classification.
- Detailed assessment for assets showing high risk levels using failure mode and effect analysis, fault trees and action plan to achieve acceptable levels of volumes and life cycle cost performance.
- Production allocation and reporting process assessment and production losses associated causes and action plan life cycle status and recommendations.
- Data and information flow and decisions process supporting production losses and life cycle cost management.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

RISK ASSESSMENT

Hazard Identification, Consequence Analysis, Risk Calculation, Risk Acceptability, Risk Ranking

DESIGNED RISK ASSESSMENT

Reliability-Based Data Base, Failure Modes and Effect Study (FMEA), Failure Modes and Effect Study (FMEA), Fault Tree Analysis (FTA)

Design: Acquisition Cost AC, Commissioning

Operation Maintenance: Downtime Failure

Decommissioning

Life Cycle Cost LCC

1) Health of Assets, Life Cycle Assessment, Viability, Reliability & Sustainability (+V123)



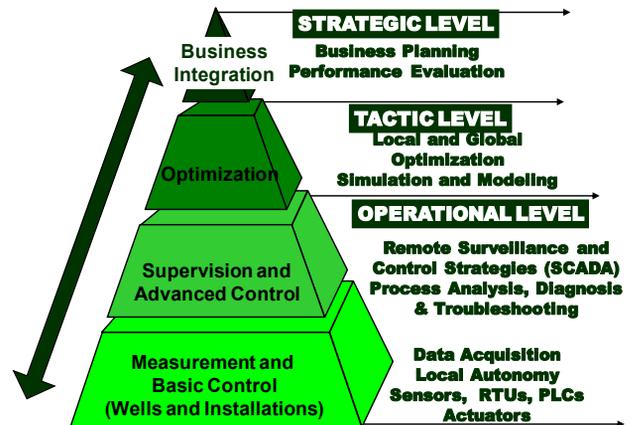
ID: C-ADIICAMP-8

Assessment Of Data And Information Requirements For Your Business Or Asset Plan And Preparation Of Measurement, Control, Automation and Optimization Asset Master Plan

Description

This assessment addresses all production operations processes that occur from the sand face at the bottom of each producing or injection well up to the surface in the custody transfer point of the surface production system. All activities within processes are analyzed in terms of measurement and basic control, supervision and advanced control, optimization and finally business integration. Benefits and costs are evaluated and opportunities for value creation are ranked. This model has been used successfully in the oil and gas industry with actual examples that also can be used as analogs.

DATA INFORMATION KNOWLEDGE PYRAMID INSTRUMENTATION, CONTROL AND AUTOMATION



Field (F)			O-F	A-F
Reservoir (RE)		ASC-RE	O-RE	
Surface Installation (SI)	BSC-SI	ASC-SI	O-SI	
Well Head (WH)		ASC-WH	O-WH	
Drainage Area (DA)		ASC-DA	O-DA	
	Basic Supervision Control	Advanced Supervision Control	Optimized	Asset

BENEFITS (\$)

INVESTMENTS (\$)

Outcomes

- Identification of data coming from each activity and process within the production system as well as the existing instrumentation, control and automation levels are mapped and analyzed to determine what decisions are made, which data bases and applications are using these data.
- Data reliability diagnosis and failure mode and effect analysis (FMEA) and risks assessment is performed for each data elements.
- Four levels of instrumentation, control and automation levels are assessed in terms of cost benefits for each failure mode and risks.
- Benefits are classified by their effect on reduction of production losses, operating costs, HSE related risks mitigation.
- Potential combination of options are visualized, and proposals are prepared.

1) Health of Assets, Life Cycle Assessment, Viability, Reliability & Sustainability (+V123)



ID: C-ADE-LCAA-4

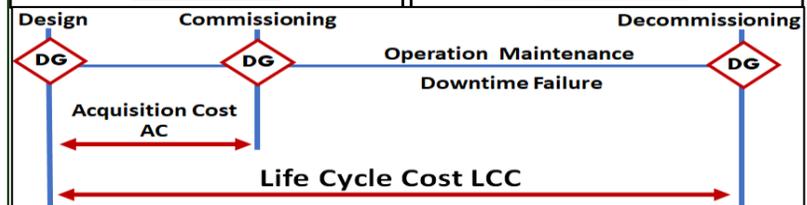
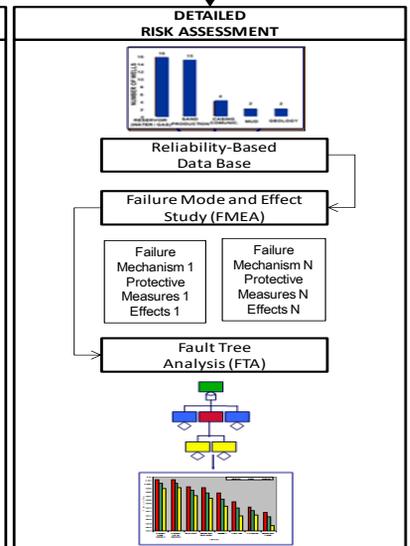
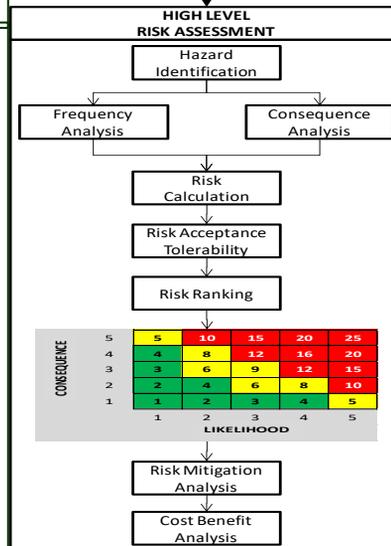
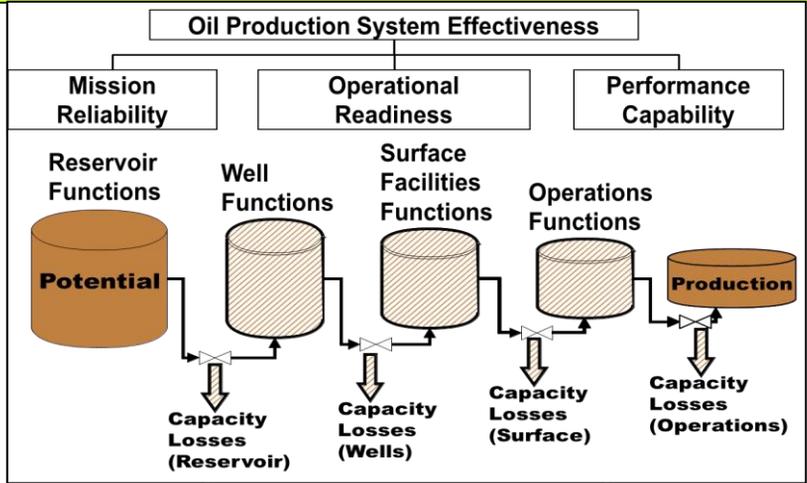
Analysis, Diagnosis of Production And Life Cycle Cost Assessment Of Physical And Technology Assets

Description

Check if your assets are performing the required functions to sustain resources recovery and reserves production. Identify capacity losses impacting your production system. Review if your current flow of data, information and decisions is supporting identification of failures, production losses and life cycle cost losses. This services will provide operators about health and performance of existing assets and identification of production losses which prevents achieving target volumes and costs.

Outcomes

- High level risk assessment with hazard identification and risk ranking including a review of the criteria for risks under the ALARP classification.
- Detailed assessment for assets showing high risk levels using failure mode and effect analysis, fault trees and action plan to achieve acceptable levels of volumes and life cycle cost performance.
- Production allocation and reporting process assessment and production losses associated causes and action plan life cycle status and recommendations.
- Data and information flow and decisions process supporting production losses and life cycle cost management.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.





OptimaWell

2) Socio Technical Options & Scenarios To Create Value & Improve Productivity Safely and Sustainably



ID: C-PCORRT-5

Production Control and Optimization Rapid Response Team (Single Asset Or Portfolio Of Assets)

Description
We provide combined expertise to review a producing field from reservoir to export with the objective of identifying opportunities to boost production, drive down operating costs and to agree on a work plan to realized the benefits and execute further in-depth analysis in particular components of the system. This service consists of immediate identification of the capacities and limitations of the current production system base line by a team that review all processes that support the flow of field data and information and analyze available daily production potential distribution from reservoirs and wells, producing the first map of production volumes.

<p>Production Method Analysis</p> <ul style="list-style-type: none"> Production losses identification, root cause analysis and design of correction actions plan Nodal analysis and method optimization Artificial lift method change analysis 	<p>Surface Network and Facility Analyses</p> <ul style="list-style-type: none"> Measurement and accounting with volumes allocation to wells and reservoirs Instrumentation and control diagnosis De-bottlenecking, separation, treatment
<p>Drainage Area Candidate Recognition</p> <ul style="list-style-type: none"> Production potential vs daily production Formation damage assessment Reservoir-well connectivity analysis Non wanted water & gas diagnosis 	<p>General Reservoir Revision</p> <ul style="list-style-type: none"> Resources and reserves review Partially drained areas Abnormal fluid distribution Rock quality and fluid pressures distribution

Outcomes

- Review and analysis of field production data process (data capture, validation, uploading and management) and identification and classification of problems associated to field production data flow
- Production volume losses identification, root cause analysis and correction action plan
- Identification of underperforming wells, production problems, failure modes, root cause analysis
- Classification of problem causes and recommendations for handling them at operational level.
- Activity-based cost and time cycle analysis and preparation of a project execution plan with benefits and costs
- Knowledge transfer through mentoring during project execution (optionally: field work, field visits)
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

ID: C-IOR-ASD-3

Improved Oil Recovery and Productivity Opportunity Assessment, Candidate Selection and Solution Design

Description
Optimize oil and gas recovery and productivity from your existing wells - Make sure your wells are producing at their potential - Get another view of your current reservoir exploitation plan and operations. This best practice has been applied in thousand of wells in different kind of reservoirs and types of hydrocarbons. The aim is to provide recovery and productivity integrated solutions and independent, unbiased advice to select the best combination of technologies for your reservoir exploitation plan.

Outcomes

- Evaluation of individual wells performance with identification of opportunities to improve recovery and productivity and visualization of scenarios for integrated solutions with cost estimates, risk assessment and economic evaluation.
- Identification of opportunities for re-development or re-exploration of existing areas of the asset.
- Definition of improved recovery and productivity integrated solutions using front end loading FEL-VCD and preparation of execution plan including coordinating the participation of service companies that are providing new products and services for each solution.
- Implementation of plan by coaching and mentoring a project team assigned by operating company.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

ID: C-RRMPA-6

Resources And Reserves Management Process Assessment

Description
This service provides a review of the hydrocarbon life cycle from undiscovered to discovered resources, reserves and production in order to improve your performance in resources and reserves management. This service range from short assessments to full implementation of a resources and reserves management process with all options, so the customer decides which one is best for their business needs.

Outcomes

- Assessment of current data and process including identification of uncertainties and barriers.
- Identification of opportunities for process improvement by addressing uncertainties and barriers
- Short workshops typically 1 to 3 days to review hydrocarbon volumes life cycle activities, PRMS 2007 guidelines and experiences from existing resources and reserves systems that are being used in several countries.
- Feasibility analysis for application of software solutions depending on the size of the resource base or implementation of simple applications using standard commercial software.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

2) Socio Technical Options & Scenarios To Create Value & Improve Productivity Safely and Sustainably



ID: C-PCORRT-5

Production Control and Optimization Rapid Response Team (Single Asset Or Portfolio Of Assets)

Description

We provide combined expertise to review a producing field from reservoir to export with the objective of identifying opportunities to boost production, drive down operating costs and to agree on a work plan to realized the benefits and execute further in-depth analysis in particular components of the system.

This service consists of immediate identification of the capacities and limitations of the current production system base line by a team that review all processes that support the flow of field data and information and analyze available daily production potential distribution from reservoirs and wells, producing the first map of production volumes.

Production Method Analysis

- Production losses identification, root cause analysis and design of correction actions plan
- Nodal analysis and method optimization
- Artificial lift method change analysis



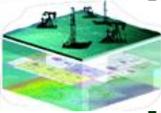
Surface Network and Facility Analyses

- Measurement and accounting with volumes allocation to wells and reservoirs
- Instrumentation and control diagnosis
- De-bottlenecking, separation, treatment



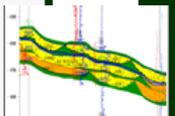
Drainage Area Candidate Recognition

- Production potential vs. daily production
- Formation damage assessment
- Reservoir-well connectivity analysis
- Non wanted water & gas diagnosis



General Reservoir Revision

- Resources and reserves review
- Partially drained areas
- Abnormal fluid distribution
- Rock quality and fluid pressures distribution



Outcomes

- Review and analysis of field production data process (data capture, validation, uploading and management) and identification and classification of problems associated to field production data flow
- Production volume losses identification, root cause analysis and correction action plan
- Identification of underperforming wells, production problems, failure modes, root cause analysis
- Classification of problem causes and recommendations for handling them at operational level.
- Activity-based cost and time cycle analysis and preparation of a project execution plan with benefits and costs
- Knowledge transfer through mentoring during project execution (optionally: field work, field visits)
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

2) Socio Technical Options & Scenarios To Create Value & Improve Productivity Safely and Sustainably



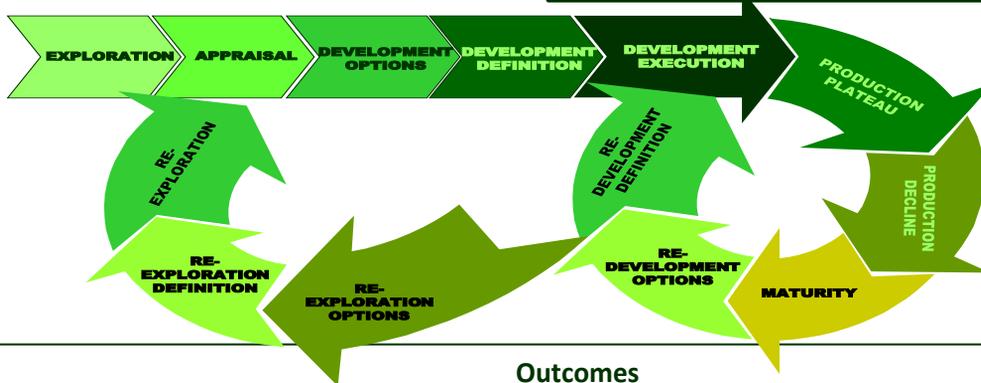
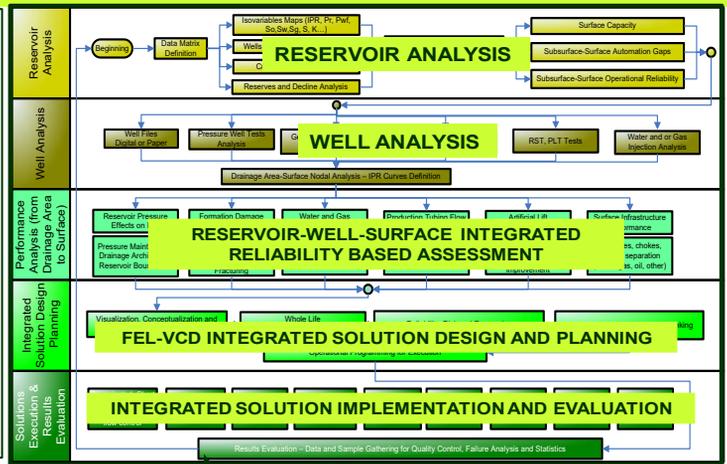
ID: C-IOR-ASD-3

Improved Oil Recovery and Productivity Opportunity Assessment, Candidate Selection and Solution Design

Description

Optimize oil and gas recovery and productivity from your existing wells – Make sure your wells are producing at their potential – Get another view of your current reservoir exploitation plan and operations

This best practice has been applied in thousand of wells in different kind of reservoirs and types of hydrocarbons. The aim is to provide recovery and productivity integrated solutions and independent, unbiased advice to select the best combination of technologies for your reservoir exploitation plan.



Outcomes

- Evaluation of individual wells performance with identification of opportunities to improve recovery and productivity and visualization of scenarios for integrated solutions with cost estimates, risk assessment and economic evaluation.
- Identification of opportunities for re-development or re-exploration of existing areas of the asset.
- Definition of improved recovery and productivity integrated solutions using front end loading FEL-VCD and preparation of execution plan including coordinating the participation of service companies that are providing new products and services for each solution.
- Implementation of plan by coaching and mentoring a project team assigned by operating company.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

2) Socio Technical Options & Scenarios To Create Value & Improve Productivity Safely and Sustainably



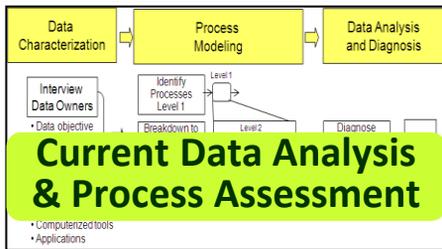
ID: C-RRMPA-6

Resources And Reserves Management Process Assessment

Description

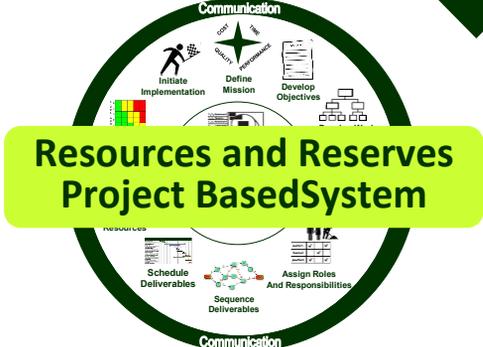
This service provides a review of the hydrocarbon life cycle from undiscovered to discovered resources, reserves and production in order to improve your performance in resources and reserves management.

This service range from short assessments to full implementation of a resources and reserves management process with all options, so the customer decides which one is best for their business needs.



Adopting/Adapting Petroleum Reserves Management System PRMS 2018 Guidelines

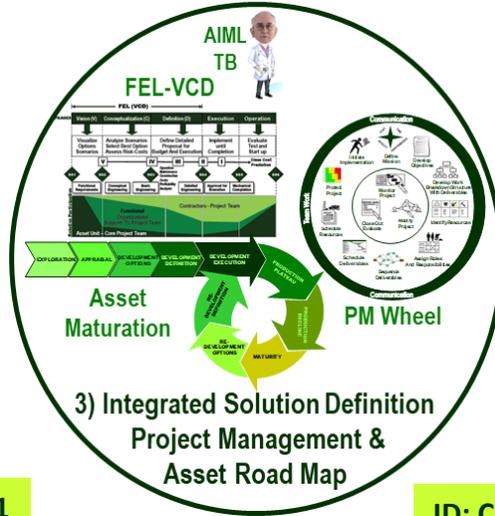
USE OF EXPERIENCES FROM EXISTING RESOURCES AND RESERVES SYSTEMS



Outcomes

- Assessment of current data and process including identification of uncertainties and barriers.
- Identification of opportunities for process improvement by addressing uncertainties and barriers
- Short workshops typically 1 to 3 days to review hydrocarbon volumes life cycle activities, PRMS 2018 guidelines and experiences from existing resources and reserves systems that are being used in several countries.
- Feasibility analysis for application of software solutions depending on the size of the resource base or implementation of simple applications using standard commercial software.
- Appraisal of competencies vs. required levels for application and preparation of a learning plan.

3) Integrated Solution Definition, Project Management & Asset Road Map



ID: C-FELVCD-1

Opportunity Identification and Definition Of Projects (O-FEL) For All Phases Of Asset Life Cycle (Opportunity to Abandonment)

Description
Review your existing asset business reference plan using O-FEL (VCD) and you will be surprised of the many opportunities you could be missing compared to traditional approaches. Combine O-FEL (VCD) with your existing subsurface integrated studies to get another level of oil and gas business performance. This consulting services provides support for implementation of Opportunity-Front-End Loading (OFEL) which stands for Opportunity Identification (O), Visualization (V), Concept (C) and Definition (D). This best practice for asset maturation is used in successful asset projects and can be applied in natural and physical assets undergoing different phases of asset life cycle (discovery, development, production until abandonment). Implementation of O-FEL will bring a new portfolio of opportunities for optimizing total cost (capital and operational expenditures) and project time cycle while mitigating risks, achieving economic return and productivity goals.

Outcomes

- Business asset modeling, life of asset assessment, evaluation of existing projects and asset plan to identify value added after application of O-FEL and preparation of proposal to improve your existing business plan.
- Implementation of O-FEL methodology, tools and complexity and definition indices using a rapid implementation method that focuses on results project by project.
- Design of O-FEL indices to optimize your project management process by measuring complexity, level of definition (maturity), project performance and reliability of operations.
- Appraisal of competencies vs. required levels for application of O-FEL and preparation of a learning plan.

ID: C-WCP-VCD-FEL-2

Well Construction And Intervention Project Management Using FEL-VCD

Description
Review and improve your well construction and intervention project portfolio by applying FEL-VCD. Implementation of project management and front-end loading (FEL-VCD) to your well construction and intervention project portfolio. This tool will allow any operator to have an independent, impartial assessment of industry services, products and equipment and it is a practice used by operators worldwide.

Outcomes

- Evaluation of well construction or intervention projects to identify value added after application of FEL (VCD).
- Visualization of scenarios and well cost estimates for all phases of the hydrocarbon life cycle.
- Coaching and facilitation of conceptual and detailed well completion design including participation of service companies that are providing new technologies.
- Design of indices to optimize your project management process by measuring complexity, level of definition, project performance and reliability of operations.
- Appraisal of competencies vs. required levels for application of FEL (VCD) and preparation of a learning plan.
- Implementation of FEL (VCD) methodology, tools and indices in your company using a rapid method.

ID: C-IETPP-7

Independent Evaluation Of Technologies (Technology Intelligence and Pilot Projects)

Description
We offer assistance for technology intelligence and pilot projects during all phases of the life cycle from project initiation with the screening and feasibility analysis, preparation of the project execution plan, field assistance during evaluation and evaluation of results to support decision on proceeding to commercial project plan. We have the experience of running integrated field laboratories which is a particular application of this service to integrated multidisciplinary evaluation of selected areas that can be scaled up to the totality of the reservoir. This service includes appraisal of competencies and preparation of a learning plan to support the change management process to ensure a successful massive application of the technology being tested.

Outcomes

- Project initiation document (charter)
- Technology identification and economics Design of heavy oil field pilot tests including data acquisition, analysis and interpretation process adapted to the requirements of technologies under evaluation.
- Project execution plan (PEP) with resources sequence and schedule, roles and responsibilities matrix for each resource and pilot project activity
- Results evaluation and preparation of technology implementation plan at massive scale.
- Competency assessment and development plan for asset team members.

ID: C-ISHERA-9

Integrated Health, Safety And Environmental Risk Assessment And System Implementation

Description
We carry out technical reviews for new and existing assets. The objective is to assess all safety, operability and environmental aspects of your assets. We use an integrated health, safety and environmental risk assessment methodology where risks are analyzed, evaluated and mitigation strategies are organized into a system that is implemented in phases that triggers a learning curve and a culture that can be measured and monitored by the members of the asset team.

Outcomes

- Major risks and priorities (risk ranking)
- Program for risk control
- Strategy for risk reduction
- Identification of needs for in-depth studies
- Continuous risk evaluation process, tools and competences to support risk control program and risk reduction strategy
- Establish where the organization is in terms of risk management (who, what and how)
- Develop or update criteria for intolerable, tolerable and broadly accepted risks
- HSE competency development plan for all members of the asset team.

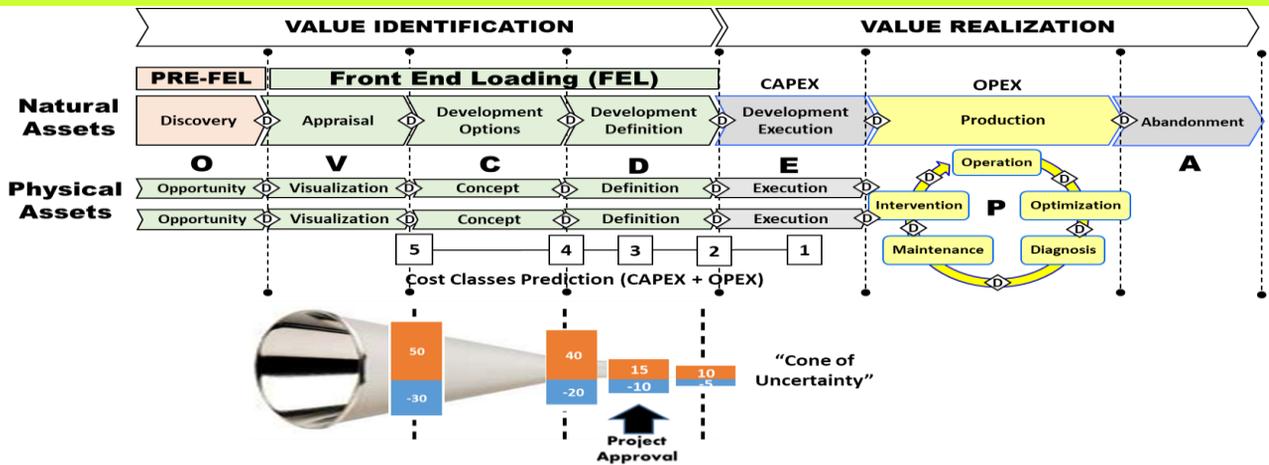
"The first duty of business is to survive, and a guiding principle of business is the avoidance of loss - not only the maximisation of profit"

3) Integrated Solution Definition, Project Management & Asset Road Map



ID: C-FELVCD-1

Opportunity Identification and Definition Of Projects (O-FEL) For All Phases Of Asset Life Cycle (Opportunity to Abandonment)



Description

Review your existing asset business reference plan using O-FEL (VCD) and you will be surprised of the many opportunities you could be missing compared to traditional approaches. Combine O-FEL (VCD) with your existing subsurface integrated studies to get another level of oil and gas business performance.

This consulting services provides support for implementation of Opportunity-Front-End Loading (OFEL) which stands for Opportunity Identification (O), Visualization (V), Concept (C) and Definition (D). This best practice for asset maturation is used in successful asset projects and can be applied in natural and physical assets undergoing different phases of asset life cycle (discovery, development, production until abandonment). Implementation of O-FEL will bring a new portfolio of opportunities for optimizing total cost (capital and operational expenditures) and project time cycle while mitigating risks, achieving economic return and productivity goals.

Outcomes

- Business asset modeling, life of asset assessment, evaluation of existing projects and asset plan to identify value added after application of O-FEL and preparation of proposal to improve your existing business plan.
- Implementation of O-FEL methodology, tools and complexity and definition indices using a rapid implementation method that focuses on results project by project.
- Design of O-FEL indices to optimize your project management process by measuring complexity, level of definition (maturity), project performance and reliability of operations.
- Appraisal of competencies vs. required levels for application of O-FEL and preparation of a learning plan.

3) Integrated Solution Definition, Project Management & Asset Road Map



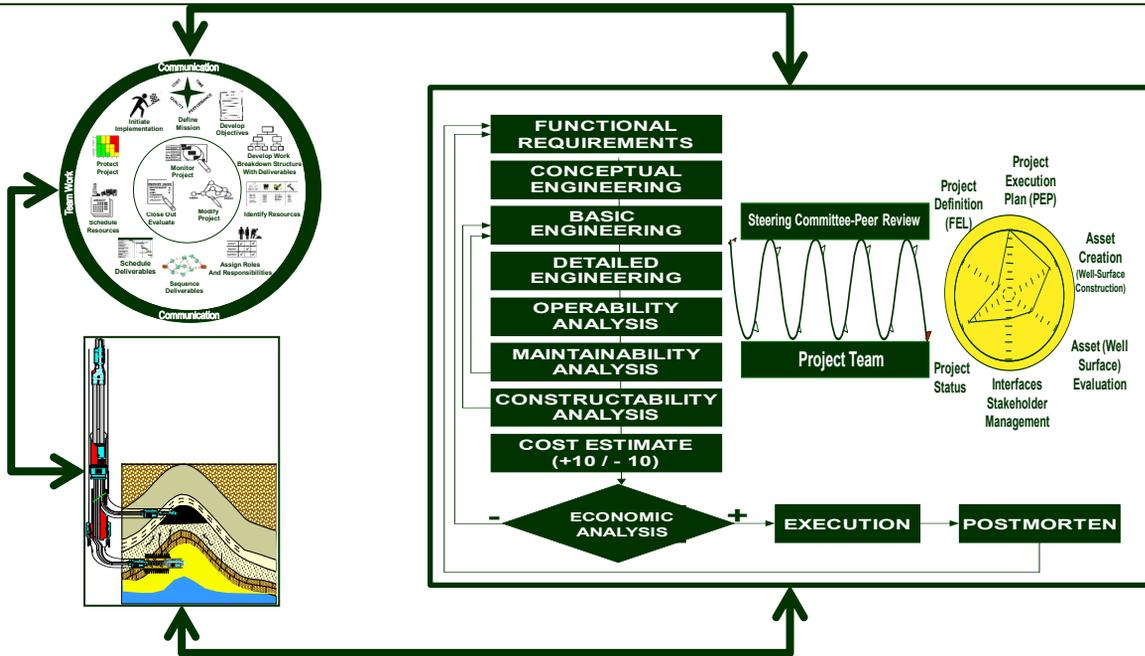
ID: C-WCP-VCDFEL-2

Well Construction And Intervention Project Management Using FEL-VCD

Description

Review and improve your well construction and intervention project portfolio by applying FEL-VCD.

Implementation of project management and front-end loading (FEL-VCD) to your well construction and intervention project portfolio. This tool will allow any operator to have an independent, impartial assessment of industry services, products and equipment and it is a practice used by operators worldwide.



Outcomes

- Evaluation of well construction or intervention projects to identify value added after application of FEL (VCD).
- Visualization of scenarios and well cost estimates for all phases of the hydrocarbon life cycle.
- Coaching and facilitation of conceptual and detailed well completion design including participation of service companies that are providing new technologies .
- Design of indices to optimize your project management process by measuring complexity, level of definition, project performance and reliability of operations.
- Appraisal of competencies vs. required levels for application of FEL (VCD) and preparation of a learning plan.
- Implementation of FEL (VCD) methodology, tools and indices in your company using a rapid method.

3) Integrated Solution Definition, Project Management & Asset Road Map

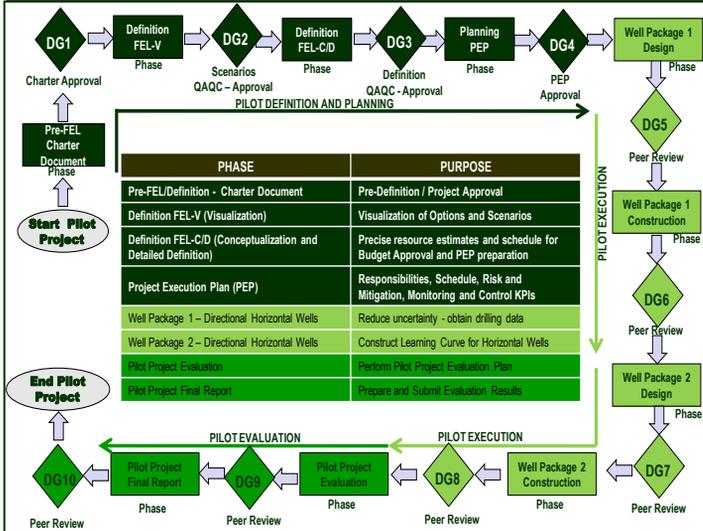
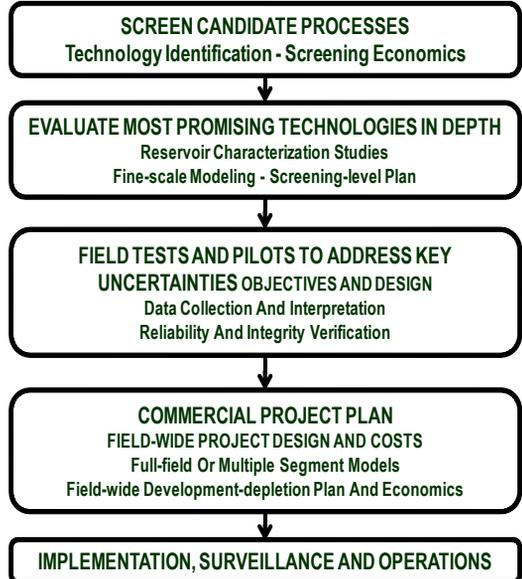


ID: C-IETPP-7

Independent Evaluation Of Technologies (Technology Intelligence and Pilot Projects)

Description

We offer assistance for technology intelligence and pilot projects during all phases of the life cycle from project initiation with the screening and feasibility analysis, preparation of the project execution plan, field assistance during evaluation and evaluation of results to support decision on proceeding to commercial project plan. We have the experience of running integrated field laboratories which is a particular application of this service to integrated multidisciplinary evaluation of selected areas that can be scaled up to the totality of the reservoir. This service includes appraisal of competencies and preparation of a learning plan to support the change management process to ensure a successful massive application of the technology being tested.



Outcomes

- Project initiation document (charter)
- Technology identification and economics
- Design of heavy oil field pilot tests including data acquisition, analysis and interpretation process adapted to the requirements of technologies under evaluation.
- Project execution plan (PEP) with resources sequence and schedule, roles and responsibilities matrix for each resource and pilot project activity
- Results evaluation and preparation of technology implementation plan at massive scale.
- Competency assessment and development plan for asset team members.

3) Integrated Solution Definition, Project Management & Asset Road Map

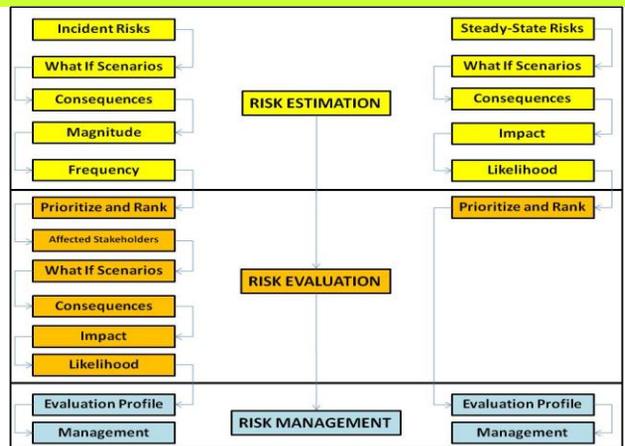


ID: C-ISHERA-9

Integrated Health, Safety And Environmental Risk Assessment And System Implementation

Description

We carry out technical reviews for new and existing assets. The objective is to assess all safety, operability and environmental aspects of your assets. We use an integrated health, safety and environmental risk assessment methodology where risks are analyzed, evaluated and mitigation strategies are organized into a system that is implemented in phases that triggers a learning curve and a culture that can be measured and monitored by the members of the asset team.



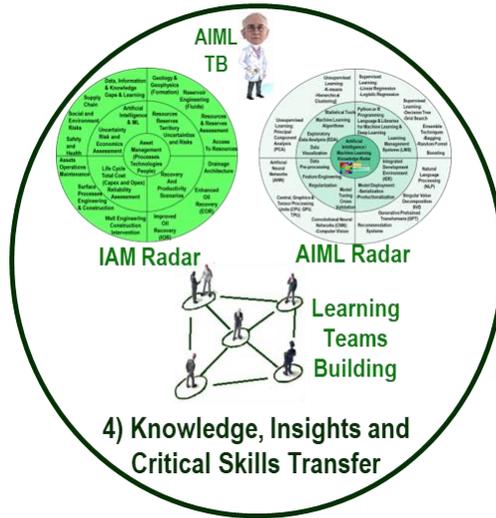
Description	Personnel	Assets	Environment	Reputation	Increasing probability				
					1	2	3	4	5
1 Catastrophic	Multiple fatalities	Loss of an asset vessel / structure	Major environmental releases, international attention	Global and local operations and reputation	Highly unlikely (PH=0.0001)	Unlikely (PH=0.001)	Likely (PH=0.01)	Probable (PH=0.1)	Frequent (PH=1)
4 Severe	Process safety death / Multiple severe injuries	Major damage to asset affecting its use or significant project delay	Major release and health for recovery	Significant attention from national media and NGOs					
3 Significant	Single injury / Multiple minor injuries	Significant damage to asset	Significant release and need for recovery	Authority and public attention					
2 Minor	Process minor injury	Minor equipment damage requiring repair	Minor release to environment	Limited authority attention					
1 Negligible	Low potential for injury	Minor damage not affecting operations	Minor release with no impact to the	Limited local attention					

Outcomes

- Major risks and priorities (risk ranking)
- Program for risk control
- Strategy for risk reduction
- Identification of needs for in-depth studies
- Continuous risk evaluation process, tools and competences to support risk control program and risk reduction strategy
- Establish where the organization is in terms of risk management (who, what and how)
- Develop or update criteria for intolerable, tolerable and broadly accepted risks
- HSE competency development plan for all members of the asset team.

“The first duty of business is to survive, and a guiding principle of business is the avoidance of loss - not only the maximisation of profit”

4) Knowledge, Insights and Critical Skills Transfer



ID: C-AI-SPFA-11

Artificial Intelligence Opportunity Assessment, Strategy and Plan for Implementation

Description

This service is executed by interacting with business staff data owners using interviews, surveys and assessment tools which are the result of successful experiences in the industry. We offer proven methodologies to review existing data and information flow for processes & projects, computerized tools and AI applications currently in use. We compare the maturity of AI-based systems vs. best-in-class similar assets, to generate a portfolio of opportunities for AI applications that are evaluated with multiple indices.

Outcomes

- Assessment of AI maturity vs. challenges (risks, uncertainties, opportunities and barriers).
- Review life cycle activities, AI guidelines and experiences from existing systems that are being used.
- Feasibility analysis for application of AI using standard commercial software or tailor-made solutions.
- Strategy for closing AI gaps including identification of learning while doing learning activities.
- Data and information availability and quality required to train AI models for core processes and projects.
- AI Competency maps coupled to workflows within projects and processes for easy implementation.
- Options and scenarios for AI-based solutions for improvement by addressing risks, and barriers
- Strategy and business plan with options and scenarios for decision making and implementation.

Delivery Of Tailor-Made, Fit-For-Purpose, Just-In-Time On-The-Job Onsite or Remote Training And Mentoring Artificial Intelligence Implementation Plan Aligned To Your Business Goals And People's Talents

ID: C-ABCA-LMP-10

Activity-based Competency Assessment For An Asset And Preparation Of Learning Master Plan

Description

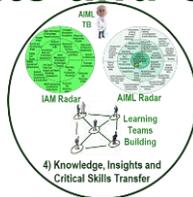
We provide an activity-based competency assessment to satisfy the specific learning needs of your projects and processes. We design a result oriented, learning while doing mentoring, facilitation and coaching program to be executed as part of the business plan. This service is executed by interacting with your staff using interviews, surveys and competency assessment tools which are the result of successful experiences in the oil and gas industry. We offer proven methodologies.

Outcomes

- Strategy for closing competencies gaps using learning while doing activities.
- Competency maps coupled to workflows within projects and processes for easy implementation of knowledge.
- Learning plans for exploration and production assets and projects
- Teaching and mentoring programs adapted to customer's particular reservoir needs.
- Permanent follow up, evaluation and adjustments as part of execution of the learning plan.

Delivery Of Taylor Made, Fit For Purpose, Just In Time On The Job Onsite/Remote Training And Mentoring Plan Aligned To Your Business Goals And People's Talents

4) Knowledge, Insights and Critical Skills Transfer

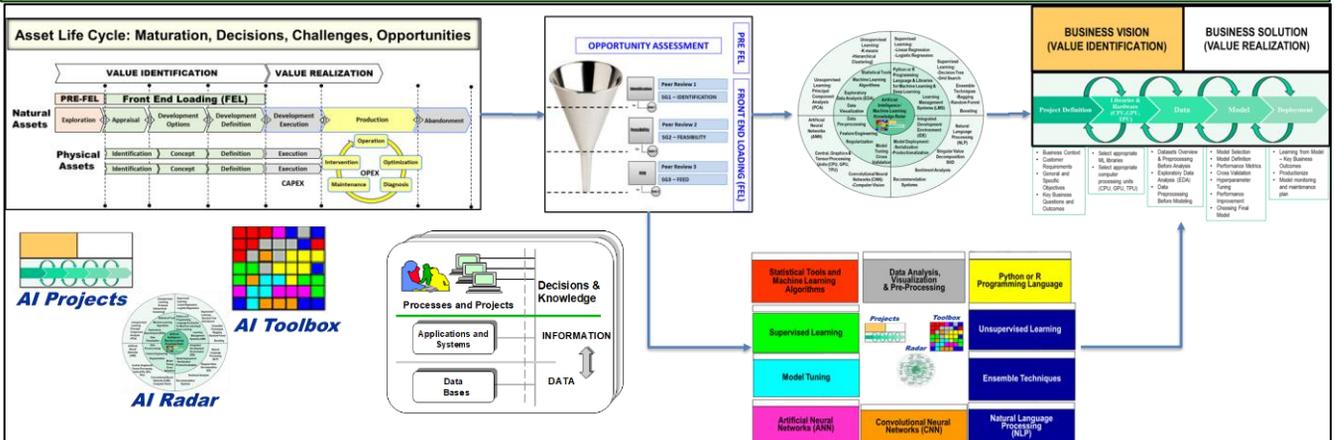


ID: C-AI-SPFA-11

Artificial Intelligence Opportunity Assessment, Strategy and Plan for Implementation

Description

This service is executed by interacting with business staff data owners using interviews, surveys and assessment tools which are the result of successful experiences in the industry. We offer proven methodologies to review existing data and information flow for processes & projects, computerized tools and AI applications currently in use. We compare the maturity of AI-based systems vs. best-in-class similar assets, to generate a portfolio of opportunities for AI applications that are evaluated with multiple indices.

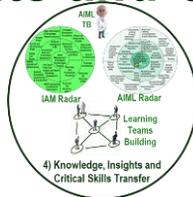


Outcomes

- Assessment of AI maturity vs. challenges (risks, uncertainties, opportunities and barriers).
- Review life cycle activities, AI guidelines and experiences from existing systems that are being used.
- Feasibility analysis for application of AI using standard commercial software or tailor-made solutions.
- Strategy for closing AI gaps including identification of learning while doing learning activities.
- Data and information availability and quality required to train AI models for core processes and projects.
- AI Competency maps coupled to workflows within projects and processes for easy implementation.
- Options and scenarios for AI-based solutions for improvement by addressing risks, and barriers
- Strategy and business plan with options and scenarios for decision making and implementation.

Delivery Of Tailor-Made, Fit-For-Purpose, Just-In-Time On-The-Job Onsite or Remote Training And Mentoring Artificial Intelligence Implementation Plan Aligned To Your Business Goals And People's Talents

4) Knowledge, Insights and Critical Skills Transfer

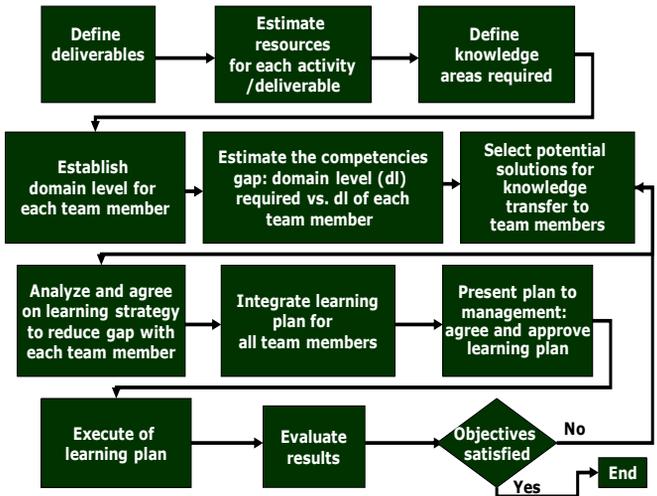
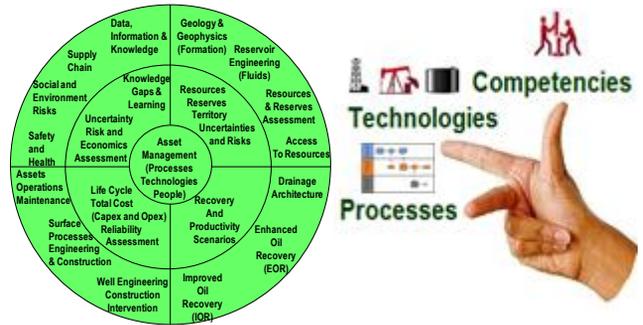


ID: C-ABCA-LMP-10

Activity-based Competency Assessment For An Asset And Preparation Of Learning Master Plan

Description

We provide an activity-based competency assessment to satisfy the specific learning needs of your projects and processes. We design a result oriented, learning while doing mentoring, facilitation and coaching program to be executed as part of the business plan. This service is executed by interacting with your staff using interviews, surveys and competency assessment tools which are the result of successful experiences in the oil and gas industry. We offer proven methodologies.

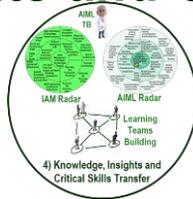


Outcomes

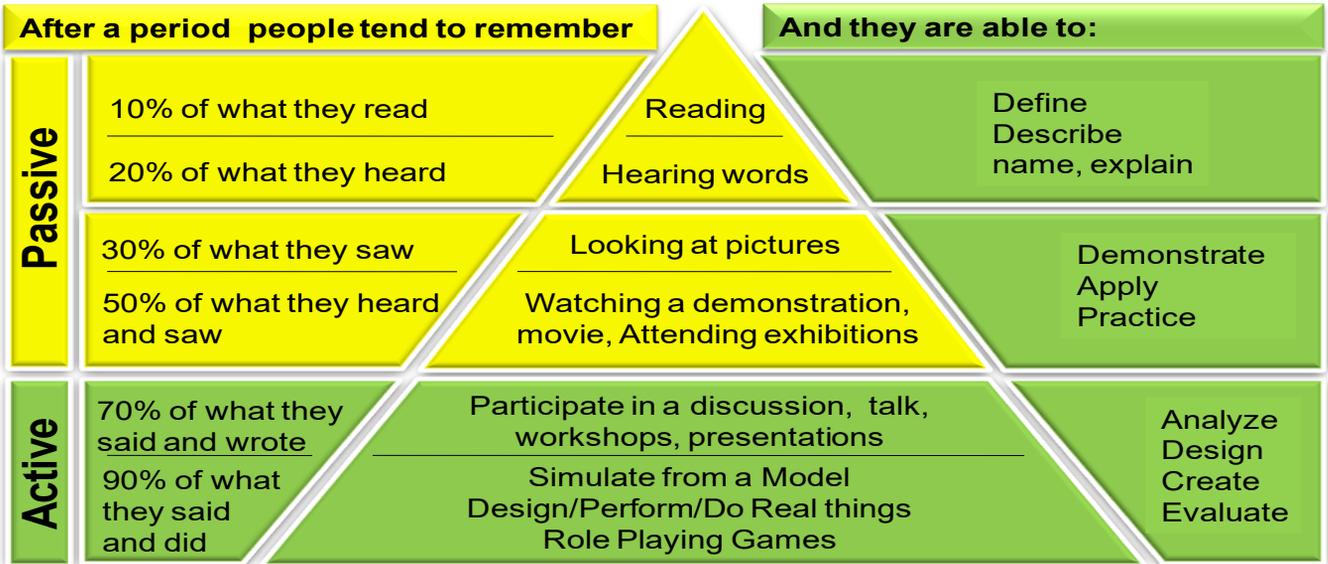
- Strategy for closing competencies gaps using learning while doing activities.
- Competency maps coupled to workflows within projects and processes for easy implementation of knowledge.
- Learning plans for exploration and production assets and projects
- Teaching and mentoring programs adapted to customer's particular reservoir needs.
- Permanent follow up, evaluation and adjustments as part of execution of the learning plan.

Delivery Of Taylor Made, Fit For Purpose, Just In Time On The Job Onsite/Remote Training And Mentoring Plan Aligned To Your Business Goals And People's Talents

4) Knowledge, Insights and Critical Skills Transfer



Active Learning Strategy



Adapted from the original Edgar Dale's Cone of Learning

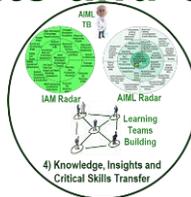
OptimaWell uses an active learning strategy which accounts for 70% or more of the learning process as shown in the adapted Dale's Cone of Learning model).

Our methodologies are based on our experience in the oil and gas industry with knowledge management tools designed to close the loop with results and can be translated into business value. In each learning while doing activity we facilitate teamwork, mentoring, communities of best practices, learning before during and after projects.

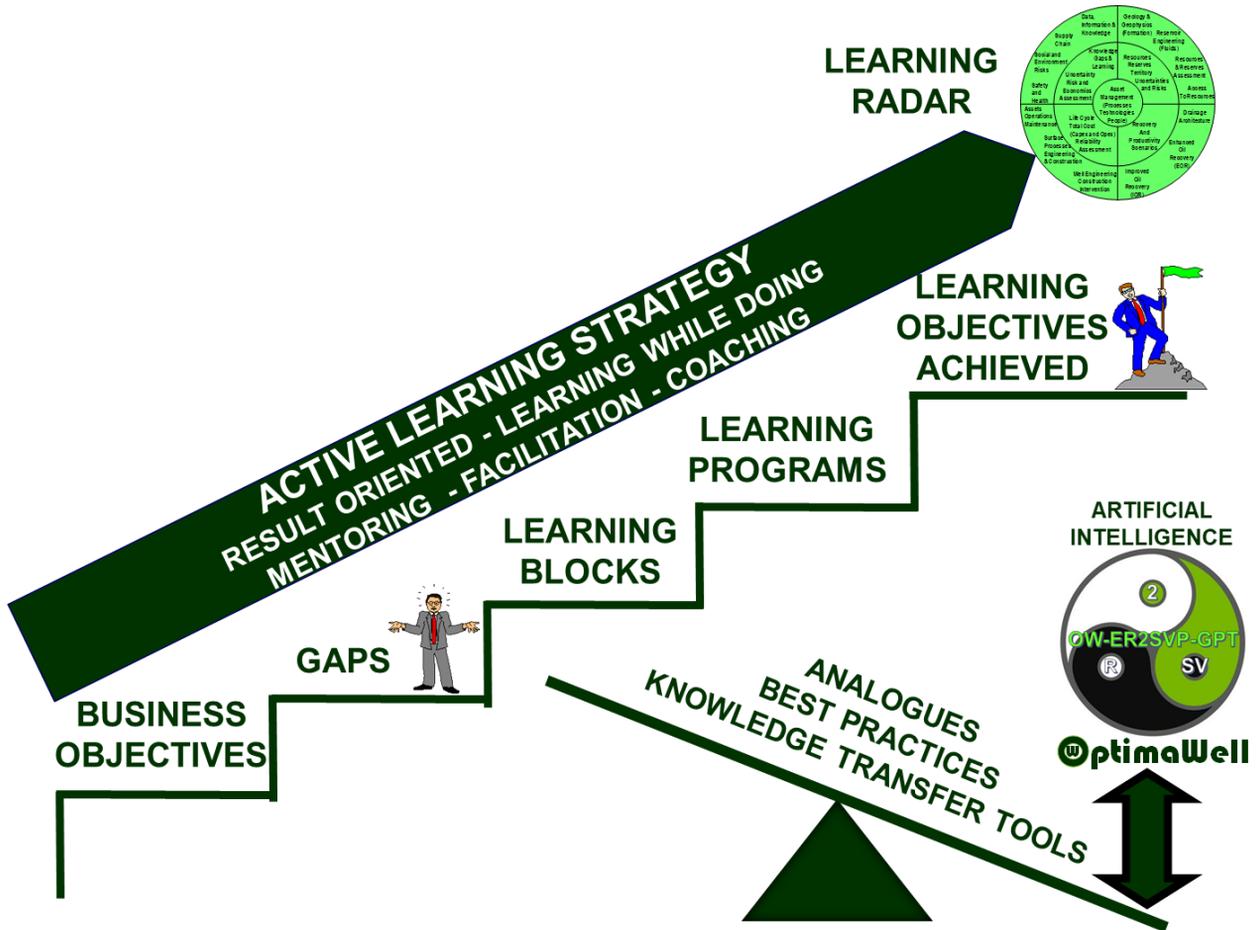
All our services, training and products are designed to **leverage** your learning needs which are identified by direct interaction with our customers using interviews, surveys and competency assessment tools which are the result of successful experiences in the oil and gas industry. We offer proven methodologies!

An example of learning while doing is our role-playing simulation method in which we use actual cases from analog assets to create a context that encourages the integration of concepts, methodology and the participant's knowledge. Role playing simulation is an active practical session where the facilitators set up a scenario where the participants are assigned different roles similar as those they will undertake in the field. This learning approach has high positive impact in any project dealing with high levels of uncertainties and risks

4) Knowledge, Insights and Critical Skills Transfer

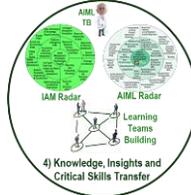


Active Learning Strategy



1. Learning Plans For Assets And Projects
2. Tripod Learning Model: % Videos, % Online-interactive Simulator and % Work Project For Immediate and Advanced Applications.
3. Interactive Customer Centered Model For Individuals And Groups.
4. Teaching And Mentoring Programs Adapted To Customer's Particular Assets Needs.
5. Competency Maps Coupled To Workflows For Easy Implementation Of Knowledge.
6. Practical Examples (Analogues) From Successful Worldwide Assets And Projects.

4) Knowledge, Insights and Critical Skills Transfer

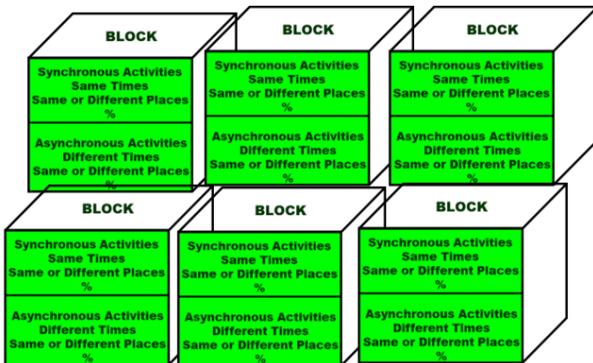
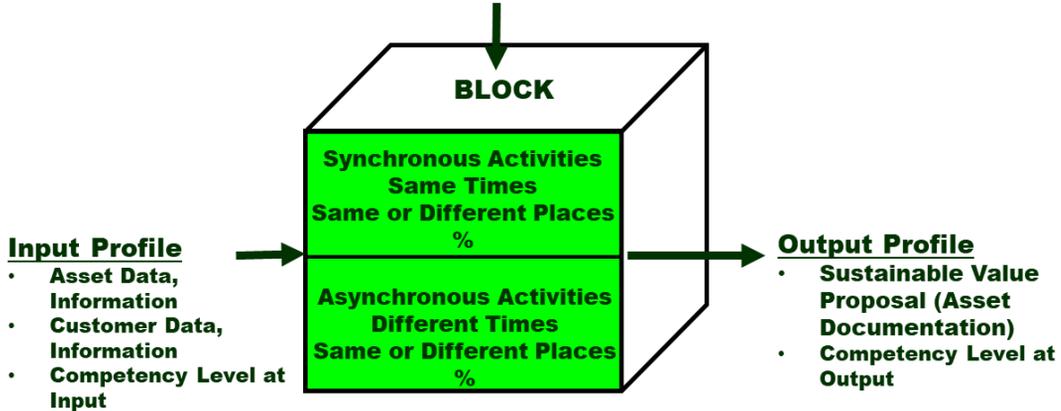


Virtual Technology Empowered Integrated Asset Management Center

Block And Program Model

Resources (Cost-Time)

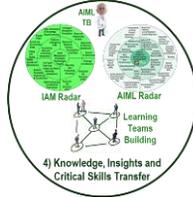
- Associates
- Software And Applications (Commercial & OptimaWell)
- Infrastructure (IT, Communications)
- Management - Marketing



WE DESIGN MODULES (PROGRAMS), COMBINING BUILDING BLOCKS THAT ARE JUST RIGHT FOR YOUR ASSET, BY ASSESSING ASSET MATURITY VS. ACTUAL MODEL AND APPLYING WHAT IS NEEDED TO SUPPORT YOUR ASSET REFERENCE PLAN, YOUR BUSINESS PLAN OR YOUR EXECUTION PLAN

**Project (Module) (i)
= Σ Blocks (j)**

4) Knowledge, Insights and Critical Skills Transfer



Virtual Technology Empowered Integrated Asset Management Center

Blocks - Foundation

Learning loop closed with concepts, fundamentals, practices and workflows supporting assets and fields at operational level.

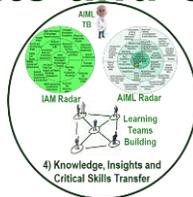
Programs at Tactical Level

Learning loop closed with results in particular projects and processes best practices supporting assets and fields at tactical level.

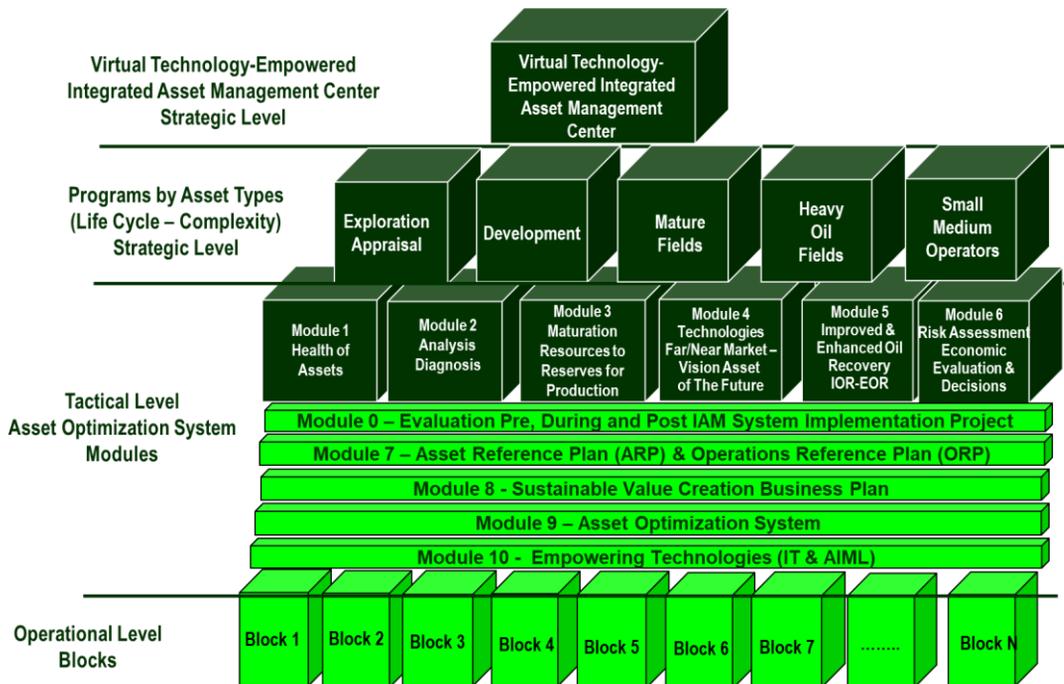
Programs at Strategic Level

Learning loop closed with business plan sustainable value creation objectives and goals with best practices supporting assets and fields at strategic or business level.

4) Knowledge, Insights and Critical Skills Transfer

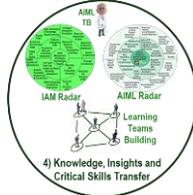


Virtual Technology Empowered Integrated Asset Management Center



1. *Blocks and Programs Adapted For Your Particular Asset So You Save Money And Precious Time In Applicable Technologies, Processes and Competencies Aligned To Your Asset's Needs and your Sustainable Value Creation Objectives.*
2. *Our Programs are Based On Successful Experiences From Oil and Gas Industry*
3. *We Shorten Your Learning Curve By Assisting Your Business At Competitive Prices Using our Virtual Technology Empowered Integrated Asset Management Center*

4) Knowledge, Insights and Critical Skills Transfer



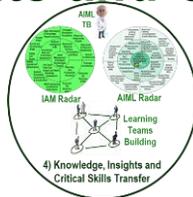
Learning Resource Center Model

Learning Games

- *Artificial Intelligence Fun Game - Building Insights from Data*
- *Role Playing Board Simulation Game And Book For Managing Natural Assets and Associated Physical Assets*
- *Integrated Asset Management (Processes And Projects) Business Simulation Games Assisted with AIML*



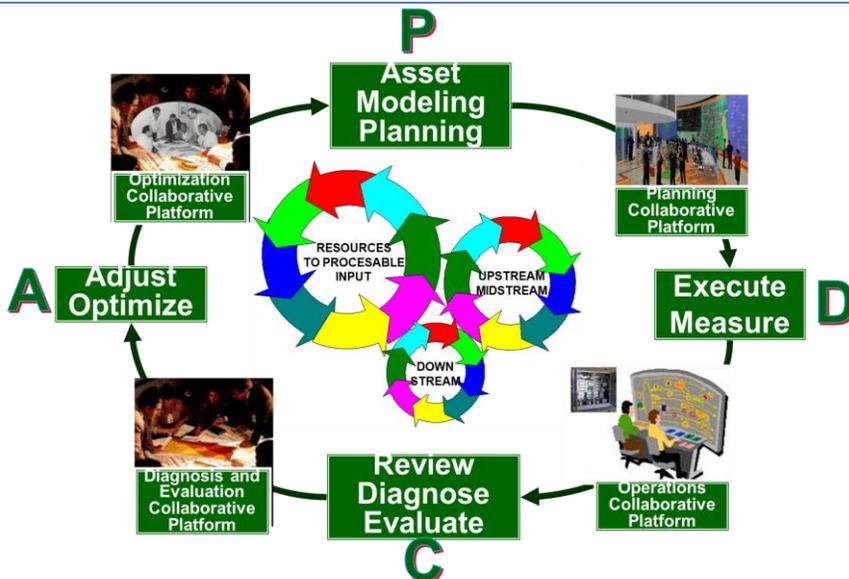
4) Knowledge, Insights and Critical Skills Transfer



Learning Resource Center Model

Software – Workflows

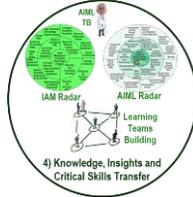
- *Process Based Workflow Software For Analysis And Diagnosis Of Oil And Gas Wells*
- *Analogue Based Software For IOR-EOR Screening*
- *Software for Risk Adjusted Life Cycle Costing and Economic Evaluation*
- *Strategic and Soft Skills Toolbox For Project And Asset Teams (Cards, Quick Study Guide, and Book)*
- *Petroleum Asset Management: Integrated Innovative and Intelligent (PAMI3) Book, Asset and Project Databases and Software*



PDCA Cycle

The PDCA (Plan-Do-Check-Act) cycle is a continuous improvement framework for asset optimization. It provides a systematic way to implement changes and improve efficiency

4) Knowledge, Insights and Critical Skills Transfer



Learning Resource Center Model

eBooks & Prints

Free Downloads:

- *Toolboxes for Outperformers (ID: OWP-TBFO-230706)*
- *The Intelligent Project Management Wheel (ID: OWP-IPMW-230706)*
- *100 Common Sense Rules for an Asset Project Manager (Spanish version) (ID: OWP-100CSRFAPM-230706)*
- *Asset Based Process Modeling and Simulation Guide (Spanish version) (ID: OWP-ABPMASG-230706)*
- *Guide for Introduction To Risk Management (Spanish version) (ID: OWP-GIGR-230707)*
- *Artificial Intelligence & Machine Learning PTR (ID: OW-AIMLPTR-230711)*

4) Knowledge, Insights and Critical Skills Transfer



Learning Resource Center Model

Databases

- *World Oil Field Size Distribution Database*
- *World Oil and Gas Operating Companies Database*
- *World Oil and Gas Service Companies Database*
- *World Oil and Gas Assets Analogues Benchmarking Database*
- *Venezuelan Oil and Gas Assets Analogues Benchmarking Database*
- *Petroleum Industry Accidents, Disasters & Fatalities Database*
- *Well Blowouts Database*
- *Well Cost Database*
- *Petroleum Industry Outliers (Records) Database*

4) Knowledge, Insights and Critical Skills Transfer



Learning Resource Center Model

Technology & Market Intelligence Reports

- *Enhanced Oil Recovery EOR Technology Intelligence Report*
- *Far Market Technologies Applicable to Oil and Gas Industry Report*
- *Heavy Oil Economics Benchmarking Report*
- *Health, Safety and Environment Technologies Intelligence Report*

- *Enhanced Oil Recovery EOR Suppliers Market Report*
- *Artificial Lift Market Report*
- *Venezuela Petroleum Industry Market Report*
- *Latin-American Petroleum Industry Market Report*



Asset Optimization System

January 2026