



indra

OIL&GAS

OFF-SHORE LOGISTICS

Indra's consulting services for logistics and transport management
of supplies and personnel in offshore platforms

indracompany.com



TRANSPORT STRATEGY

A KEY ELEMENT IN THE OPERATION OF OFF-SHORE LOGISTICS



Characteristics

The increase in the number of platforms and the distance they are, together with a greater need to increase projects profitability, make transport a strategic part for Oil&Gas

companies. Due to the characteristics of offshore operative, the transportation of both for personnel and general cargo, as well as the inverse logistics.

Definition and management of offshore platform logistics

For those Oil&Gas companies that carry out offshore activities, it is **essential to ensure the service of people and materials transport to the different platforms in order to guarantee the proper functioning** of them, regardless of their location.

Due to the **characteristics of offshore operative**, which presents lots of logistic challenges, such as limiting infrastructures or space restrictions, **transport management**

and optimization imply an additional complexity. Keeping in mind the increase in the number of platforms and their physical distance, this complexity increases considerably.

An **appropriate transport strategy demands a global and comprehensive approach, capable of guaranteeing the activity, optimizing the used means** to ensure the optimal development of the resources.

In order to give response to these challenges with the knowledge of a **wide experience in logistics, transport and Oil&Gas sector**, Indra is able to support its clients in the definition and management of their supply and distribution strategy for their offshore operative.

Comprehensive solutions to define and manage the offshore logistics able to optimize the resource usage and efficient running

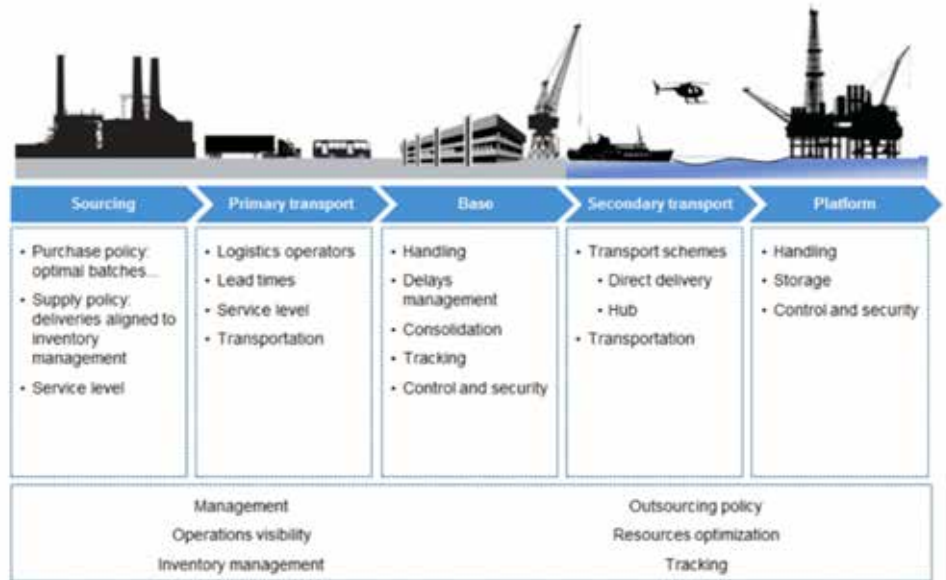
Indra's consulting services for Off-shore logistics

The Oil&Gas sector and, especially, offshore facilities face multiple logistic challenges throughout **the whole supply chain**.

Thanks to its broad experience in experience in Oil&gas industry and projects in transport, air traffic and logistics and in projects of transport and logistics, Indra is able to offer solutions throughout the whole supply chain both for **personnel and general cargo, as well as the inverse logistics**.

We design the appropriate logistic model tailored to the actual needs of the off-shore operations, including: strategy, policies, organization, resources, infrastructure and facilities, equipment, processes, procedures... throughout the whole supply value chain. Consequently it is a must to develop a comprehensive analysis of all the involved aspects.

The offered solutions **cover from the supply of suppliers' products to the delivery at the final destination and the inverse flows** from the platform.



Model for the definition of the transport strategy

In order to define correctly the distribution strategy and its planification, it is necessary to deal with five different dimensions:

- **Company strategy** (level of outsourcing, goals...)
- **Demand** (typology and evolution of demand)

- **Processes and organization** (personnel structure, operational and security processes...)
- **Infrastructure and equipment** (regulation fulfillment, transport solutions...)
- **Systems** (IT solutions, databases...)

Multidisciplinary teams can better ensure a comprehensive analysis and proper solutions definition to achieve the optimization of all the resources involved (personnel, fleet, load equipment, infrastructures,...).



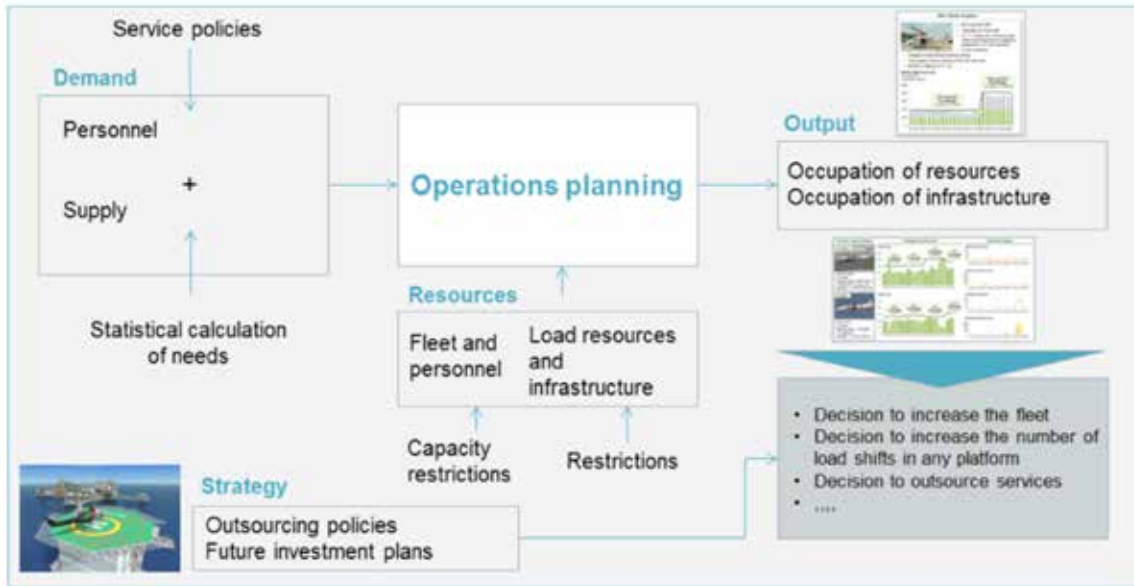
During the operational planning it is necessary to established an overlook for the long and short term.

In the long term, based on statistical calculation and company's service policies, the logistics demand is forecasted. This is the base of the rest of operations. For a correct analysis of the required resources, in

order to fulfill the demand, Indra combines different tools (benchmark of solutions, sector ratios, analysis of transport mix, ...). The optimal calculation of the resources should be complemented by an thorough analysis of the rest of the operative: study of the organization, flows simulation, analysis of the current processes, audit of the used systems... in order to detect

improvement points, optimize the utilization of resources and accelerate the operative.

By means of the analysis of the gap between demand and existing resources, and considering the transport policies of the company, it is defined the transport plan in the long term.

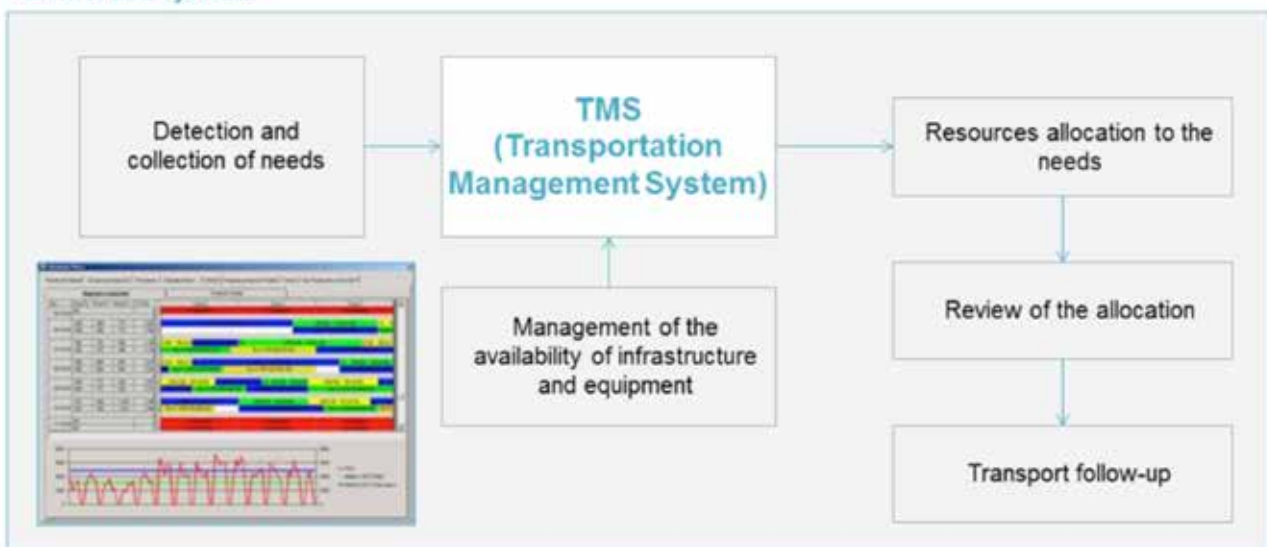


In the short term, and based in the best practices of the sector, Indra supports its clients during the daily management of the infrastructure and equipment availability by means of a **transportation management system** appropriate to their needs that improves the resources allocation.

In order to develop a correct control of the operative, it is necessary a **comprehensive indicators system** that covers all the information needs of the organization: strategic (for the measurement of the performance of the

whole chain) and operational (for the detection of problems in the different links) in all the aspects of performance: volume, service and cost.

Control and systems



Benefits from a comprehensive logistics management system

Alignment of the logistics with the strategic business goals of the company

Ensure the continuity of operations

Maximum safety standards

Continuous improvement process

Guarantee the adequacy of infrastructure and resources

Optimization and best-usage of limited resources



InOil: Global experience

Indra has 1,500 professionals dedicated to the Oil & Gas sector and two Centers of Excellence (in Spain and Colombia) that perform product development and expert support in this industry.



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