

IT Applications Catalogue

Discover which IT applications
can create value for your
project or your process



February 2016
- Release # 7 -

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IT Application Catalogue V7

→ Has the following revisions from V6 (published June 2015):

The 14 new applications are:

• Intergraph SmartPlant Spoolgen	19
• AM&T	30
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• ICoD	33
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• EasySubcontract	41
• Cranimax	44
• Mobile Application Technology	46
• eMatlist	83
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New

The 18 updated applications leaflets are:

• xDB EDMS	27 & 97
• K2P	38
• EasyPlant	40
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• Synergi	101
• GEOS World	146
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Updated

This Catalogue belongs to:

February 2016

Dear colleague,

Our IT applications catalogue has been very warmly welcome across the Group and we have to keep it carefully up-to-date. This new version (V7) includes 32 major changes for new and existing applications. Within 30 months, two thirds of this catalogue have evolved, demonstrating the high rate of maintenance and development we endeavor to maintain.

This level of effort should be globally retained despite the very strong budgetary effort that the IT function has been asked for. Like all other departments, IT is taking its part of the cost cutting plan, but is really making its best not to impact the level of service provided to the business, as of now and for the future.

We continue to be convinced that implementing and using properly some of these applications may create benefits for our organizations. We therefore must remain at your service and protect all necessary competences so that us to be ready to serve on the mid and long term.

The newly centralized organization that IT was asked to launch on August 1st, 2015 will help this to happen: respect the budgetary constraints and keep a high level of support for our business lines.

Of course, as always, don't hesitate to contact the people mentioned in each leaflet if you are interested in any of these applications. These Business and IT owners of the various Business Domains will be more than happy to help you.

Kind regards,

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Electronic version of this Application Catalogue is available on the IT Portal ➔
<http://thelink.exnet.technip.com/sites/ITPortal/Pages/Pages/ApplicationDocsTutorials.aspx>

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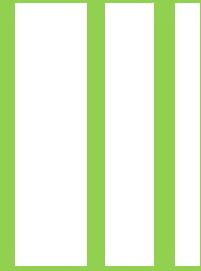
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Onshore / Offshore / Process Tools Business Domain



**Onshore /
Offshore /
Process Tools**
Business Domain

(PES + PMS)

Corporate
Business Domain

(BSFS + ERPs)

Subsea
Business Domain

(Manuf + SEVS + S-PMS)

(Data Management)



Onshore / Offshore / Process Tools Business Domain

PES - Project Execution Systems



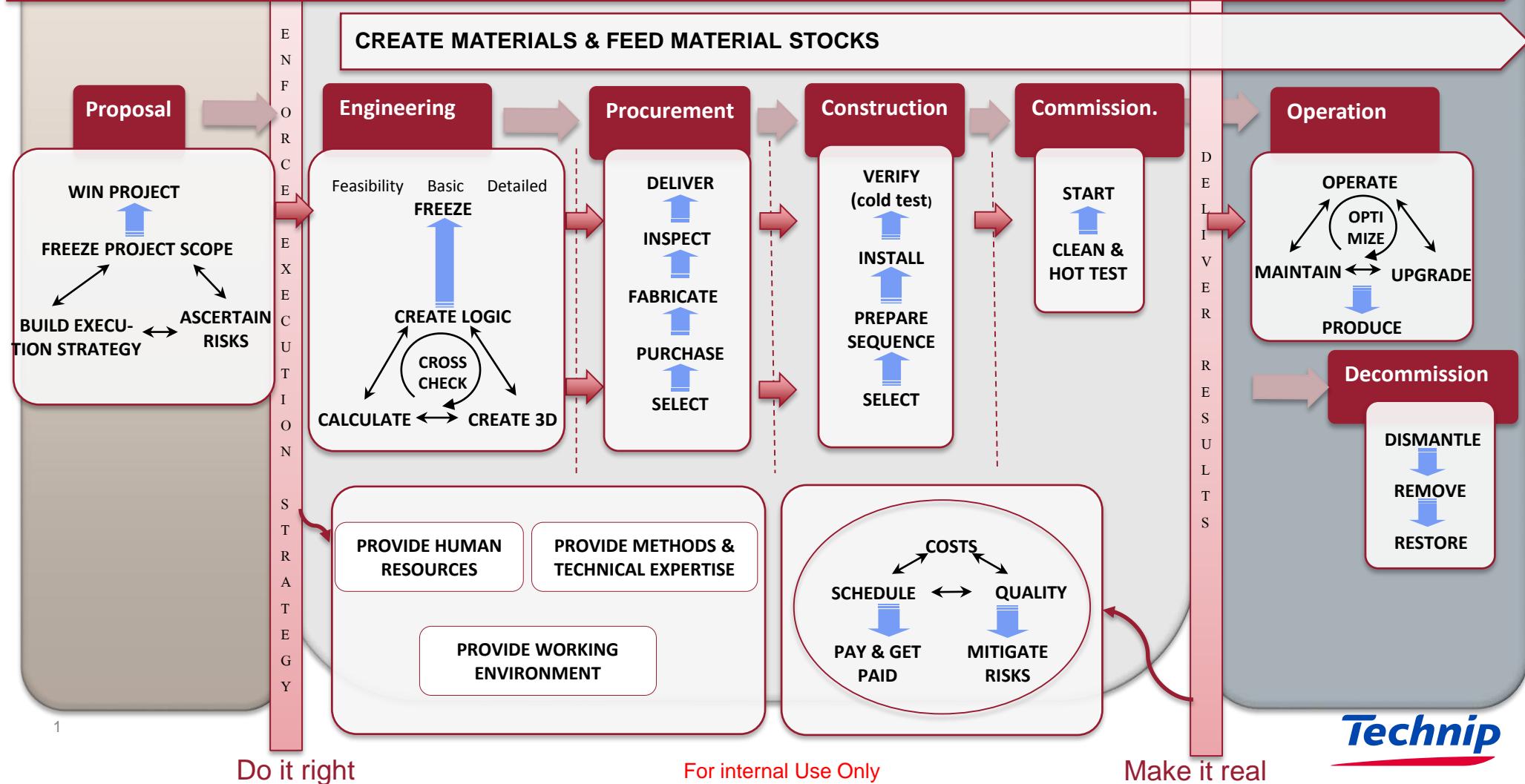
Project management and execution business processes

Proposal

Project Execution

Operations

ENSURE KNOWLEDGE SHARING, ACCESS & TRANSFER



Coverage of these processes by the applications

Proposal

Project Execution

Operations



Proposal

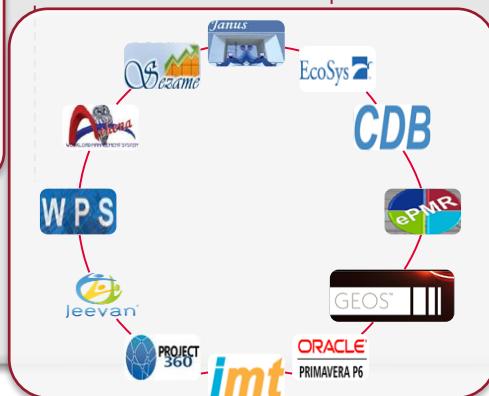
Engineering

Procurement

Construction

Commission.

Operation



EasyPlant

CONSTRUCTSIM
Planning, Sequencing, Execution and Monitoring of Construction Activities

EASY SUBCONTRACT
Handshake icon

Decommission

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Technip

Intergraph SmartPlant Suite



SmartPlant Suite defines an homogeneous working environment for the main engineering activities.

Functions

- Intergraph **Technip DDMS** (Document & Data Management System): customization of Intergraph SmartPlant® Foundation for Technip use, adding several features to optimize the integration benefit for projects.
- Intergraph **SmartPlant® Foundation**: Database application for Engineering information management, ensure integration of the disciplines applications of the SmartPlant Suite and the plant hierarchical structure, allow searching and access to documents and data and their changes.
- Intergraph **SmartPlant® P&ID**: Database application for the design of the plant processes on “Piping and Instrumentation Diagrams”.
- Intergraph **SmartPlant® 3D** and **SmartMarine® 3D**: Data Centric database application for 3D modeling and automated drawing generation (SmartMarine 3D dedicated for marine assets and ship design).
- Intergraph **SmartPlant® Materials**: Database application for material management, handling both bulk and itemized materials for all disciplines.
- Intergraph **SmartPlant® Instrumentation**: Database application common for many Instrumentation engineering design and installation deliverables.
- Intergraph **SmartPlant® Electrical**: Database application common for many Electrical engineering design and installation deliverables.

Key Features

- Proven software's for engineering domain
- Integration with other Technip tools (DDMS)
- A common approach for all Technip Operating Centers
- Technip Global contract is available

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Intergraph DDMS – SmartPlant Foundation

Document and Data Management System is a Group solution to enhance operational efficiency during Project execution

DDMS provides adapted work processes and procedures focusing on Engineering collaboration using standardized Intergraph SmartPlant Design Tools integrated through SmartPlant Foundation (SPF) application

Main DDMS Modules

- **Handling of main Project tagged item lists** (Equipment, Electrical Consumer, Line, Instrument): move from simple to smart Excel and database management, get and compare data from other applications
- **3D modeling through engineering design integration:** transfer and correlation of data from Smart P&IDs, Mechanical Line List, In-Line Instrument Dimensional data sheet, and Cable Schedule
- **Material Management:** trace and review impacts on Piping Class modifications, review MTO summary modifications, create and transfer Disciplines MTO's to SPMAT
- **Precommissioning activities preparation:** smart definition and propagation of PC&C systems and subsystems in SPPID and SPF to produce graphical / data reports and populate PC&C database, preparation of PC&C folders
- **Client Handover preparation** through VTL (Validation, Transformation and Loading tool)

Key Benefits

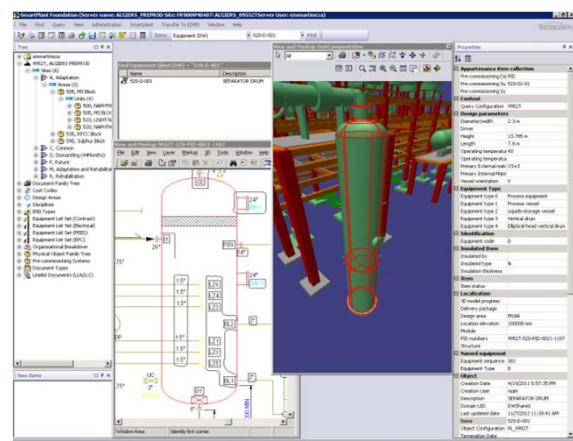
- Avoid re-entry of data in the different applications, gain efficiency and quality
- Improve the tracking and control of project changes
- Savings on engineering re-doing

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Key Functions

- **Management of changes** by automated notification, identification of the modifications and by controlled data transfers through Integration of the Design Tools
- **Project data warehouse**
 - access to relevant and consolidated information coming from different sources with configurable precedence rules
 - respond to Clients requests regarding management and handover of project technical documents and data



Key Features

- One Generic Solution available for all Technip Centers with support organization
- Already deployed on projects since 2011 in region A, under deployment in other regions
- Interfaces with SPPID, SPEL, SPI, SP3D, PDMS, SPMAT and EDMS

Intergraph SmartPlant P&ID

SmartPlant®
P&ID



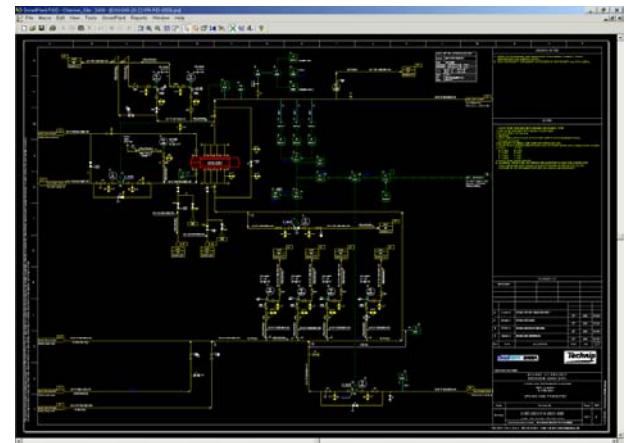
SmartPlant P&ID is a data centric, rule-driven engineering software to design and configure your plant processes solutions.

Functions

- Produce the Process key deliverable 'Piping & Instrumentation Drawing' which is the main common reference basis for many engineering disciplines activities.
- Define the Plant structure organization through the Engineering Manager to rationalize your document's classification reflecting your Project structure, all along the Project lifecycle.
- Create and modify symbols and labeling through Catalog Manager to align with your processes and adapt to any specific particularity generated by Norms or Customer usage.
- Define custom properties and create & modify select list for properties through Data Dictionary Manager to comply with your information management needs when exporting your P&ID data to third parties.
- Adapt format for Unit Of Measure properties through the Format Manager to match with the Project needs.

Key Features

- Maintains a "single source of truth" for all P&ID data
- Enables the creation of intelligent P&IDs through built-in engineering rules and consistency checking
- Focuses on your data rather than the layers as seen in a CAD environment
- Propagate attributes through items connection (based on customizable rules)
- Facilitates data and design reuse on future projects, saving time and money
- Allows refinement and addition of data throughout the project
- Integrated with other Technip tools through SPF (DDMS) or through peer to peer link (SPI)
- A common approach for all Technip Operating Centers
- Technip Global contract is available



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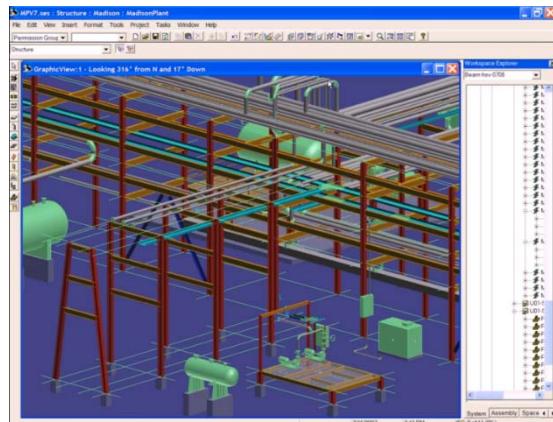
Smart 3D (SmartPlant-SP3D, SmartMarine-SM3D, SmartPlant Materials Handling Edition-SPMHE) are data centric software for 3D advanced plant modeling used by all engineering disciplines.

Functions

- **Engineering disciplines Plant Modeling** – Enable modeling of all engineering disciplines inside one common 3D Model
- **Integration with SmartPlant Materials** – Management of all piping bulk material thru piping materials class extracted from SmartPlant Materials (including object dimensions)
- **Managements of user rights** – Managements of rights by user or group of users on all plants or specific parts of the Plant
- **Model Review** – This functionality allow users to navigate inside of virtual plant
- **Global Worksharing** – Real time replication of 3D Model between all operating centers involved
- **Integration with SP PID / SPI / SPEL** - This functionality allow designers to transfer data from Smart 2D documents to the 3D model and to check data consistency between the two environments
- **Integration with Caesar II** - This functionality allow designers to transfer data from 3D model to Caesar II to perform stress analysis activities
- **Integration with Cloud-Points** – This functionality allow designers to integrate in the 3D model Clouds Points produced from Laser Scan apparatus. The use of additional tools as Cloud Works allow also the possibility to edit the Cloud
- **3D Interop** - Intelligent referencing of other 3D tools as Tekla, PDS, PDMS CadWorks, Microstation, Autocad & S3D from other projects with different referenced data
- **Design rules** – This functionality allow the possibility to implement design rules to increase data quality and ensure design integrity
- **Automatic Dimensioning** – This functionality allow the possibility to configure rules for automatic dimensioning during drawing generation
- **Intelligent deliverables** – All produced drawings and reports are intelligent and are directly linked to the 3D model. Comparing functionality between 2D and 3D are existing.
- **Handover** – Easy handover to different version or database type

Key Features

- Intuitive interface
- Ability to share design across disciplines in real time
- Effective management of design changes across disciplines
- Integrated with other Technip tools (DDMS)
- For onshore (SP3D) and offshore (SM3D) projects on FEED and EPC
- SP3D works with Oracle or MS SQL Database
- SM3D works with MS SQL Database
- Technip Global contract is available



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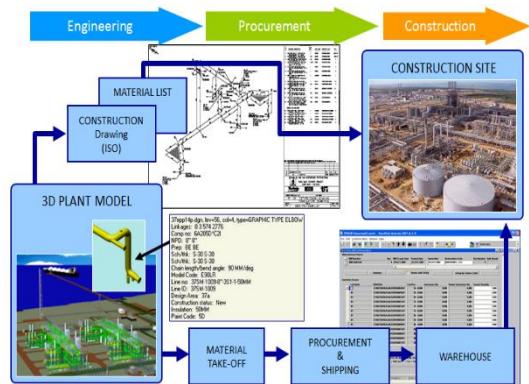
Application designed to track material during the entire EPC life cycle.

Functions

- **Process Line List:** This module contains the process conditions which are used to perform various calculations (wall thickness, branch connections and test pressure ...) and to check piping data.
- **Standardization:** This module contains the catalogue for all bulk material components required for piping, electrical and instrumentation. The identifier in the catalogue is the ident code, describing each component in sufficient detail for use in requisitions. The standardization module is used to prepare the piping specification which are sent to the 3D tools (PDS, PDMS and SP3D). The catalogue contains also all the dimensional data which are required for SP3D.
- **Bill of Materials (BOM):** This module is the central repository of all bulk materials and tags required on a project. It is used to verify overall quantities and is the basis to create the requisitions. The BOM data are also estimate insulation, painting and tracing requirements as well as to estimate pay item quantities associated with piping works to assist in preparing piping subcontracts.
- **Requisition:** Requisitions are prepared by selecting positions from the BOM based on certain criteria. Requisitions are initially issued for inquiry and finally for purchase. SPMat creates the SR which consists of part1 with the list of materials and quantities and part 2 with the list of Vendor Data Requirements. Vendor Data Requirements are automatically sent to VDB (EDMS Database to manage Vendor Documents) where the tracking of vendor documentation is done.
- **Procurement:** The procurement module in SPMAT is organized into three sub-modules Purchasing, Expediting/Inspection and Traffic. This module uses interfaces with corporate procurement tool EPC-Business.com. The interfaces with IFS are under development.
- **Site Control:** This module closes the loop of the supply cycle from engineering to construction

Key Features

- Tracks material during the entire EPC life Cycle
- Used in Technip since 2002
- Handles both bulk and itemized materials in all disciplines
- One single centralized application, hosted in the EDC, available for all Technip Centers
- Single data source for all material aspects of the EPC phases of the project
- All Technip Operating Centers apply same methods for material management
- Extensive Reporting Capabilities
- Interfaces with 3D-Tools, EDMS, EPCB and ERP



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Intergraph SmartPlant Instrumentation

**SmartPlant®
Instrumentation**
Powered by ITools®



SmartPlant Instrumentation provides a single source of instrumentation information and ensures consistency across the different instrument task and deliverables.

Functions

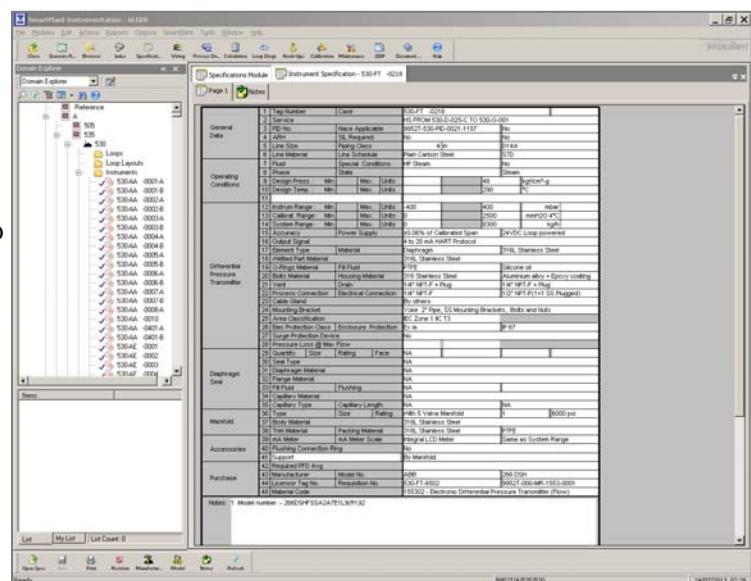
- Produce mainly the following key deliverable for Instrumentation Discipline : 'Instrument Index', 'System Input/Output List', 'Instrument Data Sheet Specification', 'Cable Schedule', 'Instrument Hook-Up', 'Material Take Off', 'Junction Box Wiring', 'Loop Drawings', 'Routing Sections', 'Dimensional Data for Piping Sheet'.
- **Browser module:** for browsing all data stored by the other modules, having the ability to define specific views focus on some fields only, with a dedicated sorting and filtering. It allows fast modifications for several data at one time.
- **Instrument Index module:** dedicated to create Instrument Loops & Tags and associate properties, this is the main module which share data with the other modules.
- **Specification module:** for data sheet creation in order to define and purchase Instruments & associated materials.
- **Wiring module:** reflect the wiring activities in 'virtual' as they have to be completed on site in 'real'. This module is to perform before to launch the loop drawing module activities.
- **Loop drawings module:** is use to generate the "troubleshooting loop drawings" for each loops of the Project.
- **Hook-ups module:** permit to deliver the drawing defining the Instrument installation.
- **DDP module:** 'Dimensional Data for Piping' of in line Instrument in order to deliver and permit to SP3D application to automatically model the Instrument from its geometry sizing.

Key Features

- Rock-solid solution for small, large, and complex projects across a wide variety of industries
- Allows refinement and addition of data throughout the project
- Instrument Data Sheet fully customized by Technip
- Integrated with other Technip tools (DDMS)
- A common approach for all Technip Operating Centers
- Technip Global contract is available

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Intergraph SmartPlant Electrical

SmartPlant
Electrical

SmartPlant Electrical is a task-specific, rule-driven, and data-centric solution that helps you gain a competitive edge in the industry.

Functions

- Produce mainly the following key deliverable for Electrical Discipline :‘Consumer list’, ‘Equipment list’, ‘Load Summary per Bus Bar’, ‘Cable schedule’, ‘LV/ HV Switchboard Schedule’, ‘LV/ HV Motor data sheets’.
- Define the Plant structure organization through the Engineering Manager to rationalize your document’s classification reflecting your Project structure, all along the Project lifecycle.
- Create and modify symbols through Catalog Manager to adapt to any specific particularity generated by Norms or Customer usage.
- Define custom properties and create & modify select list for properties through Data Dictionary Manager to comply with your information management needs when exporting your data to third parties.
- Adapt format for Unit Of Measure properties through the Format Manager to match with the Project needs.

Key Features

- Batch profile-based creation of electrical data, automation, batch load balancing, cable management, automatic drawings and diagrams, report generation, and change management saving time and costs.
- Dynamically associate and create implied components, along with their default data for selected electrical equipment.(e.g. power cables and control stations and their control cables)
- Facilitates data and design reuse on future projects, saving time and money
- Integrated with other Technip tools (DDMS)
- A common approach for all Technip Operating Centers
- Technip Global contract is available

Item ID	Area	ITEM NAME	Service	Type	COUNTING		Equipment Status	Number	Construction Arrangement	Speed RPM	Duty	Class	Convergence Factor	Instantaneous	Average Power	Normal Power
					C	G										
M-81-2001	9	B	M-81-2001A	CHAMFER FEED PUMP	HC	E	I	N	N	1.00	31 kW	26 L				
M-81-2001B	9	B	M-81-2001B	CHAMFER FEED PUMP	HC	E	I	S	N	1.00	31 kW	26 L				
M-81-2002	11	B	M-81-2002A	FILTRATION FEED PUMP	HC	E	I	N	N	1.00	62 kW	51 L				
M-81-2003	12	B	M-81-2003A	FILTRATION FEED PUMP	HC	E	I	S	N	1.00	62 kW	51 L				
M-81-2004	14	B	M-81-2004A	SEWAGE PUMP	EP	E	I	I	N	0.50	0.8 kW	0.5 L				
M-81-301A	15	B	M-81-2008B	SLUDGE PUMP	RP	E	I	S	N	1.00	0.6 kW	0.5 L				
M-81-301A	15	B	M-81-2004A	FILTER FEED PUMP	HC	E	I	N	N	1.00	22 kW	16 L				
M-81-301A	15	B	M-81-2005A	BACK WASHED WATER PUMP	VC	E	I	S	N	1.00	22 kW	16 L				
M-81-302A	16	B	M-81-2005A	BACK WASHED WATER PUMP	VC	E	I	N	N	1.00	32 kW	29 L				
M-81-303A	17	B	M-81-2005B	BACK WASHED WATER PUMP	VC	E	I	S	N	1.00	32 kW	29 L				
M-81-304A	18	B	M-81-21005A	SERVICE WATER PUMP	HC	E	I	N	N	1.00	14.5 kW	14 L				
M-81-304A	18	B	M-81-21005B	SERVICE WATER PUMP	HC	E	I	S	N	1.00	14.5 kW	14 L				
M-81-305A	19	B	M-81-21005B	SERVICE WATER PUMP	HC	E	I	N	N	1.00	14.5 kW	14 L				
M-81-305A	19	B	M-81-21005B	SERVICE WATER PUMP	HC	E	I	S	N	1.00	14.5 kW	14 L				
M-81-306A	20	B	M-81-21005B	SERVICE WATER PUMP	HC	E	I	N	N	1.00	14.5 kW	14 L				
M-81-306A	20	B	M-81-21005B	SERVICE WATER PUMP	HC	E	I	S	N	1.00	14.5 kW	14 L				

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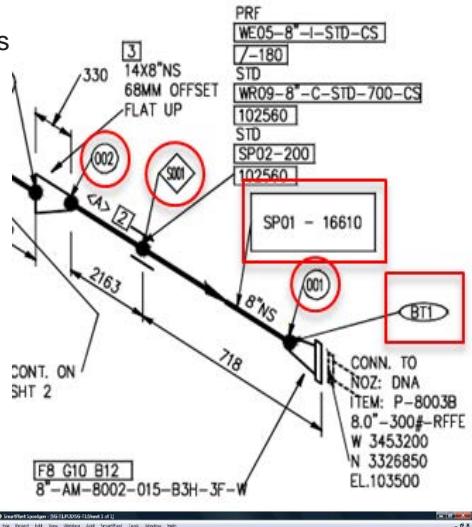
SmartPlant Spoolgen completely automates drawing production, using ISOGEN to create industry-standard deliverables

Introduction

- SmartPlant® Spoolgen® is a industrial-strength application that enables the creation of piping isometric drawings for fabrication and erection from the design created during the detail engineering phase of projects. You can add additional information – such as the location of field welds – and create new drawings and reports from the same source as the original drawings. The technology is based on ISOGEN®, the industry-standard software for automated piping isometric generation, and has been deployed successfully on all sizes of plant engineering projects in every region of the world.

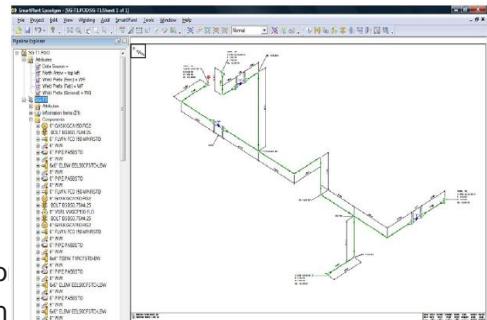
- CMC uses Spoolgen** to add the following infos to the isometrics

- WELDING ID
- FLANGE ID
- SPOOL ID
- PIPE CUT LIST
- WELDING LIST
- BOLT LIST



- Spoolgen produces:**

- isometrics for the construction site in PDF and cad files (DWG, DXF, etc ...)
- reports such as:
 - material file (input for SPMAT)
 - welding file (input for EasyPiping)
 - traceability file (input for EasyPiping)
 - bolt file (input for EasyPiping)
 - piping support file (input for EasyPiping)



Key Benefits

- Better control at job site of all piping fabrication and erection
- Internal Group activity with an easier coordination between
- optimized interface between construction documents (Isometrics) and Group tools (EasyPiping and EasyPlant)

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AVEVA Suite



AVEVA provides a comprehensive range of solutions for engineering businesses

Solutions

- **AVEVA Instrumentation:** supports the entire Instrumentation and Control system lifecycle from engineering and design, through installation, maintenance and modification. Divided in four modules : Instrument Engineer, Instrument Designer, Wiring Manager and Process Module.
- **AVEVA DDMS:** web-based solution for collating, contextualizing, cross-referencing and visualizing data and documents of all types, whatever their locations or original source programs. It can handle every type of digital information including 3D models in various formats, laser scan data, digital photographs, 2D CAD or scanned paper drawings, ERP data and so on.
- **BOCAD:** a 3D CAD/CAM system for structural steel work design. It creates accurate 3D perspective drawings which further allows the creation of shop drawings, assembly drawings, MTOs, bills of materials, cutting plans and 2D drawings. It can interface with PDMS
- **AVEVA MDS:** application for fully designing in 3D all kinds of pipe, duct and cable tray supports, from a complicated framework to a simple u-bolt. Integrated completely with AVEVA PDMS, it enables the huge numbers of supports in a plant to be fully defined and accurately positioned with speed and efficiency.
- **AVEVA PDMS:** Architectural, Engineering & Construction 3D Modelling
- **AVEVA Electrical:** software suite for electrical engineering and design
- **AVEVA Review:** high performance 3D visualisation and project review tool for large, complex 3D plant models providing: Desktop to team room display, to globally linked collaboration. Interactive walkthrough, model streaming, animation and realism effects, Model query tools, global project review support Import of data from other systems - including point cloud data from laser scanning systems. Includes Review Share



Key Features

- Provides intuitive, productive and robust environment for engineering & design
- Inherently supports workflow and project lifecycle management functions
- AVEVA's object-centred technology uses 'objects' to represent real-world elements, such as valves, pumps or pipes. Each object can have many layers of data associated with it; 2D schematic data, 3D model data, properties, connectivity, documentation and so on.
- AVEVA's information-centric technology strategy integrates all types of information - engineering & design, analysis, and business operations - from all sources, into a single, dependable source of project and asset information

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Aveva DDMS is a web-based solution for collating, contextualizing, cross-referencing and visualizing data and documents of all types

Functions

■ Process and Import

- Load deliverables from all disciplines; various types and formats (e.g. 3D model, 2D drawings, datasheet, master lists)
- Drawings and models processed into neutral format
- Data automatically extracted
- System performs checking on compliance with project standards; document numbering and tag numbering conventions

■ Publish Project Data and Documents

- Single point access to published project information on web based portal
- Project documents organized by engineering classes and breakdown structure for the project
- Tag information association and linking displayed
- System identifies documents and tags that does not adhere to specified standards

■ Navigation & Search

- Navigate from breakdown structure via explorer type interface
- Basic and advanced search capability
- Search from tag information associations
- Hot-spotted drawings and 3D model

■ Documents Access and Visualisation

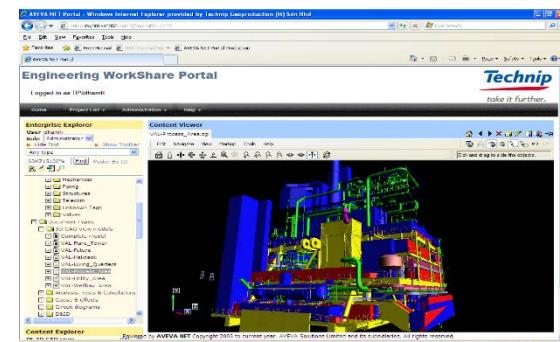
- Ability to view all types and formats of project deliverables from single web browser: 3D model, 2D drawings datasheet, master lists, etc.
- Identification of associated data and documents

■ Data Validation and Reporting

- Integrate data and documents from various sources
- Compare information in between different data sources and different revisions of same data source
- Detect data inconsistencies and expose missing information
- Generate reports on engineering data and information

■ Project Information Handover

- Quick and easy compilation of final deliverables (documents and drawings) for handover
- Data extracted/loaded from various sources used to generate ISO 15926 compliant dataset for handover



Key Features

- Secure web based single point access to project information
- Easy search and viewing of project wide documents
- Validate document and tagging conformance to standards

- Data validation and consistency checking
- Capability for EDW and ISO 15926 dataset handover
- Platform to support work sharing and collaboration

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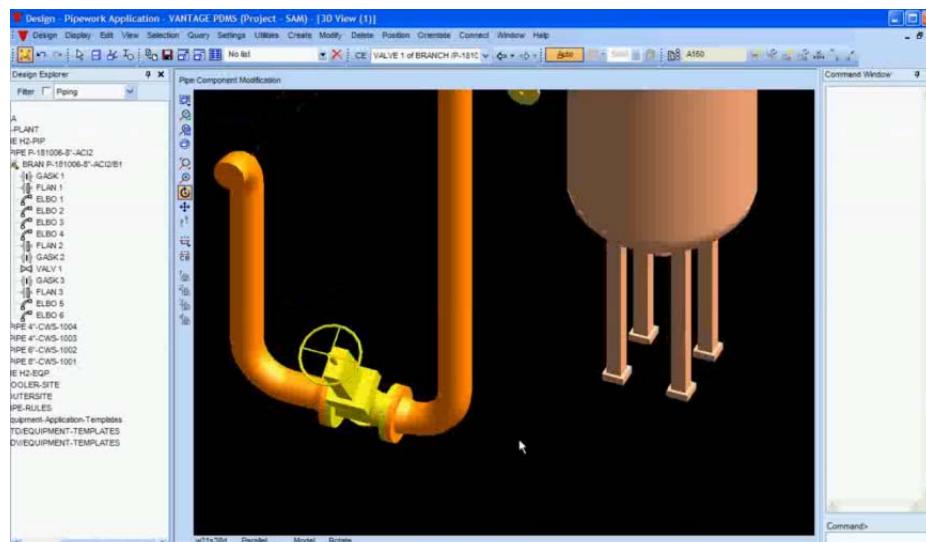
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Aveva Plant Design Management System is a data centric software for 3D advanced plant modeling used by all engineering disciplines

Functions

- A wide range of layout and detail engineering drawings are available for all disciplines.
- A full range of piping isometrics can be automatically generated, from the complete system, through to fabrication, erection and individual spool isometrics. Fully automatic piping isometric drawings can be produced directly from the database. Options are available to meet any industry, national, company or project requirement
- Accurate Material Take Off information is available across all disciplines, by item, unit, area etc.
- The PDMS models allow the engineers to walk through the whole virtual plant to quickly detect and eliminate potential design problems.
- All types of reports and schedules [such as valve or nozzle schedules] can be produced, in CSV or other formats.
- All drawings and reports are produced directly from the PDMS database in accordance with user-configurable rules, ensuring consistency between documents and design.
- Automated modelling and drawing generation
- Drawing updates automatically include the latest design changes. Change highlighting can be used.



Key Features

- User-friendly interface
- Technip Global contract is available
- For offshore and onshore projects on FEED and EPC
- Improve project quality with standardize specifications and model library
- Collaborative design across disciplines and geographical locations
- Powerful change management

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Aspentech Hysys



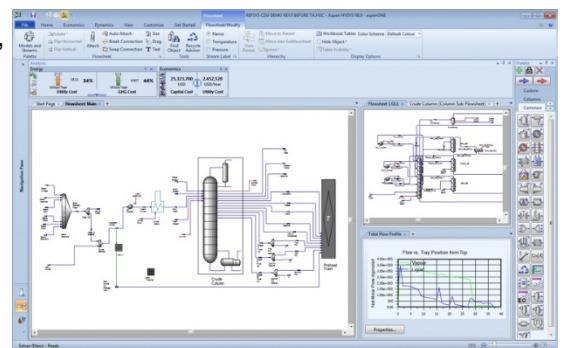
Comprehensive process modeling system used to optimize process design and operations.

Functions

- **Aspen HYSYS® Dynamics:** Enables safety and control studies, pressure relief analysis, optimizing startup and shutdown policies, and as a simulation engine for operator Training Simulators (OTS) without leaving the Aspen HYSYS environment
- **Aspen HYSYS® Crude:** Enables the simulation of crude oil assays and crude columns
- **Aspen HYSYS® Amines:** Simulates and optimizes gas and liquid sweetening processes involving single or blended amines
- **Aspen HYSYS® Upstream:** Provides an E&P-specific solution for integrated asset modeling and appraisal; production field data can be input in an easy-to-use environment to create an asset-wide model from the reservoir to the back end of the facility
- **Aspen HYSYS® Petroleum Refining:** Provides a refining specific solution for improved feedstock selection and planning; enables users to integrate crude assay libraries, reactor models, and links to LP planning tools for better crude selection, planning, and scheduling of operations
- **Rigorous Reactor Models:** Simulate models for FCC, hydro-processing, naphtha reforming and isomerization that use familiar Aspen HYSYS interfaces for calibration and integration into larger flow sheets
- **Aspen Simulation Workbook:** Integrates with Microsoft Excel® and AspenTech simulators, including Aspen HYSYS and Aspen HYSYS Dynamics. Applications include supplementary design calculations, reporting, and deployment of models in operations for performance monitoring and decision support.

Key Features

- With Aspen HYSYS, you can immediately see the economic impact of design changes, identify opportunities for energy savings, track greenhouse gases, and view simulation and plant data side-by-side
- Single data source for all material aspects of the EPC phases of the project
- Aspen HYSYS provides industry specific capabilities that enable process engineers to solve the most pressing problems across the energy industry.
- Aspen HYSYS seamlessly enables dynamics, refining modeling, upstream design, and acid gas cleaning all with same easy to use interface.



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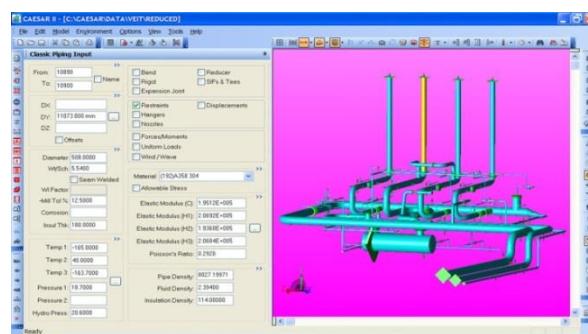
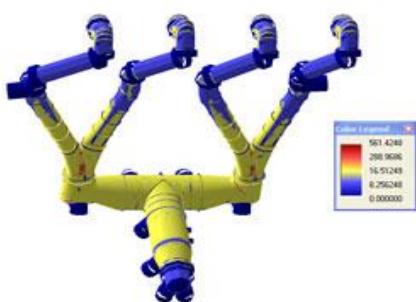
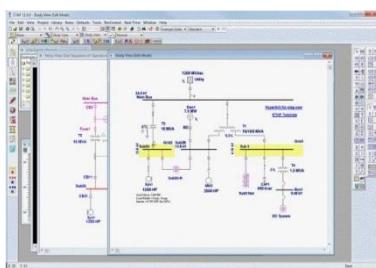
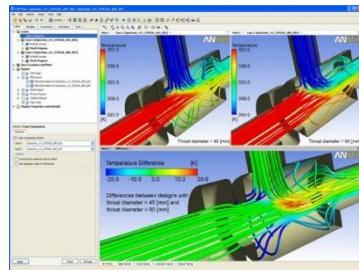
Onshore / Offshore Group Scientific tools



Onshore / Offshore Group tools are the standard tools that are used by at least 3 Technip offices. These tools generally either have group licensing agreements and are all managed and negotiated by IT SSO.

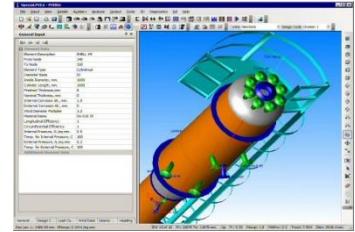
Top 12 Onshore / Offshore Group Scientific Tools (1/2)

- **ABAQUS (Dassault Systems):** a finite-element analysis program that places special emphasis on advanced linear and nonlinear analysis of structural frameworks, mechanical components and assemblies and computational fluid dynamic analysis.
- **ANSYS Mechanical (ANSYS):** is a tool to 3D model stress, strain, deflections, and other functional properties for both static and dynamic loads. ANSYS Fluent is a tool to 3D model flowing fluids for pressure drop, velocity, turbulence, mixing, erosion, heat/mass transfer, and many other fluid phenomenon.
- **CAESAR II (Intergraph):** a tool that evaluates piping systems' responses to deadweight, pressure, settlement, and thermal loads. It analyzes the effects of wind, earthquake, various dynamic upsets and wave loads using dynamic analysis capabilities. Caesar II also performs error checking for dimensional and computational piping system consistency.
- **ETAP (OTI):** a fully integrated AC and DC electrical power system analysis tool for the design, simulation, and analysis of generation, transmission, distribution, and industrial power systems.
- **FE/Pipe (Paulin Research Group):** pressure vessel analysis tool that is able to rapidly construct geometries and produce ASME stress reports. FE/Pipe automatically creates model geometry, element mesh, applied loads, and boundary conditions based on standard dimensions.



Top 12 Onshore / Offshore Group Scientific Tools (2/2)

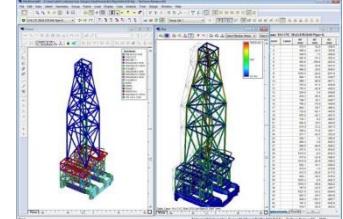
■ **FOUNDATION 3D (Dimensional Solutions):** a footing analysis and design software for soil or pile supported foundation. Its strength is in designing foundations for industrial equipment such as heat exchangers and vessels.



■ **MAT 3D (Dimensional Solutions):** a general purpose comprehensive mat foundation design tool that encompasses both soil and pile supported multi-load point mat foundation. It designs pedestals, soil supported mats and pile supported pile caps.

■ **PV ELITE (Intergraph) :** complete solution for vessel and heat exchanger design, analysis, and evaluation. PV Elite provides a graphical representation of the analyzed model that can be viewed and manipulated. It performs calculations and evaluates the current state and remaining life of an existing vessel.

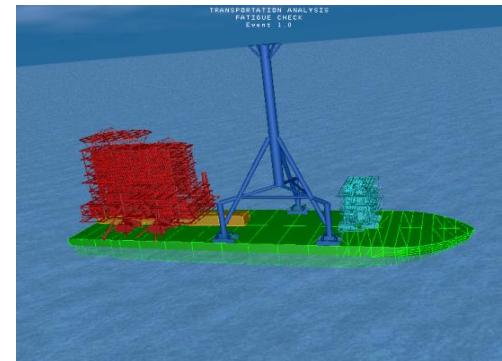
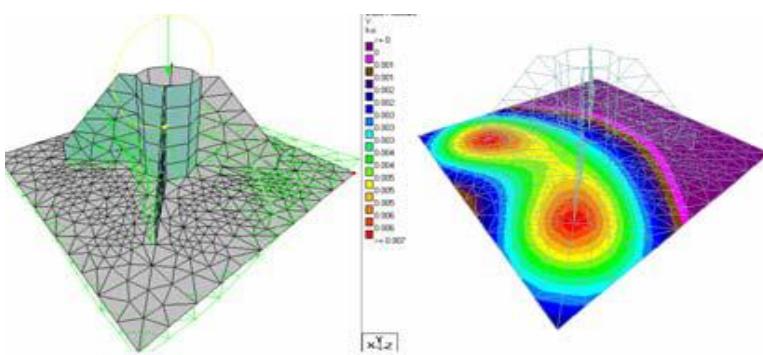
■ **SACS (Bentley):** an integrated tool that supports the analysis, design, fabrication, and installation of offshore structures, including oil & gas platform substructures and topsides. It provides analysis and design that complies with the offshore design criteria and relevant code requirement



■ **STAADPRO (Bentley):** a structural engineering design tool for finite element analysis of steel, concrete, timber, and aluminum structures

■ **TANK (Intergraph):** comprehensive flat bottom storage tank design and analysis software. Tank will provide designs of new tanks and also can evaluate existing tanks to meet API 560 and API 653 standards.

■ **MOSES (Ultramarine):** tool for modeling, simulating, and analyzing the stresses which arise in marine situations. Moses can create a model and calculate the hydrostatics, stability and motions in a seaway.

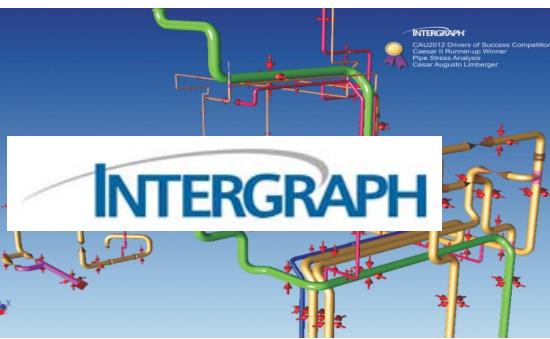


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Caesar II



INTERGRAPH

CAL2012 Division of Success Competition
PIPE STRESS ANALYSIS
Caesar Analysis Linzberger

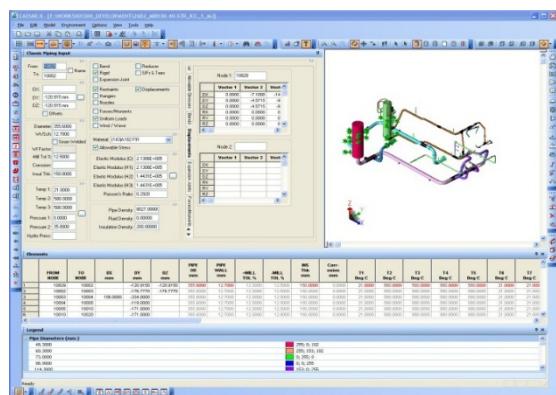
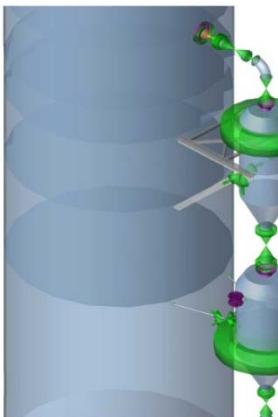
Application to evaluate and analyze piping system's response to static and dynamic loads

Functions

- Evaluates piping system's response to deadweight, pressure, settlement, and thermal loads
- Analyzes the effects of wind, earthquake, various dynamic upsets and wave loads using dynamic analysis capabilities (modal, harmonic, response spectrum and time history)
- Selects spring supports for supporting systems with large vertical thermal displacements
- Performs error checking for dimensional and computational piping system consistency
- Generates fully user definable reports

Key Features

- Cutting edge graphics
- Evaluates results to all major International Piping Codes
- Extensive material, spring supports, expansion joints and structural steel database
- Includes structural steel and buried piping modelers
- Additional analysis modules allow evaluation of piping loads on pumps, compressors and turbines, pressure vessels' and tanks' nozzles and analysis of flange connections
- Full local technical support



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Technip

take it further.

For internal use only



xDB EDMS Application grants access by a Web Browser to the Electronic Document Management System (EDMS).

EDMS is an in-house development started on 1997 and based on Lotus Notes. Used by every project in Brazil, Region A, Asia Pacific, North America and Middle East.

It allows identification, recording, distribution, change tracking, filing and archiving of all projects documents.

■ “Discipline” Block

- DDB:** used by disciplines to prepare and store their documents prior to approval, storage in the project document base and distribution
- FDB:** used by disciplines to allow inter discipline checking as well as electronic signature if applied on this project

■ “Project” Block

- PDB:** allows to handle all revisions of all documents issued by Technip, its partners and other parties
- PDBC:** allows comments storage, responses storage, transmission and follow-up

■ “Vendor” Block

- VDB:** allows to handle all revisions of all documents issued by vendors, including the review cycle
- VDBx:** Interface between VDB and the vendor/subcontractor

Fully integrated application:

- JANUS, SPMAT, SP Foundation, EPC-Business, CDB, easyPlant, Aveva.net.
- Interfaces for each project with the EDMS tool used by client

Key Features

- Full Web Browser
- One Focal Point Access (EDMS Portal)
- Complex Report available
- Support large amount of documents and data
- Strong integration with the Technip mail tool
- No Lotus Notes client required
- Ergonomic Look & Feel
- Facilitate exchange of documents with Clients and Partners
- No Replication (except exotic location with low bandwidth)
- Easy migration process for existing database

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Main functions

- Store** in a safety and easy retrieval manner all the project document revisions issued by the project Team in electronic format
- Control** the status of the documentation already issued and still to be issued
- Inform** the project Team of the availability of the documents issued by sending a transmittal note and/or electronic notification
- Give** to the whole project Team **access** to updated lists of documents and updated project documentation
- Allow to generate intermediate and final **electronic handover**

Key Benefits

- Adapted for multi-center project
- Adapted to the whole lifecycle of the document (from creation to construction site)
- Customized to the documentation management process used in Technip
- Strong integration with JANUS for the follow-up of the progress of the project
- Unique tool used by all participants of a Technip project

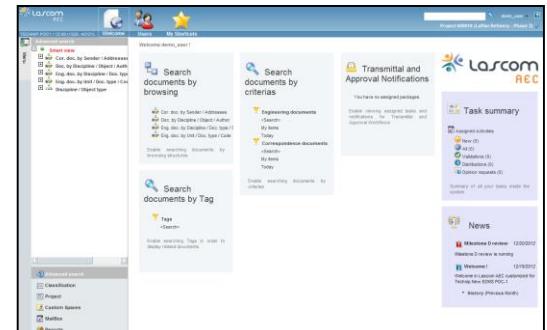
New EDMS (GAIA) Electronic Document Management System



Enhance the flow and sharing of information on Projects with New EDMS

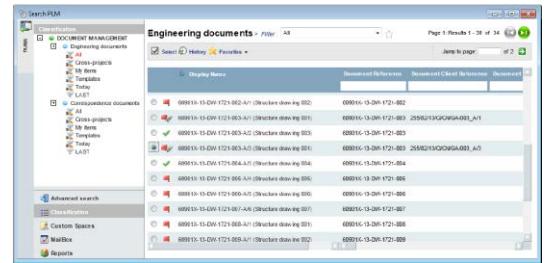
Why design a new EDMS?

- **REDESIGN** this key Project management application - 16 000 users - in order to address new challenges
- **PROMOTE** standard Project methods across the Group: “One size fits all” tool for small, multi-sites and mega Projects
- **RATIONALIZE** Project Execution Systems
- **ENHANCE** collaboration between Project teams but also with Clients, Suppliers, Partners, Third parties, etc.
- **INCREASE** ability to respond to Clients' requirements and to Technip's needs :
 - easy and secure web access
 - confidentiality management
 - document traceability
 - reporting
 - KPI monitoring
 - integration with Office, AutoCad, Microstation
 - ...



Key features of the new application

- Single point of access
- Mobile use of the application -> **increased reactivity**
- Search capability strongly enhanced & possibility to **search by tag**
- Report capability
- Follow-up meaningful KPIs
- Integrate Clients, Vendors, Partners and Third parties into the document lifecycle
- Integration with other software and systems within Technip



Expected benefits

- Simplified Project set-up
- Enhanced collaboration across Technip centers
- Better monitoring of Projects, especially of multi-centers Projects
- Optimization of Project resources and overall Project management
- Reduce duplication of documents
- Reduce the cost of non-quality
- Increase overall Project efficiency

System availability

- 2016

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PROJECT DATA 360 framework



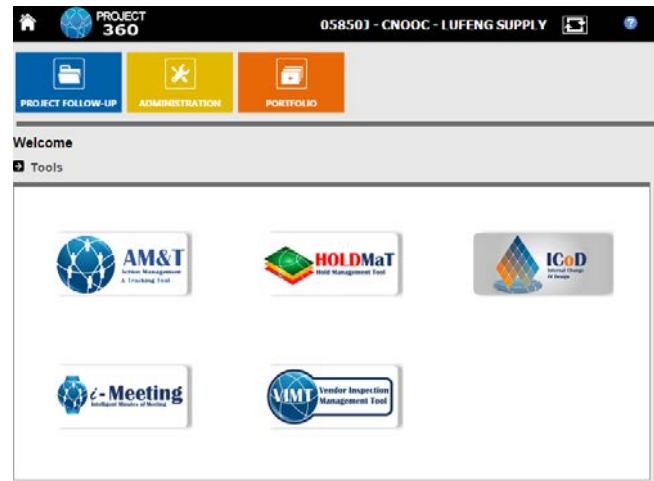
Built for Operations to increase Project effectiveness

Transforming business needs and work processes on decision making tools!

Initiative started in 2012, it is a flexible Web based framework built by Technip, to allow the development of IT tools and services which tackle Business needs and lacks in the existent standard systems. Interfaces with key source applications are built in order to retrieve relevant data avoiding manual loading.

The main benefits for Business:

- **Integration:** Data model built to allow interfacing Technip reference data and key standard applications.
- **Security advantages:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any additional installation.
- **Scope oriented reporting:** provides details and status reports based on updated data possibly ordered by breakdown structures/families for a set of searched physical objects, documents, actions and comments. Linked items reports allowing to analyze relative items statuses to detect potential impacts and set the base of Project decisions.
- **Flexibility:** Possibility to integrate specific work processes and its specific properties following business rules and specifications.



Key Functions

- Project set-up and follow-up.
- Import and customize relevant Project breakdown structures.
- Plant Objects dashboard by Region/Legal Entity.
- Create and manage access rights using the Project Organization Breakdown Structure.
- Save searches and scope of work.

Tools:

- VIMT (Vendor Inspection Management Tool);
- AM&T (Action Management & Tracking Tool);
- i-Meeting (Intelligent Minutes of Meeting);
- HOLDMaT (Hold Management Tool) – Q1/2016;
- ICoD (Internal Change of Design Tool) – Q1/2016;
- Safety Studies (HAZOP, HAZID, SIL) – Q2/2016.

Key Features

- Provides edit and mass edit capabilities to manage created or imported objects.
- Secured access and user role management.
- Interface with EDMS, MDM, SPMAT, EPC-Business
- New interface with PDMS (Q1/2016), SPI (Q1/2016), SP PID (Q3/2016).
- Provides advanced search capabilities based on items properties. Viewing capabilities include items details pages, items dependencies graphical or list view.
- Sync with Technip Active Directory (AD).

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AM&T – Action Management & Tracking Tool



Project actions and reviews base for decision making.

Keeping traceability from Project launch until Operations start-up!

All Project Members need to handle in a daily basis with a considerable number of actions, and in this sense traceability is a key factor to succeed on actions expediting.

To address this and other important needs an **Action Management & Tracking tool** was built. It is a management and tracking tool to start, follow and expedite all types of actions during the Project lifecycle to support on decision making, allowing to replace Word/Excel files which are usually created and maintained for that purpose.

The main benefits for Business:

- **Collaborative:** Have an overall view of pending items for all Project members and that help on decision making at project level. Centralize all actions in a common data base rather than through external excel files (e.g. 3d model reviews, Hazop, SIL, OWL actions, etc).
- **Easy to track:** Manage action lists in matrix tracking system (per projects or per disciplines) and save time on actions tracking and follow-up during Project lifecycle.
- **Project result oriented:** Easy to assign actions to internal and/or external people and related Disciplines. Reinforce the expediting of the actions overall reviews with several parties involved in a structured application instead of using Word / Excel files for that.
- **Project wise:** Allow to link other Project objects (tagged items, documents, other actions and comments) to each action and comment. Generation of actions status report and schedule view.
- **Security advantages:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any additional installation. Access management based on Disciplines / responsible(s).

The screenshot shows the AM&T software interface. At the top, there is a search bar and a filter section titled "Search & filtering criteria". The filter section includes fields for "Tag", "Family" (set to "Hold management (HOLD_ACTION)", "Discipline", and "Status" (set to "Started, Ongoing"). Below this is a "Key properties" section with fields for "Name" and "Description". On the right, there is a "Status" dropdown menu with options like "Not applicable", "Not started", "Started", "Ongoing", "Quite finished", "Completed", and "Cancelled". The main area displays a "List View" of actions. The columns include "Action", "Tag", "Leading discipline", "Responsible", "Start date", "End date", and "Status". There are three actions listed: "S48 test action no. 1" (status Started), "S48 test action no. 11" (status Ongoing), and "S48 test action no. 13" (status Ongoing). At the bottom, there is an "Action pre-view" window.

Key Functions

- Creation of a new action, upload and edit a list of actions.
- Filtering criteria for actions search and follow-up.
- Edit properties, assign one or multiple responsible.
- Create and share a scope of work.
- Expediting of action to close-out.
- Define cost, schedule and quality impacts.

Key Features

- Alerts sent by mail in weekly basis with a list of opened actions assigned to its responsible(s).
- Actions reports and schedule view. In the "Custom Report" users can select which properties to be presented on the report.
- Sync with Technip Active Directory (AD).
- Create link with relevant project objects (molecular view) and structures.

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i-Meeting – Intelligent Minutes of Meeting Tool



Meetings and their Minutes.

HOW to transform it in an easy to track lessons learned base!

Minutes of Meetings (MOM) is a key source of collaboration between Project members and a lessons learned base which contains subjects that must be followed during the Project lifecycle.

To tackle that **i-Meeting tool** was built. It allows Project Members to replace Word/Excel formats for a secure and collaborative system, which is user friendly and easy to search and follow any MOM action even after its closure, becoming the solution to address smarter MOM generation and its contents traceability.

The main benefits for Business:

- **Collaborative:** Sharing in a common base all the Project Minutes, easily accessible to all members and keeping the history. Gives all a clear status view on all MOM actions.
- **Easy to track:** MOM actions transversal view allows Project members to search and find what they need in very few minutes, saving time on their MOM actions tracking and follow-up during Project lifecycle. MOM actions are kept in the database and accessible anytime even after its closure.
- **Project result oriented:** Easy to assign actions to internal and/or external people and related Disciplines. Remind of opened actions sent in a weekly basis to its responsible(s). Standardize MOM on local or multi-center Projects and track close out of actions with several parties involved.
- **Project wise:** Allow to link other Project objects (tagged items, documents, actions and comments) to each MOM action. Generation of MOM actions status report and schedule view.
- **Security advantages:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any additional installation. Secured access and user role management.

Key Functions

- Creation of a MOM or import of an existing one.
- Copy of a previous MOM, keeping the history on periodic meetings.
- Add text, titles, actions, comments, responsible, dates and linked objects.
- Export MOM on PDF, Word or Excel formats.

Key Features

- Possible to attach pictures and other document formats.
- Integration with Action Management Tool (AM&T).
- Interfaces with EDMS.
- MOM actions reports and schedule view.
- Sync with Technip Active Directory (AD).

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HOLDMaT – Hold Management Tool



Hold management process transformation tool.

Key tool to be effective on Hold management within EPC phase!

This tool address the need to manage Holds, which are non-mature data and/or a missing data affecting deliverables to be issued.

To tackle this need a work process was defined and a **Hold Management tool** is built to rationalize the current practices and improve overall control during the Project lifecycle, allowing Disciplines to detect, register and expedite in effective way all Holds; with Business Intelligence reporting capabilities.

The main benefits for Business:

- **Technical advantages:** Data consolidation and standardization in an unique database. Documentation issued with holds could be automatically identified (only intelligent PDFs on EDMS database). Maximize hold detection through interfaces with source systems.
- **Project wise:** Dedicated tool adapted on processes and Project strategy, covering Disciplines of Process, Instrumentation, Equipment, HVAC, HSSE, Civil/Structure, Piping and Vendors. Allow to analyze, categorize and prioritize the holds improving follow-up quality.
- **Project result oriented:** Rationalize current practices and improve overall control of holds in EPC phase. Focus on key deliverables. Holds identified by source Discipline and confirmed by affected Discipline. Reporting by status, category and discipline.
- **Collaborative:** Create and view all associated actions and respective actors to expedite a hold closure.
- **Security advantages:** Only business users will be able to access the application under web browser without any additional installation.

Key Functions

- Manual creation of a hold or automatic detection on EDMS database (intelligent PDF's on PDB and VDB).
- Hold type, status and category definition.
- Impact workflow mapping and Doc to Tag functions allow automate filling of hold source Discipline, impacted Disciplines and Disciplines in action properties.
- “My Holds” follow-up page.
- Source document preview.

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Key Features

- Secured access and user role management.
- Link to a hold closure date a key gate coming from Janus and impacted key documents from EDMS.
- Add actions linked to a hold and assign accountable Disciplines.
- Sync with Technip Active Directory (AD).
- Automatic detection of a hold: Interface with EDMS and Sombrero. New interface with Janus, PDMS, SPI, SP PID by Q3 2016.
- KPI OBIEE reports and dashboards generation.

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ICoD – Internal Change of Design Tool



Work process of changes on key documentation.

Effective control and monitoring of internal changes within design phase!

This tool address the need to manage internal changes during the Project design phase.

To improve the overall control of design changes a work process was defined and an **Internal Change of Design tool** is built to allow Project Members follow changes on key documentation effectively since the Modification Sheet (MS) creation until the Disciplines actions close-out assessment, and follow its statuses with reporting capabilities.

The main benefits for Business:

- **Technical advantages:** Changes on design data consolidated in a unique database. Possibility to interface key systems which are part of internal change of design work process.
- **Project wise:** Dedicated tool, built in a clear and friendly interface, adapted on processes and Project strategy to better control the changes on key documentation during design phase. Clear view on the changes issued, approved, closed and rejected.
- **Project result oriented:** Rationalize current practices and improve overall control of design changes in design phase. Easy creation, follow-up and close-out of **Modification Sheets (MS)** and associated actions of each Discipline involved/assigned.
- **Collaborative:** Create and view all associated actions and respective actors to treat the changes.
- **Security advantages:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any additional installation.

Key Functions

- Modification Sheet generation.
- Evaluate impacts on document(s), material(s) and delays.
- Expediting of actions linked to changes.
- Assign Disciplines to act on.

Key Features

- Secured access and user role management.
- Automatic creation of actions per Discipline.
- Sync with Technip Active Directory (AD).
- Reporting capabilities by status, category and discipline.

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VIMT – Vendor Inspection Management Tool



From Inspection Planning loading to inspection close-out.

One key process for equipment robust delivery ready to be used!

VIMT aims to optimize and improve the current work processes for inspection Coordinators, and provide clear view about progress status to allow more time for problem anticipation/mitigation. VIMT addresses the need to create a centralized platform to foster collaboration between vendors, inspection agencies and project teams to handover equipment to construction teams, on time with required quality. First development phase focused on inspection tasks such as look ahead schedule, notification, reports, alerts.

The main benefits for Business:

- **Technical advantages:** Data consolidation and standardization in an unique database. Web application accessible from Technip network and from Internet. Concentrate in a single platform activities of multiple parties and reliable information.
- **Total reliable process:** Process automation and workflows of Inspection activities at Technip. Specific reports, dashboards and KPI's related to inspection activities.
- **Collaborative:** Check in real time if Vendors are following and notifying Technip correctly regarding the inspection planning. Allow external partners (e.g. Vendors, Inspectors from Agencies) to work in the same platform as Technip people.
- **Security advantages:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any additional installation.

Key Functions

- Inspection planning loading.
- Inspection Notification loading and processing.
- Flash Inspection Report reception (optional).
- Inspection Report reception and processing.
- Linking creation with associated inspection documents and tagged items.

Key Features

- Secured access and user role management.
- Sync with Technip Active Directory (AD).
- Interfaces with EDMS, SPMAT, EPC-Business to retrieve key reference data.
- Generation of inspection related reports and KPI's.
- Generation of Inspection documentation (IN, IR and Look-Ahead).
- Attachment of any file format to IR.

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IDA Integrated Database for Assignment



TECHNIP Group Database for Contracted Personnel Assignment to Construction Site

Services

IDA (Integrated Database for Assignment) is available throughout Technip for the follow-up and administration of personnel during a Technip mission. IDA is a unique platform to share contracted personnel information and keep contact with them. IDA is also a tool that supports recruitment activities of regional staffing teams and Global Construction HUB. It enables Technip to retain the most performing contracted personnel within the Group.

Functions

IDA portal brings the following functionalities to Technip:

- Share contracted resources among Regions
- Follow-up and manage resources while they are on a mission
- Identify competences and performance of contracted personnel
- Manage a resources reservoir of more than 13,000 candidates
- Accessible through Technip Intranet at <http://meida/UI/Login.aspx>



Key Benefits

- Share contracted resources information in a single database;
- Effective track/monitor trends of mobilization thru live intuitive executive dashboard at Regional, Operating Center and Project levels;
- Give to IDA users access to a live reservoir of available contracted personnel;
- IDA Users can generate reports and share the reports among other IDA users of other Region/Operating Center;
- Improve the effectiveness of staffing process through various customized modules;
- Ensure information confidentiality thru specific access rights;
- Dedicated candidate portal with live data synchronization.

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K2E – Key to Engineer

Technip



Technip Global Engineering tool that aim to aggregate and diffuse to all centers our best practices, knowledge and tools available in terms of Engineering, procurement and Construction.

Functions

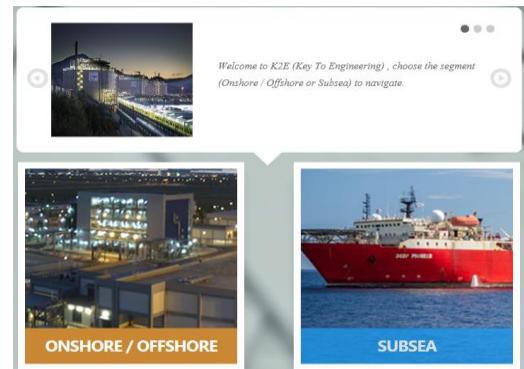
- **Depackaging GP/GC:** List of studies where options for "depackaging" of typical construction and procurement subcontractors' scope of work are analyzed.,
- **Top Suppliers/Active Yards:** Provides key data on multiregional Top Suppliers (Global Procurement) and Active Yards (Global Construction),
- **Modularization:** Collection of documentation provided by the GC to enhance Technip's knowledge on how to implement Modularization on Onshore/Offshore projects,
- **Reference Documents:** A selected collection of Group best practices documents,
- **GE Directory & Reports:** The directory of people part of the Global Engineering organization and the collection of periodical reports.
- **Engineering IT Applications:** An access to Engineering IT Applications and Websites of interest for the Global Engineering Community,
- **Mapping of Competencies** Access to existing application Leonardo (experts database) with the goal: share information on current Technip expertise,
- **Construction Engineering** is the new discipline founded with the aim to improve EPC Project performances enhancing construction execution

Key Features:

- A tool to share the latest information for all Segments and all Engineering disciplines of Technip
- Reference information and most cost-effective engineering, procurement and construction solutions easily accessible through the intranet web site <http://k2e.tenet.intra/>

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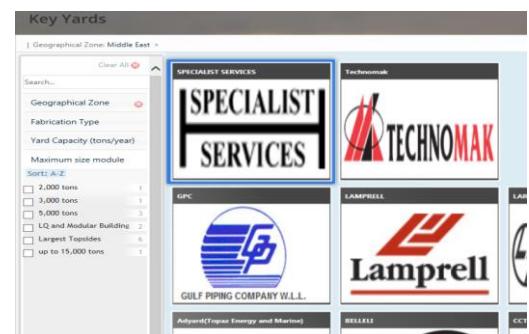
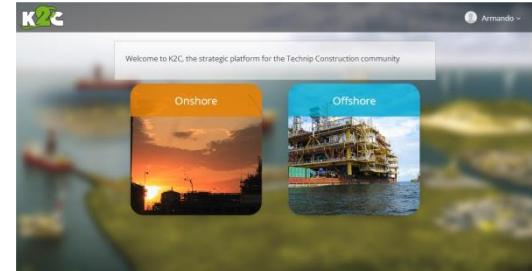
K2C – Key to Construct



Technip Global Construction tool to provide the best and most competitive practices for project construction activities for both segments, Onshore and Offshore

Functions

- **Subcontract Depackaging:** A collection of studies where options for "depackaging" of typical construction subcontractors' scope of work are analyzed,
- **CMC Solutions & Services:** A list of solutions and services developed and proposed by the Construction Method Center (CMC),
- **Active Yards:** A data base of yards contractors, with information of interest for subcontracting,
- **Site Staff and HUB Service:** A list of HUB services for staffing the jobsite and a library of HUB procedures and latest news,
- **Reference Documents:** A selected collection of helpful documents with the best practices and samples within the Group
- **Construction Directory and Reports:** The directory of people part of the Global Construction organization and the collection of periodical reports,
- **Construction IT Applications:** The Group portal to all IT Construction Applications and Websites of interest for the Global Construction Community
- **Constructability:** A database with deliverables from constructability workshops, past projects, timeline, key topics and other documents
- **Construction Engineering:** is the new discipline founded with the aim to improve EPC Project performances enhancing construction execution

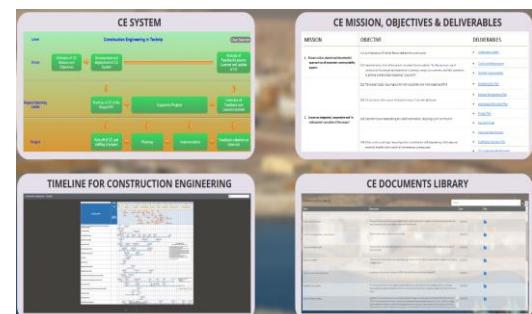


Key Features:

- A tool to disseminate high level information on Group and local Construction best practices among PM, PCM, Constructions & Subcontracting managers
- Reference information and most cost-effective construction solutions easily accessible through the intranet web site <http://k2c.tppnet.intra/>

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Technip Global Procurement (GP) tool to provide best practices and facilitate the procurement strategy definition at all phases of project execution

Functions



Onshore/Offshore

- **Sourcing from High Value Procurement (HVP) countries:** specific module dedicated to the presentation of Suppliers located in Asia; China, South-Korea, India, Vietnam, Indonesia and Malaysia.
- **Depackaging and Standardization:** best initiatives aiming at cost efficient solution. Full description in the instruction manuals showing benefits of each approach, guideline for requisitioning, management of interfaces.
- **Top Suppliers:** exerting group leverage and promoting a partnership with Top Suppliers. The module provide latest presentations, products, organization details, factories workload etc.
- **Frame Agreements:** informing on global agreements with suppliers (VDAs, PLBOs, PLSAs).
- **ITB Simplification:** recommending relaxations to contractual General Terms and Conditions (GTCs) where appropriate, Pre-Agreed GTCs with limited list of Top and Key Suppliers.
- **GP Report & Directory:** presenting to the procurement community the GP organization and the latest GP reports.
- **National Content:** assisting projects to achieve their national implication requirements for Brazil and Russian Federation.
- **Master Suppliers List:** depending on the equipment selected this module propose a list of Suppliers selected by the Category Managers.

Subsea

- **Suppliers:** presenting to users the current most competitive subsea Suppliers providing high quality equipment.

Manufacturing

- **Contract library and Key Suppliers:** sharing information between manufacturing units, updating the suppliers quality status in real time and simplifying the management of the contracts validity dates.
- **Templates:** purchasing database to achieve better management suppliers relationship.
- **Manufacturing reports:** latest news issued by each manufacturing category managers.

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Technip e-procurement tool used from Invitations to Bid to Purchase Orders, offering shared knowledge of Suppliers at Global level.

EPC-Business is Technip e-procurement tool since 2000 and a completely new version was released in 2008. It includes 4 major modules:

- **Supplier Database (SDB):** Gathers information about more than 16000 suppliers (range of activity, references, project and group rating, audit reports etc..), allowing Buyers to prepare optimal bidders lists including High Value Procurement and Top Suppliers. This database is regularly updated by Suppliers, Buyers and key members of the Global Procurement organization (Category Managers, Regional Procurement Office Managers, Area Sourcing Managers, etc.)
- **Invitation to Bid (ITB):** Buyers prepare ITB (bidders list, Item list, technical and commercial documents) and invite Suppliers to quote on-line. Buyers can compare the bids and issue several rounds of negotiation to shortlisted Bidders to obtain their best offers. A dedicated forum facilitates the clarifications between the Project team and the Bidders.
- **Purchase orders (POs):** After bid award, the PO can be generated automatically based on the latest quantities and agreed prices.
- **Project feedback:** Project team can record the Supplier's performance on a Project, through Non Conformance Reports (NCR), PO rating, audit reports, etc. These feedback increase Technip knowledge of Suppliers, and add value to the SDB.

Fully integrated application

EPC-Business is integrated with

- MDM for Suppliers
- SPMAT for material requisitions,
- PDB for project documents
- Jeevan and Geos for POs

Global tool

EPC-Business is widely used throughout the group for all segments and any type of projects (Feed, reimbursable, lumpsum, etc).

An efficient communication tool

A secured and fully traceable clarification forum allows any stakeholder to exchange information during ITB and PO phase .

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The screenshot shows the EPC-Business software interface with several tabs at the top: Projects, Activities, ITB files, PO files, Forum, Notifications, Companies, Documents, NCR, Report, Admin, Tech, and Links. The main area displays different sections of the procurement process:

- ITB Files:** Shows a table with columns: ITB number, ITB name, Activity N°, Requisition Number, Proc. Cycle Type, Material/Service Code, ITB Chrono, Status, Bid Due Date, Criticality, and Progress. Examples include "32075_000_ITB_Manufacturing" and "G01247025_ITB_Banners".
- Activities:** Shows a table with columns: Activity Number, Activity name, Project number, Entity, Activity category, effective date, and Status. Examples include "F00001_AC001_ECN Cleaning Services" and "G00001_PR001_Procurement-Chilean uranium project".
- PO Files:** Shows a table with columns: PO Number, PO Chrono, PO Name, Activity N°, Baseline date of initial PO (User local time), and Progress. Examples include "3008H0006_MR_080-032 DS & CLAD PRESSURE VESSELS_LA239237_Proposal" and "5847_000_PO_0185_15914_411000002_Waste Heat Recovery Unit".

Key Features

- Support entire purchasing process (Sourcing, ITB, PO, Supplier Rating)
- Secured access based on Active Directory and Roles
- Group-wide supplier database
- Centralized and traceable exchanges between Technip and Suppliers
- Multi-language platform (English/French/Portuguese)
- Open to Technip, Supplier, Client and Partner profiles
- Internet access at www.epc-business.com

EasyPlant



Technip group construction tool for onshore and offshore projects that handle all site activities

Functions

- HSE / BBS management Module (KPI, Incident monitoring, HSE observations, Key indicators, Environmental data)
- Planning and Progress Module connected to Primavera and to Discipline Modules (Piping, Structure)
- Quality Management in digital validation and on paper (online and offline with synchronization procedures)
- Subcontractor / Technip Inspector / Client Modules for quality digital follow-up
- Steel structure Module managing all phases from the detail design up to the site modifications at assembly mark level
- Piping Module for the follow-up of all piping activities from the spooling up to the release for Commissioning, using Personal Digital Assistance
- Job card Module for Work package / Job card management
- Specific Site Activities management Module (Test Pack / Loop check / System Punch list)
- Preservation Module for Initial Preservation, Maintenance during Preservation and Restoration follow-up
- Site personnel management Module for direct / indirect workers
- Project Handover Module



Key Features

- Unique platform for integrated functional and discipline Modules to handle all construction activities using the same database
- Developed on input directly coming from Site experience, it allows a deeper control of the construction performance on site
- Flexible in managing specific project needs and execution strategy
- Web based application accessible from everywhere and from any device through the web site

<http://easyplant.apps.technip.com/login.asp>

- Interfaced with other Technip applications (SPMAT, SPI, SPEL, PRIMEVRA, 3D Model, TEKLA)
- Reliable and accessible according to defined access rights for each kind of User profile (from internet and intranet)
- No License required and supported by Technip internal organization from set-up to operation phases

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EasySubcontract

The EasyPlant's Subcontract Management Module

EASY SUBCONTRACT



A tool to manage all Construction Subcontracts from the award up to the close out

Functions

- **Integrated within EasyPlant:** The EasySubcontract Module is accessible from EasyPlant homepage as other Modules. It takes advantage of all data already available in EasyPlant, such as Subcontract scope of works, progress, key quantities etc... But EasySubcontract can also be implemented on projects that do not use EasyPlant, it then becomes stand alone accessible from the website <http://easysubcontract.apps.technip.com>
- **Comprehensive Subcontract and Variations management:** EasySubcontract is dedicated to the management of the subcontracts, their parameters, amendments, related official documents and the variations that can occur among the subcontract's lifecycle (scope change, work orders, backcharges and liquidated damages etc...).
- **Interactions based on Workflows:** EasySubcontract supports the interactions between Technip and its Subcontractors based on workflows. Subcontractors can connect to the solution and are involved in the validation process of the documents that are addressed to them by Technip. In the other way, they can themselves issue some documents toward Technip. All interactions are integrated and automatized, thus eliminating the need to copy data from one system to the other or retype data from a paper.
- **Precise and traceable management of financial aspects:** the subcontract's agreed progress is taken from EasyPlant (when used) and alongside all the subcontract's variations, allows to calculate the amounts to be paid to subcontractors every month. The tool tracks all the elements prevailing to the edition of monthly invoices and allows an automated reception in the ERPs (Jeevan and Geos), by creating Purchase Orders based on the Monthly Financial Status reports. This process limits the risk of errors for Technip.
- **Subcontracts Forecast:** EasySubcontract also gives a forecast of the subcontract's final amount based on all known variations, risks, claims and key quantities variations. This allows a great reduction in workload and adds accuracy to cost control and project planning processes.
- **Global reporting:** EasySubcontract embeds predefined reporting at subcontract and project level and feeds the PES DataWareHouse with useful "live" information to allow a better control over the project financial risks and continuous improvement of the subcontractors relationship management.

Key Benefits

- Improved subcontract management practices
- Better tracking of the origin of variations
- Improved anticipation of impacts on Project's budget
- Elimination of low-value administrative tasks, thus allowing collaborators to focus on risk management
- Reduction of errors and prevention of overpayments

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Technip

take it further®

Find it

Search Engine for Project Execution



find it

Find it is a search engine powered by Google to find information across the main Technip sources: reference documents and Project tools.

Functions

- Search on Technip systems
 - Lotus Notes databases
 - SharePoint sites
 - Shared folders
- Easy access to Technip Group reference documents and Project documents
- Same access rights as in source tools

Key Features

- Search on keyword(s), combination of keywords, advanced search
- Filter results by
 - Year
 - Document type: pdf, excel, word, ...
 - Category: Project, reference document, ...
- Sort by language, time
- Suggestion of related items

Search
Advanced search

All News Projects Referential Pictures and videos

Any language ▾ Any time ▾

Year		About 596 results (0.81 seconds)	Results 1-10 for manifold
All	(510)	Sort by date / Sort by relevance	
2015	(130)	Outlet Manifold Supports List Item Outlet Manifold Supports. Attachments, 0. ... LL_Description, Hold was still shown on outlet manifold for the support details and quantities. ... http://wks-fr.exnet.technip.com/.../DispForm.aspx?ID=3287	
2014	(340)		
2013	(15)		
2012	(1)		
More			

Related

Material codification
 Material code: [Reformer outlet manifold material \(012102\)](#)
 Parent material code: [Catalyst tubes and outlet sub-header assemblies \(0121\)](#)

Material code: [Welding of outlet pigtailed to manifolds \(012105\)](#)
 Parent material code: [Catalyst tubes and outlet sub-header assemblies \(0121\)](#)

Work codification
 Work code: [Subsea manifolds_x-mas trees_well heads \(5234\)](#)
 Work material code: [Equipment linked to subsea connections \(5230\)](#)

Engineering codification
 Engineering discipline: [Subsea - installation engineering \(58\)](#)
 Engineering task: [Installation surf-lifting \(manifolds\) \(5809\)](#)

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3D Construct

based on Bentley ConstructSim and CMC templates



3D Construct provides an interactive virtual simulation model for the construction industry

Functions

- **3D Construct** presents the model with a new interactive planning environment called Virtual Construction Model (VCM) that supports the innovative thinking process of the project team during the macro planning phase of design-build projects. 3D Construct provides the project participants with appropriate tools to test different work execution and site layout planning scenarios early during project development.
- **Interoperability with various data sources:** 3D Construct allows the user to combine data from various sources and create a single source of project information in the form of a Virtual Construction Model (VCM). 3D Construct conversion adapters enclose the ability to read and process data and geometrics from different engineering models such as PDS, Intergraph SP3D, Autoplant, PDMS, Tekla Structures and SpoolGen spooling information into construction model.
- **4D Schedule simulation:** 3D Construct reads the Primavera P3/P6 to view the project schedule sequence. The user can view the 4D playback of the schedule which provides a clear idea of the sequence, and therefore, modify any issues that may rise.
- **Planning (The 3D Construct Approach):** Workpackages are assembled by pointing and clicking on objects in the 3D model. Typically, the user creates work packs that equal 1 weeks worth of effort for a single construction crew. If we do this early in the design process, the project team can define the priority areas that can be fed back to both engineering and fabrication. Then, there is a formal process of validating the constraints for each work pack. When the user is certain that construction crews can fully build each work package on time then the work packages are issued to the field. It is common to build up a buffer of work packages as a 2 – 8 week look ahead.
- **Status Visualization (Identify Components Site Condition):** Component status visualization feature enables the different discipline planners to visualize the components actual site conditions and gives full advantage for planners to visualize the component erect-ability condition, in addition to defining targets for different discipline erection crew teams at different time (month/week/day) level.).

Key Benefits

- Provides an insight to project progress, therefore, greater control and visibility of project
- Potential to have a shortened schedule, gives the project members an awareness of where they stand and what are their next steps
- Streamline materials, equipment & sequencing
- Speed time to start-up by systems tracking
- Improves field productivity (estimated by 7-25%)

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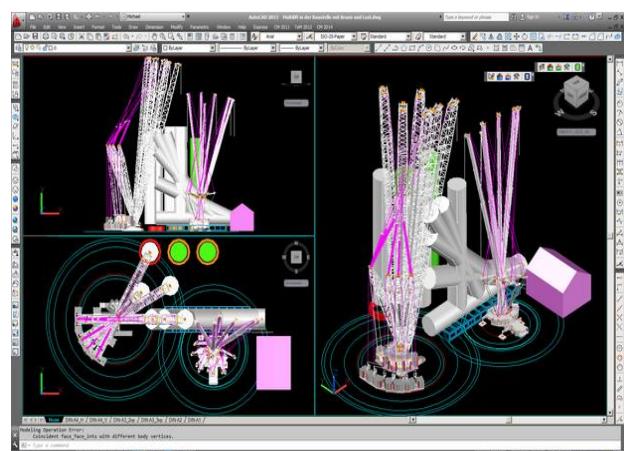
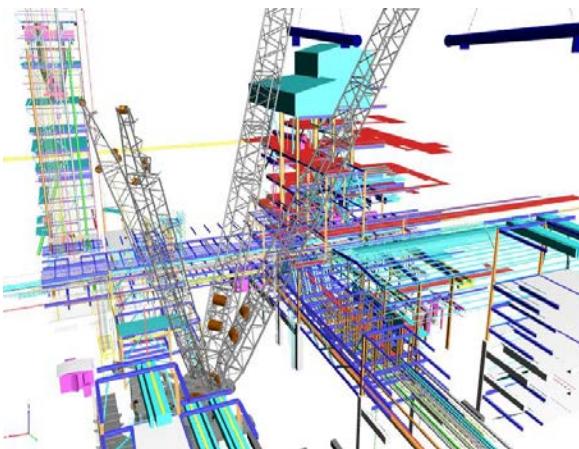
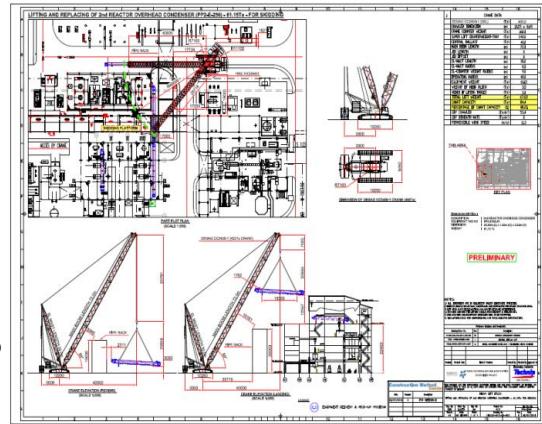
With Crane Manager 2014, we don't guess, we calculate !

Introduction

Crane Manager 2014 is a tool for the preparation of Lifting Study. It contain the library of the a wide number of cranes available in the market and for each one provide the capacity based on the chosen configuration. It has also cad tools to model in 3D the chosen crane (with required configuration) and the elements to be lifted and the eventual obstacles helping in this way to evaluate volume wise all the constrains to the lifting.

Key Features

- **The crane selection:** Search and assemble with parts which are accurate in dimensioning.
- **The crane navigation menu:** 3D view with zoom, pan and orbit functions
- **OBB:** includes all well known OBB (OBstacle Builder) functions you know from the 3D CAD
- **RHL:** includes all well known RHL (Rigging Hook & Load) functions you know from the 3D CAD
- **The Job-site:** includes all well known OBB (OBstacle Builder) functions you know from the 3D CAD
- **Tandem / multi-lift function:** Lift one load together with two and up to eight (8) cranes
- **The 3D visualization of the lifting can be exported as Cad for:**
 - Classic 2D Lifting Study
 - Very effective 3D Lifting Study
 - Precise 3D Lifting Study in the Project 3D Model



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CADPMC – Computer Aided Design Piping Material Class

Computer Aided Design Piping Material Class is a web based tool which facilitates the piping components requests and follow-up for 3D Applications

CADPMC provides a new bi-directional workflow engine to prioritize and track the delivery of requested components for 3D applications. Moreover, it integrates the process through SmartPlant Materials (SPMAT) application

Main CADPMC Modules

- **External Data Integration:** The CADPMC application Will retrieve data from the SPMAT database for the component details
- **New Bidirectional workflow and status:** In order to facilitate exchanges and allow interactive response between admins and end users. Thus, the CADPMC application will provide two new statuses in order to adapt to the new 3D applications .
- **Security:** Only business users and authorized non-Technip users (Third-Party) will be able to access the application under web browser without any requirement for additional installation. Business rules and materials information, which are Technip sensitive information, are protected.
- **Dashboard & KPI Reporting:** Generates quantitative reports based on Role, Component family, Component Item, Request Status at Project level



Pre-requisite

- Piping components materials managed by TECHNIP SmartPlant Materials (SPMAT)

Key Benefits

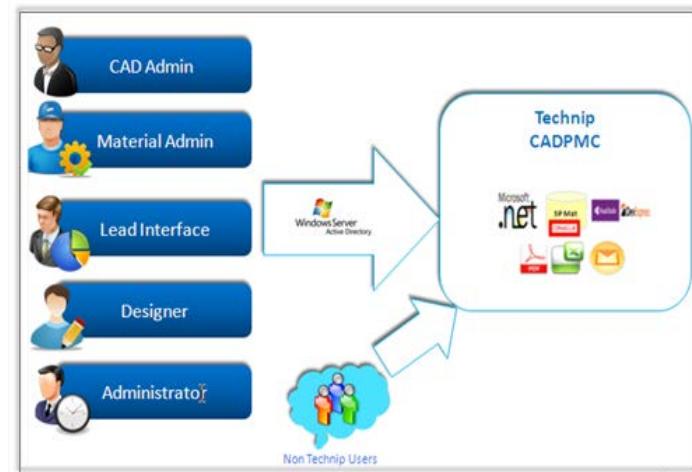
- User interface that is simple, intuitive, and yet powerful
- Low cost maintenance and support
- Improved performance
- Lightweight global application to raise a request
- Access application through a common web browser including for Third party involved on project

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Key Functions

- The CADPMC request and approval solution is deployed at the corporate level in the Oracle Application Server production environment



Key Features

- Easy Integration with other systems running on the native technologies
- Secured socket layer access (https) and user role management
- Interfaces with SPMAT

CADPMC Status

- Beta version in key user test phase Q4/13
- Version 1.0 in pilot in Technip France Paris in Q1/14
- Version 1.0.1.5 in Production on Yamal, Sibur projects
- Version 1.0.1.6 KPI reporting Q1/16

- IT Application Owner and Project access request
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Mobile Application Technology

Handheld Computers

 Construction is an information intensive industry in which the accuracy and timeliness of information is paramount

Introduction

- **Construction projects** can experience extensive delays or rework due to information that is unavailable, inaccurate or simply outdated. Handheld computers (HHC) have the potential to solve some of these problems by providing field workers with accurate, reliable and timely information at the location where it is needed.
- **Handheld computer** is a self-contained electronic device that fits in the palm of a user's hand and possesses, at a minimum, enough computer processing power to surpass the functions of electronic personal organizer and to run software applications that can extend its built-in functionality.

Increase in:	Reduction in:
Accountability Competitive position Communication Design and construction quality Expert knowledge in the field Global reach Instant access to relevant information Integration of information from various sources Operational efficiency Personal productivity Production efficiency Resource flexibility Safety Workload leveling	Clerical staff requirements Construction cost Construction errors Data processing errors Data re-keying Delays Liability Mail costs Maintenance costs Paper handling and clerical costs Supply and distribution costs Time to project completion Travel

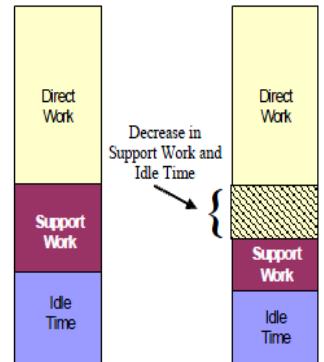


Fig 1– HHC's decrease support work and idle time.

Mobile EasyPiping

- **Progress Reporting:** This functionality is used to record the Piping progress. The following Progress activities can be recorded in PDA and updated in EasyPiping: Spool Fabrication Progress, Spool Erection Progress, Weld Progress.
- **Spool Tracking:** This module is used to track the movement of Spools. By using this functionality, EasyPiping is able to identify the last tracked location of the Spool and the Movement history.
- **View / Find Data:** This module is mainly used to review the scanned data so far from last synchronization of PDA. This module also helps the user to find out the attributes of selected Spool or Weld existing in the EasyPiping.
- **Data Exchange:** Setup the Communication Profile, Synchronization

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Key Selection Factors:

*Onshore / Offshore / Process Tools Business Domain
Project Execution Systems*

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Intergraph SmartPlant Suite	12		€€				
Intergraph DDMS – SP Foundation	13		€€				
Intergraph SP P&ID	14		€€				
Intergraph SP3D SM3D	15		€€				
Intergraph SPMAT	16		€€				
Intergraph SP Instrumentation	17		€€				
Intergraph SP Electrical	18		€€				
Intergraph SmartPlant Spoolgen	19		€€				
AVEVA Suite	20		€€				
AVEVA DDMS	21		€€				
AVEVA PDMS	22		€€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Technip CONFIDENTIAL
Information

Key Selection Factors:

Onshore / Offshore / PT Business Domain Project Execution Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Aspentech Hysys	23		€				
Onshore Offshore Group scientific Tools	24		€				
Caesar II	26		€				
xDB EDMS	27		€				
New EDMS (GAIA)	28		€				
Project Data 360	29		€				
AM&T	30		€				
i-Meeting	31		€				
HOLDMaT	32		€				
ICoD	33		€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

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Key Selection Factors:

Onshore / Offshore / PT Business Domain

Project Execution Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
VIMT	34		€				
IDA	35		€				
K2E	36		€				
K2C	37		€				
K2P	38		€				
EPC-Business	39		€				
EasyPlant	40		€€				
EasySubcontract	41		€€				
Find it	42		€				
3D Construct	43		€€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Key Selection Factors:

Onshore / Offshore / PT Business Domain

Project Execution Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Cranimax	44						
CADPMC	45						
Mobile Application Technology	46						

Technip CONFIDENTIAL Information

LEGENDS

Implementation Factors	Low	Med.	High	Other Information
Complexity (Easy, Average, Difficult)				Application Focus:
Cost (Cheap, Medium, Expensive)				Project: Back Office:
Time required (Short, Average, Long)				Support localization :
Training effort (Easy, Average, Difficult)				Global: Local:

*Onshore / Offshore /
Process Tools Business Domain*
PMS - Project Management Systems





Version 2.8
February 2015

Janus is the Technip Group progress measurement system that allows the calculation of the physical progress of Home Offices Services including Engineering, Procurement and Manufacturing.

Main Janus concepts and functionalities

Janus overview

The purpose of Janus is to allow the progress measurement of Home Office activities in all Technip Group Projects.

As such, Janus is ideally suited for the management of complex projects (split in several phases, involving multiple OECs, including external partners).

In order to satisfy these needs, Janus is based on the following concepts:

- **Deliverables and Milestones:** Progress is measured through weighted deliverables being split into a set of milestones.
- **Breakdown structures:** distinction is made between Work, Discipline, Organization and Phase Breakdown Structures.
- **Budgets:** there are two types of budgets one on Project side based on its breakdown by discipline (**Main**), one for involved OECs and their respective local organizations (**Internal**).

Based on these concepts, Janus provides a complete tracking of the current situation of Projects as well as prediction in terms of:

- Physical progress
- Hour expenses and hourly progress
- Performance (productivity)
- Mobilization of manpower

Managed directly by the Disciplines Engineers for set-up, update and reporting, the tool is accessible by all project team members.

Janus can be interfaced with Planning System, Man-hours Expenditure System, Document Management System and Material Management System.

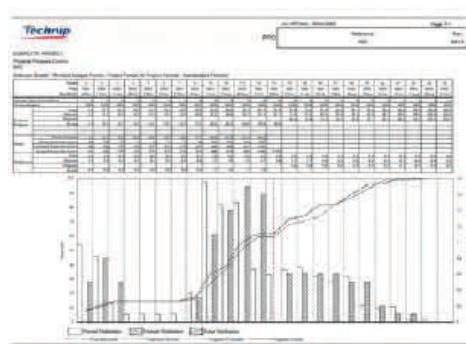
Janus Version 1 was released to production in April 2004. Since then, the application has

been greatly enhanced to adapt its features to the evolving Technip business needs.

Today, Janus serves more than 200 active projects and has a community of 3000 users worldwide.

The current version of Janus includes:

- Offline data preparations via Excel from wherever you are
- Integration of Physical Progress calculated by other measurement tool
- Possibility to calculate Actual Physical Progress "live"



Example of Physical progress control report

- Enhanced Reporting and Analysis including inter-project consolidation
- Possibility to revise the budgets or re-plan
- Link with Project Schedule (Primavera, MS Project or other)

Key Features

- Physical Progress Measurement tool accessible through Corporate Intranet
- Internal Budget Control (manhours)
- Level 4 Schedule
- Part of Document Management System
- Data import and export using Excel
- Powerful reporting engine
- Supporting PDF and Excel report formats

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rev. May 26, 2015

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SEZAME



SEZAME is the Technip Group application that allows the calculation of physical project progress on a simplified structure

Version 2.0
July 2014

Main concepts & functionalities

Sezame is based on the following concepts:

Physical progress: it includes planned, forecast & actual calculation for earned value physical progress.

Breakdown structures: a project can be subdivided according to one or two breakdown structures.

Work items and milestone chains: each work item is assigned a milestone chain containing a series of weighted milestones to follow up the progress.

Budget: the working manhours amount can be used for breakdowns and work item weights.

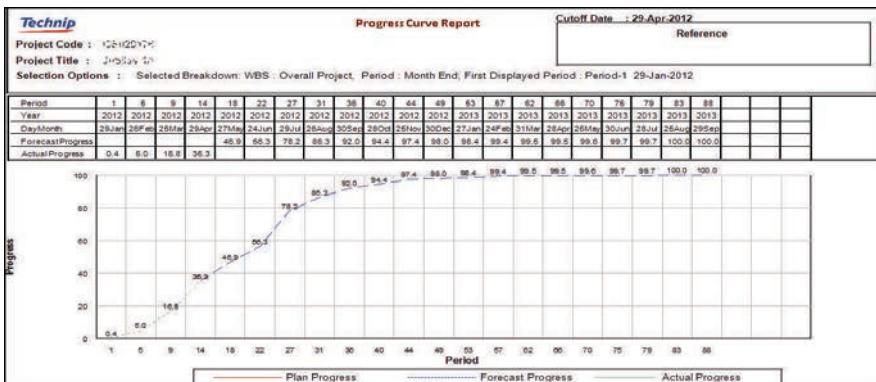
Sezame can be used:

- for small projects;
- as a temporary progress calculation system for complex projects start-up;
- by Subcontractors or Partners whose physical progress measurement system is not satisfactory, or not existing.

Sezame provides a tracking of the current situation of projects in terms of the following outputs:

- Work Items grouped by Breakdown;
- Actual Progress grouped by Breakdown;
- Progress Summary;
- Progress Curve;
- Progress Histogram.

Example of Progress Curve Report



Example of Progress Summary Report

Progress Summary Report															Cutoff Date : 29-Apr-2012	Reference	
															Ref 01		
Selection Options : Selected Breakdown:WBS :Overall Project, Period : Month End; First Displayed Period : Period-1 29-Jan-2012																	
WBS Code & Title : WPF - Package 1 - G1200 Operations & Fab. in the US																	
WBS Code & Title : WPF3 - Package 3 - Flexible Supply																	
WBS Code & Title : WPF4 - Package 4 - Deep Pioneer Operations																	
Total :																	

Key Features

- Physical Progress Measurement tool (according to Technip standard methodology).
- Level 4 Schedule.
- Cross-reference to Primavera via Primavera Task Reference field.
- Data import and export using Excel.
- Supporting PDF and Excel report formats.
- Interface with Janus to prepare a smooth migration into the tool.
- Used on a local machine, no need for internet connection.
- Can be used by Subcontractors.
- Secured by a Key with a pre-defined period of validity.

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Athena is the Technip Group application for workload and resource forecast evaluation, providing reports at both Group and Operation / Engineering Center levels, and analyzing impact of key prospects on workload.

Version 1.2a

December 2015

Main Athena functionalities

- Standardization of Measurement**

Referentials are defined at the Corporate and Operation and Engineering Center (OEC) level, to standardize entry and reporting of workload and resource forecasts.

- Forecast Entry**

The workload and resource forecast information shall be provided for each department of the OEC.

Forecast Cycle Workflow

Occurs on a monthly basis and allows forecast entry, approval and locking.

Multiple Forecast Entry Modes

Athena provides screen entry mode and Excel import mode for forecast data.

User-Friendly Screen Entry

Enables efficient data entry.

Dynamic Approval Mechanism

Intermediate approval points can be defined to represent the organization's hierarchy. Following approval by all intermediate points, the OEC administrator can lock the forecast and prepare the next cycle.

- Comparison of Workload and Resource Forecast**

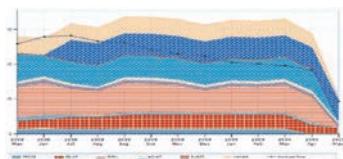
Powerful Reporting Engine

Athena can generate rich forecast reports thanks to various grouping, sorting and filtering criteria, as well as format presentation options. The data available in the report depend on the access rights of the user. Also, snapshots can be captured at any point of time to allow reporting on "outdated but useful" information. Reports are available in Excel and PDF formats.

Multiple OECs by Discipline Report



Graphical View



- Analyzing Impact of Prospective Workload**

Modeling Typical Project Breakdowns

Athena provides "Simulation Models" depending upon the profile of the prospects (scope of work, technology field, duration, etc). These models can be used as templates for quickly simulating prospects.

Simulation of Key Prospects

A simulation is the envisaged mobilization for one prospect. Athena allows defining several simulations for the same prospect. The simulations can show the variation of the split of work across several OEC's or at corporate level, and are also available for department heads.

Depiction of Practical Scenarios

A scenario is a group of simulations having some characteristics in common (e.g. prospects of a given segment; with high probability of award; for which the award will be decided shortly by the client).

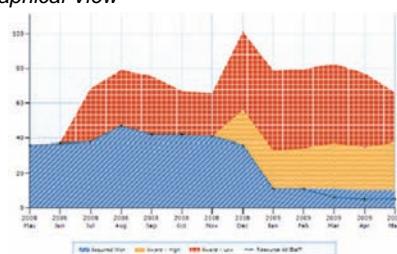
Flexible Reporting Capabilities

Athena offers the possibility to report on one or several scenarios, Actual Workload Forecast and Actual Resources Forecast. The scenario reports can be presented in matrix or graphical form. Several presentation options enable the report to be formatted in different ways.

Scenario Report



Graphical View



Key Features

- Accessible through the Corporate Intranet
- Data import and export using Excel
- Powerful reporting engine
- Supporting PDF and Excel report formats

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rev. Jan 12, 2016

WPS Workload Planning System

WPS

WPS is the Technip Group application for managing the assignment of resources to Projects and/or Prospects at individual level, allowing more visibility and accurate reporting. WPS can operate as a functional extension of Athena, the Technip Group application for workload and resources forecast evaluation.

Version 1.0.2

November 2015

Main WPS functionalities

- Department Heads can:**
 - Assign their resources through a **people search functionality** using **Technip Active Directory** information including photos of people. Also part-time and future resources can be created and managed.



Fig. 1 Resource Definition and Assignment

- Build for each project an **organization chart for the project-relevant positions**.
- Track visually their staffing of every project during project life.
- Extract and consolidate in graphical (PDF) and tabular (Excel) formats the **resources assigned to projects** and the **total workload level of the department** for quick reporting. Excel reporting can be used to input workload data into **Athena** for **Workload and Resources** forecast consolidation.
- Assignment to a project is defined by **start-end dates** and with a **work allocation rate** allowing simultaneous assignment.



Fig. 2 Project Organization Chart

- Prospects** can be managed similarly to awarded projects. The **OEC Administrator** is responsible for defining the Prospects, relevant status parameter and award probability. Potential assignment of resources could be either defined by the Department Heads or by the OEC Administrator. Reports will consolidate both Prospects and Awarded projects showing the **Workload Planning of the Department**.

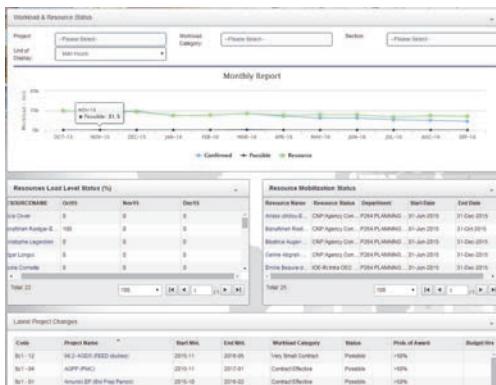


Fig. 3 Department Dashboard

- Dashboard screens** provide a **snapshot** of the current workload and resource level at the user's access level.
- OEC information, OEC organization and Project information** can be imported from **Athena**. This insures that **WPS uses Corporate Referential Information** to generate reporting.

Key Features

- User-friendly and tablet compatible
- Accessible through the Corporate Intranet
- Data import and export using Excel
- Powerful reporting engine
- Managers dashboard to provide quick alerts on personnel short-term situation
- Interfaced with Athena

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IMT Interface Management Tool



IMT is the Technip Group application that allows teams from various companies, working together on industrial projects, to exchange, share and coordinate over the specific issues regarding interface points.

Version 1.16
October 2015

Main IMT functionalities

Today's oil and gas projects have become more complex with the involvement of many players, necessitating a closer attention to the management of interfaces as a key factor for the overall project success.

IMT has been developed to meet this main business need by pursuing the following objectives:

- facilitating communication about interfaces between all project Partners;
- keeping interfaces recorded and under control;
- allowing access to the project documentation associated with interfaces.

IMT provides the project administrator with an intuitive interface to tailor the project parame-

- **IFQ issuing:** the interface coordinator from the issuing party validates the IFQ definition.
- **IFQ data agreement (optional):** step where the concerned parties can validate the IFQ description and deadline.
- **Information exchange:** a discussion between the issuer and the other parties to follow up the interface issues.
- **Client validation (optional) and closure:** the coordinator from the issuing party closes the IFQ.

IMT can also be used as a database of Interface Points (IP) and drawings/documents, and allows easily linking the IP data and attaching documents to related IFQ exchange.

Key Features

- Intuitive tool based on SharePoint 2010 collaborative system
- Flexible IFQ workflow
- IFQ tracking through visual indicators and automatic email notifications
- Powerful search and reporting engines for easy data retrieval
- Password-protected access for both Technip and external partners

Fig. 1 The Interface Collection homepage

ters and define the data pertaining to partners, disciplines, and interface collections (Figure 1).

Communicating over interfaces is possible through the exchange of Interface Form Queries (IFQ).

The IFQ workflow passes through the following steps (Figure 2):

Tracking the IFQ status is facilitated by visual indicators and automatic email notifications throughout the day-to-day operations, thus ensuring interfaces are closed on time and avoiding conflicts and costly claims.

IMT provides a reporting capability to generate the final interface documentation at both individual (the IFQ Track Sheet, Figure 3) and comprehensive level (the Collection Summary Report, Figure 4).

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rev. Jan 12, 2016

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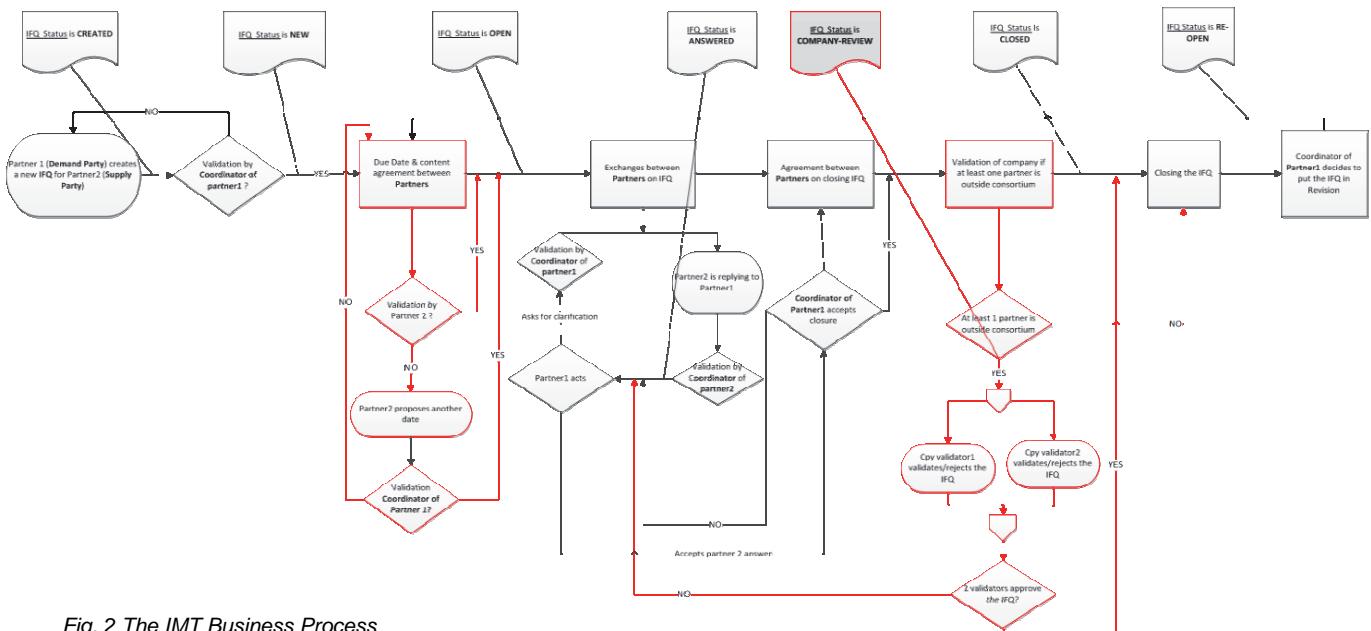


Fig. 2 The IMT Business Process

INTERFACE QUERY

IFQ No:
REVISION :
STATUS :

5867-TP-DSME-IFQ-VC-0111

01

CLOSED

REQUESTED BY :		TO BE ANSWERED BY :	
O R I G I N A T I N G	Demand Party: TP Coordinator: WanHarrisAmir WanMohamedNor Discipline: WEIGHT CONTROL Engineer: Ramesh Jagannath DATE: 10/16/2012	Supply Party: DSME DUE DATE: 11/19/2012	
P A R T Y	CRITICAL: False IFQ TITLE : Hull Weight Control Report Rev 1 Nov 2012 Interface Point:		
IFQ DESCRIPTION : <div style="background-color: yellow; padding: 2px;"> DSME is requested to provide advance copy of the Hull WCR Rev 1 for Nov 2012. If no comments received from TP, DSME may issue the final report by 22 Nov 2012. </div>			

Fig. 3 The IFQ Individual Track Sheet

PETRONAS SOFEC		5867 INTERFACE QUERY REGISTER		IMT Collection Status 2/24/2013						
		5867-TP-SOFEC	5867-TP-SOFEC	CREATED 1	ANSWERED 6					
		NEW 2	CLOSED 7	OPEN 4	REOPEN 0					
5867-TP-SOFEC-IFQ-TMS-0013	00	IP Rating and HAC for Winch HPU	Nur Mohammad Aшиq Jalil Abdullah	2/20/2013	Omar DeAndrade-External	2/22/2013	2/27/2013	OPEN	No	Pls find below DSME confirmation on winch HPU: IP GRADE : IP22 is enough for electrical panel in turret equipment room as per DNV-OS-D201Ch.2 Sec.10 table B1. But heating elements for keeping it dry when not in use shall be provided. The heating element shall normally be automatically switched on when the equipment is switched on. Preliminary blast load on Turret is: Dynamic pressure = 0.32 barg Static pressure = 0.48 barg Note that this is still pre-lim and under review.
5867-TP-SOFEC-IFQ-TMS-0012	00	Turret Blast Load Value	Nur Mohammad Aшиq Jalil Abdullah	2/19/2013	Omar DeAndrade-External	2/22/2013	2/26/2013	OPEN	No	Note that this is still pre-lim and under review.
5867-TP-SOFEC-IFQ-TMS-0011	00	test	Nur Mohammad Aшиq Jalil Abdullah	2/15/2013	Omar DeAndrade-External	2/19/2013	2/22/2013	CREATED	No	
5867-TP-SOFEC-IFQ-TMS-0010	02	TP Comments On SOFEC Schedule Package and MDR	Nur Mohammad Aшиq Jalil Abdullah	2/15/2013	Omar DeAndrade-External	2/21/2013	2/22/2013	ANSWERED	No	We re-attach our comments on MDR & schedule.

Fig. 4 The Interface Collection Summary Report

CDB allows to record, track and report "change items", i.e. opportunities / threats to a Contract. Change items can be followed as soon as they are identified until they become a Change Order, a source of dispute (Claim) or, eventually, are abandoned.

Version 1.3.1
May 2015

Main CDB functionalities

During the course of a project, changes are practically inevitable and, generally, opportunities to increase project revenues are limited to the ones covered by the "change clause" of the contract.

Either the Client expressly requests the Contractor to implement a change or the Contractor is the initiator of the change and requests the Client to recognize Contractor's entitlement to a change order. In both cases the Contract Administration Manager (CAM) must follow closely the request from the very first step until the conclusion stage of the change.

The CDB application is designed to help the CAM in tracking, monitoring and reporting the change items as well as helping the Project in decision making.

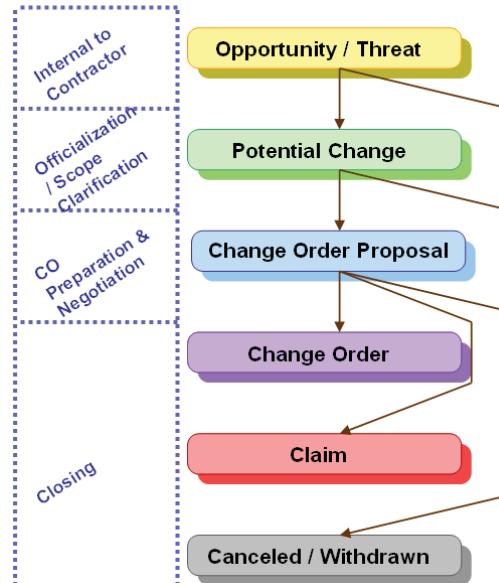


Figure 1: Life cycle of a Change Item

Change Item Life Cycle

CDB allows the follow-up and monitoring of a possible change across its various phases (see Figure 1).

Opportunity and Threat (OT) This is internal to the Contractor and consists in identifying any opportunity or threat at the earliest (even rumors) in order to keep trace of it and manage it properly.

Potential Change (PC) At a time, the information of the Opportunity or Threat is confirmed and either the Client as initiator or the Contractor informs the other party (could be under the form of a Trend Alert). From this point, the Contractor is officially entitled to work on the Potential Change.

Change Order Proposal (COP) When the Potential Change reaches a sufficient level of maturity (i.e. a clear definition of the change's scope), a corresponding proposal with all necessary details (evaluation, consequences on the price and/or the schedule, etc.) can be prepared, submitted to the Client, discussed, revised until partial or total agreement (or no agreement at all) is reached.

Change Order (CO) If the COP is totally or partially agreed between the two parties,

there will be the issuance and signature of a Change Order which will close the life-cycle of the change item.

Claim In case of no agreement found, a claim could be raised and it will also be recorded in CDB.

Change Item Breakdown

- For each of these phases, the CAM will record all necessary details (see Figure 2):
- global impact on schedule and schedule impact per contract;
 - status;
 - phase start and end date, from which the "age index" is calculated;



Figure 2: Change Item Breakdown

Key Features

- Recording and monitoring change opportunities / threats, from identification to Change Order or Claim
- Excel reporting with history of Contract Administration evolution on the Project
- Vocabulary customization to comply with Client wording
- Connection with Project Correspondence Management System

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rev. May 22, 2015

- cost impact per contract and per contractor within a contract and as per price breakdown and the currencies defined for the considered contract, having in mind that the structure can be very simple on a simple project;
- reference to documents recorded in a Correspondence Management System;
- attachment of any other document.

All this information can be inherited from one phase

Figure 3: Change Item data entry screen

to the next one in order to minimize the entry of repetitive information.

CDB also offers the possibility of renaming fields,

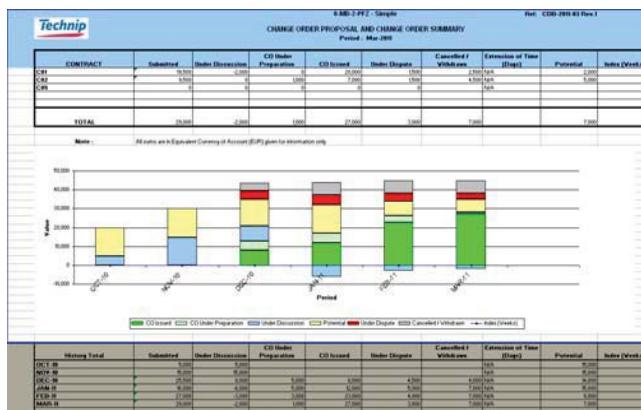


Figure 4: Excel Report with graphical data representation

adding specific fields to the project (free criteria) to respond better to project and Client requests.

Reporting

CDB can produce Excel reports containing:

- a summary report where is summarized the key information, contract by contract, along with an historical graph showing the evolution of change management situation over the time.
- all the details about change items, listed according to the respective phase and contract of the project.

These reports being Excel based, it is possible at anytime to include additional comments.

On a day-to-day basis, CDB provides lists of change items (all together or phase-wise). All these lists allow filtering on multiple criteria such as person in charge, status, contract, etc., in order to facilitate the

retrieval of a particular

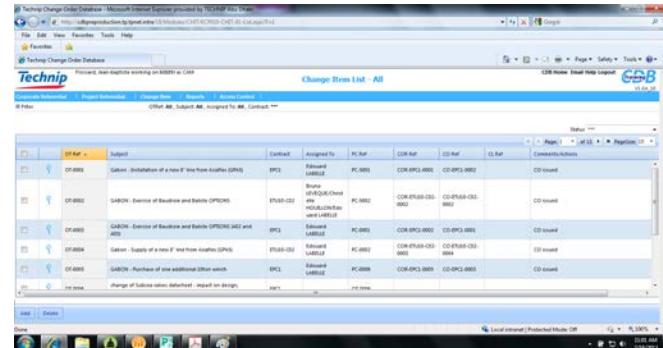


Figure 5: Change Item List

change item (Figure 5).

Exchange Rates

Because projects usually deal with several currencies, CDB is designed to manage as many currencies as necessary. A Currency of Account (CoA) can also be defined.

During project life cycle, multiple situations can occur and exchange rates may not be fixed values valid all over the considered project. CDB responds to this need by allowing definition of exchange rates at multiple levels:

- at project level;
- at contract level;
- at the different phases of a change item.

Customization

From one project to another one the wording used by the Client may differ from Technip standards (e.g. "variation order" instead of "change order").

In order to avoid confusion, CDB offers the possibility of customizing the wording for most concepts, i.e. phase name, status, etc. Also the logo appearing on the reports can be modified.

All these adaptations are reflected across the application for the considered project.

Access Control, Autonomy, Security

The CDB local administrator will initiate the new projects (creation or setup of phase of the project) and will give access to the initial project CAM.

The CAM in charge of the project can grant access to whoever needs to access it. A user can be assigned simple reader or CAM responsibilities.

Every project is independent and administered by the CAM of that project. As a consequence, sensitive and confidential information that is recorded for a given project will remain protected from anybody inside or outside the Technip Group.

So, if desired, the only information channel could be the reports issued from CDB when it is decided to distribute them.

CDB

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COST2EST



COST2EST (Cost Control to Estimating) is a tool that provides feedback from the actual execution of projects to management, Cost Controllers and Estimators

Version 1.2
July 2015

Main concepts & functionalities

Cost2Est is essentially used to:

- Give visibility on project execution final data.
- Allow better estimation by Estimators and better forecast by Cost Controllers on new projects, by means of a comparison with existing data of similar projects.
- Give an idea on where a specific project stands as compared to other similar projects in the Region or in the Group.

Historical database

- Cost2Est contains a historical database about Tenders and Contracts in the Onshore and Offshore segments.
- Filters can be used to list projects having similar criteria: Region, Technology, Unit, etc.
- Within a project Estimating data are compared with its final data.
- Data include key quantities and costs.
- Data are entered manually by estimators and cost controllers and are accessible by Top management .

Historical Data Reports

Six types of reports can be generated:

- Project Information
- Main key quantities
- Material amount
- Construction: Job site works
- Construction: Job site personnel
- Services and Direct Expenses

Significant parameters & statistical charts

- In each Report a set of significant parameters (key indicators) is identified.
- A significant parameter generates a Statistical Chart to compare data between projects.

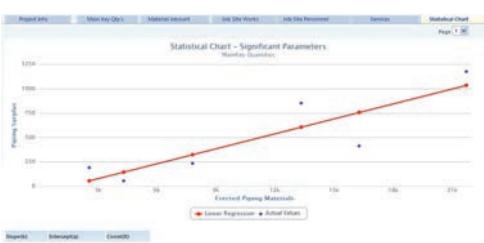
Projects list and filter

Report example (Material Amount)

Significant parameters

SIGNIFICANT PARAMETERS (DRAFT DATA)		Estimate	Forecast/Final
Electr.Surplus on final quantities = Surplus of Electric Cables / Electrical Cables		0%	0%
Piping = Surplus on piping materials = piping Surplus / Erected Piping Materials		0%	0%
Instrument Surplus on final quantities = Surplus of Instrument Cables / Instrument Cables		79.3%	0%

Statistical charts



Key Features

- Statistical charts allow data analysis by correlating homogeneous data across all Projects.
- Includes filtering on Projects and Reports.
- Sensitive data only accessible by authorized roles.
- Data are owned by the Regions. A Region may choose to share information with other Regions or not.
- Online help and online training videos available.
- User-friendly tool accessible through Corporate Intranet.
- Leverages ASP.net, Oracle, and Flexcel technologies.

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EcoSys is a specialized tool for the management of data and processes related to project Cost Engineering and Control.

Version 2.3+
September 2015

Main concepts and functionalities

Concepts overview

The purpose of EcoSys is to have a specific tool dedicated to Cost Engineering and Control, interfaced with Technip's ERPs, Jeevan and Oracle.

The application is designed to set up, structure and monitor appropriately Cost control on Projects, according to Technip Work processes and Cost concepts.

As such, it has extended functionalities to follow:

- Budgets and Forecasts, especially Budget gets assignments and Transfers and Budget allocations (targets)
 - EcoSys is interfaced with Technip ERP's so as to get project structure (particularly WBS/CBS) and data (Commitments and Actuals)

To be able to perform the appropriate Cost Engineering Forecast, EcoSys is managing Costs and Quantities (hours, bulk material, vessels days, etc.).

EcoSys is operated directly by Cost Engineers and is able to produce PMR Reports (Page 3) so as to be interfaced in the future with e-PMR, the Corporate PMR tool.

Major functionalities

- Support of Onshore, Offshore and Subsea projects
 - Support of reimbursable and lump sum projects
 - Multiple structures (CBS/WBS)
 - Alternate optional reporting structure (ABS)
 - Data entry at different levels of CBS / WBS
 - Budget
 - Commitment
 - Actual
 - Forecast
 - Data tracking at MR/PO and Tag level
 - Multi Currency including reference budget (specific rate)
 - Robust Change Order functionality
 - Track man-hour and quantities
 - Client cost tracking capability
 - PDN (Project Deviation Notice) function (forecast tracking)
 - Full audit capability

Example of PMR Report

Example of Forecast Spreadsheet

For internal use only

Key Features

- “Project Management Cost Tool” interfaced with Accounting Systems (Oracle, IFS)
 - Focused on forecasting
 - User-friendly tool that can be used by the less experienced, providing guidance in cost control work processes
 - Robust Change Management tracking and reporting
 - Cost Reclassification
 - Reliable and quick production of data for PMR/Cost reports, calendarized if required
 - Flexible reporting
 - Standard reporting at multiple levels
 - Full audit capability

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PRIMAVERA P6

ORACLE®
PRIMAVERA P6

Primavera P6 EPPM (Enterprise Project Portfolio Management) is a high-performance project planning application, based on the Critical Path method. It is designed to handle large-scale, highly sophisticated projects having up to 100,000 activities.

Version 7.2SP2
September 2013

Main concepts and functionalities

The main components of Project Planning are Design (of the activity network and the corresponding Gantt chart), Control (over the earned values and the resources) and Reporting (through curves and reports).

Primavera P6 EPPM is an application developed by Oracle and it is widely used by our partners and clients all over the world to manage their schedules.

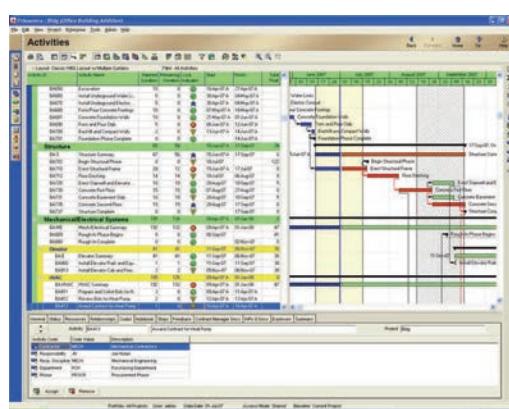


P6, a collaborative application for Planning

Of all the features available, the multi-center and multi-partner real time interconnection is a key one in Primavera P6. It improves the work efficiency by providing access to a shared database and by allowing all team members, regardless of their work location, to interact with the same schedule in real time.

Primavera P6 proposes a powerful Gantt Chart view displaying activities with different layouts. It also offers a high level of customization of these layouts that can be shared among team members. Group & sort (based on WBS, activity codes, user-defined fields), filters options and Gantt chart options give a wide spectrum of possibilities to define a specific layout.

The application offers high flexibility through its capacity to design a schedule over the OBS (Organization Breakdown Structure) of the company, the use of unlimited user-defined fields and the linkage of activity or resources through customized codes. Using



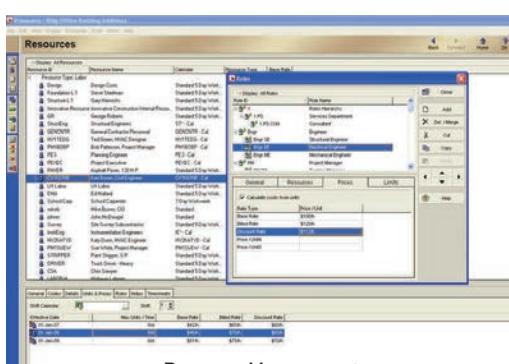
Project Gantt Chart

the OBS / EPS (Enterprise Project Structure / Project Profile / Global Profile also provides a good security over the data.

Resource Management is made easier by the capacity to create an unlimited number resources as well as an unlimited number of roles that can be assigned to resources.

Through the facility to manage several plans inside the application, Forecasting changes on the schedule is simplified (management of baseline, revised and forecasted plans).

Real-time as well as Excel reports can easily be extracted from the tool to review progress and actuals as well as the remaining workload.



Resource Management

Key Features

- Plan, schedule, and control complex projects
- Balance resource capacity
- Allocate best resources and track progress
- Monitor and visualize project performance versus plan
- Conduct what-if analysis and analyze alternative project plans

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Prius is the application developed by Technip to transfer **JANUS** data (Progress Measurement) to Oracle Primavera **P6** (Project Planning).

Main Prius functionalities

Most Technip Clients utilize Oracle Primavera P6, and they request more and more to have not only the schedule but also progress data provided in P6 format.

Having Janus data available in Primavera P6 helps us to give better answers to Clients requests and also to fulfill our own needs.



Prius project screen

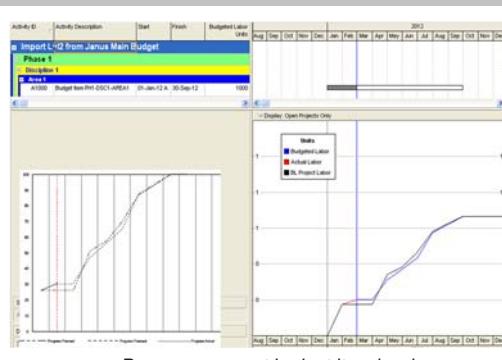
Prius is an easy-to-use application that can be operated by any scheduling engineer to export data from Janus under the XER format (Oracle proprietary format, native to Primavera P6).

Three levels of export are available with Prius:

- * **Export Level 2** where one Janus budget item is linked to one activity in Primavera P6 for different types of dates and budgets.
- * **Export Level 3** where Janus milestones can be linked to an activity of the level 3 schedule in Primavera P6 for different types of dates (baseline, revised, forecast and actual).
- * **Export level 4** where one Janus milestone is linked to one activity in Primavera P6 for different types of dates and budgets.

Prius allows to:

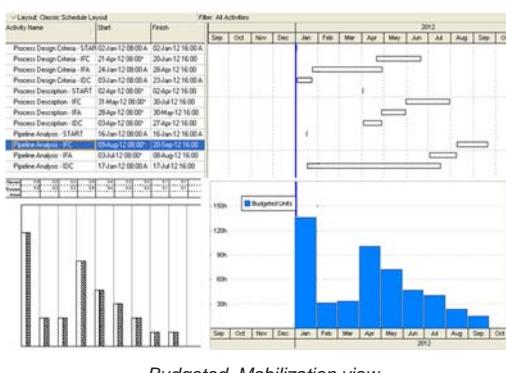
- * Provide to Clients our detailed progress evaluation directly in Primavera P6
- * Check that dates entered in Janus are aligned with Level 3 schedule activities
- * Use Primavera P6 features for graphical



Progress curve at budget item level
(comparison between Janus and P6)

- * day-to-day follow-up of the project
- * Increase involvement of key players in time management of the project
- * Manipulate Janus data to build "late" and "reference" curves in Primavera P6
- * Calculate progress over any group of deliverables

By using Janus access rights, project data in Prius have the same level of security as in Janus and can only be accessed by the authorized PPL (Planning Project Leader).



Budgeted Mobilization view

Key Features

- Provide Janus data under Primavera P6
- Allow consistency checking of dates between Janus and Level 3 schedule within Primavera P6
- Allow Janus data manipulation to generate late and reference curves in P6
- Offer graphical monitoring of Janus data between two cut-offs
- Offer three different levels of export for schedule

V1.1

February 2015

V 1.1 New features

- * Level 3 Export based on Draft Planned Dates
- * Relationships between Level 4 activities
- * Increased number of Level 3 activity ID's linked to activities of Level 4 Export
- * Additional UDF within Level 4 export
- * Level 2 Export Dates based on Planned Dates

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rev. Mar 18, 2015

PlanStats is a tool that allows to estimate the duration of the Engineering / Construction phase of a project, and to derive the corresponding typical progress curve.

POC Version 1.0
April 2013

Main concepts & functionalities

PlanStats brings benefits in terms of:

- saving historical data;
- better estimating by Planning Engineers of project duration (construction & engineering);
- comparing project results.

The current **PlanStats POC** (Proof of Concept) provides statistical graphs that compare user-defined project data with the cloud of projects coming from the existing Region A database. The POC was implemented since April 2013.

The future **PlanStats Corporate** is being developed. Its goal is to have a common method for accumulating historical planning information at Regional level. The Regions will have the possibility to decide to share or not the accumulated regional information with other Regions.

PlanStats Corporate charts will compare:

- a project to its regional projects only (specific Region cloud);

- a project to all corporate projects (Technip Group cloud).

POC Statistical Graphs

Two types of charts are provided within the tool:

- Duration vs Productive Hours;
- Progress vs Duration.

Duration vs Productive Hours graph

PlanStats produces, off its historical database, the graphs which show the relationship between Duration and Productive Hours, both for Engineering and Construction.

Progress vs Duration graph

PlanStats also produces typical S-curves of physical progress for Engineering and Construction, utilizing as a parameter the estimated duration of the project in months.

Coming in 2014

- PlanStats Corporate development.
- Integrating Subsea data.

Key Features

- Graphs to show statistical data: compare a project to its regional projects or to Technip corporate projects.
- Editable screens to enter / save data in the Corporate database at regional level.
- Each Region owns its data and can decide to share or not the regional information with other Regions.
- Secure access to the tool via Active Directory accounts.

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rev. Apr 28, 2014

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Construction Duration vs Productive Hours
The Project (red dot) is compared with all other projects (blue dots) in the database



Typical Construction Progress Curve for a 24-month project

Visual Management



Visual Management is a lean management technique that helps remote teams to cooperate in a common virtual workspace. Large touch screens, used as Kanban boards, allow team members to collaborate as they were in one location, planning and controlling in detail short term activities and commenting project documents.

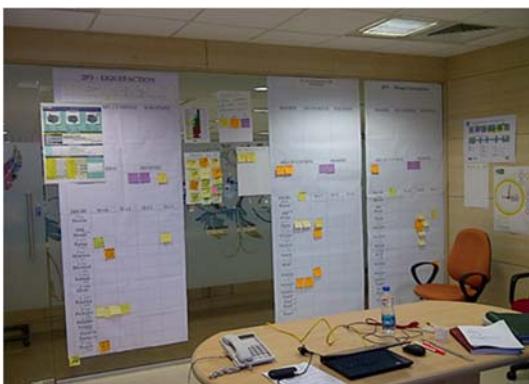
iObeya V2.6

December 2013

Visual Management methodology

Projects in Technip involve more and more parties: disciplines, operating centers, partners, suppliers, sub-contractors, 3rd parties. This increases the number of interfaces and the time spent in coordination and travel.

During the execution phase of the project, the same questions always arise: "how to secure the engineering schedule" and "how to deliver on time to the fabrication site with minimum rework".



"War room" and Kanban boards

In order to avoid the communication gap and motivate everyone to achieve their targets and the project objectives, the use of Visual Management is a new solution to make people better communicating together, to speed up the problems resolution, to focus on priorities and finally to save time.

The introduction of Visual Management in Technip projects has a number of benefits where the team is at the center of the process. It includes greater team member involvement and motivation, as they feel more in control of what they are doing, better communication, raised quality and productivity of work, faster decision making process, and less waste in time.

Distance won't be a barrier to collaboration.



Virtual room for real time sharing of project boards

Instead, teams at various locations can come together in a virtual environment and collaborate actively exchanging information in real time. Everyone can see and share information and contribute to discussions and decisions.

The system is operational at Technip Group level. Any project can start immediately with a minimal investment which



Virtual rooms and boards available on multiple devices

consists of:

- one interactive flat panel with touch-screen capabilities ("smart board") per location;
- one license of Smarttech's **Bridgit** (synchronization software between remote boards) per location;
- one or more virtual room licenses in Kap IT's **iObeya** ("war room" & Kanban board software).

Key Features

- Establish clear work priorities
- See which performance / objective was met
- Identify the workflow and what is being done
- Communicate to everyone what performance measures are in place
- Provide real time visual feedback to everyone involved in the whole process
- Cut down on meetings to discuss work issues
- Make team members talk to each other

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rev. Feb 18, 2016

Project Creation Wizard



PCW is a Technip Group tool for projects creation. It allows project opening preparation and validation, and stores corresponding data in Master Data Management environment.

Version 1.10

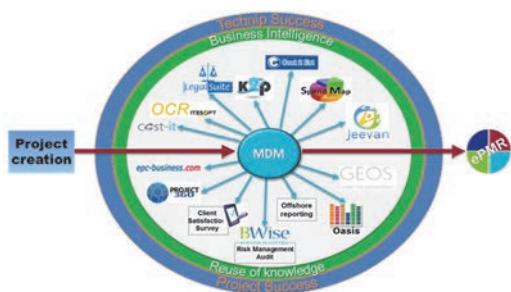
December 2015

Main concepts & functionalities

PCW is essentially used to:

- Enter project data and have a validation process for project creation.
- Create project automatically in MDM.

PCW replaces old project opening form and the manual project creation in MDM.



A Project to exist in Technip systems is to be created in MDM via PCW

In PCW V1.10, a project of category Contract, Tender, Secondment, Research & Development can be created, revised and closed.

End-User projects	
T	TENDERING
C	CONTRACT
J	SECONDMENT / TECHNICAL ASSISTANCE
S	SELLING
R	RESEARCH & DEVELOPMENT
X	CAPEX PROJECTS
A	ASSET OPEX
K	SRC (SERVICES RENDERED TO CORPORATE)
Z	UNDERLOAD
Support projects	
I	ITR SERVICES (IT, TELECOMMUNICATIONS, REPRODUCTION)
P	PIC (PRODUCTION INDIRECT COSTS)
G	G&A (G&A INDIRECT COSTS)
F	Non ICR process costs
B	B&F (BUILDINGS & FACILITIES)
N	Non recurrent costs
Resource projects	
W	MANPOWER

Project Categories list

rev. Dec 21, 2015

Roles

- Initiator: initiates the project opening and fills Project data
- Validator: Rejects or validates project data entered by the initiator. Last validator creates projects
- FYI: Reads project data to which he is assigned
- Manager: Searches and reads projects data by segment
- Administrator: Configures roles, workflow and parameters of his entity.

Access

The administrator in each entity is responsible to give access to users by configuring the workflow of each project category.

The tool is accessible through corporate intranet on the following link: <http://mdm/project-creation-wizard/login>

Administrators in entities

Region A & sub entities: S. Evrard
 Region ME & sub entities: L. Noriega
 TPNA & sub entities: H. Gaskins
 PT & sub entities: V. Nguyen
 TPBR & sub entities: M. Oliveira, P. Pereira, L. Marques, A. Ferreira
 TPIT & TPIDL: G. Magni
 TP Germany: D. Böke; R. Krämer
 TCS, TPNET, TPIndia: B. Sharma
 Forsys Subsea: O. Urbaniak

Coming up for 2016

- Include remaining project categories in Project creation wizard
- Include other interested entities
- Build top management reporting
- Improve Project creation wizard functionalities from feedback and suggestions.
- Write/Finalize Processes, GOPs, GIs

Key Features

- Validation workflow process in PCW is configurable by each entity, upon its organization.
- The workflow configuration can be different between project categories.*
- A project can be created, revised & closed. The same validation process applies.*
- PCW replaces old project opening form and the manual project creation in MDM.
- A request can be sent from PCW for client creation in MDM if a client doesn't exist for a project creation.*
- Data are owned by the entity. An entity may choose to share information with other entities or not.*

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Key Selection Factors:

Onshore / Offshore / Process Tools Business Domain

Project Management Systems

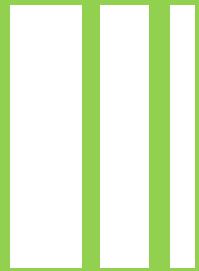
Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Janus	52		€				
Sezame	53		€				
Athena	54		€				
WPS	55		€				
IMT	56		€				
CDB	58		€				
Cost2Est	60		€				
Ecosys	61		€				
Primavera P6	62		€				
Prius	63		€				
Planstats	64		€				
Visual Management	65		€				
PCW	66		€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Subsea Business Domain



**Onshore /
Offshore /
Process Tools**
Business Domain

(PES + PMS)

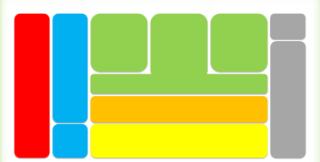
Corporate
Business Domain

(BSFS + ERPs)

Subsea
Business Domain

(Manuf + SEVS + S-PMS)

(Data Management)



Subsea Domain

Manufacturing Systems



Preactor



Preactor is a specialized software for production planning and scheduling that respect resources with finite capacity, raw material availability and other production constraints that generates impact on business

Main Preactor functionalities

■ Scheduling Software

Detailed Scheduling software is an important tool for many companies where it can have a major impact on the productivity of a process. In manufacturing, the purpose of scheduling is to minimize the production time and costs, by telling a production facility what to make, when, with which staff, and on which equipment. Production scheduling aims to maximize the efficiency of the operation and reduce costs.



■ Key Features

- Finite and infinite resources, calendar states, efficiencies and templates
- Automatic resource selection within workcenters
- Forward/Backward and bi-directional sequencing by order-attribute
- Graphical and textual reports
- Advanced Material control features for material allocation rules for linking consuming and producing manufacturing orders.
- Advanced Material Control features for material allocation rules linking supply (purchase,stock) and demand (sales)

For internal use only

■ The current version includes

- Integration with ERP for firm projects, getting technical information, raw material stock levels and delivery date of purchase orders and sending operations sequence with start and end dates;
- Secondary constraints graphs that allows the users to check each constraints usage over the scheduled horizon. With this graph, it is possible to check when the constraint reach its limits and the maximum usage quantity that would be necessary for a full schedule without any delays caused by the constraint;
- Advanced Scheduling rules like Minimize WIP, Dynamic Bottleneck, Selective Bottleneck (TOC), Campaigning, Minimize Overall Setup time;

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Cameleon



Cameleon is a CPQ (Configure Price Quote) software. Developed to compute the manufacturing cost of Flexible pipes, Umbilical pipes and end-fittings. Used also to generate technical data to OASIS (ERP).

■ Price Calculation

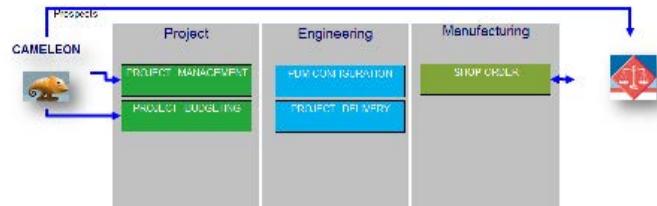
- Based on a design made in engineering soft, Cameleon will load characteristics of a product and will propose to the user a manufacturing scenario including: "best work center" proposition, calculation of times for each action involved in the manufacturing process, raw material needs and others parameters. At each step of the quotation, users can change data (change of a work center for exemple) or answer to some specific questions to collect data; the program will recomputed all formulas to adapt final result. Once all "technical" data are validated, we apply a rate to obtain the final price.

■ Supplying technical data for IFS:

- Cameleon is the first step during technical data creation for a news project into IFS. Using another dedicated module, we are able to supply data which will fill project and budget data, bills of material, rootings, etc.; in fact most of data mandatory to manufacture and allowing to use IFS linked functionalities.

■ Supplying prospect data for Preactor

- A dedicated module has been developed to modify data stored to match with Preactor expectations. Data are stored in a specific data format and Biztalk is responsible to translate data and give them to Preactor, merging them with the normal IFS-Preactor integration flow.



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Photo	Code	Detail	Qty	Unit Price	Cat. Disc.	Input Disc.
	INPM7383	Intel® Pentium® M7383 INTEL® Pentium® M 1.60 GHz Processor 2.00 Go de Mémoire SDRAM Mis ECC - 128 Mo. Windows XP	2	1.679,66 €	0,00 %	20,00 %
	MNTINTELperium3.0GHzUnit Centrale : MNT GT9000	80 Go de Capacité Disque Dur	1	1.161,88 €		
	ASUSB2M12	Clavier : KB251 Scansrite : M12 LOGICIELS : Windows XP Explorer	1	387,80 €		
	SFTWXP1E5		1	0,00 €		
	CAMC01	Caméscope XM274	1	269,95 €	0,00 %	0,00 %
	1SA1450QU00Use002	Coffre CVL video	1	0,00 €	0,00 %	0,00 %
	COFFRE_CVI	Coffre de VR Intégrable	1	0,00 €		

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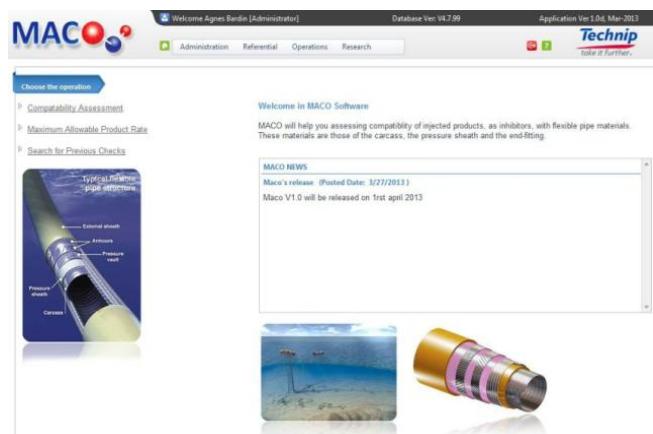




MACO is a software developed to assess compatibility of a product with flexible pipe materials (steels and polymers).

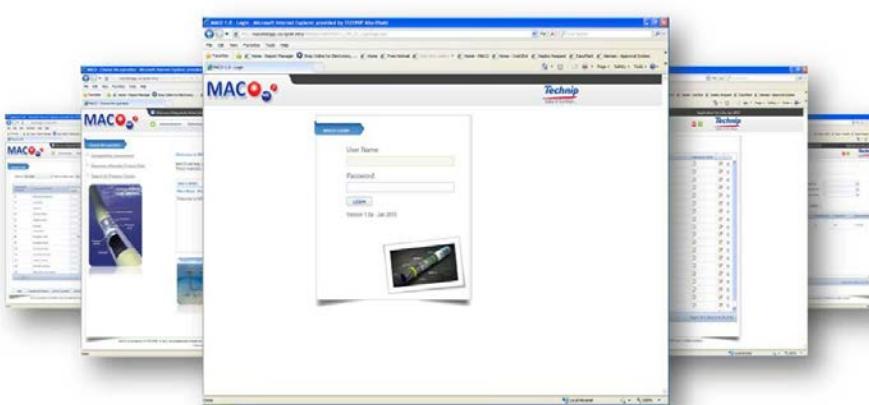
Main functionalities

- Operators inject many chemicals into flexible pipe for flow insurance reasons. These chemicals are inhibitors which prevent from hydrate plugs, corrosion, paraffin plugs...
- As a result, all engineering centers have to deal with technical requests from their client regarding compatibility of these chemicals and flexible pipes materials.
- Up to now, these technical re-quests were mainly subcontracted to flexible pipe R&D center (PED) because it deals mainly with chemistry. PED assistance team deal with numerous technical subjects and this particular subject represented a huge workload.
- It has been decided to build a tool that will enable engineering centers to be autonomous with compatibility assessments.
- Moreover this tool enables to give answers which are robust and to keep them in a database for further benchmarking in case of an evolution of our rules.



Key Features

- Administration Menu(Users - Versioning of the tools and datas)
- Referential Menu(technical datas as suppliers, components, products, exposure lim-its)
- Operations Menu (compatibility Assessment, Maximum Allow-able Product Rate)
- Search Menu



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OASIS



OASIS is an integrated business & manufacturing information tool enabling business processes and supporting business decisions

Services

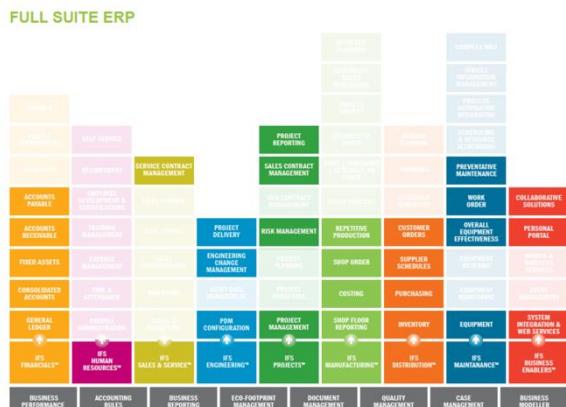
OASIS connects key areas of Finance, Procurement, Planning , Manufacturing, Maintenance and Project Controls, improving efficiency through out the business in one ERP (Enterprise Resource Planning) system. In practice it helps us manage these activities:

- Procurement: how we buy and pay for goods and services
- Finance: how we manage and track finances
- Project Controls: how we track and manage costs
- Planning: what we need to be able to produce to our clients' schedules, and when
- Manufacturing: what we make, and how we made it
- Maintenance: providing preventative maintenance, and how we notify faults and ensure that they are fixed

Improvements and expansions to the OASIS solution continue. 2012 has seen its expansion to AsiaFlex and DUCO Limited, with 2013 building on those implementations, plus that in FlexiFrance

Key Benefits

- An integrated ERP solution brings top class business processes to back-office operations
- Strong reporting capabilities improve control and transparency
- Robust system and lean processes ready for growth of the business



OASIS Architecture



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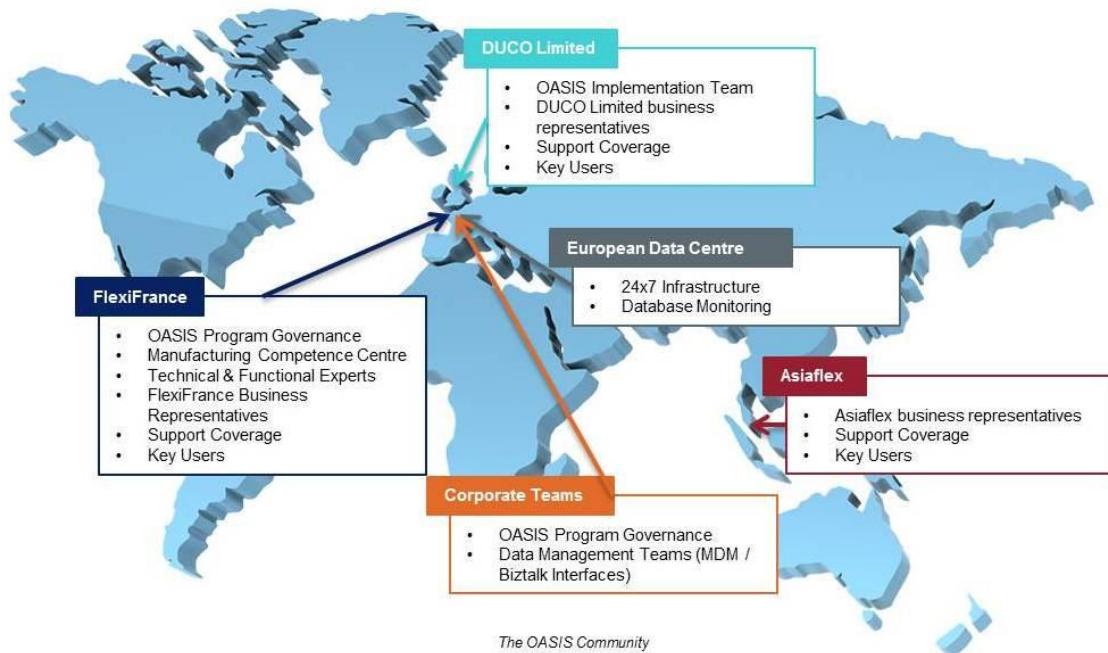


Organization

- The OASIS community (end-users, project members, support workers) are located in three continents, working with common processes, methods and tools
- All activities are managed through a solid governance structure, involving representatives from all participating manufacturing entities, as well as Group IT

Access

The OASIS application is available via the local intranet of implemented entities, or by accessing "The Link" IT Portal > Our IT Applications > Group Applications > OASIS



Additional Information

OASIS was born of a need to upgrade existing ERP/Manufacturing systems in manufacturing sites in France and the UK, and to provide such a system for the new factory in Malaysia. The OASIS implementation has been phased since the first "Go Live" in FlexiFrance in 2011. Today it is live in:

- France (Flexi France, Le Trait)
- United Kingdom (Technip Umbilical Ltd, Newcastle)
- Malaysia (Asiaflex, Tanjung Langsat)

covering nearly 2000 users. Current and upcoming implementation projects will expand the use of the IFS functionality within all three sites.

OASIS Support is also present in all three countries, with first line support in each implementation site, and second and third line provided by the Manufacturing Competence Centre based in Flexi France.

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Datasheet Reader

**DS
Reader**

Data Sheet Reader is a web application dedicated to reading and editing Flexible manufacturing structures

Main functionalities

- Provide easy read access to the Flexible Manufacturing datasheet.
- Display the various layers of Flexible structures in relation with engineering layers
- Generate detailed Ms Word report with :
 - Datasheet Header
 - Datasheet Engineering
 - Datasheet Manufacturing

The screenshot shows a complex engineering interface for a flexible structure. At the top, there's a navigation bar with links like 'Home', 'Reader', 'Datasheet Reader', 'Changer Structure', 'Rapport', 'Fiche', 'Ajouter', 'Rechercher Structure Alliure', 'Ajouter une section...', and 'Editer'. Below the navigation is a search bar for 'Structure' with the ID 'M225411232' entered. A table displays basic structure information: 'Poids de structure vide (kg/m)' (227.48), 'Poids de structure pleine (kg/m)' (368.95), 'Diamètre intérieur (mm)' (26.6), and 'Diamètre extérieur (mm)' (76.6). There are also sections for 'Service' (rough bore, 2 bars) and 'Application' (A core GP crossflex). The main content area is titled 'Datasheet Engineering' and lists various parameters and codes, such as 'Code MP', 'Code MP 25', 'Code MP 26', and 'Code MP 27'. It includes tables for 'Dimensions' and 'Matériaux'. The bottom part of the interface shows a table for 'Fabrication' with columns for 'No', 'No Eng Mat', 'Angle', 'L.D.', 'Epaisseur', 'Longueur', 'Code', 'Code MP', 'Famille', 'Desc Matière', 'Desc Matière 2', and 'Numéro de référence'. The table contains several rows of data, each corresponding to a specific component or layer of the structure.

Key Features and benefits

- Web access
- User-friendly
- Multilingual application
- Security access embedded
- No need to deploy the Structure application developed by PED.

Technip Flexi France		LE TRAIT - MANUFACTURING Data Sheet Reader		Page 2/3
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Datasheet Engineering																
No Eng	Id	Desc Couche	Desc Matière	Code MP	Code MP IFS	Type Fl	Leak Proof	Nb Fils	Masse Linéique	I.D. Couche	Epaisseur	Manmanu	Angle	Mys	UTS Ep Mp	Larg Mp
1	5.5	INTERLOCKED CARCASS	Feuillard inox 1.8x72 DUPLEX FE08 EN 1.4362/LNS S32304 (ex MP887)	MP887	10102410	1.8 * 72		1	35.95	254.00	9.00	PC	-88.38	550	1.80	72.00
2	2.14	PRESSURE SHEATH	Risan bresmo F40 TL+TP01 (ex MP57)	MP57	12200010			1	8.31	272.00	8.10	GP	0.00	0	0.00	0.00
3	9.9	ZETA	Fil zeta 10-FM35-F03 AMB (ex MP154)	MP154	10800050	ZETA 10		2	62.51	288.20	10.00	SFT	-88.07	700	10.00	0.00
4	17.17	ANTI-WEAR TAPE	Bande anti usure 751.5MM PIPELON BF01 bobine joli (ex MP978)	MP978	12600600			1	1.39	308.20	1.50	A1	0.00	0	1.50	75.00
5	18.12	FIRST ARMOUR PLAT. HOMOGENS	Fil plat 12 * 5 - FM35 - F03 avec courant de Foucault (ex MP881)	MP881	10404110	12 * 5		66	34.84	311.20	5.00	A1	-33.51	750	5.00	12.00
6	17.17	ANTI-WEAR TAPE	Bande anti usure 751.5MM PIPELON BF01 bobine joli (ex MP978)	MP978	12600600			1	1.45	321.20	1.50	A1	0.00	0	1.50	75.00
7	19.12	SECOND ARMOUR LAY. PLATS HOMOGENS	Fil plat 12 * 5 - FM35 - F03 avec courant de Foucault (ex MP881)	MP881	10404110	12 * 5		68	36.00	324.20	5.00	A1	33.76	750	5.00	12.00
8	31.31	HIGH STRENGTH TAPE	RUBAN ADHESIF 145 MM * 3000 M BA06	MP887	12500110			1	1.05	334.20	2.05	A1	0.00	0	0.25	145.00
9	3.3	EXTERNAL SHEATH	Risan bresm noir NOR 400 TL TP13 (ex MP606)	MP606	12200030			1	9.87	338.30	9.00	GEX	0.00	0	0.00	0.00

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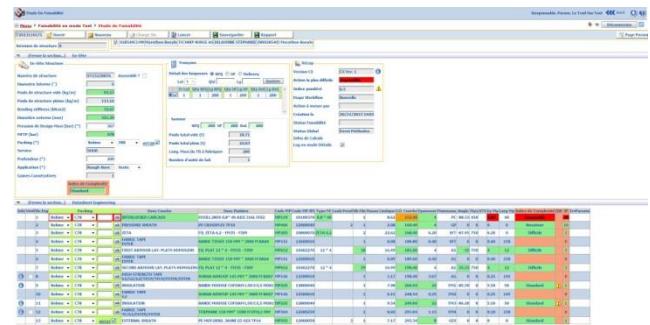
Feasibility Structures



Feasibility Structures is an application that lets you control the feasibility "Machine" and "Design" of a Flexible structure in accordance with the applicable procedures of your site.

Main functionalities

- 100 % automatic back-up of information linked to flexible structures
- Removal of any errors from the flexible structure
- Display the TR sections to be manufactured in the feasibility study
- To be able to follow the progress of the study via a workflow
- Reduce the processing time of the study
- Perform a review of the study by layer and procedure
- Quickly search of feasibility study results by criteria
- View all packings by layer with a quick link to the Reel Packing application
- Publish a study report
- Attach other documents (emails, spreadsheets....)



Key Features and benefits

- Web access.
- Multilingual application.
- Multi-Entities.
- Accessible from any workstation.
- Configurable application.
- Implementation of approval workflow
- Dedicated Search engine
- Dematerialization (archiving basis of feasibility)
- Generation of standard documents (reports)

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Qualifications



Qualification is a software developed to centralize competences for MUs.

Main functionalities

- The "qualification" software has been designed to be able to manage all the qualifications /certificates /authorisations /skills (ie licence for forklift, certificate for welding...) of employees on the group's different production sites. It allows the creation of a type of qualification, the association of this qualification with an employee, and management of the expiry / renewal date
- Each competence has a validity date and should be approved for being active
- All competences can be visualized or exported
- When competence is close to expiring, alerts are sent for the renewal date

FLEXIFRANCE	Technip	QHSE	1/1
Qualification - SM-UAD-0001			
End fitting welding and welder qualification procedure			
BASARAN SUKRU Cert. N°: 201307008 Has successfully undertaken examinations set in accordance with 08 MET T-418 and meets the required education training and experience criteria applicable			
QC department has acted as an examining authority to control the quality of the welds performed by the operator			
Method: Soudage bague multi GP / Welding of multi-sheath ring Procedure: 08 MET T-418 Level: 1 Technique: Type of weld MIG/MAG Quality Job: Welder Product: Multi-sheath ring			
Process department has acted as an examining authority to control methodology of the operator			
Graduation date: 30/05/2013 Certification date: 30/05/2013 Expiration date: 30/11/2014			
Technicien soudage Romuald Delais - 03/07/2013	QC Dpt Claude Decouhout - 19/07/2013	APPROVED	APPROVED

Key Features and benefits

- Single Competence repository for MUs
- Export Excel of competences by qualification
- Certificate can be printed or saved as an attachment
- Accessibility from other applications (Welding, Traceability, ...)
- Multilingual application
- Multi-Entities

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Utilisateur Principal Le Trait Sur Production									
Qualifications									
Nouvelle certification									
Consultation									
Alertes									
Nombre de ligne(s)/Page : 15									
Recherche qualif. :									
Selectionner/Certification									
Employee									
Qualification									
Niveau									
Secteur									
Certificat									
Etat									
Fin de validité intermédiaire									
Fin du certificat									
Jours restants									
76	DUVAU DOMINIQUE	HT-1-0001 Rev 1	NIVEAU1	UF	201009030	Actif	24/09/2014	24/09/2015	372
78	EGRET JACQUES	HT-1-0001 Rev 1	NIVEAU1	UF	200813005	Actif	24/10/2014	24/10/2015	402
61	AVENIE PASCAL	HT-1-0001 Rev 1	NIVEAU1	UF	200001399	Supprimé	25/06/2012	25/06/2014	
81	FOLLAIN SEBASTIEN	HT-1-0001 Rev 1	NIVEAU1	UF	201106010	Actif	24/06/2014	24/06/2017	280
84	GOUGET DANIEL	HT-1-0001 Rev 1	NIVEAU1	UF	200001115	Actif	28/05/2014	28/05/2014	253
85	GOUJON HUGEL	HT-1-0001 Rev 1	NIVEAU1	UF	200001116	Actif	05/12/2013	05/12/2013	79
86	HEBIN LAURENT	HT-1-0001 Rev 1	NIVEAU1	UF	200001118	Actif	03/12/2015	03/12/2015	807
87	HUBERT RODOLPHE	HT-1-0001 Rev 1	NIVEAU1	UF	201106011	Actif	24/06/2014	24/06/2017	280
88	HUET NICOLAS	HT-1-0001 Rev 1	NIVEAU1	UF	201106004	Actif	09/06/2014	09/06/2017	265
89	JEAN BRUNO	HT-1-0001 Rev 1	NIVEAU1	UF	200001122	Actif	05/12/2013	05/12/2013	79
90	JOUEZ DAVID	HT-1-0001 Rev 1	NIVEAU1	UF	200310012	Supprimé	19/10/2009	19/10/2009	
91	KOURIBAINE BAPTISTE	HT-1-0001 Rev 1	NIVEAU1	UF	200813005	Actif	26/09/2014	26/09/2015	374
92	KOUROUSE TONY	HT-1-0001 Rev 1	NIVEAU1	UF	200813004	Actif	26/09/2014	26/09/2014	374
94	LAHAYE SEBASTIEN	HT-1-0001 Rev 1	NIVEAU1	UF	201009026	Actif	24/09/2014	24/09/2016	372
97	LE GUYADER ERIC	HT-1-0001 Rev 1	NIVEAU1	UF	201009028	Actif	24/09/2013	24/09/2016	7

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BI for Manufacturing

ORACLE®

BUSINESS INTELLIGENCE

Business Intelligence for Manufacturing is a reporting system, in order to visualize and analyze data from different system such as ERP or production monitoring

Main functionalities

- Collect data from different system, including ERP and production monitoring
- Consolidate information from multiple source, aggregate data to allow drill down mechanism
- Organize data in Data warehouse and Datamart
- Provide specific dashboard to give a strategic vision of manufacturing

- Different category of Dashboard are used :
 - Metrics, general indicators about produce length, operator and machine hours,
 - OEE, Overall Equipment Effectiveness is a key performance indicator for the manufacturing domain. It helps to measure and improve productivity
 - Stock turnover
 - Raw material consumption, etc.

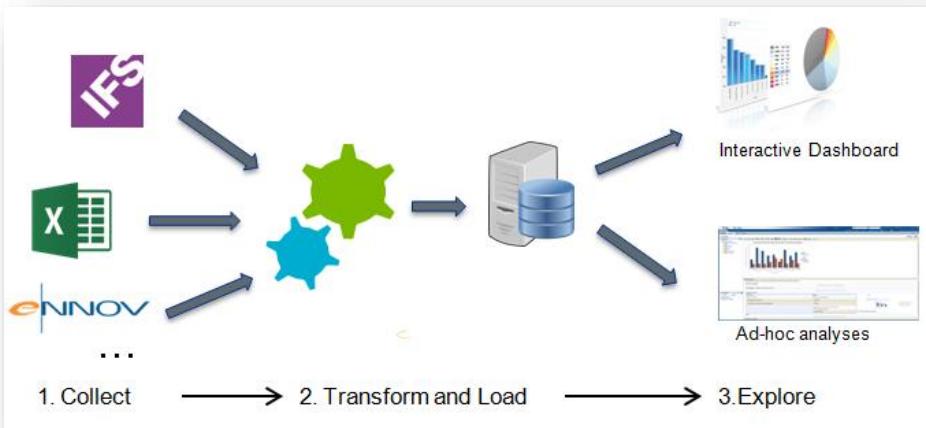


Key Features and benefits

- Rich, interactive dashboards with guided analytics from a global view to the finest detail
- Access to multiple enterprise data sources to consolidate information
- Proactive detection, alerts and actions
- Security applied on data or users according to the need
- Create specific analysis and export them in Excel or PDF file

OBIEE is easily accessible from a web browser

or a mobile device such as iPad.



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Ennov is a tool to computerize workflow process with user defined forms, workflow steps, approval orders and conditional paths to streamline the collection and data processing from different business sources.

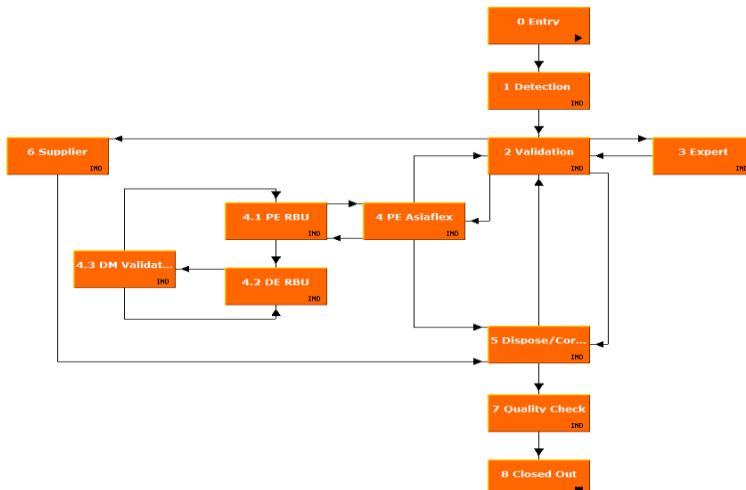
Main functionalities

- User designed workflow process definition, creation and complexity with confidentiality setup for each unit.
- User defined form with HTML support.
- Main focus on quality management during manufacturing process:
 - Quality Event Reports (QER) - Quality event, Non conformance, technical query, customer complaint for quality.
 - Corrective Actions (CA) - Corrective actions for identified quality issues.
 - Preventive Actions (PA) - Preventive actions for identified quality issues.
 - Audit Reports - Action plan to solve the audit findings identified during Quality and HSE internal and external audits.
- Supply data inputs for Business Intelligence (BI) tool for Manufacturing.
- Flexibility to support other business requirements for online workflow and approval processes.

The screenshot shows a web-based application for managing quality events. At the top, there's a navigation bar with links like 'Home', 'Logout', and 'Logout'. Below it is a 'Select type unit' dropdown menu with options such as 'IMPROVEMENT TECHNOLOGY (IT)', 'IT TESTING - REQUEST FORM', 'LOGISTICS - REQUEST FORM', 'LOGISTICS - APPROVAL', 'ALERT', 'CORRECTIVE ACTION', 'PREVENTIVE ACTION', and 'TEST MODULE'. The main area is titled 'Quality Event Report' and 'Technical Queries Non Conformance'. It includes sections for 'Introduction' (Subject, Issued By, Detected By, Date Issued, Date Detected), 'Product Identification' (Project Name, Structure / Cross section number, Item Description), and 'Supplier' (Supplier, Supplier Site, Detection place). There are also tabs for 'Workshop', 'Comments', and 'Attachments'.

Key Features and benefits

- User friendly web interface.
- Powerful searching tool.
- Real time status update.
- Support Multilingual and multi entities.
- Online approval workflow with visual definition.
- Process can be revised and updated for better efficiency.
- Automatic notification, warning and alert.
- Generation of standard documents (reports).



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Manufacturing Quality Plan



Manufacturing Quality Plan is a software developed to ensure the control of the manufacturing processes.

Main functionalities

- The Manufacturing Quality Plan is one of the main element implemented to meet the requirements of ISO 9001, in terms of Quality planning, and thus, ensure the control of the manufacturing processes.
- It is issued for each of the flexible pipe structures ordered by the Project, and is organized around the different layers that compose this pipe.
- Ordered into chapters, it contains
 - A brief description of arrangements for Quality Assurance,
 - Some general data relating to the project,
 - Inspection plans, which are the main part of the Quality Plan.
- The Inspection plan shows how to procure materials (including end fittings) and how to manufacture, inspect and repair (should it be necessary) each of the pipe layers. They provide a large amount of vital information (quality criteria, materials to use, intervention points of inspectors or Client representatives) This is the reason why MQP
 - Have to checked and approved prior to start manufacturing the pipes,
 - Have to be available for people involved in the concerned Project (supply chain, operators and inspectors, etc.) which represents a lot of recipients.
 - And, finally are very thick documents!
- Moreover, the MQP is an effective link between Manufacturing units and customers, who can know in advance what will be done, how it will be done, what criteria will be used, and will validate by signing what has been done.

Key Features and benefits

- Multilingual and Multi-Entities application
- Automated entry of technical data and reliability of these data
- Allows electronic visas during manufacturing
- Highlight NSILs' non-standard list items' in consultation

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	Quality plan	MS	Standard	Rev plan	Date Rév	Status	Status date	Subsidiary and ref	Flexible type	Project coordinator				
	2014043	20140313		Yes <input type="button" value="▼"/>	0	07/05/2014	Edite	13/03/2014 TECHNIP FRANCE	9.13" Gas Export Flowline	FLEFEBVR		Docs	Habilitations	
	2014042	20140312		Yes <input type="button" value="▼"/>	0	13/03/2014	Mis en fabrication	13/03/2014 TECHNIP FRANCE	5.40" Gas Lift Flowline	PLECHAPT		Docs	Habilitations	
	2014041	20140311		Yes <input type="button" value="▼"/>	0	12/03/2014	Edite	12/03/2014 TECHNIP USA INC	5" Oil Production	FLEFEBVR		Docs	Habilitations	
	2014040	20140310		Yes <input type="button" value="▼"/>	0	11/03/2014	Edite	11/03/2014 TECHNIP FRANCE	12" Production Transfer Line	PLECHAPT		Docs	Habilitations	
	2014039	20140309		Yes <input type="button" value="▼"/>	0	11/03/2014	Edite	11/03/2014 TECHNIP FRANCE	9.31" Production Risers	PLECHAPT		Docs	Habilitations	

ONE Manufacturing

ONE Manufacturing is an integrated corporate platform designed to store and share technical information between France, Brazil and Malaysia regarding manufacturing of flexible and its supply chain.

Main functionalities

- Provide reference page by discipline to access documentation, photos and technical issues within a click
- Build up and share a data base of technical issues faced by process engineers
- Ensure cross access to corporate supplier and qualified products with relevant documentation
- Google-like search function within all documents and pages
- Specific collaboration features are deployed:
 - Rating of document for faster identification of most relevant information
 - Feedback collection to ensure continuous improvement on documentation
 - Ticket section to raise and share process or industrialization issues within technical experts
 - Workgroup section to work in taskforce mode on technical issue

ONE Manufacturing is accessible to all users belonging to flexible manufacturing units

Key features and benefits

- Comprehensive, fast, simple, interactive tool
- Reference page specific to each entity
- Security applied on data and users according to confidentiality rules
- Governance and training available on site

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<http://wks-fr.exnet.technip.com/sites/TFMW/>



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3Cottages



3Cottages is a lightweight web program dedicated to manage test NACE result and Wire Surface Defect characterization .

Main functionalities

3Cottages a simple tool to collect and store data from different process.

Currently it is used for 2 types of process :

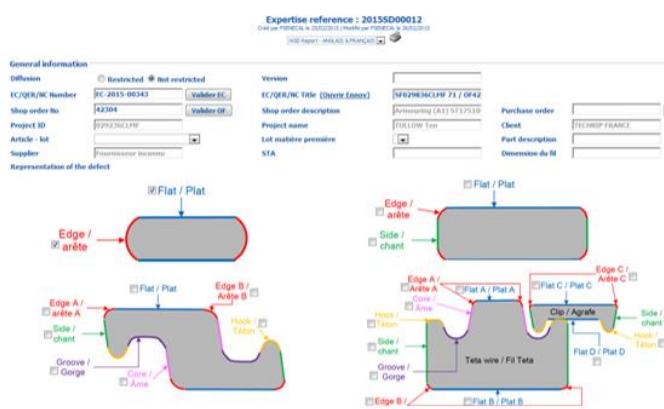
1. Tests NACE results
2. Wire Surface Defect characterization

It provides a reliable way to collect data from various users and store it into organized database. Data can be collected from different form : text, pictures, dropdown list, checkbox, etc... All this content can be defined by Key users without IT help.

According to the customization, data can be validated, and verified by interrogating other database such as IFS, Manufacturing DB and Ennov.

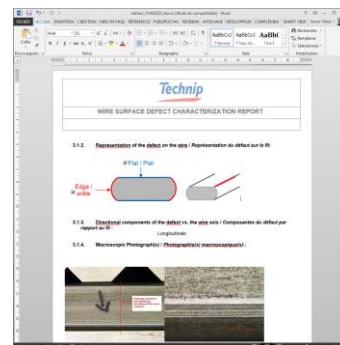
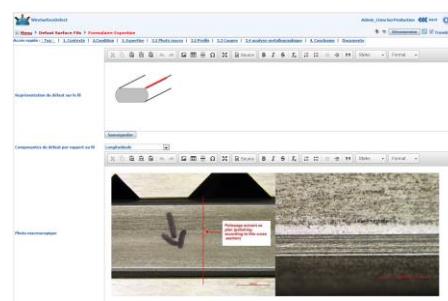
3Cottages also provide a powerful Word report generator based on data defined by key users.

Finally data can be analysed by BI tools such as OBIEE.



Key Features and benefits

- Web access.
- Application fully customizable without IT intervention.
- Generate Word report
- Ability to import pictures
- Multilingual and Multi-Entities.
- Dedicated Search engine



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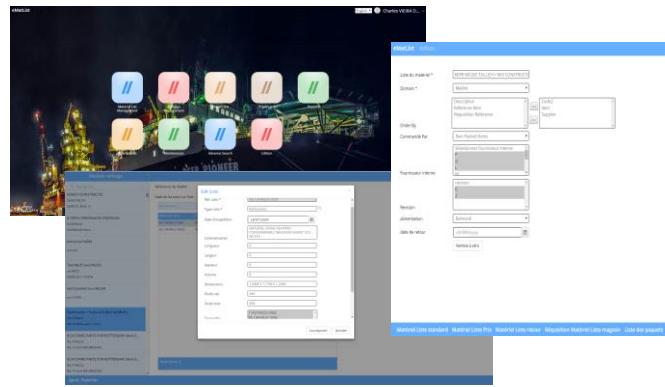
eMatlist

eMatlist is an application which is replacing a legacy Access application used for generating & tracking Offshore shipments, items and documentation

Main functionalities

The eMatList Software covers the management of most of data involved in offshore shipments process:

- Tracking of individual items requested by the RBU, maintenance, LTMU, SAV before being sent offshore on a specific project
- Processing and tracing individual items through the packing process (containers/boxes) for a specific shipment
- Generating associated documentations for customs and other legal entities for each packing depending of the local regulations
- Providing statistics used in particular to invoice RBUS according to the number of equipment processed by OSLT for each project on a monthly basis



Key Features and benefits

- Web access.
- Generate Word and Excel reports
- Multilingual and Multi-Entities.
- Based on latest technology (HTML 5, “google like” research feature, Oracle etc.)
- Merge two existing applications in only one (one developed in access and a 2003 dotnet application)
- Improve the “user experience”

eMatlist - Materiel List Management									
ITEMS AND MATERIAL LIST ITEMS REFER TO CSC MACCURE (Construction) (URW00121)									
Line Item	Description	Quantity	Unit	Number	Ref Number	Code	Category	Dimensions	Length
1	Half Wheel	1	ea		P12100001	ORLT	M		
2	Container for 10 wheel spool gear.	1	ea		P1410001	ORLT	M		
3	Container for 10 wheel spool gear.	1	ea		P1410002	ORLT	M		
4	Half wheel	1	ea		P1410003	ORLT	M		
5	Container for 10 wheel spool gear.	1	ea		P1410004	ORLT	M		
6	Container for 10 wheel spool gear.	1	ea		P1410005	ORLT	M		
7	Container for 10 wheel spool gear.	1	ea		P1410006	ORLT	M		
8	Container for 10 wheel spool gear.	1	ea		P1410007	ORLT	M		
9	Container for 10 wheel spool gear.	1	ea		P1410008	ORLT	M		
10	Container for 10 wheel spool gear.	1	ea		P1410009	ORLT	M		
11	Container for 10 wheel spool gear.	1	ea		P1410010	ORLT	M		
12	Container for 10 wheel spool gear.	1	ea		P1410011	ORLT	M		
13	Container for 10 wheel spool gear.	1	ea		P1410012	ORLT	M		
14	Container for 10 wheel spool gear.	1	ea		P1410013	ORLT	M		
15	Container for 10 wheel spool gear.	1	ea		P1410014	ORLT	M		
16	Container for 10 wheel spool gear.	1	ea		P1410015	ORLT	M		
17	Container for 10 wheel spool gear.	1	ea		P1410016	ORLT	M		
18	Container for 10 wheel spool gear.	1	ea		P1410017	ORLT	M		
19	Container for 10 wheel spool gear.	1	ea		P1410018	ORLT	M		
20	Container for 10 wheel spool gear.	1	ea		P1410019	ORLT	M		
21	Container for 10 wheel spool gear.	1	ea		P1410020	ORLT	M		
22	Container for 10 wheel spool gear.	1	ea		P1410021	ORLT	M		
23	Container for 10 wheel spool gear.	1	ea		P1410022	ORLT	M		
24	Container for 10 wheel spool gear.	1	ea		P1410023	ORLT	M		
25	Container for 10 wheel spool gear.	1	ea		P1410024	ORLT	M		
26	Container for 10 wheel spool gear.	1	ea		P1410025	ORLT	M		
27	Container for 10 wheel spool gear.	1	ea		P1410026	ORLT	M		
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146	Container for 10 wheel spool gear.	1	ea		P1410145	ORLT	M		
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Key Selection Factors:

Subsea Business Domain

Manufacturing Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Preactor	70		€				
Cameleon	71		€				
MACO	72		€				
OASIS	73		€€€				
DS Reader	75		€				
Feasibility Structure	76		€				
Qualifications	77		€				
BI for Manufacturing	78		€				
Ennov	79		€€				
Manufacturing Quality Plan	80		€				
ONE Manufacturing	81		€				
3 Cottages	82		€				
eMatlist	83		€				

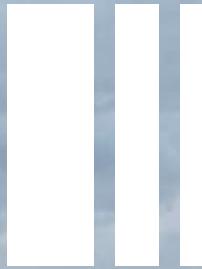
LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Subsea Domain

Subsea Engineering & Vessels
Systems (SEVS)



Asset Management (T-MOS)

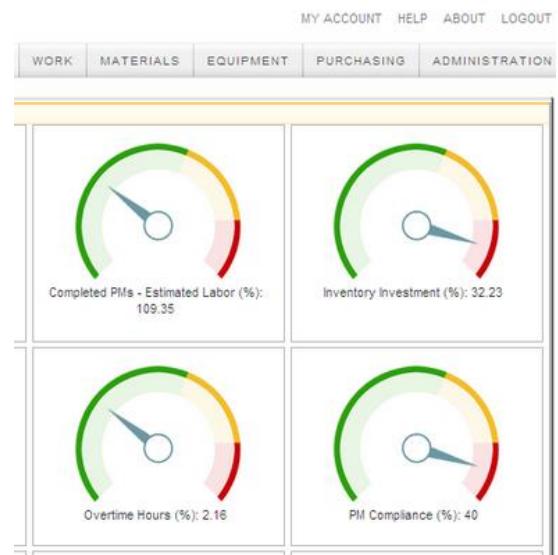


The Group standard Asset Management solution for Vessels, Plant & Equipment.

An asset management system capable of supporting the maintenance of our equipment assets—both offshore and onshore—and enabling improved asset downtime, costs, inventory, and purchasing through the availability of accurate, consistent, meaningful, and transparent information.

Features

- Assets - enable Technip to identify, track, locate, and analyse physical assets and facilitate metered usage measurement. By compiling asset data, such as location, cost history, warranties, claims, meters, permits, and documents, the Asset module helps maximize productivity and asset life.
- Asset hierarchy management – allows Technip to track asset costs and the movement of assets throughout their respective lifecycles. Do this using an easily configured “family tree” that forms relationships between equipment, systems, and locations. Open and covered area storage services.
- Audit trails - provide a flexible way to track changes to data, comments, and attributes for almost every Infor EAM table.
- Inbox and scorecard with KPIs - are offered on the Infor EAM home page. The Inbox functions as a to-do list that allows individual users to specify automatically generated numerical counts of items awaiting action such as requisitions or work orders. The scorecard displays a graphical depiction of KPI status based on user-specified parameters.
- Reports - lets users select from a variety of predefined reports including assets, materials, purchasing, schedule, work.
- Preventive maintenance flexibility—allows preventive maintenance tasks to be based on a fixed date, flexible time period, or metered usage. InforEAM can automatically adjust preventive maintenance schedules to compensate for early or late work accomplishment. It also offers revision control to track modifications and control the authorisation of modifications to scheduled tasks, materials, and routes.



Technology

- Web Browser Interface
- Apache Application
- Oracle Database
- Cognos Reporting

Contacts

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Asset Management (Industrial Sites)



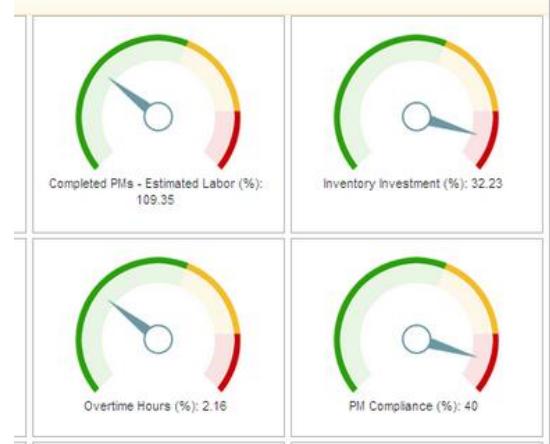
The Group standard Asset Management solution for Plant & Equipment.

The asset management system supports the maintenance of our industrial equipment assets, both offshore and onshore, enabling improved asset availability, inventory, and purchasing through the availability of accurate, consistent, meaningful, and transparent information.

Used today at Industrial locations in Brazil (Macaé, Açu), Spoolbase locations in Evanton and Orkanger, for the Åsgard SHS in Norway on the North Sea Giant Vessel, for the Jumbo Reel Carrier in Lerwick Shetland and for Dive Systems in Asia Pacific Region.

MY ACCOUNT HELP ABOUT LOGOUT

WORK MATERIALS EQUIPMENT PURCHASING ADMINISTRATION



Features

- Assets - enable Technip to identify, track, locate, and analyse physical assets and facilitate metered usage measurement. By compiling asset data, such as location, cost history, warranties, claims, meters, permits, and documents, the Asset module helps maximize productivity and asset life.
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Contacts

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- SEVS – Craig Cruickshank (ccruickshank@technip.com) +44 (0)1224 270537



Offshore Reporting System (OSR)

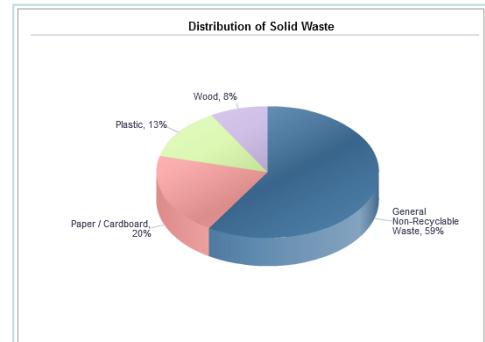


A Group standard solution to capture daily reporting data from Technip vessels to enable informed strategic decision making both on and offshore

A custom-developed application used for the collection of data required for producing the daily marine and project reports. Also enables the capture of environmental data and allows for consolidated reporting and analysis to be performed with the applications integration with the Technip data warehouse and OBIEE reporting tools.

Application Highlights

- Capture of Daily Marine Report and Daily Project Reports
- Capture of Environmental Reporting data
- Data captured used to drive project recharges and monitor Cost of Non Quality
- Administration of personnel onboard
- Provides regulatory and legislative reporting for use on vessels, onshore and by appropriate authorities
- All vessel data synchronized to the shore to allow for consolidated reporting and analysis of data



Technip

Offshore Reporting & POB

Main Menu

- V1.4.1
- Daily Marine Reporting
- Personnel Onboard
- Dive Saturation
- ROV Dive Logs
- SEEMP Operations Log
- Waste Management Log
- Reports
- Administration

Technology

- Web Browser Interface
- Microsoft .Net Application
- SQL Server Database
- OBIEE Reporting

Contacts

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COMDB Vessel Management



A software package for the commercial management and billing of vessel operations to Business Units

Functions

- Store vessel commercial agreements
- Issue vessel billing
- Vessel re-cap sheets
- Vessel activity summary reporting
- Extracts to ERP projects accounts
- Lump sum vessel crew travel processing
- Operational KPI reporting



COMDB

Reports Menu

Accounts	
Activity Summary (per month of activity)	
Activity Summary (per month of issue)	
Charter Workflow	
Hire Summary (per month of activity)	
OOS Days	
Operational Days	
Re-charge Report (per month of activity)	
Re-charge Report (per month of issue)	
Re-charge Report (Not-authorised)	
Travel Processing Joiners Report (per month of joining)	
Travel Processing Joiners Report (per month of issue)	
Vessel Activity Report	

Main Menu

Technip

COMDB

Main Menu

V1.0.25.2
Projects
Vessel Activities
Vessel Accounts
Vessel Billing
.../...
Travel Processing
Reports
Admin
Exit - Hindmar

Technology

- Web Browser Interface
- Microsoft .Net Application
- SQL Server Database
- Active Directory Security Roles

Vessel Activity Summary (month of activity)

Month: 3 Year: 2013 Vessel: APACHE II Report Reports Menu

Technip VESSEL ACTIVITY SUMMARY
OR015195-01 APACHE II - ACTIVITY MARCH 13

Main Mode	Secondary Mode	Duration (hours)	Duration (hours)	Duration (hours)
		Project	OOS	Total
At sea	Breakdown	2.32	0.00	2.32
DP trials	0.00	61.57	61.57	
Field entry trials	2.63	0.00	2.63	
Working	19.18	0.00	19.18	
TOTAL	24.13	63.57	87.70	
In port	DP trials	0.00	82.35	82.35
Dry dock	0.00	230.00	230.00	
Refuelling	0.00	152.76	152.76	
Mobilisation	126.47	3.00	129.47	
TOTAL	126.47	465.13	591.60	
In transit	Dry dock	0.00	56.60	56.60
Normal	10.00	0.00	10.00	
TOTAL	10.00	56.60	67.60	
	TOTAL HOURS	161.00	582.36	744.36
	TOTAL DAYS	6.7	24.3	31.0

Technip

COMDB

Main Menu

V1.0.25.2
Projects
Vessel Activities
Vessel Accounts
Vessel Billing
.../...
Travel Processing
Reports
Admin
Exit - Hindmar

Vessel Billing

Technip

Month Of Issue: 01 2013
Billing Type: Inter
Vessel: APACHE II

Export Main menu



Contacts

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- SEVS - Ian Hindmarsh (ihindmarsh@technip.com)
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Electronic Medical Records for Occupational Health Management on Vessels & Industrial Sites

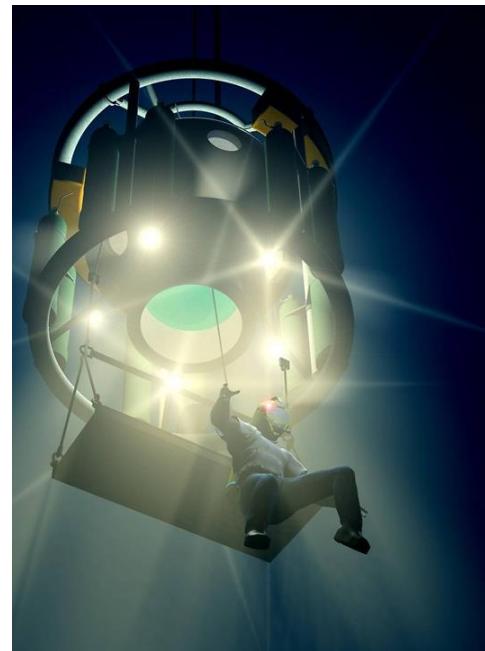
An electronic system to make medical services more efficient with increased data security in compliance with the Data Protection Act and Health Personnel Act*. Ensuring that medical staff are focused on the critical task of monitoring health of the work force and not completing and managing paperwork or spending hours creating statistical reports.

*Norwegian legislation



Features

- Patient Journal - Keep accurate and up to date medical records for employees for all visits to medical staff. Providing health workers in Technip with instant access to medical records no matter where they are located in the world. Once they have accessed the system they can quickly enter a new patient visit, record details of the visit, prescribe medicines, create absence notes and document numerous other tasks that are typically performed by health professionals.
- Employee Journal – As employees your staff have a legal right that their personal patient data is kept separately from their employee data. The Pride Journal - Employee Journal feature allows your health care workers to switch between providing personal health care (Patient Journal) to providing company health services (Employee Journal) at the click of a button. This feature ensures that you meet all the regulatory requirements for storage of medical data and saves your health workers the hassle of manually keeping the data separated.
- Reports - This easy to use tool provides the user instant access to both dashboard style and fully custom built reports. Giving easy to read statistical outputs in Excel charts. Ensuring that charts and data can be attached or inserted into your own reporting structure if required. This is primarily used to keep track of operational statistics, eg:
 - Number of patient/employee visits
 - Number of visits per health worker
 - Number of visits per health office
 - Work environment profiles
 - Tracking of exposure to dangerous environments
 - Detection of trends and long-term health effects
 - Producing ad-hoc or customized reports for any data registered in the system



Technology

- Software as a service
- Web Browser Interface

Contacts

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- SEVS – Ian Hindmarsh
(ihindmarsh@technip.com)
+44 (0)1224 271450



Stalk	12" _02	Location	2
Description	12" Carrier Pipe (12" PIP) Stalk 02		
Drawing	WK-UK029279-4013		
Length	953.19 Ft	From Weld	02.01



Status	Sev.	Pr %
Reject	8	2.7
Accept	1	97.3

[Find Serial...](#)

[Find Weld...](#)


eSea - Spoolbase

Coating	3LPP										
Wall Thickness	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Grade	L415										
	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Weld No.	02.01	02.02	02.03	02.04	02.05	02.06	02.07	02.08	02.09	02.10	02.11
Weld Commenced	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015
Weld Procedure	WPS01										
Root Visual											
Weld Completed	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015

Group standard Pipe Tracking System for Spoolbases

Pipe Tracking System for Spoolbase use, tracks from receipt of the pipe into the base to the stalks as they are built for reeling on board the vessel, also tracks the specifics for how the pipe is laid.

eSea is developed and supported in house by Technip Italy in conjunction with the permanent Spoolbases. eSea is a derivative of EasyPlant currently used by the Onshore/Offshore divisions.

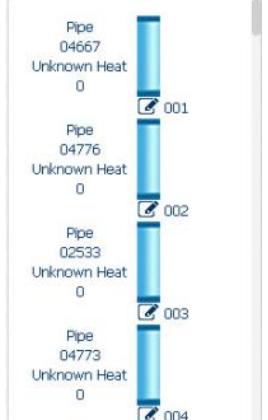
There will also be an S-Lay version of eSea to be used on the G1200 and G1201.

Features

- Configuration – fields are controlled by user built drop down choices and can vary from Spoolbase to Spoolbase, project to project to easily accommodate different reporting / tracking needs.
- Stalk Management – Allows Technip to build stalks pipe by pipe and track welders and consumables used for each weld during all welding processes on the stalk as well as all of the inspections of each weld.
- Welder/Inspector Management – Allows the Spoolbase to track welder qualifications and Inspector certifications per project.
- NDT Reports – Allows the ability to upload NDT reports from various vendors and electronically viewable from within eSea.
- As Built/As Laid – Will produce the As Built for the Line and will have the ability to modify and produce the As Laid to reflect what actually happens at sea during the PipeLay phase.
- Audit trails – provide a complete history of the weld from mainline to all rewelds done as result of NDT examinations.
- Reports - lets users select from a variety of predefined reports including Tally, Welding, NDT, Field Joint Coating, and Inspectors.

Welding Front-End

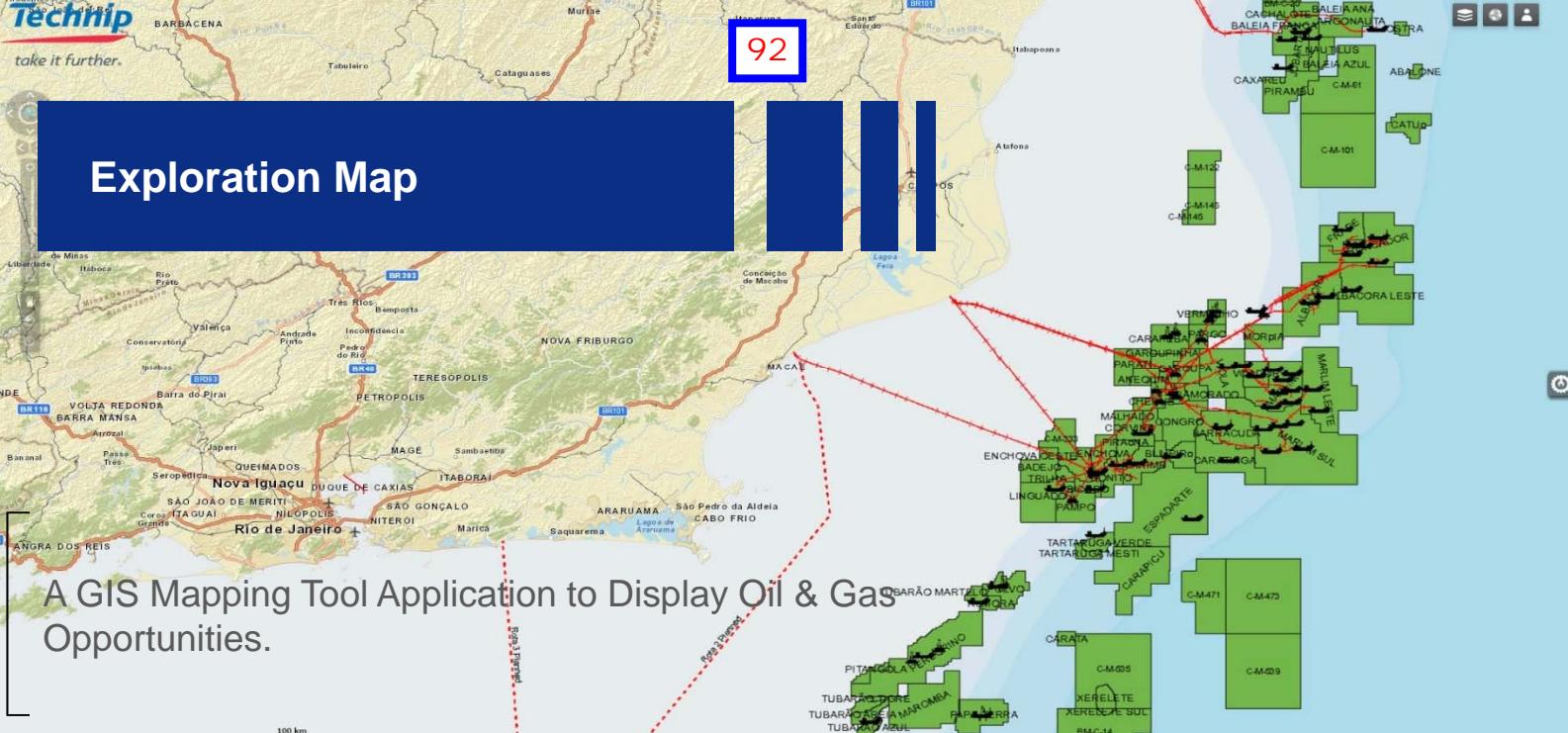
Stalk	JU-01
Description	10.75" x 1.378" Flowlin
Drawing	GS032384-000DW-5726
Length (ft)	0.00



Contacts

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Features

■ Interactive Map with Oil & Gas Information

- Interactive Map with Data information about Oil & Gas Fields, Blocks, FPSO, Pipelines and others.
- Extensive Search Functionality
- Information is Displayed in Layers, with possibility to show or hide each one individually.
- Relate Data in the Map with information from other Databases for seamless integration with Business Data.
- Mapping analysis such as distance, location.
- Label and graphic tools for Mapping identification and presentations



Block Name	Period	Duration	Number of Volumes	Last Date	ID
BM-S-11	1	2	1	15/09/2000	147
BM-S-11	2	3	2	15/09/2000	148
BM-S-11	1	3	0	15/09/2003	149
BM-S-11	4	780	780	31/12/2014	148



■ Technology

- ARCGIS Server Architecture
- Integrated Active Directory Security (Windows computer logon).
- Flexible Layers Creating with Several Background Map Options.
- Works with Shape File (*.shp) and KML Google Files.
- Accessible from any browser (best with Chrome) no need for additional software installation.

■ Use Cases

- Allow commercial departments to map Oil & Gas opportunities.
- Share information with others in meeting rooms and make on the go analysis.
- A common application to access data from different data Sources.
- Facilitate the understanding of Oil & Gas Locations.
- User Friendly access for management.
- Integrates with BI Software.

Contacts

■ Commercial – Francisco Oliveira
(foliveira@Technip.com)
+55 21 2139 7316



■ SEVS – Ian Hindmarsh
(ihindmarsh@technip.com)
+44 (0)1224 271450



Key Selection Factors:

Subsea Business Domain

Subsea Engineering & Vessels Systems (SEVS)

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Asset Mgmt (TMOS) – Per new Vessel	86		€€				
Asset Mgmt (Ind) – Per new Site	87		€				
Offshore Reporting – Per new Vessel	88		€				
COMDB Vessel Mgmt – per Entity	89		€				
Pride Medical Journal – Per new Vessel	90		€				
eSea Pipe Tracking, Spoolbase & S-Lay	91		€€				
Exploration Map	92		€€				

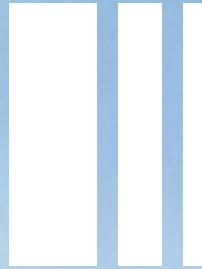
LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	Back Office:
Support localization :	
Global:	Local:

Subsea Domain

Subsea Project Management
Systems (S-PMS)



iTWO - Tender Estimating

A powerful and flexible tender estimating tool



iTWO, a proprietary application from RIB Software to help improve productivity, accuracy and quality throughout the tender estimation management lifecycle. Suitable for tenders of all scales, able to help provide quick and accurate responses.

Features

- Predictable, template based tender preparation, lessening reliance on varying levels of control with spread sheet solutions.
- Uses standardised cost libraries, reduces potential for error.
- Flexibility to accommodate varying client tender scopes.
- Comprehensive reporting mechanism to prepare tender summaries.
- Multi-user collaboration for preparation, and management, of cost estimates.
- Historical Reporting, Trending and Benchmarking capability to improve future tendering activity.
- Ability to integrate with existing Technip systems for Costs, Resourcing and Schedule such as Oracle EBS (GEOS) and Primavera P6.
- Audit feature provides detailed way to track changes.
- Powerful role based security restricts users to only see what they need.
- Improved approval workflow.

Integration



Simplification



Reduce dependence
on spread sheets

Contacts

- S-PMS – Grant Hamilton
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PRIMAVERA P6

ORACLE®
PRIMAVERA P6

Primavera P6 EPPM (Enterprise Project Portfolio Management) is a high-performance project planning application, based on the Critical Path method. It is designed to handle large-scale, highly sophisticated projects having up to 100,000 activities.

Version 7.2SP2
September 2013

Main concepts and functionalities

The main components of Project Planning are Design (of the activity network and the corresponding Gantt chart), Control (over the earned values and the resources) and Reporting (through curves and reports).

Primavera P6 EPPM is an application developed by Oracle and it is widely used by our partners and clients all over the world to manage their schedules.

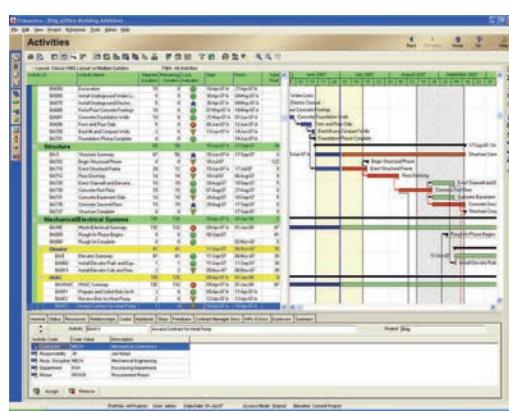


P6, a collaborative application for Planning

Of all the features available, the multi-center and multi-partner real time interconnection is a key one in Primavera P6. It improves the work efficiency by providing access to a shared database and by allowing all team members, regardless of their work location, to interact with the same schedule in real time.

Primavera P6 proposes a powerful Gantt Chart view displaying activities with different layouts. It also offers a high level of customization of these layouts that can be shared among team members. Group & sort (based on WBS, activity codes, user-defined fields), filters options and Gantt chart options give a wide spectrum of possibilities to define a specific layout.

The application offers high flexibility through its capacity to design a schedule over the OBS (Organization Breakdown Structure) of the company, the use of unlimited user-defined fields and the linkage of activity or resources through customized codes. Using



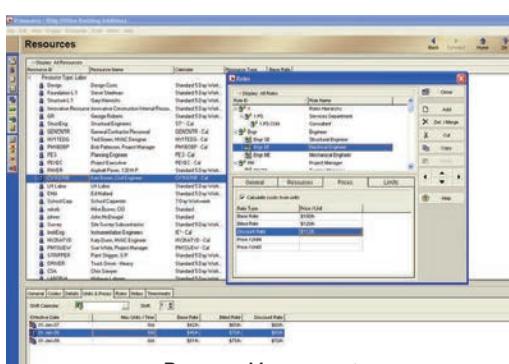
Project Gantt Chart

the OBS / EPS (Enterprise Project Structure / Project Profile / Global Profile also provides a good security over the data.

Resource Management is made easier by the capacity to create an unlimited number resources as well as an unlimited number of roles that can be assigned to resources.

Through the facility to manage several plans inside the application, Forecasting changes on the schedule is simplified (management of baseline, revised and forecasted plans).

Real-time as well as Excel reports can easily be extracted from the tool to review progress and actuals as well as the remaining workload.



Resource Management

Key Features

- Plan, schedule, and control complex projects
- Balance resource capacity
- Allocate best resources and track progress
- Monitor and visualize project performance versus plan
- Conduct what-if analysis and analyze alternative project plans

Application Focal Points

Business Project Manager
Thibault Dumas
tdumas@technip.com

IT Project Manager
Fulvio Giordani
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Project Management Systems domain

Business Coordinator
Franco Concaro
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IT Owner
Vincenzo Cena
vcena@technip.com

rev. May 22, 2015

Technip
take it further.

xDB EDMS



xDB EDMS Application grants access by a Web Browser to the Electronic Document Management System (EDMS).

EDMS is an in-house development started on 1997 and based on Lotus Notes. Used by every project in Brazil, Region A, Asia Pacific, North America and Middle East.

It allows identification, recording, distribution, change tracking, filing and archiving of all projects documents.

■ “Discipline” Block

- DDB:** used by disciplines to prepare and store their documents prior to approval, storage in the project document base and distribution
- FDB:** used by disciplines to allow inter discipline checking as well as electronic signature if applied on this project

■ “Project” Block

- PDB:** allows to handle all revisions of all documents issued by Technip, its partners and other parties
- PDBC:** allows comments storage, responses storage, transmission and follow-up

■ “Vendor” Block

- VDB:** allows to handle all revisions of all documents issued by vendors, including the review cycle
- VDBx:** Interface between VDB and the vendor/subcontractor

Fully integrated application:

- JANUS, SPMAT, SP Foundation, EPC-Business, CDB, easyPlant, Aveva.net.
- Interfaces for each project with the EDMS tool used by client

Key Features

- Full Web Browser
- One Focal Point Access (EDMS Portal)
- Complex Report available
- Support large amount of documents and data
- Strong integration with the Technip mail tool
- No Lotus Notes client required
- Ergonomic Look & Feel
- Facilitate exchange of documents with Clients and Partners
- No Replication (except exotic location with low bandwidth)
- Easy migration process for existing database

Contacts PES Team Members

- Business Application Owner – Jean-François Tiberti (jftiberti@technip.com)
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- Business Application Owner Deputy – Sylvie Pinto (sypinto@technip.com)
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- IT Application Owner – Raphaël Montavon (rmontavon@technip.com)
+33 (0)1 4778 3031

Main functions

- Store** in a safety and easy retrieval manner all the project document revisions issued by the project Team in electronic format
- Control** the status of the documentation already issued and still to be issued
- Inform** the project Team of the availability of the documents issued by sending a transmittal note and/or electronic notification
- Give** to the whole project Team **access** to updated lists of documents and updated project documentation
- Allow to generate intermediate and final **electronic handover**

Key Benefits

- Adapted for multi-center project
- Adapted to the whole lifecycle of the document (from creation to construction site)
- Customized to the documentation management process used in Technip
- Strong integration with JANUS for the follow-up of the progress of the project
- Unique tool used by all participants of a Technip project

Key Selection Factors:

Subsea Business Domain

Subsea Project Management System (S-PMS)

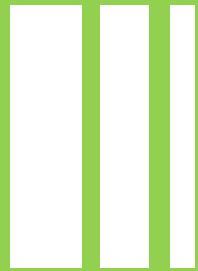
Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
iTWO Tender Estimating	95		€€				
Primavera P6	96		€				
XDB EDMS	97		€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Corporate Business Domain



**Onshore /
Offshore /
Process Tools**
Business Domain

(PES + PMS)

Corporate
Business Domain

(BSFS + ERPs)

Subsea
Business Domain

(Manuf + SEVS + S-PMS)

(Data Management)



Corporate Domain

Business Support Functions
Systems (BSFS)





Synergi is the Group standard application for recording, reporting and analysing QHSE cases

Services

Synergi is an integrated business solution, which Technip uses for the management, measurement and reduction of operational and business risk.

Using Synergi, Technip manages the following standardized processes:

- HSE Incidents: accidents, near misses, hazard observations
 - HSE Indicators: manhours, leading indicators, training manhours, environmental KPIs
 - Management Systems: Audit and other Assessments
 - Management Systems: Operational Findings: Non-Conformity and Feedback
- A regional team of local administrators (see the Synergi Community workspace for the full list) manages Synergi throughout the world.

Technip

Synergi™ Life

Messages Go to basic Support Tools Help About

Collecting

Register a new case

HSE Incident - Accident
HSE Incident - Near miss
Management Systems - Audit / Assessments - Audit / Assessments
Management Systems - Operational Findings - Feedback
Management Systems - Operational Findings - NCR

Synergi menu

Functions

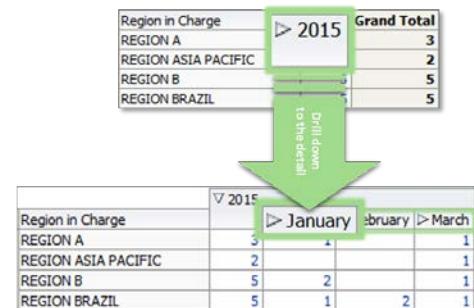
QHSE departments throughout Technip are using Synergi to:

- Collect QHSE information related to leading and lagging indicators
- Communicate, share lessons learnt and issue notifications and alerts
- Comprehensively manage and track corrective and preventative actions
- Process, analyze and report indicators for continuous improvement.

In addition to inbuilt Synergi reports, Technip has developed *Synergi Business Intelligence (BI) Reporting*. Data from Synergi is directly available in this tool which gives access to Quality and HSE dashboards.

These dashboards give users the flexibility to:

- Continuously drilldown to the smallest detail available.
E.g. by Year > Quarter > Month > Date
- Dynamically update charts
- Create their own reports



Synergi BI Reporting



Key Benefits:

Synergi is designed to comply with international requirements and best practices. Requirements from recognized standards such as ISO 9000, 14000 and OHSAS 18000 series are integrated parts of the standard module. The modules Technip use have been configured to specifically fit Technip's business activities. Further benefits include:

- Encourages improved safety and quality culture
- Aids in risk management and prevention of unacceptable risk
- Ability to track feedback and share lessons learned
- Efficient management and tracking of actions
- Harmonization of recording and reporting processes throughout the Group

Access & Information

Synergi application is accessible from: <http://synergi.apps.technip.com/Synergi>

Access requests can be raised to your Local Helpdesk

User Guides and more information can be found on the intranet:

- [Technip Group > HSE > HSE tools](#)
- [Technip Group > Quality > Quality Alerts or Knowledge Management](#)
- [Technip Group > IT Services > Group Applications > Synergi](#)
- Workspace : [Synergi Community](#)
- Yammer Group : [Synergi Life News](#)

Group Procedures:

Synergi is managed in accordance with:

- Group Operating Procedures : **GOPS 10103** - Quality Alert System and **GOPS 11009** - HSE Incident Classification Notification Investigation and Reporting
- Group Operating Guidelines: **GL 10108** - Synergi QHSE Audit and NCR Management and **GL 11023** – Global Synergi Management Standard

Contacts

Business:

- Goh Gek Ngo
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- Marc Cabassa
Knowledge Management Manager
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- Edgar Pushparatnam
Group QHSE Director
epushparatnam@technip.com

IT:

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- Muriel Rozenbaum
IT Domain Manager
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- Jean-Luc Brunat
IT Domain Owner
jlbrunat@technip.com

CSS – Client Satisfaction Survey



CSS – Client Satisfaction Survey is the Group standard application for recording, reporting and analysing Client satisfaction

Services

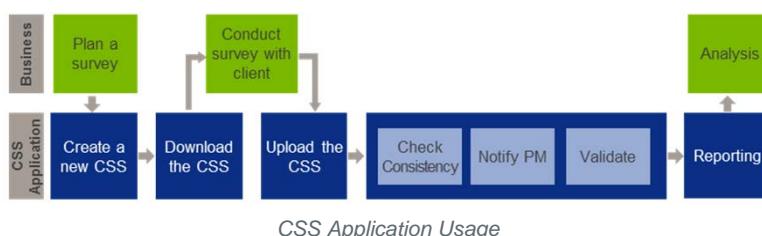
When conducting a client satisfaction survey (CSS), what we ask the client is important. Equally, important is what we do with their answers. Quality and management departments throughout Technip use CSS to:

- Collect Client Satisfaction Surveys for each project
- Make informed decisions to improve client satisfaction
- Communicate and share lessons learnt to capitalize on project experiences

Functions

Using CSS we can:

- Generate and download a standard survey spreadsheet with some fields pre-filled with validated information (this is then used to survey the client)
- Upload the completed survey back into the application
- Notify and allow Project Managers to make additional comments to give background to Client views
- Run CSS *Business Intelligence* reports with the flexibility to:
 - Dynamically update charts
 - Create their own reports
 - Analyse projects based on Client surveys results in ways (e.g. calculate satisfaction by project phase, by Region etc)



Access & Information

Access requests can be directed to CSS Business Contacts below.

The application can be found on the intranet:

Technip Group > IT Services > Group Applications > CSS

Contacts

Business:

- Francesco Collu
Vice President, Group Quality & Methods
fcollu@technip.com

IT:

- Vincent Nicolas
IT Application Manager
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- Muriel Rozenbaum
IT Domain Manager
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- Jean-Luc Brunat
IT Domain Owner
jlbrunat@technip.com

TOPSET: Blackbox & Investigator



TOPSET for incident and investigation management

Services

In order to minimise risk and efficiently investigate incidents, Technip uses applications by Kelvin TOPSET:

- Blackbox: low potential and low risk investigations
- Investigator: medium and major potential and risk investigations

These applications enable an investigator to efficiently plan and conduct the investigation in a methodical manner to uncover the root cause.

Functions

Blackbox:

This tool which allows investigation using standardised methodology, of low potential and low risk incidents (such as falls) and near misses.

The software helps you to record data from the investigation and generate actions and reports.

Investigator:

For higher potential and risk investigations and analysis, use Investigator 3. The application supports the Tripod Beta incident analysis methodology.

Access

The Topset website and application can be accessed from the intranet:

- Technip Group > HSE > HSE tools
or
- Technip Group > IT Services > Group Applications > Topset

Contact the Business Application Manager to request access.

Key Benefits

- Standardized templates and methodology improves thoroughness
- Helps to identify root cause of incidents
- Reduced time to generate reports and action preventative steps

Contacts

- Philipp Wilkens
Business Application Manager
p.wilkens@technip.com
- Bruno Cagnart
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- Vincent Nicolas
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r.troisi@technip.com
- Muriel Rozenbaum
IT Domain Manager
m.rozenbaum@technip.com

Knowledge Management - Lessons Learned System

The KM Lessons Learned System is an opportunity to ensure “Knowledge is shared and accessible” for our progress — a Technip Quality principle



Services

The KM Lessons Learned System is a practice to foster the culture and cooperation of knowledge sharing across our Human resources, Operating centers, Disciplines and Projects with no barrier across our Group. The KM Lessons Learned System is promoted by the Group Extranet portal “Share What Works”.

What is a Lesson Learned ?

A knowledge or understanding gained by experience that it's worth to share (“Share What Work”).

A Lesson Learned is composed of the following fundamental information:

- Why this Lesson Learned is important
- Criticality in term of doing things Better (QHSE), Faster (Schedule) and/or more Cost effective
- What is it about
- How can it be implemented
- Any relevant files for further understanding and application

Functions

- Create Lesson Learned into the Database or Import via an Excel template
- Several visualizations already setup to facilitate searching per different categories
- Rate Lesson Learned (from 1 to 5 stars)
- Centralized Storage of Lessons Learned across the Group
- Lessons Learned Export for Offline viewing
- Free-Text Search System
- Secured Extranet access for access outside from Technip network





Key Benefits:

- Knowledge sharing fosters cooperation & transparency across Disciplines, Business Segments, Regions and throughout the Group
- Can be used to improve the quality of products and services
- Encourages excellence in quality and continuous improvement
- Avoids "reinventing the wheel"
- Enables standardization of best practices

Access & Information

More information can be found on the intranet including:

- KM Lessons Learned System GL 10105
- Navigation Online Help
- GTDS 10105-1 Collect Lesson Learned Excel Template.

Navigation: The Link Group > Quality > Knowledge Management page

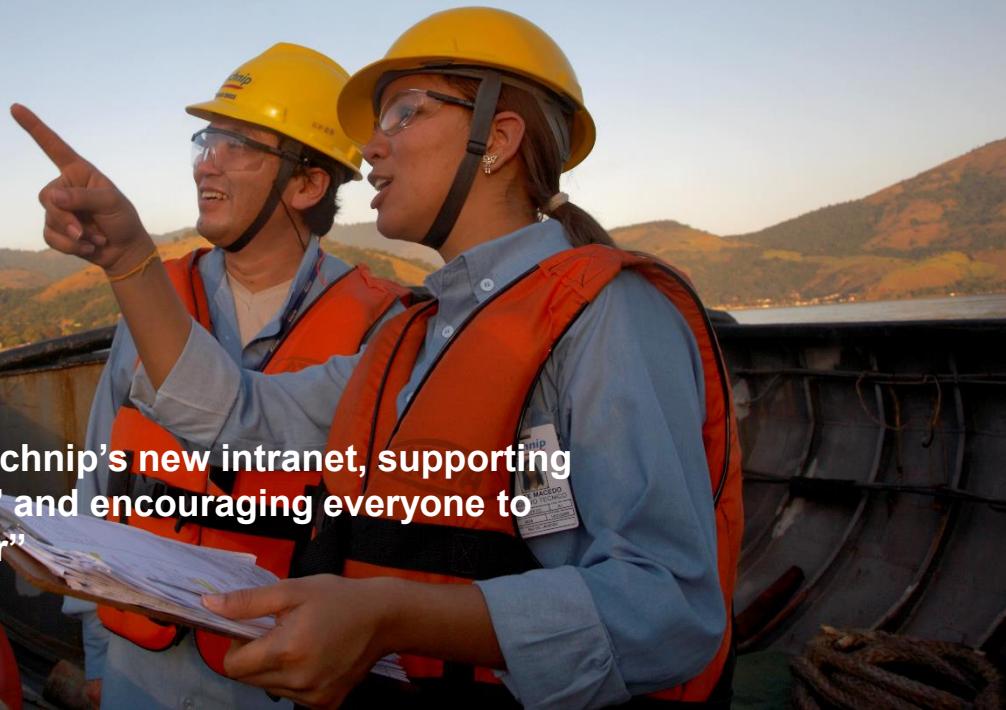
"Share What Works" Portal Home Page

Contacts

- Francesco Collu
Business Application Owner
fcollu@technip.com
- Marc Cabassa
Business Application Manager
mcabassa@technip.com

Lesson Learned Data Entry

“The Link”



The Link is Technip's new intranet, supporting “One Technip” and encouraging everyone to “Take it further”

Services

“The Link” is the name of Technip's intranet portal, released in 2013 for TCS first, with other Technip sites following. It is a Group initiative which results from the close collaboration of IT and Communication departments. Designed to support operational efficiency, collaboration, communication and internal cultural coherence, it supports: One Technip. The Link unifies access to:

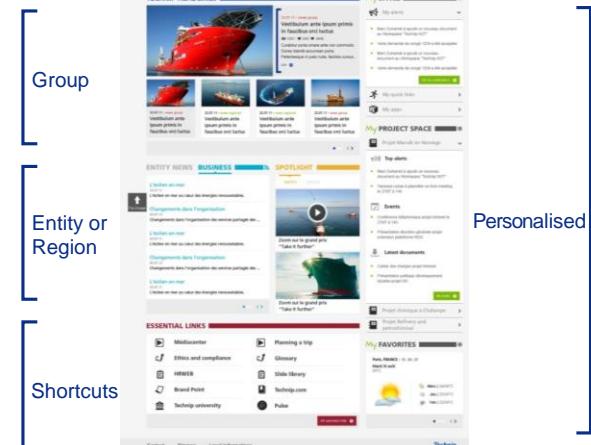
- Group, Entity and specific websites
- References (documentation, news, projects, teams and essential common links)

Users of The Link will access the portal as a useful, central, customizable point for their communication and day-to-day needs.

Functions

The Link intranet portal brings the following functionality to Technip:

- External/extranet access for Technip employees
- Personalized My Space and My Project Space zones in addition to the My Work webpage
- Select clocks from different time-zones to appear on My Work page
- Ability to select information from your favorite workspaces to appear in your My Space zones on your home page:
 - Most recent **Alerts**
 - Recently shared **Documents**
 - Current **Events**
- Select RSS (Really Simple Syndication) news feeds
- Ability to ‘Like’ and comment on news articles
- Search across the Link sites with filtering on results





Key Benefits:

- Improve the effectiveness of communication by creating a central, single contact point and ensuring a common message
- Centralized access to many systems and applications
- Gives people control to customize their intranet portal to be relevant to their needs (information, collaboration, applications, projects)
- Standardized branding and style regardless of where you navigate in the intranet (Group, Region, Entity or Site level)
- Allows 2-way communication (comments and 'Likes' on news articles)
- Ability to present popular news and information determined by users
- Easier to find information (broader search capabilities, customizable filters on results)
- Improved accessibility with external access to The Link
- Encourages an atmosphere of collaboration and sharing
- Ability to conduct continual service improvement through analysis of usage statistics and rating feedback

Access & Information

The Link is the standard intranet design for Technip. It is already live for the home page of TCS, other sites will follow progressively.

To browse The Link on the TCS home page: open Internet Explorer, use the site directory to change to TCS site.

Demos and "How to's" are available on The Link home page.

Contacts

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- Vincent Nicolas
IT Application Manager
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- Muriel Rozenbaum
IT Domain Manager
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- Jean-Luc Brunat
IT Domain Owner
jlbrunat@technip.com

Customisable

My SPACE

- My Alerts
- My Quick Links
 - ISO Standards Link
- My Apps
 - People Search
 - Salles de visioconférence
 - Saisie des heures travaillées
 - Demande de congés
 - Réservation des salles de réunion
 - Demandes informatiques
 - Ordre de mission / notes de frais
 - Glossaire
 - Group Applications

Relevant

My WORKSPACES

- GEOS
- G-MOS
- Top alerts**
- Events**
 - Subsea Management Committee (SMC)
 - Subsea Management Committee (SMC)
- Latest documents**
- DFB_Training

Personalize what you see in My Space and My Workspaces

BWise internal Control

Bwise Internal Control for all internal control stakeholders within the Group

Services

BWise Internal Control application is the Group tool which supports the Internal Control process of Technip. The application helps Process Owners and the Internal Control stakeholders to:

- Design and describe the controls implemented on the processes of Technip, in line with the Group recommended controls
- Test the effectiveness of the implemented controls and manage questionnaires for Entity Level Control
- Qualify and remediate the deficiencies

As data is stored centrally, reporting and analysis can be undertaken by stakeholders from office centers through to the Board Audit Committee.

Key Benefits:

- Enhanced Internal Control process to ensure that all risks are mitigated by controls implemented within processes thanks to a common Risk & Controls library, and to evaluate the effectiveness of the implemented controls
- Allows data sharing and effective collaboration in a secured environment
- Ability to follow-up and report on remediation action plan directly in the tool
- Embedded workflows integrating all Internal Control roles (Process Owners, Regional and Local Controllers, Group Internal Control)
- Improved reporting capability through use of Oracle Business Intelligence Enterprise Edition (OBIEE)
- Wide platform offers flexibility to meet other department needs (e.g. Internal Audit)

Internal Control - Risks and Controls Matrix					
Sub Process	Name	Risk	Recommended Control Objectives	Description	Implemented Control
ID	Name	ID	ID	Key ID	Description
SB.1	Access to financial system and records	Unauthorized access to accounting and reporting systems	RC.56.C	- Ensure that access rights are only given to authorized employees - Ensure that former employees are removed from the system	The list of access rights to the HR system is checked and updated on a quarterly basis (formally signed by HR Manager)
SB.1	Access to financial system and records	Unauthorized access to accounting and reporting systems	RC.58.U	- Ensure that access to financial application is restricted to authorized employees only	Access to accounting and reporting systems and other financial applications should be restricted to authorized employees
SB.1	Access to financial system and records	Unauthorized access to accounting and reporting systems	RC.58.U	- Ensure that access to financial application is restricted to authorized employees only	Access to accounting and reporting systems and other financial applications should be restricted to authorized employees
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SB.1	Access to financial system and records	Unauthorized access to accounting and reporting systems	RC.58.U	- Ensure that access to financial application is restricted to authorized employees only	Access to accounting and reporting systems and other financial applications should be restricted to authorized employees
SB.1	Access to financial system and records	Unauthorized access to accounting and reporting systems	RC.58.U	- Ensure that access to financial application is restricted to authorized employees only	Access to accounting and reporting systems and other financial applications should be restricted to authorized employees
SB.2	Accounting policies and procedures	Local chart of accounts is not in line with Group Chart of Accounts	RC.58.T	- Ensure that the local chart of accounts is regularly reviewed as to make sure that	A report listing all creation, modifications and deletions of accounts is sent to the Group Chart of Accounts. A report listing all accounts to be deleted is sent to the Group Chart of Accounts
SB.2	Accounting policies and procedures	Accounting and closing guidelines are not documented and communicated (incl.)	RC.58.B	- Ensure that the closing process is performed timely and completely	A closing procedure, listing all tasks to be performed, is formalized in a written document. It is communicated by the local CFO or

Risk and Control Matrix

Functions

BWise Internal Control application brings the following functionality to Technip:

- Ability to maintain the Group Internal Control assessment framework (Process – Risks – Recommended Controls)
- Definition of the controls implemented within local processes
- Evaluation of implemented controls design*
- Implemented controls testing*
- Entity Level assessments*
- Monitoring of evaluation progress and results
- Deficiencies qualification*
- Follow-up of remediation action plans*
- Business Intelligence reporting and analysis through OBIEE

* With validation workflow

Access & Information

The application can be accessed via the intranet:

- Technip Group > IT Services > Group Applications > BWise Internal Control

User Guides and more information (FAQs on how to request access) can also be found on the BWise website on the intranet:

- Technip Group > IT Services > BWise Website

Contacts

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- Muriel Rozenbaum
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- Jean-Luc Brunat
IT Domain Owner
jlbrunat@technip.com

The screenshot shows the BWise Today dashboard. At the top, there are tabs for Entity / Project (TUS - Technip USA, Inc.), BWise Today, Risks, Task Management, and Organization. The BWise Today tab is active, displaying a list of tasks: "Mitigating Actions / Deficiencies / Findings" (My Remediation Plans Requiring Actions (31), My Outstanding Actions (12)), "Assessments" (No actions found), "My Approvals" (No actions found), and "My Alerts" (No actions found).

On screen notifications and reminders

The screenshot shows the Process - Risk Tree interface. On the left, a navigation tree includes Risk Trees, Process - Risk Tree, Framework, Framework - Table View, Documents, and COSO Element. The Process - Risk Tree node is expanded, showing a hierarchy of risk categories: IC-Internal Control Process Tree, 50-Fixed assets, 53-Procurement, 54-Sub-contracting, 55-Sales, 56-Payroll, 57-Treasury, 58-Financial statements closing, and 59-Project management reports. The 59-Project management reports node is expanded further, showing sub-items: 59.1 - Initial budget, 59.2 - PMR update (forecasts and commitments), 59.3 - Progress measurement, 59.4 - Hedging, 59.5 - Contingencies and provisions for risks, and 59.6 - Review and approval. A warning message is displayed: "IC-R15-00453-Information reported in PMR is not regularly updated according to the ac...".

Internal Control Process – Risk tree:
Process > Sub process > Risk > Controls

Spend Map



Services

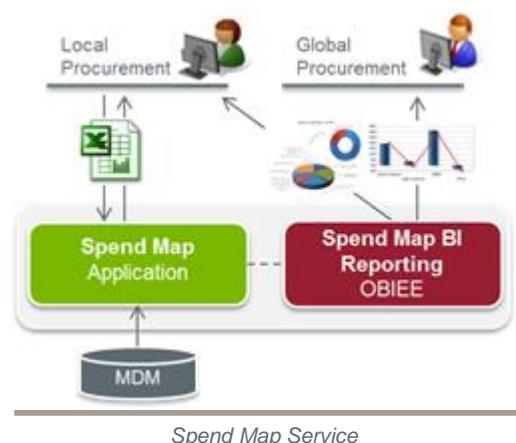
Spend Map is a global procurement application, which enables consolidation of purchase order information throughout the Group. In addition procurement can build their own business analysis via Spend Map BI Reporting (OBIEE tool) for reporting and analysis. Spend Map application is based on these principles:

- Management of procurement consolidation and analysis activity in a centralised tool, available for all the Group
- Standardised templates for gathering information, based on the Spend Map standard
- Automated integration with MDM* ensuring data consistency and quality

Functions

Spend Map application brings the following functionality :

- Ability to upload Technip Spend Map spreadsheet template directly into the application
- "Check" module after data upload:
 - Automatically checks and assesses Spend Map information against the MDM and integrated business rules
 - Alerts user of any data quality issues
 - Allows correction and/or alignment with MDM as required, before final submission
- Submitted Spend Maps are automatically consolidated and user notified of success
- Previously submitted spreadsheets can be downloaded and viewed
- Spend Map information is accessible in Spend Map BI Reporting for analysis of consolidated data. Standardised reports include:
 - Procurement Activity Evolution
 - Breakdown of Commitments
 - Procurement Activity Distribution
 - Supplier Ranking
 - High Value Spend
 - Geographical Origin of Supplies





Key Benefits

- Unique system in Technip which allows consolidation of procurement activity throughout the Group
- All the correct and mandatory information is uploaded for improved accuracy
- Local, Regional and Group procurement can access their data in real-time for analysis and reporting
- Significant reduction in workload:
 - Reduced manual consolidation
 - Manual Corporate reports no longer required
- Improved accuracy as key information is aligned with the MDM including:
 - Projects
 - Suppliers
 - Operating Center
 - Currency etc
- Improved currency handling as official rates are evaluated centrally, monthly in the system. This also allows entities to run Spend Map reports in their own currency
- Improved reporting capabilities mean Local and Regional procurement can create their own analyses based on their own criteria.

Access & Information

The Spend Map website includes user guides, FAQs and support information. Links to Spend Map applications and website are available on the intranet:

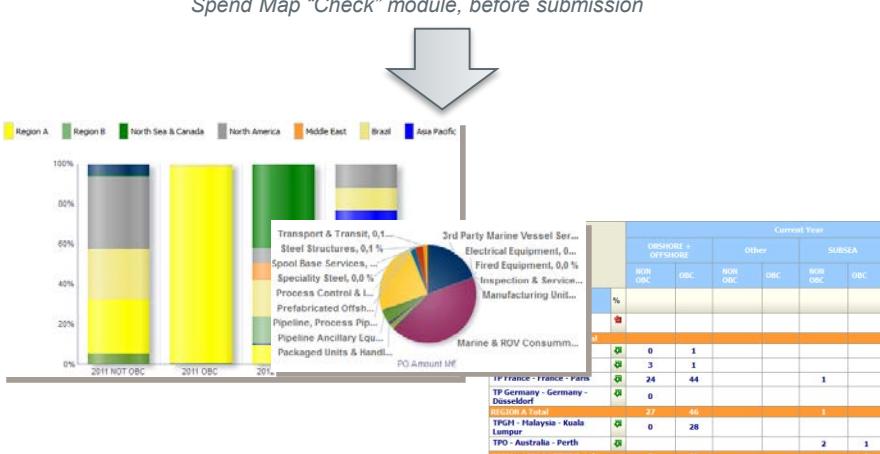
Technip Group > IT Services > Group Applications > Spendmap

Contacts

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Spend Map "Check" module, before submission

*Master Data Management. See IT Services page for more information.



Spend Map BI Reporting options

People Search



The Group directory for locating Technip people and contact details



Services

People Search is Technip's official directory for finding people and their contact details. The ability to search for people in our global directory regardless of entity or location allows us to work together more efficiently. Access to People Search allows people and teams to collaborate more effectively.

Functions

When you locate a person in People Search, you can see their:

- Phone number (including VOIP numbers for cheaper phone calls)
- Location
- Entity
- Email address and other information

In addition there is the capacity to display contact information such as:

- Internal emergency numbers (E.g. crisis phone numbers, safety officer contact details)
- Meeting Room details
- Reception and others

People Search is available internally from all company computers connected to the Technip network. It has also been designed to be accessible on Technip-issued iPads and from the internet. Anyone with a Technip network logon can use People Search.

Information is taken directly from our internal Active Directory of accounts, which means each entity has the ability to control the information displayed.

Name	Office Phone	Location
CHAMPAK PANCHAL	+91 981866 +91 981866	HOU-ENERGITOWER2 10.06
CHRISTOPHER CHAMPAGNE	+9063754 +9063754	HOU-ENERGITOWER2 15.52-02
DOMINIQUE CHAMENOIS	+33 4 47 78 30 58 +91 903058	PAR-MAILLOT 4850
GUY CHAMFRENT	+33 4 47 72 43 77 +91 904377	LYO-GERLAND 360
SYLVIAN CHAMPOCHET	+91 913123 +9067422	INDIA
TODD CHAMPAGNE	+91 981866 +9067422	HOU-ENERGITOWER2 15.69

Locate people across entities and location

Name	Office Phone	VOIP
SYLVIAN CHAMPOCHET	+91 913123 +9067422	+91 981866 +9063754

Click the Contact card for more information or click the Envelope to email the person



Key Benefits

Each entity has the ability to control the information displayed. Entities can publish People Search on their own intranets using the fields and information that suits them best.

As the content is managed by each entity, People Search provides the benefit of having the most up-to-date contact information about our Technip team.

The ability to search for people in our global directory regardless of entity or location allows us to work together more efficiently.

- Ability to find people by name, entity and location
- Easy to use
- Accessible to everyone internally
- Accessible with your account from the internet and iPads

The screenshot shows a search results page for 'MAILLOT TCS FIRST AID ROOM'. At the top, there's a search bar with 'Paris - T...' and a placeholder 'Start searching here'. Below the search bar is a navigation menu with icons for Home, Help, and Contact. The main content area displays a list of contacts:

Name	Office Phone	Location
1- MAILLOT TCS FIRST AID ROOM	3330	89 AVENUE DE LA GRANDE ARMÉE
1- MAILLOT TCS GENERAL SERVICES	3330	89 AVENUE DE LA GRANDE ARMÉE
1- MAILLOT TCS IT / TELEPHONY	2430	89 AVENUE DE LA GRANDE ARMÉE
1- MAILLOT TCS MAIL/DELIVERIES/COURRIER	2400	89 AVENUE DE LA GRANDE ARMÉE
1- MAILLOT TCS RECEPTION1	2400	89 AVENUE DE LA GRANDE ARMÉE
1- MAILLOT TCS SECURITY OFFICE	3010	89 AVENUE DE LA GRANDE ARMÉE

Access emergency numbers and other useful contacts

The left side of the image shows a map of Europe with several locations marked with blue squares. One square is highlighted over the 'United Kingdom' label. An orange arrow points from this highlighted area to a search results overlay on the right. The overlay has a title 'United Kingdom' and a search bar containing the text 'United Kingdom'. Below the search bar is a list of search results:

- Aberdeen - TECHNIP UK LIMITED
- Aberdeen - GENESIS OIL & GAS CONSULTANTS LTD
- Aberdeen - TECHNIP OFFSHORE WIND LTD
- Aberdeen - others
- London
- Milton Keynes
- Newcastle-Upon-Tyne

Find people based on their Country, City or Entity

Access & Information

- Internal access via Intranet:
Technip Group > People Search
Access also via some entity intranets (check your local intranet)
- External access via:
<http://psmobile.apps.technip.com>
- For more information see the People Search website on the intranet:
Technip Group > IT Services > Group Apps > People Search Website

Contacts

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jbrunat@technip.com

TICA – Technip Incident & Continuity Application



TICA is the Group application for Business Continuity Management (BCM) and Crisis Management

Services

Technip Incident and Continuity Application (TICA) has been designed to enable consistent and efficient management of business continuity and crises in Technip. The goal is to be well prepared, reduce recovery time and minimize risk exposure. TICA offers:

- Creation and management of Business Continuity Plans (BCPs)
- Storage of BCP templates
- Creation and management of Emergency Response Plans
- Declaration, management and follow-up of a Crisis
- Emergency Communication System for security and emergency response teams to oversee major incidents across the Group

BCPs plans are developed in TICA Enablon, regularly updated and must be aligned with the Group's security, safety and IT management standards. Lessons learnt from incidents and exercises are then incorporated into TICA BCPs.

Functions

- Business Continuity Management
 - Define checklists of all actions to anticipate BEFORE an incident
 - Upload Business continuity plans (Incident Management, IT Disaster Recovery, Department Recovery, Crisis Management Plans etc)
 - Documenting of Critical operations
- Technip Virtual Crisis Management Centre
 - Access and use Incident checklists
 - Information sharing with event logs and clear action follow-up
 - Accessibility and history tracking for legal and insurance requirements

Access & Information

- Tpnet > Technip Group > Security > Incident Management > TICA
- Contact the Business Application Manager to request access

For internal use only

Key Benefits

- Checklists of anticipated actions centralized and reviewed
- Business Continuity templates are shared
- Critical operations documented and tested
- During an incident information is centralised and shared for effective management

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Technip Security Navy Tracking (TSNT)



Monitoring Technip's fleet to react efficiently to the evolution of risks



Services

TSNT helps Security and Fleet personnel to manage vessel security with:

- Monitoring, recording and display of vessel movements
- Management of high risk zones
- Automatic alerts when a vessel is at risk
- Automatic recording of piracy incidents reported to the International Maritime Bureau (IMB)

Functions

The system combines a world map then overlays vessel positions, high risk areas and piracy incidents on one screen:

- Vessel position is regularly polled through satellite communications
- Received positions are displayed on the world map with corresponding latitude, longitude and date-time.
- Ability to zoom in on locations, vessels or incidents on the world map.
- Vessel position displayed in alternative colour if it fails to report its position within a defined period of time
- Ability to view the past itinerary of a vessel over specified period
- Administrators can define and display high-risk areas
- Stakeholders alerted when a vessel enters a high risk area
- Piracy Incidents reported to the IMB displayed on the map with coordinates and incident summary



An identified risk zone containing incidents



Vessel location

Access & Information

More information is available upon request to the Business Application Manager

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Traveler Security Booklet



Security is a system of behaviours, measures and procedures aimed at reducing our vulnerability in the face of malevolent human acts



Services

Traveler Security Booklet is an application allowing people to retrieve information about countries they will travel to, including useful contact details. Some countries have multiple booklets available:

- Country Security Booklets: useful security and general information related to a country (may also include some project information)
- Project Security Booklets: specific project related security booklets

Booklets are sent on demand via email, as a PDF file. This allows the traveler to store or print the information when they travel. This ensures travelers are aware of precautions they should follow during their travel and the correct processes to travel in a secure environment.

Key Benefits

- Before travelling, understand the potential risks of working in other countries
- Familiarity with Technip Security processes and helping reduce security risks
- Have an understanding of how to respond to security incidents while travelling

Your Security is our priority
Technip Security

Phone number of the Manager on Duty : +33 608 407 464
Please keep this number with you during your travel in case of emergency.

Travelers	
Name	Email
Nassera Madri-External	nmadri@external.technip.com

You can request a booklet on behalf of another person. To add a traveler, click the book to browse the directory.

To receive a Security Booklet in your mailbox, choose the relevant document in the drop down list.

Booklet *

AUS_Australia_and_New_Zealand.pdf

Risk level

1

The country of arrival is ranked level 1. Travels are allowed with normal vigilance.

Submit

Contact us

Email jsecurity@technip.com or contact your Security correspondent.

* Mandatory fields

Access

The application can be accessed:

- From within Technip via the intranet:
Technip Group > IT Services > Group Applications > Traveler Security Booklet
- From the internet (outside Technip):
<http://mysecurity.exnet.technip.com>

Contacts

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Legal Suite: the Group standard for managing Legal Entities details)



Services

Legal Suite is used in Technip by Legal department to store and manage information about our legal entities. This includes Technip's entity legal organization/structure and each entity's attributes and information.

This information is synchronized with the MDM.

Functions

the upgrade to V6 delivers the following new functionalities to bring more efficiency to Group Legal business process:

- Graphical User Interface :
 - A full text search capabilities
 - Ability to manage alerts
- Personal Area "My Legal Suite"
 - Ability to schedule events in the calendar
 - Alerts synchronization with Lotus
- Import/Export
 - Ability to import and export form contents
 - Ability to submit a request for a creation or an update through a dedicated form
 - Ability to encrypt documents
- Attendance fee
 - Ability to manage directors' attendance fee
- Improvements on the organigram
- Integration with Technip's MDM

Key Benefits

- Graphical User Interface
- Personal Area "My Legal Suite"
- Import/Export
- Attendance fee
- Improvements on the organigram
- Integration with Technip's MDM

Contacts

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jbrunat@technip.com

Access & Information

- Via Legal Portal
- Contact the Business Application Manager to request access

For internal use only

Contract Benchmark



Services

Contract Benchmark is a Group application that helps legal departments maintain and manage a contract referential. Legal departments also benchmark key issues for entities and Regions using key contract information.

Functions

Contract Benchmark allows authorized users to:

- Upload documents such as signed contracts, agreements, bond and guarantee documents, ATTs etc)
- Categorise and provide key information about clients contracts and documents:
 - General information (client name, project name business segment, contract type)
 - Key issues regarding the contract (liabilities, warranties etc)
- Search by multiple criteria (client, segment, project, location etc) then view key issues associated with search results then print or email
- Compare Key issues for up to 4 contracts, side by side
- Report on uploaded contracts

Key Benefits

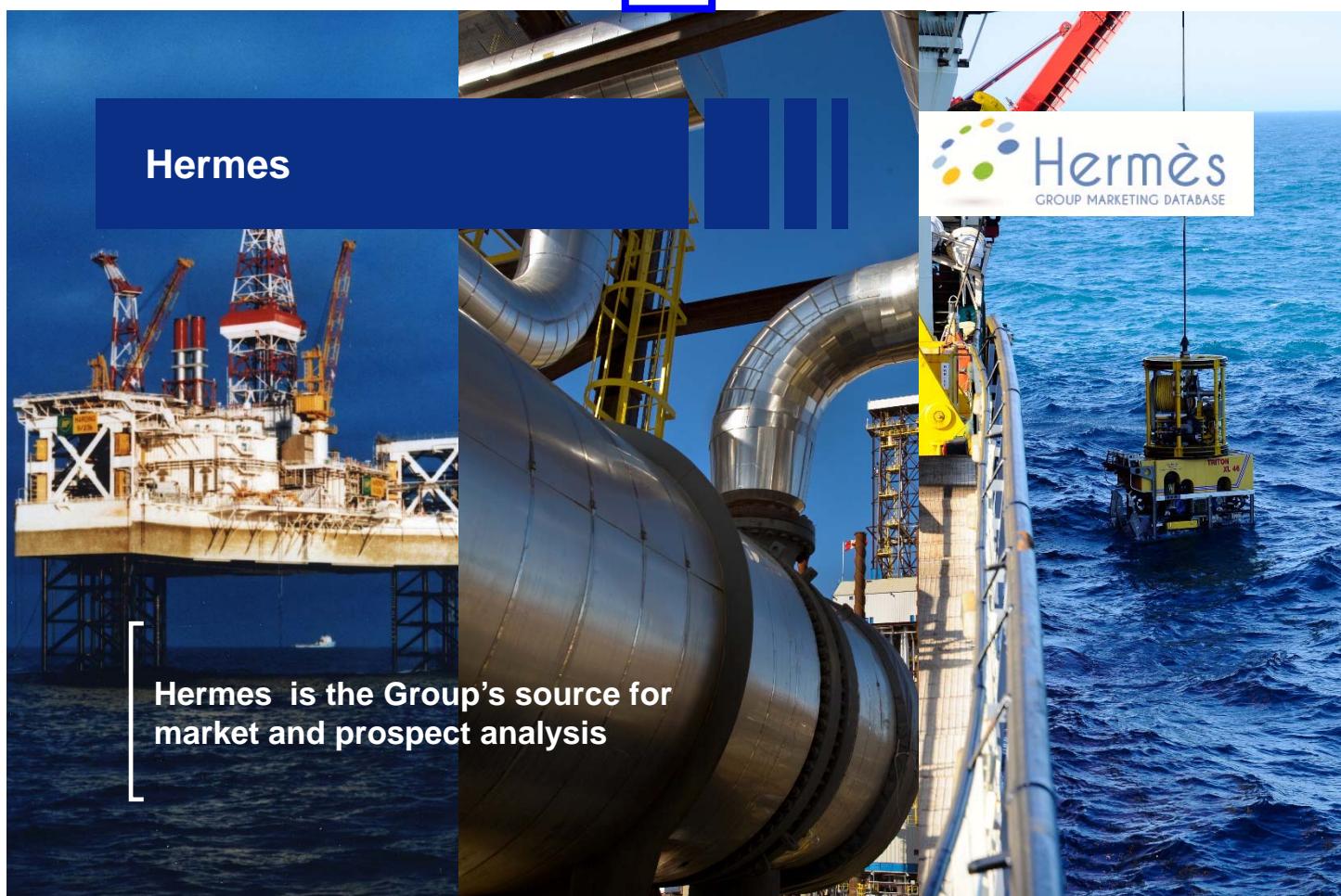
- Centralised information on Group contracting allows data sharing in a secure environment

Contacts

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- Jean-Luc Brunat
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jbrunat@technip.com

Access & Information

- TPNet > Technip Group > IT Services > Group Applications > Contract Benchmark Website (restricted access)
- Contact the Business Application Manager to request access to the application or email: contractbenchmark@technip.com



Services

Hermes is a source of information for Onshore, Offshore and Subsea markets and prospects. The application enables management, business development and analysts to evaluate their respective markets, support their sales and forecasting activities by identifying key targets and operational scenarios or trends.

Hermes can also be used to analyze market volume and short/medium/long term forecasts, competitor market share and expected tenders.

Using Hermes prospect information, organisations can build their sales scenarios and activities for the definition of the annual Commercial Objectives and Three-year Strategic Plan.

Functions

- Logging/tracking, categorization and ranking of *prospects* by geography, organization, technology, client, value etc.
- Logging and categorization of *work-packages* for prospects (scope of work, man hours, status, tender dates, competitors, value, target ranking, win probability etc)
- Dashboards/Commercial reports for Onshore, Offshore and Subsea run by award dates, clients, Regions etc.
- Extraction of historical data to carry out market analysis and qualification of stored data.

Access & Information

- Intranet > Group > IT Services > Group Applications > Hermes
- To request access contact the Business Application Manager for your segment

Key Benefits

- Ability to assess market value, identify trends and improve market awareness
- Ability to understand likelihood of awards, giving a forward view of potential workload and revenue

Contacts

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aha! innovation



aha!



**aha! innovation enhances sharing
of information about external
technology companies**

Services

aha! innovation application provides a way for Technip to record and manage information about entrepreneurial technology companies . This includes companies that could have a positive impact on Technip's business such as:

- companies with promising ideas
- small /independent innovative initiatives
- start-up companies

Companies are screened according to criteria before being entered into the database. The information can be useful to Technip sales staff, research and development, strategy and other departments.

Functions

- Detailed list and profile of each screened technology company:
 - Technology
 - Technology Readiness Levels
 - Business Segment
 - Contact details etc.
- Ability to create and modify records
- Ability to report and export records
- Advanced search including use of Google Search technology

Key Benefits

- Standardized and centralized application ensures efficient sharing of information
- Encourages innovation in Technip

Contacts

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Access & Information

- To be announced

For internal use only

Group Mobility Tool (GMT)



GMT: supporting the 'HR Without Borders program'

Services

GMT is a tool which supports HR in the management of the mobility process. It enhances and formalizes communication between home and host entities involved in mobility. Processes are aligned which enables more accurate reporting and sharing of mobility information.

GMT is based on and aligned with HRWeb—the Group HR tool that supports the Group HR processes through recruitment, performance assessment, mobility in the Group, retention and development. Access to GMT is via a module inside HRWeb for HR staff throughout Technip.

Functions

GMT is an important part of Group HR Processes to:

- Declare temporary mobility:
 - In Structure (organizationally)
 - On Projects or on Construction Sites
 - At Client or JV offices
- Report permanent mobility:
 - Transfer (direct)
 - Localization (after temporary mobility)
- Declare Home and Host entities of an employee and maintain each employee's Local ID
- Enable use of "Global Employee ID" field which will be used for all HR Group Processes and many other Group applications such as the HR Referential data warehouse and other HRWeb modules

Contacts

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Access & Information

The application and more information, such as Regional mobility contacts, can be accessed from the intranet:

TPNet > Technip Group > IT Services >
Group Mobility Tool

The screenshot shows the GMT software interface. At the top, there are navigation links for HOME, ADMINISTRATOR, and HELP. The user is identified as John Doe TCS.99999. Below this, the 'Mobility Type: Structural position' is selected. The 'Home Information' section includes fields for Home Contact (Maelys Saint M'leux), Current Organization, Local Job Title, Current Manager, and Home Local ID (TCS.99999). The 'Mobility Details' section contains fields for Host Entity (Choose Host Entity), Assignment Type (Structural position in entity), Job Requisition ID, Host Contact, Home Contractual Status (Choose Contr. Situation), Begin Date, Assignment Duration (Year, Months, Days), End Date, Assignment Policy (Choose Assignment Policy), Family Status, If none, explain why, and Phone No.



ePMR



ePMR is the Group tool for project reporting and consolidation

Services

ePMR (electronic Project Management Report) is an application which allows direct entry of project data used for Project Management Reports. ePMR is able to provide both Project and Consolidation Teams with the information appropriate to their requirements:

- Project total revenues, costs and margin estimate at completion
- Highlights on project execution (main events, physical progress, HSE and Quality indicators, use of resources)

Details of costs are structured according to the Cost Breakdown Structure (CBS). Budgets, commitments and forecasts are defined in costs and quantities.

Both validation and consolidation processes are automated, reducing time between data upload and report availability. MDM* integration ensures data quality and ability to consolidate data from multiple entities taking part in the same project.

Key Benefits

A centralized, common and secure ePMR system brings:

- Improvements in data quality and efficiency—reducing double handling, data is retrieved automatically from source systems including MDM*
- Harmonized methods and processes giving an “enterprise” vision of project management
- Flexible reporting capable of providing different perspectives for project management, project contributors, regional and corporate management
- Shorter reporting life cycle as data is available more quickly
- Group-wide system with more than 700 users standardising processes.

Scope

- DATA INPUT
- REPORTING
- CONSOLIDATION
- ANALYSIS

Project Team

- Cost Engineers
- Project Control Managers
- Project Directors

Consolidation Team

- Operating Center Managers
- Regional Managers
- Corporate Managers

Access & Information

The intranet connects you to the ePMR application and website for more information (including how to request access):

Technip Group >IT Services >
Group Applications > ePMR

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**Diapason
Group Treasury Management System**

Services

Diapason is the Group Treasury Management System (TMS) used throughout Technip with the goal of managing the firm's liquidity and financial risks. The system provides a secure and optimized link between the affiliates, the group In-house bank, and their local banks for Cash Management and Risk Management purposes.

Implementations of Diapason application includes the harmonization of processes and reporting practices across the Group, including Cash flow analytic treatment coming from ERP systems and MDM* integration for data validation (Local Project and Group Project codifications).

Treasury departments use Diapason for:

- Daily automatic reconciliation between Account Payables / Account Receivables coming from ERP Systems and the bank statements
- Daily Cash/Bank book via (Excel) reports
- Optimization of the working capital through the link with the group In-house bank
- Analysis of bank volumes and bank fees
- Management of interest rate and foreign exchange risks
- Management of Investments & Financing (internal loans, external debts)
- Follow counterpart limits (banks, internal entities)
- Alignment of information between treasury, banks and project accounting
- Electronic management of approval workflows
- Secure processes and automated notifications, including audit trails



Diapason application

Key Benefits

- Optimization and streamlining of treasury management & resources
- Improved treasury reporting process, treasury analysis process & financial risks follow-up
- Diffusion of treasury management best practices
- Managed inline with Business Process Management (BPM) approach
- Can consolidate multiple dimensions (project and accounting) for complete management
- Integration and automated synchronisation with other Technip Group tools (such as ERPs) and banking transmission tools

Functions

Diapason is integrated with the Finance Informative Systems such as ERP systems (Geos, Jeevan), banks systems, treasury reporting software, trading platforms...etc.

In addition, data is validated and additional information downloaded from the MDM* system or from internal breakdown matrix. The latest interest and exchange rates are downloaded and automatically updated daily.

Modules available:

- Cash Management
- Financial risks management
- Investments/Financing
- Back Office & Middle Office
- Administration
- Reporting
- E-learning for training

Access & Information

Both the application and Diapason workgroup website can be access via the Intranet:

Technip Group > IT Services > Group Applications > Diapason

Contacts

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* Master Data Management. See IT Services page for more information.

Diapason Trading schedule and Interest Rate quotations

FX Trading Schedule									
Situation Date	Jun 20, 2013	Entities *	Currencies 1 *	Currencies 2 *					
Trade types *	Folder Counterparty	Folders *	Counterparties *	Status					
		Group project code *	Project code *	validated, accountingValidated, validatedBO, netted, validatedSignatory, validatedAffiliate, validatedAffiliateBO					
		Business segment *	Business unit *						
Folder	Counterparty	Trade type	Amount (Cur1)	Amount (Cur2)	Forward rate	Interest Rates quota...			
Counterparty	Maturity date	Currency 1	Currency 2	Spot rate		Rate quotation			

Group Tasks **Interest Rates quota...**

Rate quotation

Search

Quotation from:

To:

Source type *:

Frequency:

Display Date By: Date by row Date by column

Rates to display:

eGuarantee Guarantee Management System

Services

eGuarantee is an application used by Technip, Technip France and Technip Offshore International to manage issued guarantees. The system provides a secure and optimized way to register, follow, update, report activities related to :

- Insurance guarantee
- Parental guarantee
- Bank guarantee
- Specific guarantee

Key benefits

- Eguarantee application is fully interfaced with MDM Master Data Management which allows accurate tracking including project dimensions, countries,
- Reports are available through eguarantee application and through Business intelligence.

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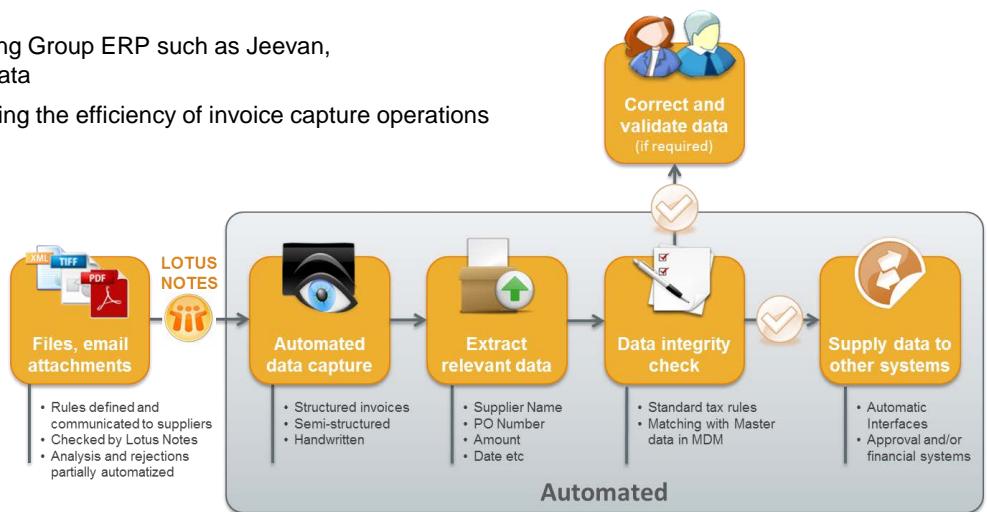


Services

OCR is the Group standard invoice handling application, capable of scanning and recognizing data. It's also an acronym for: Optical Character Recognition, meaning that the system can recognize characters in the image scanned and convert to data.

Accounting departments use OCR for:

- Scanning invoices and receiving invoices by email for storage
- Automatic invoice data capture from documents and data integrity checking
- Data manual check and correction where necessary
- Validating suppliers with Technip's Master Data Management (MDM) system for data quality
- Automatically supplying Group ERP such as Jeevan, Geos with captured data
- Reporting and analysing the efficiency of invoice capture operations



The OCR system

Key Benefits

- Accelerated and optimized invoice management
- Reduction of “low added-value” tasks for accounting departments
- Correct invoice archiving and improved traceability
- Invoice capture directly via e-mail for improved efficiency
- Systematic and standardized integration with ERPs and other Group applications including MDM* ensures efficient implementation for new entities

Functions

OCR can manage both paper invoices and email invoices. Paper invoices are scanned using iTESOFT software and sent as PDF file to ERPs. Email invoices are processed by using our email system.

Supplier data from the invoice is cross referenced with the MDM* to both ensure data integrity and to retrieve additional information automatically. Some specified information is captured automatically in the invoice such as:

- Supplier Name
- Amount
- Tax/VAT
- Currency and others

Depending on the requirements of the entity, this data can then be loaded into an ERP or approval workflow tool.

A link is created between the scanned document, the PDF generated, and the data extracted.

The application can be used to report on the efficiency of operations, analyse the quantity and efficiency of invoice processing.

The screenshot shows the iTESOFT OCR application interface. On the left, a scanned image of an ATM Engineering SRL invoice is displayed. The invoice header reads "ATM ENGINEERING SRL Invoice No. 10011, Invoice of the 27.01.12, Page # 1". Below the header, it says "2012 AAA 00002 Data Ricezione 27-01-2012". The logo for "ATM Engineering" is visible. The main body of the invoice includes sections for "FATTURA COMMERCIALE No. 10011", "Roma, 26/01/2012", "RIF. PROG. TPIT6001", "CODICE CLIENTE 00001", and "CLIENTE: Technip Italy SpA, Viale Castello della Magliana, 68, 00148 - Roma, P.I. 04874901004". There are also sections for "CONDIZIONI DI PAGAMENTO" and "RIFERIMENTO CONTRATTUALE". On the right side of the interface, there is a detailed data entry form titled "Check Header/Footer". This form contains fields for "Identification" (set to "INVOICE"), "Header" (Document date: 27.01.12, Document number: 10011, Document ref.: blank), "Footer" (Accounting date: 05.06.12, Currency: blank, Net amount: 6 240.00, Total amount: 7 550.40, Due date: blank, Order number: blank, Delivery number: blank), and a "Comment" section. At the bottom of the data entry form, there is a note: "First time this supplier is processed: please check all the fields and force (F9) to validate the invoice." Below the data entry form are buttons for "Supplier prep...." and "Optimise".

Scanned Invoice in OCR application

Access & Information

Internal access via the intranet:
Technip Group > Group Applications
> IT Services > OCR

User Guides and more information
can also be found on the IT Services
page:

Technip Group > Group Applications
> IT Services > OCR: Demat
Workgroup

Contacts

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- Jean-Luc Brunat
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jbrunat@technip.com

*Master Data Management. See IT Services page for more information.

DEMAT (e-Series) Applications



Demat applications reduce paper use and improve efficiency of document approval

Services

“Dematerialisation” or the removal of paper documents from our processes, is environmentally friendly, reduces costs, and also reduces the length of the approval lifecycle. Demat applications are all based on these principles:

- Electronic and secure approval of documents
- Centralised document storage
- Use of standardised templates
- Reporting availability
- Paper use reduction

Each Demat application contains a set of electronic approval workflows and template generation tools. In each application, different document types (e.g. invoices in eAFP or inter-company purchase orders in eICPO) are uploaded or generated, then dispatched and managed electronically for local and/or worldwide purposes.

Functions

The Demat applications contain the following functionalities:

- Upload a PDF document (e.g. Invoice) and other supporting documentation if required, for approval
- Ability to add multiple approvers at multiple levels
- Approvals can be managed sequentially (Level 1 approvers first, then Level 2, etc.)
- Stakeholders receive email notifications with link to relevant document
- Approvers can see document image and document form with details on the same screen
- Secured access with log of events
- Documents can be printed (if necessary)
- Search by large number of criteria, export search results to Microsoft Excel



Key Benefits

- Faster and more efficient communication and documents' approval
- Improvement in the cost efficiency of processes
- System helps standardize processes
- Reduced paper usage, lowers costs and benefits the environment
- Applications can allow different level of access which enables secured management of processes
- Demat Application template can be used to quickly create new applications customised to business needs

Demat Application Portfolio

- eAFP: approval of invoices, locally run and managed
- eAFE: approval of expenditures (CAPEX), shared Group tool
- eICPO: approval of inter-company purchase orders (internal CDIs), shared Group tool
- eAFO: approval of activity opening, locally run and managed
- eNDA: approval of Non-Disclosure Agreements, locally run and managed
- eITPID: approval of IT Project Initiation Documents and IT Project Proposal Documents, shared Group tool

Each application is based on the same technology and was developed internally by Technip IT's Software Engineering Service (SES).

New Demat applications can be developed to suit the needs of the Group, Regions or Entities. The availability of deployment kits allows fast and efficient development for new requirements.

Access & Information

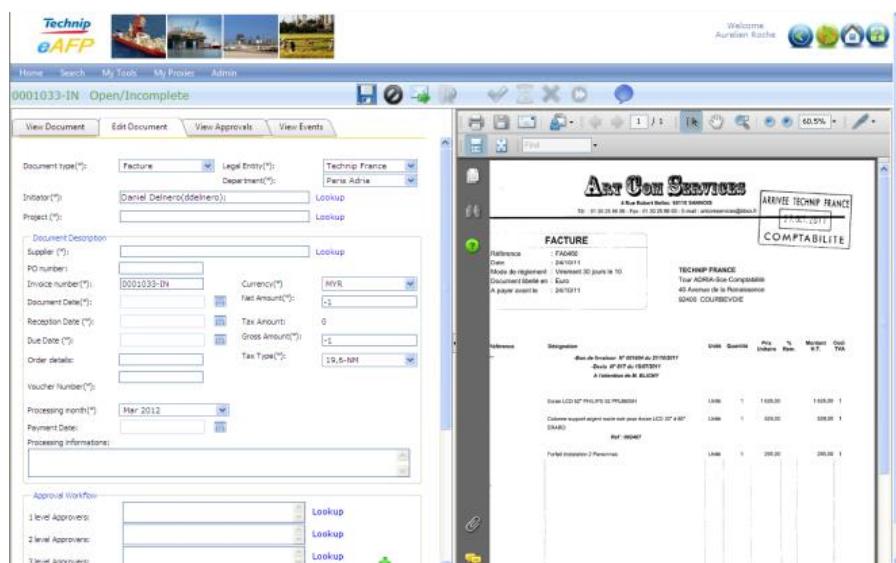
The Demat website and links to Demat applications for Group-wide use are available on the intranet:

Technip Group > IT Services > Group Applications > eAFE etc

Links to local Demat applications can be found on local entity intranets.

Contacts

- Virginie Chastel
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vchastel@technip.com
- Jean-Luc Brunat
IT Domain Owner
jlbrunat@technip.com
- Business contacts for each application can be found on the Demat website.



The screenshot shows the eAFP application interface. On the left, there is a form for entering document details such as Document type (Facture), Legal Entity (Technip France), Department (Paris Adm), Initiator (Daniel Delinero), Project, and various financial fields like PO number, Invoice number, and Tax Amount. On the right, a preview of the 'FACTURE' document is displayed, showing the header information for 'Art Com Services' and 'TECHNIP FRANCE'. The document details include the date (24/01/11), reference (0001033-IN), and a table of items with unit, quantity, price, and total columns. At the bottom, there is a note: 'Supplier invoice uploaded in eAFP. Details will be entered and approvers added before dispatch.'

HFM is the Group standard Financial Consolidation Application

Services

Oracle Hyperion Financial Management (HFM) is a centralized financial consolidation and reporting application. It contains the Group rules for consolidation, ensuring data quality and reliability. It provides Finance the ability to rapidly consolidate and report financial results and meet global regulatory requirements. *HFM is part of the FUN (Financial Unified Network) tools integrated within Hyperion.*

The objective of the consolidation process is to publish the financial statements (Balance Sheet, Profit & Loss, Cash Flow and financial notes) of more than 220 Group entities, as a single economic entity. This aids in the preparation of: Interim Financial Reports, Reference Documents, releases to French Regulation Authorities, press releases and communication to investors.

Functions

- Data entry module:
 - Using Smartview which allows data to be easily exported to Excel for data upload (and Office suite for reporting and pivots)
 - Using web-based form
 - Contains multiple controls (including currency conversion) validating data as it is entered
- Consolidation module translates, neutralize inter-company transactions and consolidates for reporting and analysis
- Reporting module provides:
 - inter-company transactions to be matched correctly
 - Balance Sheet, P&L and additional financial information
- Integrated audit trail for security
- Workflow features allows users to complete tasks ready for next approver

Key Benefits

- Secured and transparent data reduces internal control risk and cost of compliance
- Multiple data validation checks for data confidence & data quality
- Ability to be integrated with other Group systems, for data quality and reducing data double-handling

Contacts

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- Virginie Chastel
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jbrunat@technip.com

Access & Information

The intranet connects you to both the HFM application and FUN website for more information:
Technip Group > IT Services > Group Applications > HFM/FUN

Together



Together is a Group tool for forecasts, budgets and actuals reporting and consolidation

Services

Together provides consolidated financial management reporting for financial controllers.

- Together is used by Regions and Corporate for:
 - Financial reporting of forecasts, actuals and budgets (+ 3 year budget outlook)
 - Consolidation of other non-statutory indicators (including Order Intake and Backlog)
 - Tax rate simulation and re-evaluation
 - Creation of Regional budget for financial reports (P&L figures by Business Unit, Segment, Region)
 - Creation of 3 year budget outlook

The tool is also used to manage: project revenue over the LOP (Life of Project).

Information from Together is often used in BORs (Business Operating Reports) for Regions and Corporate.

Application is part of the FUN (Financial Unified Network) tools integrated within Technip's Oracle Hyperion systems.

Key Benefits

A centralized, common and secure system brings:

- Flexible reporting capable of providing different perspectives for Regions and Corporate management, based on the same data including:
 - By organization (segment, business unit etc)
 - By project attributes (scope of work, technology field, billing type, country of execution etc)
- Standardised processes and centralized data give a reliable "enterprise" vision of financial reporting
- Shorter reporting life cycle as data is available more quickly



Functions

The major functionalities of Together application are:

- Upload of scenario data using Smartview/Excel or web-based form based on official company currency rates
- Scheduled, automated elimination of inter-company data by Business Unit, Region and Segment at all sub-consolidation levels
- Currencies translation (US Dollars, Euros, Pounds, Brazilian Real) by scenario, year and account. This includes exchange rate impact on a multi-year basis
- Reporting of financial information associated with Order Intake, LOP, P&L and others available by:
 - By organization (segment, business unit etc)
 - By project attributes (scope of work, technology field, billing type, country of execution etc)
- Workflow features allowing users to complete tasks ready for next approver

Access & Information

The FUN website and links to FUN applications are available on the intranet:

Technip Group > IT Services >
Group Application > Financial Unified Network Access

Contacts

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- Jean-Luc Brunat
IT Owner
jlbrunat@technip.com

The screenshot displays the Oracle Hyperion Together application interface. It consists of two main windows side-by-side.

Left Window (1.2 - Projects - 1.2.01 - OrderIntake New Contracts Forecast - Subsea):

- Page: Technip UK Ltd (Aberdeen)
- REGION A SUBSEA
- Input Entity
- K Year to Date
- Euro currency
- Go

	2014							
	Jun							
	Initial External Revenue	Initial Intra Region Revenue	Initial inter region Revenue	Initial Financial Revenue	Initial Gross Margin	Total Initial Order Intake Man Hours	Initial OI Man Hours External	Initial OI Man Hours Intra Region
TPSUB100								
TPSUB101		0	0	0				
TPSUB102	0	0	0	0	0			
KSBUDTARGET	0	0	0	0	0			

Right Window (1.3 - P&L - 1.3.2 - P&L by Quarter - Subsea):

- Page: Technip UK Ltd (Aberdeen)
- Euro currency
- K Year to Date
- Input Entity
- REGION A SUBSEA
- Go

	YearTotal	Mar	Jun	Sep	Dec
Internal Cost of Sales	ICP_SEAMEC				
	ICP_DRAPS				
	ICP_FLEXIBLES AFTER SALES				
	ICP_OED				
	ICP_PED				
	ICP_R&D SUBSEA OTHERS				
	ICP_NORTH SEA CANADA CORPORATE				
	ICP_ASSET INTEGRITY MANAGEMENT				
	ICP_TECHNIP MARINE OPERATIONS SERVICE				
	ICP_AMERICA MARINE OPERATIONS SERVICE				

Together input forms

peRISKope Risk Management



**peRISKope Risk Management
for more effective, centralized,
risk management**



Services

peRISKope Risk Management application is the Group tool which supports Technip's Risk Management processes. The application helps Technip's Project / Proposal Managers and Project / Operating Center / Regional / Corporate Risk Managers in the:

- Identification, evaluation and mitigation of risks
- Management of risks and opportunities related to assets
- Consolidation and analysis of identified risk information and Key Performance Indicators (KPIs).

As data is stored centrally, reporting and analysis can be undertaken by stakeholders from projects up to the Executive Committee.

Functions

peRISKope Risk Management application brings the following functionality to Technip:

- Record and manage risk and opportunity registers
- Monitoring of risk and opportunity assessments
- Follow-up of risks and mitigation action tracking
- Ability to retain historical information from tenders and projects
- Automatic synchronization with MDM* for key master data (Projects, Operational organization, Clients etc)
- Business Intelligence reporting and analysis through OBIEE

Key Benefits:

- Enhanced Risk Management process on proposals, projects, assets (Fleet and Manufacturing Units) and CAPEX to ensure all risks are identified and well managed
- Allows data sharing and collaboration in a secured environment
- Ability to track risk issues and actions for timely follow-up
- Improved data quality and less double data entry through automated MDM* integration
- Centralization reduces man-hours in consolidation and reporting of risk
- Improved reporting capacity through use of Oracle Business Intelligence Enterprise Edition (OBIEE)

+ Add			
ID	Executive Description	Category Level 1	Category Level 2
R-0003	Unknown debris on route reliance on previous surveys of the area	Technology	First of a Kind Product
R-0004	Client supplied pipe historical quality issues	Assets	Planning
R-0005	Client supplied Umbilical potential delays on delivery	Procurement	Sourcing

Risk / Opportunity / Action Registers

Access & Information

The application can be accessed via the intranet:

- Technip Group > IT Services > Group Applications > **peRISKope**

User Guides and more information (FAQs including how to request access) can also be found on the peRISKope website on the intranet:

- Technip Group > IT Services > **peRISKope**

Contacts

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Project Risk Dashboard



Risk Register



Mitigating Action Dashboard



Risk Potential Evaluation Table (RPET)

Reporting and analysis via OBIEE

*Master Data Management. See [Technip Group > IT Services](#) page for more information.

Key Selection Factors:

Corporate Business Domain

Business Support Functions Systems

Application	Page	108 Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Synergi	101						
Client Satisfaction Survey	103						
TOPSET	104						
Knowledge Management - Lessons Learned System	105						
The Link	107						
Bwise Internal Control	109						
SpendMap	111						
PeopleSearch	113						
TICA	115						
TSNT Navy Tracking	116						
Traveler Security Booklet	117						
Legal Suite	118						

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)			
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Key Selection Factors:

Corporate Business Domain

Business Support Functions Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Contract Benchmark	119		€				
Hermes	120		€				
aha Innovation	121		€				
Group Mobility Tool	122		€				
ePMR	123		€				
Diapason	124		€€€				
eGuarantee	126		€€€				
OCR	127		€€				
DEMAT (e-series)	129		€				
Hyperion Financial Management	131		€				
Together	132		€				
peRISKope	134		€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Corporate Domain

Data Management



Master Data Management



MDM: building One Technip language & providing a trustworthy source of Technip reference data



Services

Master Data Management is building One Technip language, making available a common vocabulary, reinforcing the harmonization and sharing of information through the Group, and strongly encouraging alignment between segments, regions, entities and business functions.

MDM as a single source of basic business data provides a trustworthy single source of data for Master data information, and an effective governance for each Master data. Master data managed within Technip includes:

- **Projects:** Group Projects, Local Projects
- **Third Parties:** Clients, Suppliers, Industrial Groups, Commercial Consultants, Processing Agents, Banks
- **Persons:** Employees and contractors
- **Codifications & Assets:**
 - Material Codes, Work Codes, Indirect Purchasing Codes
 - Vessels & ROV
 - Countries, currencies, languages
- **Group Structure:** Regions, Business Units, Legal Entities, Operating Centers, Segment, Business Activities, Technology Fields

Key Benefits

- Allows an unified, reliable, common understanding throughout the Group
- Improves efficiency of decision making, reporting accuracy and consistency thanks to improved data quality
- Simplifies projects, suppliers, clients, employees and organization tracking within the Group
- Improves efficiency with which new entities can be integrated and new tools can be deployed.
- Improves efficiency of meeting Technip legal obligations on financial reporting

What is Master Data ?

Master data is an enterprise's important, **shared**, **reference** data (not transactional data such as invoices).

It rarely changes and forms a common understanding throughout the Group, **improving data quality**.



Enter information ONCE in MDM for automatic propagation to other applications !



Functions

Technip MDM is powered by EBX software which allows the creation and management of Master Data and their associated attributes.

Entitled roles in the business (Data Administrators) create master data in the MDM. Master data can then be viewed, exported or distributed from the MDM application to another system.

Technically the system allows :

- Creation, storage and management of master data
- Electronic approval workflow
- Export to CSV & XML
- Automatic synchronization and distribution with other systems
- Secure access to master data based on role
- Business Intelligence reports for master data administrators to analyze master data

MDM is integrated with key Group applications such as:

- ePMR (eProject Management Reporting) and Synergi
- ERPs: such as Geos, Jeevan and Oasis
- Procurement applications: EPC Business, K2P and Cost-it

New and existing applications are also being integrated with the MDM.

Different Master Data in the MDM application

Governance

- Each Master Data is **owned** and **governed** by the Business.
- MDM GOPS 24304 presents the MDM and defines its role within Technip.
- Dedicated Group Instructions define the rules for each master data including: governance, data lifecycle and access policy.

Access & Information

- All Technip employees can access the MDM and public master data by default.
- The intranet connects you to both the application and the public MDM website for more information: Technip Group > IT Services > Group Applications > MDM

Contacts



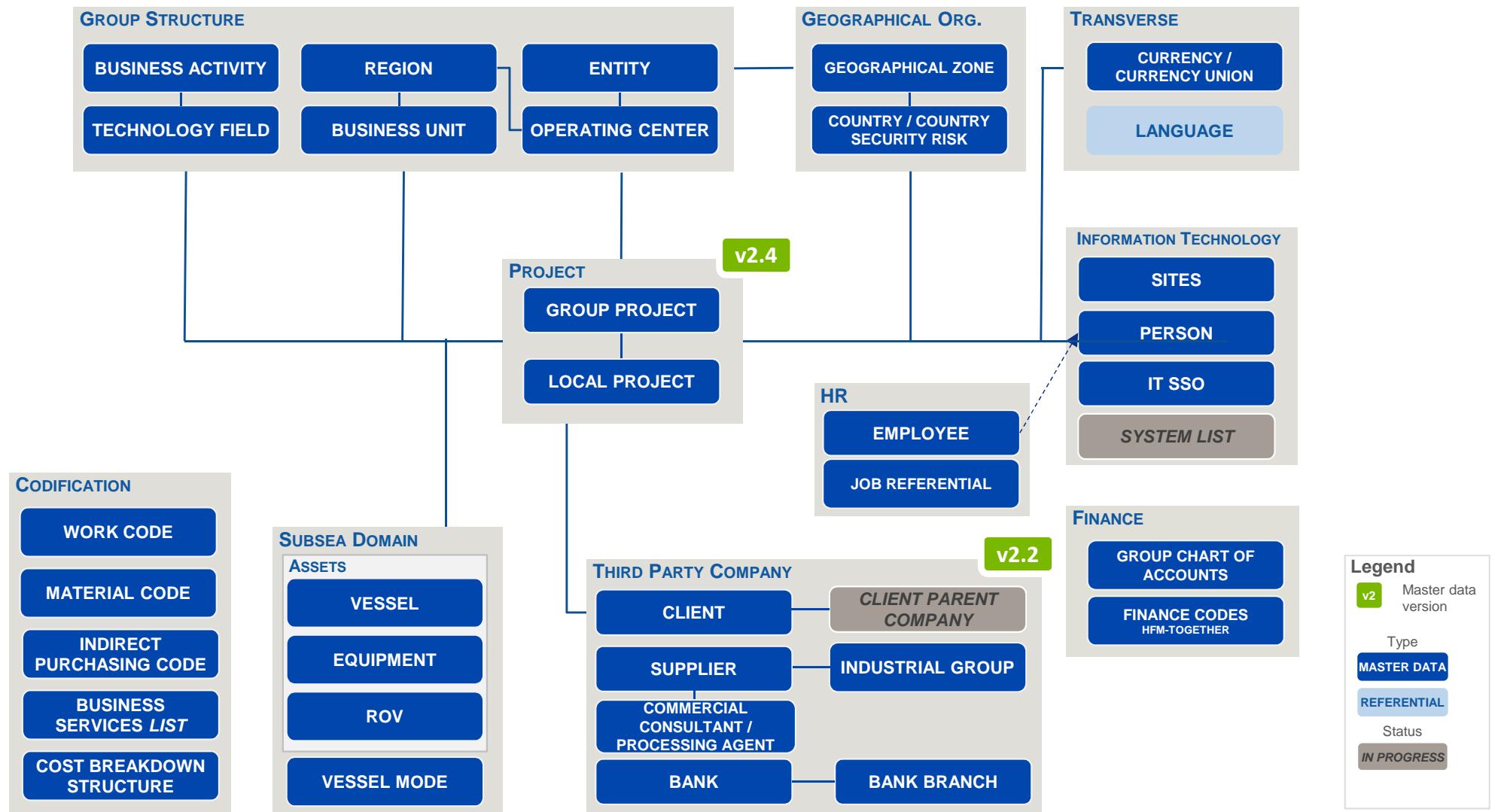
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- Jean-Luc Brunat
VP, Group IT Data Management
jbrunat@Technip.com

Local Projects

Local Projects																																																														
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MDM Data Map

May 2015



ERP BI Reporting



ERP BI Reporting provides a current and historical view of financial, project and time & labor information in OBIEE based on ERP data

Services

ERP BI Reporting offers a consolidated view and flexible BI reporting on information from Technip's Enterprise Resource Planning (ERP) systems, such as Geos and Jeevan. Relevant data from each ERP is consolidated centrally allowing:

- Regions and Entities with detailed analysis of data such as Balance Sheets, Profit & Loss and project information
- Corporate departments to have a high level view of indicators across different ERPs and entities

Systematic integration with ERPs and Master Data Management (MDM*) ensures data quality and efficiency, reducing double entry and manual consolidation. ERP BI Reporting is based on OBIEE (Oracle Business Intelligence Enterprise Edition) technology for its dashboards and reports.

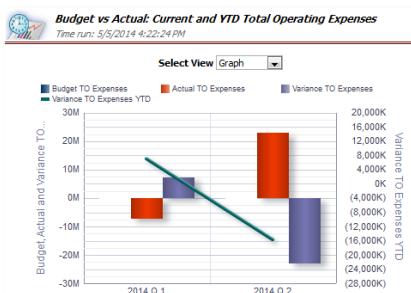
Available Modules

■ Financial Analytics:

- General Ledger including HFM Balance Sheet
- Accounts Receivables (AR)
- Accounts Payables (AP)
- Profitability including HFM P&L Reporting

■ Project Analytics:

- Project Management & Project Executive
- Time & Attendance
- i Expenses
- Fixed asset
- New modules like procurement, HR will be released soon



Select a date range that corresponds to a week in the year:
Between 04/28/2014 12:00:00 AM and 05/04/2014 12:00:00 AM

Status: Select Value... Operating Unit Organization: TECHNIP NORGE Employee Organization: Select Value... Cost Center Name: Select Value... Supervisor Name: Select Value... Employee: Select Value...

Fiscal Year: 2014 Fiscal Period: Select Value... Apply Reset □



Key Benefits

- Provides visibility to control the health and the performance of projects
- Provides information about distributed hours and timecard management
- Provides insight into key financial areas of performance, including balance sheet, cash flow, expenses, budget vs actual, working capital, liquidity
- Ability to manage cash flows and ensure timely supplier payments
- Improved ability to analyse receivables, including credit risk and payments

Deployment timeline

- Already used in Region A, B, APAC, NA, NSC
- Deployment in progress by module and entities during 2015 and 2016



Access & Information

Both the application and website can be accessed via the intranet:

Technip Group > IT Services >
Group Applications > ERP BI Reporting



Contacts

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* Refer to the IT Services page for more information about MDM

Key Selection Factors:

Corporate Business Domain

Data Management Systems

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
Master Data Management	139		€€				
ERP BI Reporting	142		€€				

LEGENDS

Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

Corporate Domain

ERP – Enterprise Resource
Planning



GEOS World

GEOS™

GEOS is an integrated business information tool, enabling business processes and supporting business decisions

Services

GEOS connects key areas of Finance, Procurement, HR and Project Cost Controls, improving efficiency through out the business in one ERP (Enterprise Resource Planning) system. In practice it helps us manage these activities:

- Procurement: how we buy and pay for goods and services
- Finance: how we manage and track finances
- Project Controls: the Project Cost Control module (PCC) provides a unique set of project cost control functionalities for 3 business segments, leveraging on the benefits of an integrated ERP system. Live reporting of commitments (procurement) and actuals (Finance, costs associated to HR people) are leveraged to execute forecasting of cash flow and resources.
- HR: how we pay our staff and manage HR records

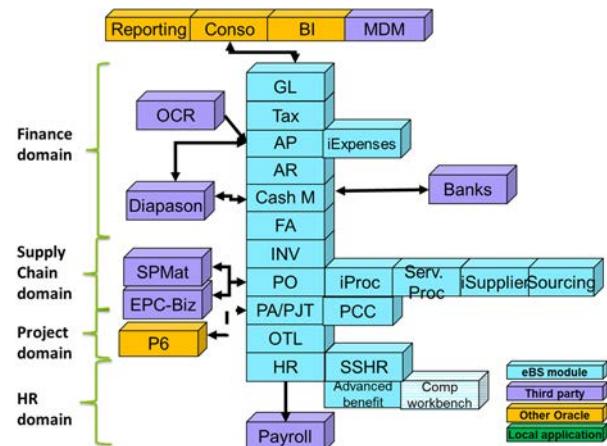
Improvements and expansions to the GEOS solution continue reaching new Technip entities each year.

Key Benefits

- An integrated ERP solution brings top class business processes to back-office operations
- Strong reporting capabilities improve control and transparency
- Robust system and lean processes ready for growth of the business
- Interfaces & integration points with Technip major tools: MDM, BI, InforEAM, SPMAT & EPC (2015), Vertex (2015)



GEOS logon



GEOS Applicative map

Organization

- The GEOS community (end-users, project members, support workers) are located in several countries throughout the world, working with common processes, methods and tools
- All activities are managed through a solid governance structure, involving representatives from all regions, as well as Corporate Finance and IT

Entities using GEOS 12.1

- Australia, Singapore, Genesis (London and Perth), Canada (St John's and Calgary), United Kingdom (Ducos & Milton Keynes), US

Entities using GEOS 12.2 (live since 2015)

- Norway, United Kingdom (Aberdeen), Malaysia.

This new version of GEOS (GEOS World) is aligned with GOPS, with the objective to harmonize processes, facilitate financial integration among entities and have all entities in a single instance.

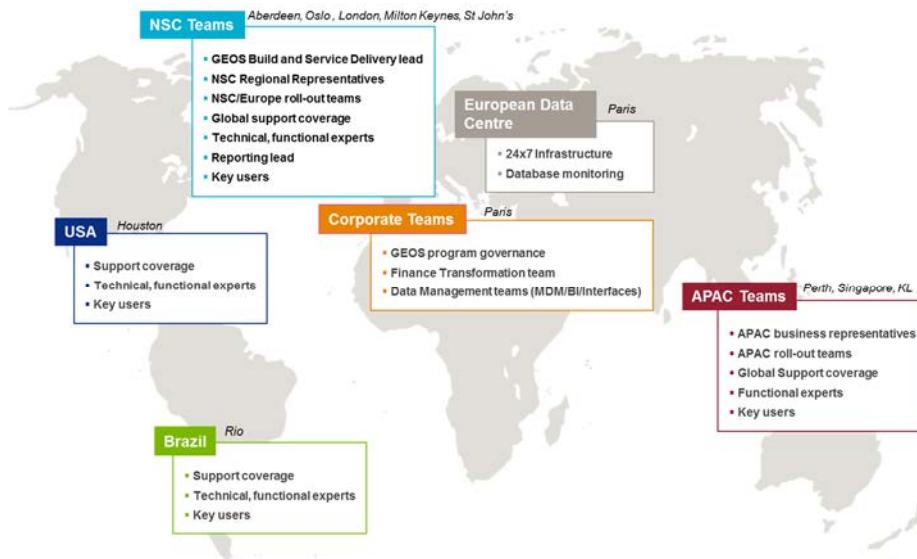
GEOS 12.2 roadmap

2016 : USA

2016-2017 : rest of entities running with 12.1

GEOS Support is also expanding to ensure sufficient coverage. The goal is to be able to support those users over 3 time zones, as the GEOS footprint grows.

In 2013 the GEOS team were awarded the Jacques Franquelin Special Award: One Technip. The award was received in the 'Trusting the Team' category, in recognition of the GEOS dedication, team spirit and team trust which was a key success factor of the first GEOS implementation and setup of the program.



Access & Information

The intranet connects you to both the application and the public GEOS website for more information:

Technip Group > IT Services >
Group Applications > GEOS

Contacts

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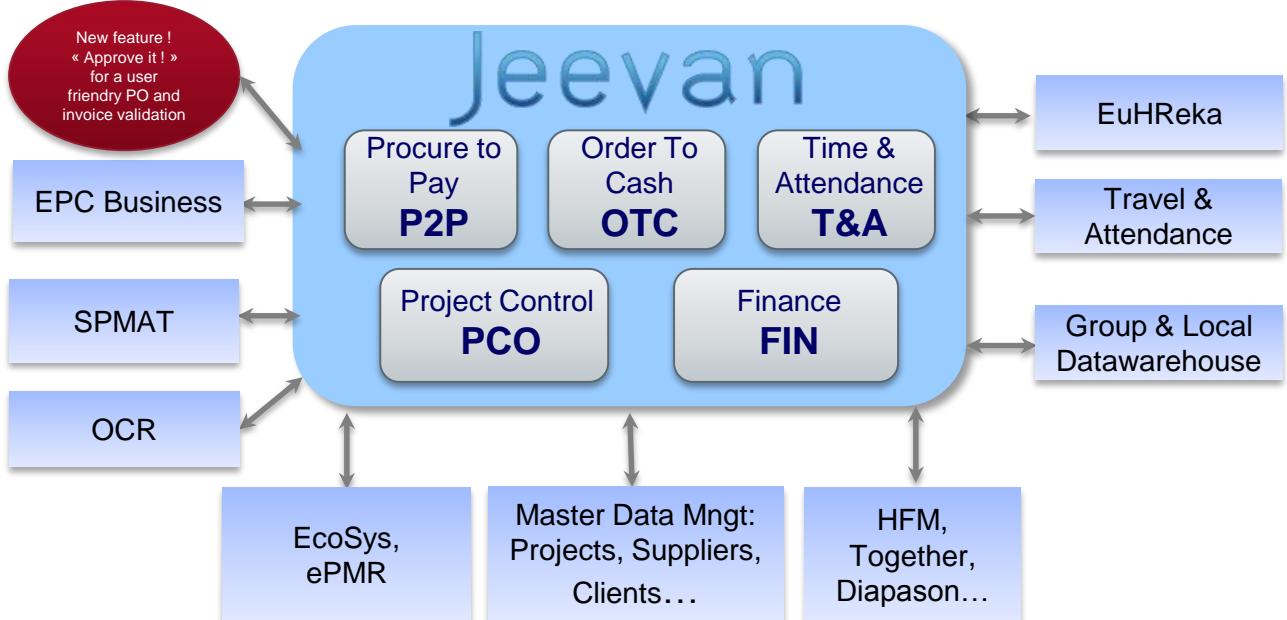
Jeevan is an ERP (Enterprise Resource Planning) system made of a set of integrated applications improving all back office functions and processes for Technip business

Jeevan covers the following areas / process:

- Procurement: Procure to Pay (P2P), from purchase order to supplier payment
- Sales processes: Order to Cash (OTC), from client contract to cash collection
- Finance processes: accounting and revenue / margin recognition (RMR)
- Project Controls: cost tracking and management
- Time & Attendance: Time booking

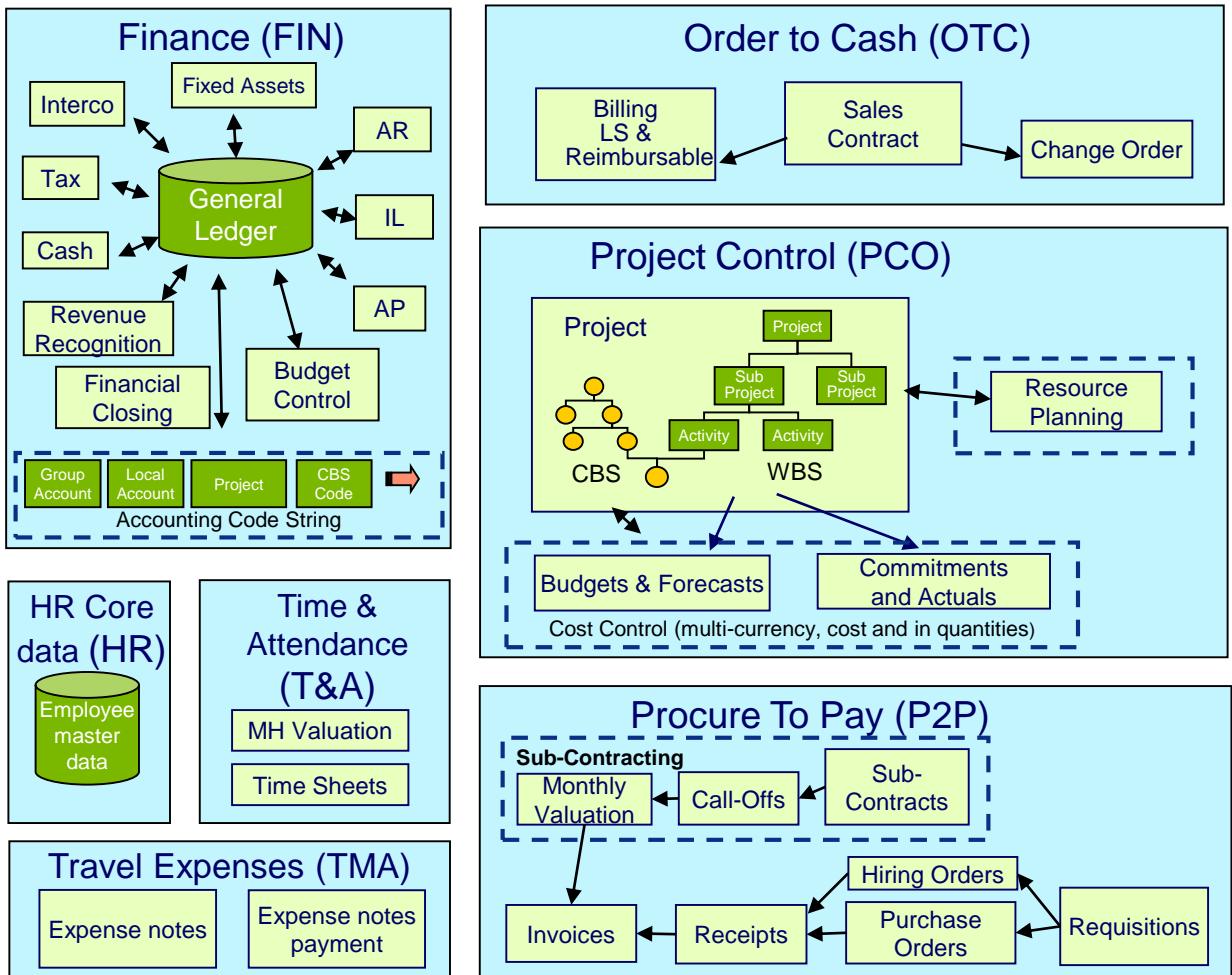
Key Benefits:

- An integrated ERP solution brings top class business processes to back-office operations
- Strong reporting capabilities improving control and transparency
- Robust system and lean processes ready for growth of the business
- Fully integrated with some key applications used within Technip:



take it further.

Jeevan high level functional architecture



Entities already using Jeevan

- **2012**: Technip Benelux BV.
- **2013**: Technip France.
- **2014**: Algier, Angoflex, COFRI, Korea, Offshore Wind, Crecel, Abu Dhabi, Doha, Saudi Arabia, Eletech, MEPI, 4 Joint Ventures, YAMAL, TPNET.
- **2015**: Technip India, Technip Italy, Technip Corporate Services, Kuwait, FORSYS Subsea France, Technip Zimmer.

Entities to be implemented with Jeevan

- **Early 2016**: small entities linked to Technip Italy.

Contacts

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For internal use only

Key Selection Factors:

Corporate Business Domain
ERPs

Application	Page	Implementation Factors				Others	
		Complexity	Cost	Time	Training	Focus	Support
GEOS	146		€€€				
Jeevan	148		€€€				

LEGENDS

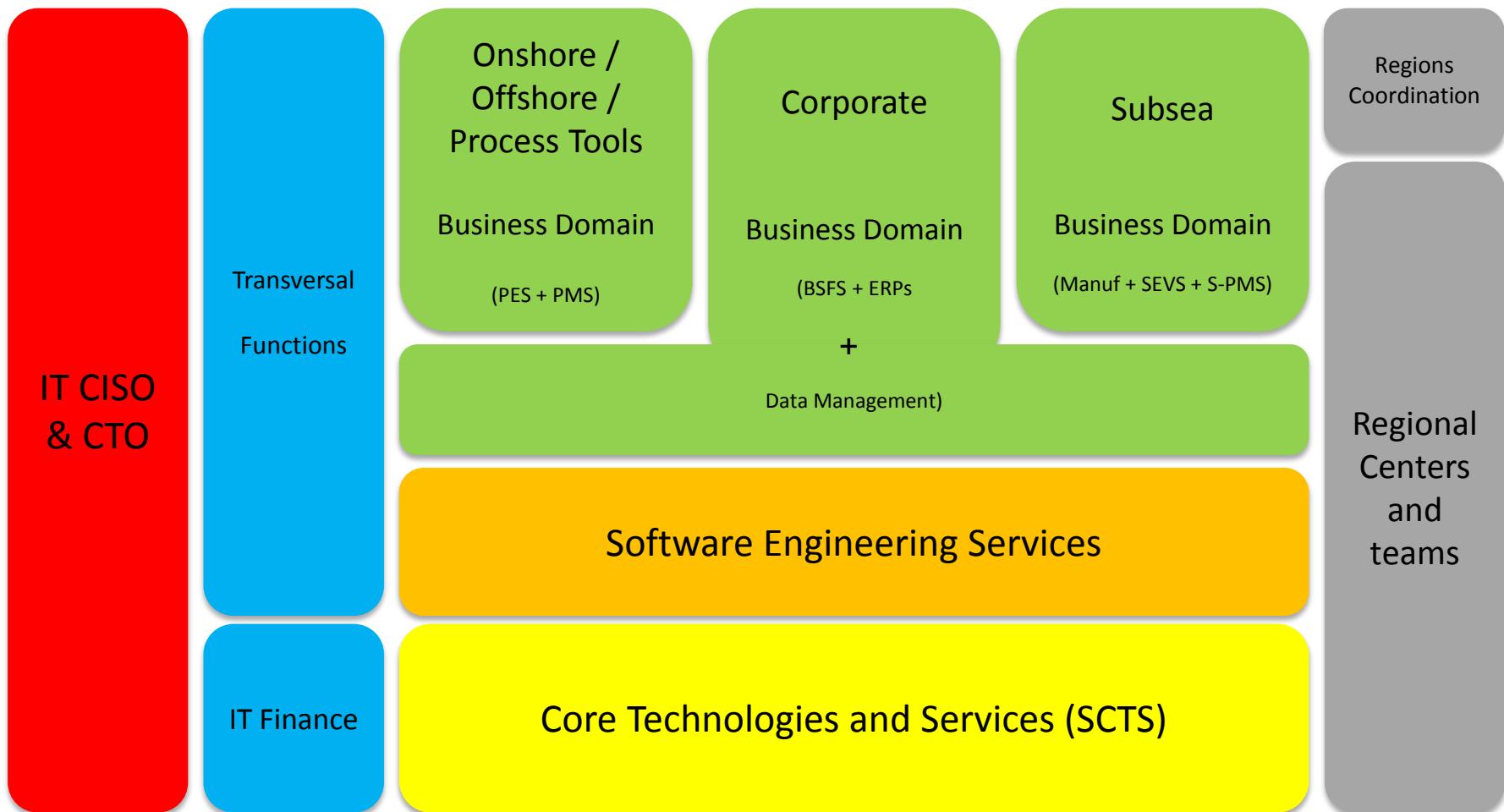
Implementation Factors	Low	Med.	High
Complexity (Easy, Average, Difficult)			
Cost (Cheap, Medium, Expensive)	€	€€	€€€
Time required (Short, Average, Long)			
Training effort (Easy, Average Difficult)			

Other Information	
Application Focus:	
Project:	
Back Office:	
Support localization :	
Global:	
Local:	

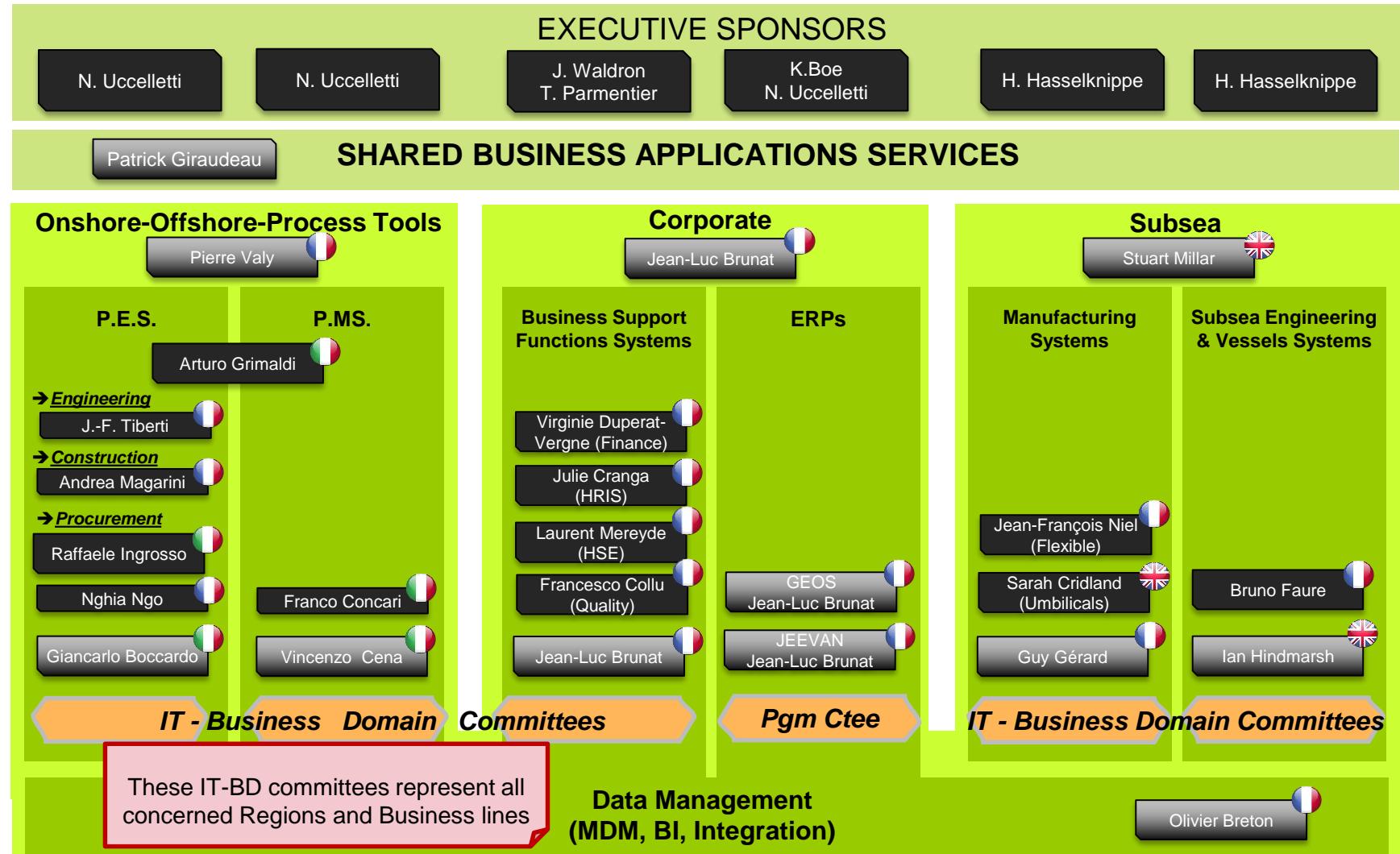
IT alignment with business strategies

- 1. IT Functional Organization**
- 2. Business Domains Organization**
- 3. Business Domains Missions**

1. IT Functional Structure



2. Business Domains Organization



Xxxx Yyyyyy

Business Domain Owner

Xxxx Yyyyyy

IT Business Domain Owner

3. Business Domains Missions

5 areas to manage

- Inventory initiatives and demand clarification of needs (PDD, IT PID), score, rank
- Propose system strategy , application roadmaps, action plans and budgets
- Manage applications lifecycle, including decommissioning
- Manage dependencies between systems/projects within the BD and with other BDs
- Ensure Business reps engagement into the projects
- Promote and diffuse existing apps for all profitable usages to maximize benefits

IT Portfolios
(projects & apps)

- Define target solutions for existing portfolio to be progressively migrated to
- Define and implement all possible actions driving to an existing apps portfolio simplification

Apps
Convergence

- Manage project plan, delivery, budget and change management , with business
- Optimize reuse of existing solutions / technologies
- Implement and enforce IT project methodology

IT Projects

- Organize Data Governance within the BD under coordination of Data Management dept
- Take business ownership of Master Data Management for all objects related to the BD

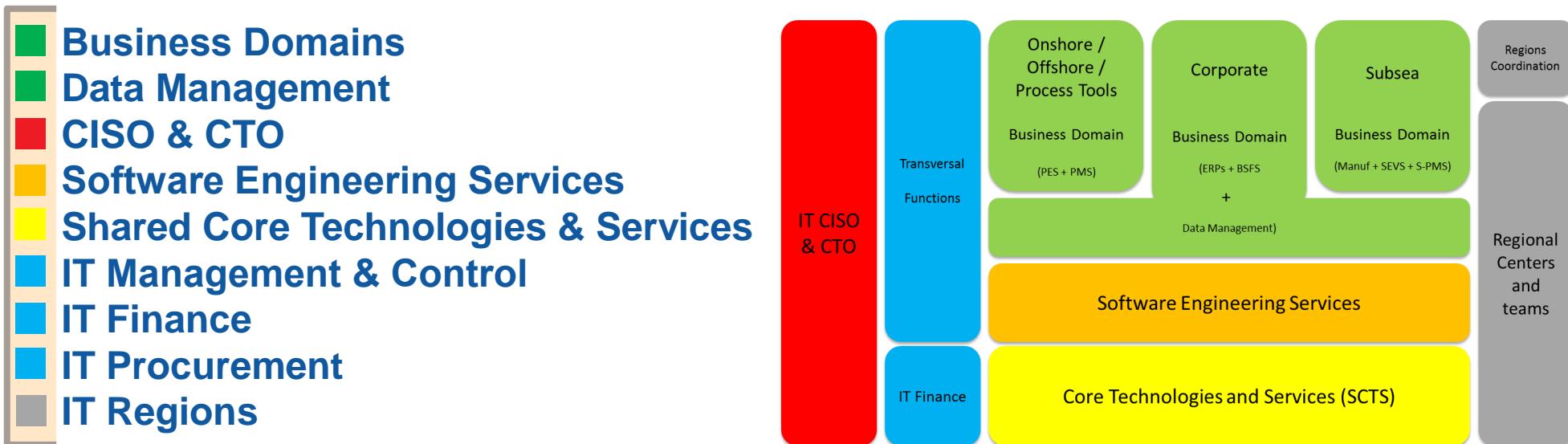
Master Data

- Ensure smooth operations for each application of the portfolio, in link with SCTS
- Build and run user support, versioning and enhancement management, facilitate training
- Help biz owners of the applications to carry animation of its evolution

Apps
Run/Operation



All IT Missions



BDs' Missions

5 areas to manage

- Inventory initiatives and demand clarification of needs (PDD, IT PID), score, rank
 - Propose system strategy , application roadmaps, action plans and budgets
 - Manage applications lifecycle, including decommissioning
 - Manage dependencies between systems/projects within the BD and with other BDs
 - Ensure Business reps engagement into the projects
 - Promote and diffuse existing apps for all profitable usages to maximize benefits
-
- Define target solutions for existing portfolio to be progressively migrated to
 - Define and implement all possible actions driving to an existing apps portfolio simplification
-
- Manage project plan, delivery, budget and change management , with business
 - Optimize reuse of existing solutions / technologies
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- Ensure smooth operations for each application of the portfolio, in link with SCTS
 - Build and run user support, versioning and enhancement management, facilitate training
 - Help biz owners of the applications to carry animation of its evolution

IT Portfolios
(projects & apps)

Apps
Convergence

IT Projects

Master Data

Apps
Run/Operation



Data Management (DM) Missions

5 areas to manage

- Define Data Management strategy and establish the Data governance with Biz and BDs
 - Define technical & functional DM roadmap based on Biz, Regions, BDs and SCTS inputs
 - Ensure BDs & Region Projects and Applications compliance with Data Management strategy
-
- Define the Master Data objects and their attributes, acc.to biz needs and priorities
 - Promote and manage MDM referential and make it available to users / systems
-
- Enable mutualized exchange of data between systems
 - Define technical integration architecture and standards
 - Enforce data security access and promote identity management solution
-
- Manage Data repository in link with M&C, BDs, Regions and SCTS
 - Provide solution to Biz, BDs & Regions to access, share and use data for reporting / analysis
 - Make user-friendly and reliable the reporting on data from multi-domain / -region / -apps
-
- Provide project services for applications integration and B.I., with client BDs & Regions
 - Optimize reuse of existing solutions / technologies and promote standards
 - Provide best practice, support to Regions for local development teams
 - Ensure smooth operations of Data Management tools & applications, in link with SCTS
 - Provide user support material, versioning and enhancement management and facilitate training
 - Help improving Biz processes efficiency through data quality indicators and promotion

Data
Governance

Master Data
Management

Data
Integration

Reporting
& B.I.

Data
Management
Services

CISO Team Missions

3 areas to manage

- Collect the needs about IT security and inputs from other security instances
 - Prepare the IT security strategy & standards and have them validated by the ITMC
 - Organize and manage the relationship with Corporate Safety & Security department
 - Relate with the business to define IT roles and missions within the Business Continuity Management
-
- Organize IT security projects according to ITMC objectives with all key success factors
 - Define the solutions and make them validated by the ITMC
 - Drive these projects in full transparency with clients (Regions, BDs, Business Projects)
 - Help the clients during the implementations of the solutions across the Group
 - Involve clients in the projects governance
 - Report carefully progress, issues, risks, decisions needed,...
 - Liaise and align permanently with the Operational Security Team
-
- Manage the technological intelligence on IT security topics
 - Build and manage a security intelligence network collecting all possible information about risks and security events
 - Propose innovations to the ITMC
 - Liaise and align permanently with M&C organization for risks and compliance issues
 - Ensure that security guidance is provided to third-parties and ensure compliance with security requirements and instructions.
 - Improve security awareness and instill a "risk-aware" culture within the Group

Strategy

IT Security
Projects

Expertise &
Guidance

CTO Team Missions

3 areas to manage

- Collect the needs about IT Technology and inputs from other Technology instances
- Define the Information Technology vision and strategy based on multi year plan and have them validated by the ITMC
- Define Information Technology Standards
- Participate to governance and actions with Digital Technology stakeholders community

Strategy

- Lead the Governance in charge of stimulating and organizing technical innovation
- Coordinate all necessary IT stakeholders with innovative initiatives using technologies
- Maintain awareness of the market innovations and propose pilots to governance bodies
- Propose all possible synergies in the technological area creating value for the Group
- Permanently propose reliable and cost efficient innovation
- Report carefully progress, issues, risks, decisions needed,...
- Liaise and align permanently with the IT technical Architecture and Operation Teams

Technology Innovation

- Manage the technological intelligence on IT Technology topics
- Propose innovations to the ITMC
- Help the clients during the implementations of Technological solutions across the Group
- Liaise and align permanently with M&C organization for risks and compliance issues
- Animate community of IT innovation and initiatives stakeholders

Expertise & Guidance



SES Missions

3 areas to manage

- Be Captive center to optimize IT SSO capacity planning of IT System support, Project Support and Software Engineering force
- Support in resource hiring for IT SSO both internal full time and external contractors to deliver service from offshore
- Host all possible competences needed by three Segments, Technology & Security services, other IT SSO functions & regions

Offshoring

- Leverage local vendors to absorb additional work load and niche competency for the group owning the service delivery (cost & risk)
- Ensure balance of SES costs between expenses and revenues charged to IT projects/SSO entities for appropriate Profit & Loss

Deliver Service

- Implement process lifecycle based on project category (complexity, budget, criticality)
- Enforce all relevant means to maintain critical development knowledge (know how) in-house and improve quality of service within the group
- Sustain offshore service by capitalizing on the competency, expanding capacity and competency by developing internal resource
- Keep a certification level fitting with the Group needs (currently CMMI3)

Sustainability

SCTS Missions

3 areas to manage

- Ensure smooth operations for global Data Centers, networks and collaboration tools
 - Coordinate all actions involving other Data Centers and local operations
 - Optimize that all components of an IT solution to be rolled-out into IT production environment, are authorized and compliant with technical requirements
 - Design and implement services as agreed with the clients for an optimized cost
 - Support all proposed services in a best-of-class monitored and reported manner
 - Apply and enforce application of all rules about security and safety in the IT area
 - Maximize the scope of global Infra. & Techno. Services through the whole Group
-
- Liaise and align permanently with CTO team
 - Design the technical architecture for all clients requests (BDs, biz projects, SES, Regions,...) in agreement and consistency with production industrialization standards
 - Define in a consultative way all necessary technical standards and technologies including office environments.
 - Lead the implementation of standards solutions according to a shared roadmap
 - Advise the Business Domains and all other stakeholders about technical architecture
-
- Define the solutions, check their compliance and make them validate by the ITMC
 - Organize related group projects with all possible success factors
 - Drive these projects in full transparency with clients (Regions, BDs, Biz Projects)
 - Help the clients during the implementations of the solutions across the Group
 - Report carefully progress, issues, risks, decisions needed,...

Tech. ressource
Operations

Technical
Architecture

Group
Technological
Projects



Management & Control Missions 1/2

6 areas to manage

- Ensure the SSO global consistency in term of Governance, Organization and IS overall Infrastructure frameworks.
- Build and coordinate communities of experts coming from the whole Group to set up recommendations for the IT Management Committee that will define technological choices and standards

- Ensure the compliance of our standards and technical solutions with international standards (ISO, CoBit...)
- Ensure coordination, coherence, alignment, improvement and integration between the different services provided thanks to the definition, enforcement and control of common operational processes, methods, tools and standards
- Ensure the global consistency of Enterprise Architecture (Functional and Technical) and Standards

- Synchronize with Corporate Quality initiatives and guidelines, translate the Group Quality strategy into IT Quality Plan and lead IT Quality initiatives.
- Define common methods, processes and tools and ensure the proper implementation of operational Quality throughout the IT organization
- Ensure the transversal support within SSO to implement SLAs and consistent KPIs which demonstrate the capacity and quality of provided services
- Measure and report the users satisfaction and perceived Quality of Services delivered.
- Provide ITSM components (CMDB, processes implementation,...)

Governance
& Organization

Enterprise
Architecture
& Standards

Quality
Process
& Methods

Management & Control Missions 2/2

6 areas to manage

- Ensure that IT risks are identified and that the action plans, audits and controls required to mitigate those risks are implemented
- Ensure that the IT function operates in accordance with the Group's requirements in terms of Audit, Control, Quality, Risk management and Compliance, in close cooperation with IT Finance

Risk, Audit,
Control &
Compliance

- Measure, consolidate and communicate IT performance
- Build and diffuse reports and dashboards for all audiences and purposes
- Manage all possible ways of communication within IT organization and towards clients

IT Reporting &
Communication

- Contribute in defining the global target IT Organization
- Enforce management skills & competences to ensure alignment with transformation needs
- Ensure talent development of specific IT staff populations and of future leaders (IT SSO Academy,...)
- Develop and implement all necessary processes and tools to ensure an optimized management of the IT staff (consistent appraisal and objectives definition, succession plans, development plans,...)
- Encourage and coordinate multi-sourcing approach to fill IT positions (recruitment, mobility,...)
- Promote information, team building & sense of belonging within the IT community
- Ensure coordination and interface with Corporate and Regional/Local HR functions

IT Team
Development &
Transformation



IT Finance Missions

2 areas to manage

- Ensure IT financial operations are efficiently recorded and managed with timely analysis
 - Control and challenge IT costs and optimize created value
 - Ensure common practice and data integrity across regions/BUs for IT finance area
 - Manage all statutory aspects of TPNet
 - Manage all recharging aspects for IT costs within the Technip Group
-
- Ensure compliance with applicable laws and regulations applied to the IT activities
 - Ensure compliance with Group Principles and Standards
 - Define, promote & implement IT Group specific standards and templates in Finance area

IT Finance and
Cost Controlling

Compliance to
Statutory & Group
Guidelines

IT Procurement Missions

4 areas to manage

- Establish IT procurement strategy based on Business and IT SSO needs
- Identify areas of risks (single sourcing, specific expertise...) to mitigate them
- Identify future needs to prepare inquiries and ensure smooth procurement execution
- Ensure Corporate Legal department validation for all relevant compliance issues

- Negotiate new contracts and renewal of existing ones for optimized conditions
- Ensure dispute are resolved in protecting Technip interests
- Define relevant metrics for cost distribution (user, licenses, tokens...)
- Calculate the appropriate cost distribution of group contracts across entities
- Track the main applications usages and act jointly with IT business owners to optimize their usage

- Define the list of « Strategic » Vendors based on Technip's business evolution
- Ensure strong relationship with major/strategic vendors and including periodical performance reviews
- Set-up periodical reviews involving major stakeholders
- Stimulate improvements of the services provided

- Establish up-to-date consistent procurement processes in line with GOPS
- Drive ITT/RFP from initial inquiry to contract execution and payments
- Maintain updated information for all stakeholders about available services and conditions
- Ensure coordination of actions across the Group (IT procurement community)

IT Procurement
Strategy

Contract
Management

Vendor
Management

IT Procurement
Processes



Regions' Missions

5 areas to manage

- Establish the IT Strategy and Governance for the region
- Identify critical risks and implement relevant controls
- Implement adequate organization in terms of staffing & sourcing

- Ensure Region's integration in Group IT's tools and processes:
 - Ensure compliance with all standards
 - Participate in Global Projects and Initiatives
 - Respect and promote common practices
 - Encourage usage of relevant Group applications and liaise with BDs

- Advise and guide the business on any IT, digital initiatives or other IT related topics
- Organize close relationship and communication with regional clients
- Manage Business demand and translate it into IT specifications (e.g. PPD, PID, PPM)
- Report performance and results on a Balanced Scorecard base
- Implement and follow up Service Level Agreements

- Ensure the run performance and the support efficiency of existing regional and Group systems in alignment with SCTS operational process
- Implement & promote best-practices in terms of IT quality and security

- Optimize the cost of IT in the region and promote the value which IT offers the region:
 - ROI on all projects
 - Aggressively challenge costs
 - Improve sourcing strategy
 - Permanently investigate for cost synergies and economies of scale

Regional IT
Strategy

Alignment
with
IT Group

Client
Management

IT Operations

IT Costs &
Value
Optimization



IT Applications Catalogue

February 2016

- Release #7.0 -



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