



**FOCQUS**  
CORPORATE



**METERING  
CONSULTING  
SERVICES**



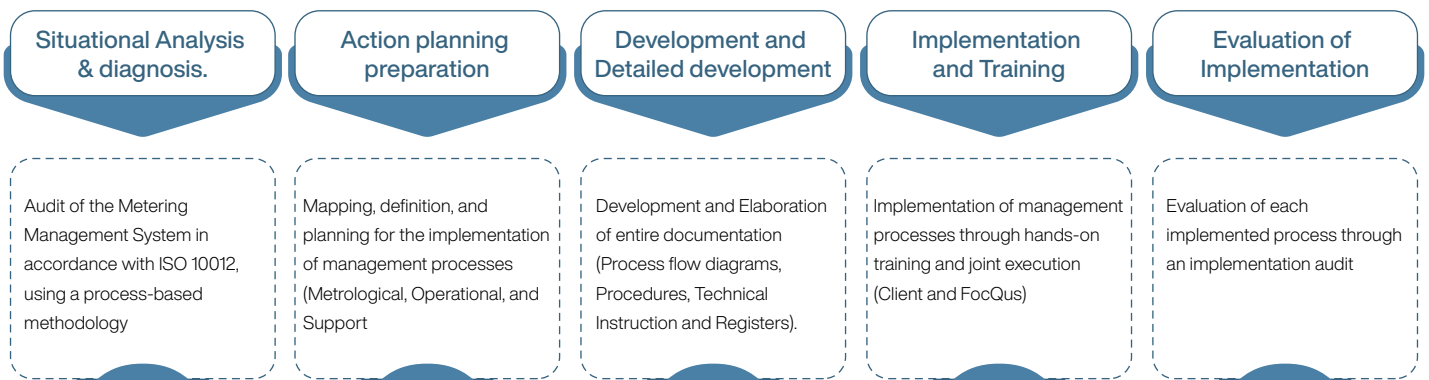
# METERING CONSULTING SERVICES

## Metering Management Implementation

Reducing Financial Exposure due to Measurement Errors  
Optimizing Operational Efficiency

We develop and implement Management Systems helping our clients to organize their internal processes to comply with specific measurement requirements and reducing the risk exposure to economic impacts due to measurement errors.

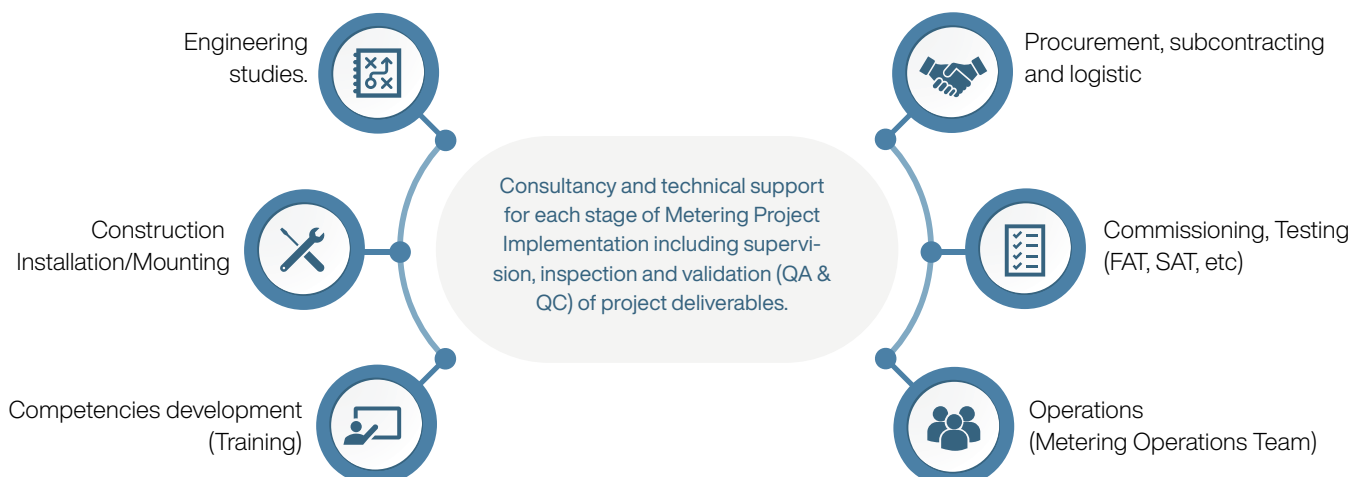
**Developing of Metering Management System based on ISO 10012 Standard:**  
Process Based Management.



## Metering Project Support

To start as a **METERING PROJECT** and to finalize as a **METERING PROJECT**

We supply specific Consulting and Execution Services for each implementation phase of new and retrofit Metering Projects avoiding deviations from required Metering Specifications.



# Operational Management

One responsible company for  
ALL INTEGRATED METERING ACTIVITIES

We define and run a skilled Metering Operation Team responsible to supervise and/or execute every single metering routine in order to obtain suitable levels of functional, metrological, execution and compliance performances.



## Asset Management

- Control of detailed database for equipment and calibration standards.
- Equipment lifetime record.
- Spare parts control.
- Equipment sealing control.
- Maintenance and calibration records.
- Planning for maintenance, calibration and fluid sampling.
- Metering Dossier control (operational documentation)



## Metrological Confirmation

- Execution of calibration/Proving and Dimensional inspection.
- Uncertainty calculations for process variables (P, T, D, Flow rates, mass and volume).
- Fluid properties calculation.
- Statistic control chart for uncertainties.
- Control of calibrations and fluid analysis from third part labs.
- Validation of flow computer calculations.
- Update of planning.



## Metering Routines

- Control of configuration changes of Flow Computers and Flowmeters.
- Flow computer reports analysis.
- Definition, monitoring and updating of operational condition envelopes.
- Elaboration and reporting of mis-measurements and re-calculation of volumes.
- Analysis and validation of fluid lab analysis report.
- Elaboration and reporting of mis-measurements and re-calculation of volumes.
- Monitoring of metering fails indicators as MTBF and TBF.



## Audits & Inspections

- Analysis and definition of internal and external metering requirements.
- Elaboration of inspection and audits planning (Scope, resources and Schedule) based on ISO 10012 and ISO 170125 standards.
- Execution of internal audits and inspections (On site).
- Control and reporting of audits results based on process indicators.
- Control of non-conformities and improvement actions.
- Attendance to external audits (certification and/or inspection by regulators bodies)

## Compliance Management

Reducing of Risk of Mis-Measurements and non-compliances,

We establish and execute audit and inspection programs based on international standards (ISO, API, AGA, etc) keeping all Metering processes in full conformity to internal and external measurement requirements.



### Manuals

Development of audit manuals and execution procedures based on the client's requirements and the ISO standards for measurement management systems.



### Programs

Development of the Compliance Audits Program for attending and/or keep certifications of management systems as ISO 10012 and ISO 17025.



### Execution

Execution of audits and inspections such as:  
System Acceptance (performance, compliance and certification).  
Investigative.  
Third Party.



### Improvement

Control of non-conformities and management of continuous improvement.



# Legal-Technical Support

Metering acknowledge for Legal Purposes

We supply legal consulting through our associated lawyers who have sound technical experience in hydrocarbon measurement applications.

## Acknowledge

Provision of legal and technical expertise for legal processes involving oil and gas measurements.

## Reputation

Industry recognized technical consultants supporting to legal processes conducted by lawyer staff.



## Dossiers

Elaboration of documentation related to technical and legal Dossiers to be used for supporting legal processes.

## Representation

Legal and technical consultants for representing of clients during trials and meetings.

## Our Numbers

Providing high value Metering Consulting

**COUNTRIES**, In two different continents (America and Asia).

06



**CLIENTS**, Large and Small onshore/offshore Companies.

25



**CONTRACTS** Successfully executed.

120



350



10500

**METERING AUDITS** performed.

Day-man of **CONSULTING** (along 15 YEARS) dedicated to improve measurement results.



[www.focqus.com](http://www.focqus.com)

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