

# OFFSITE PREFABRICATED SOLUTIONS BUILD WITH CONFIDENCE



**BUILDING, WATER  
& INFRASTRUCTURE**

# THE RELIABLE PARTNER ADDING VALUE TO YOUR PROJECTS!



15,000 tons of  
inventory to support  
critical deliveries



Complete project  
package  
solutions



Leveraging a global  
network of 15 offices  
& 7 logistics platforms



Certified to ISO 9001,  
ISO 14001 & ISO 45001



250 experienced  
professionals  
of 22 nationalities



Over 200+  
Blue-chip  
customers

**TROUVAY & CAUVIN**, founded in 1881 in le Havre (France), is a leading Global Piping Solutions Provider supplying piping, valves, structural steel, special piping material, instrumentation, equipment and offsite prefabricated solutions.

Our solutions are mostly designed for greenfield and brownfield projects in:

- Energy Sector
  - Oil & Gas (Upstream, Midstream & Downstream)
  - Low-carbon & Renewable Energy
- Construction, Water and Infrastructure
- Industrial (Chemical, Agri-food, Pharmaceutical...)
- Mining

At **TROUVAY & CAUVIN**, Channelling Energies is not just about supplying pipes, fittings, valves or offsite prefabricated solutions. Channelling Energies, to us, means bringing together the specialists and dedicated professionals with the motivation, experience and knowledge to meet your project needs and exceed your expectations to ensure the success of your project.

A real expertise, full range of value-added services and solutions make **TROUVAY & CAUVIN** the Material Supplier of Choice for your project.

**T&C**  
GROUP  
**TROUVAY  
& CAUVIN**  
Channelling all **energies**



# BUILDING, WATER AND INFRASTRUCTURE

Potable water supply, sewage and drainage network, fire fighting and HVAC systems are the most vital piping requirements in any infrastructure or building project.

Civil engineering and construction companies, local authorities, contractors and sub-contractors need a partner with extensive expertise, to provide reliable packages with the right products and services dedicated to their project.

**TROUVAY & CAUVIN** Group is a leading Piping Solutions provider able to provide a wide range of products and value-added services for any construction project. Additionally, our Offsite Prefabrication Division offers bespoke designs and prefabrication solutions to the most challenging projects. Today, **TROUVAY & CAUVIN** is a name to reckon with in the Building, Water and Infrastructure sector.



Residential and Commercial Building



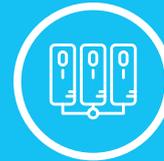
Healthcare Facility



Hospitality



Educational Institution and University



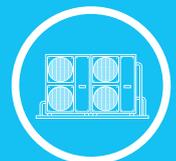
Data Centre



Airport



Metro and Other Mass Transit



District Heating and Cooling Plant



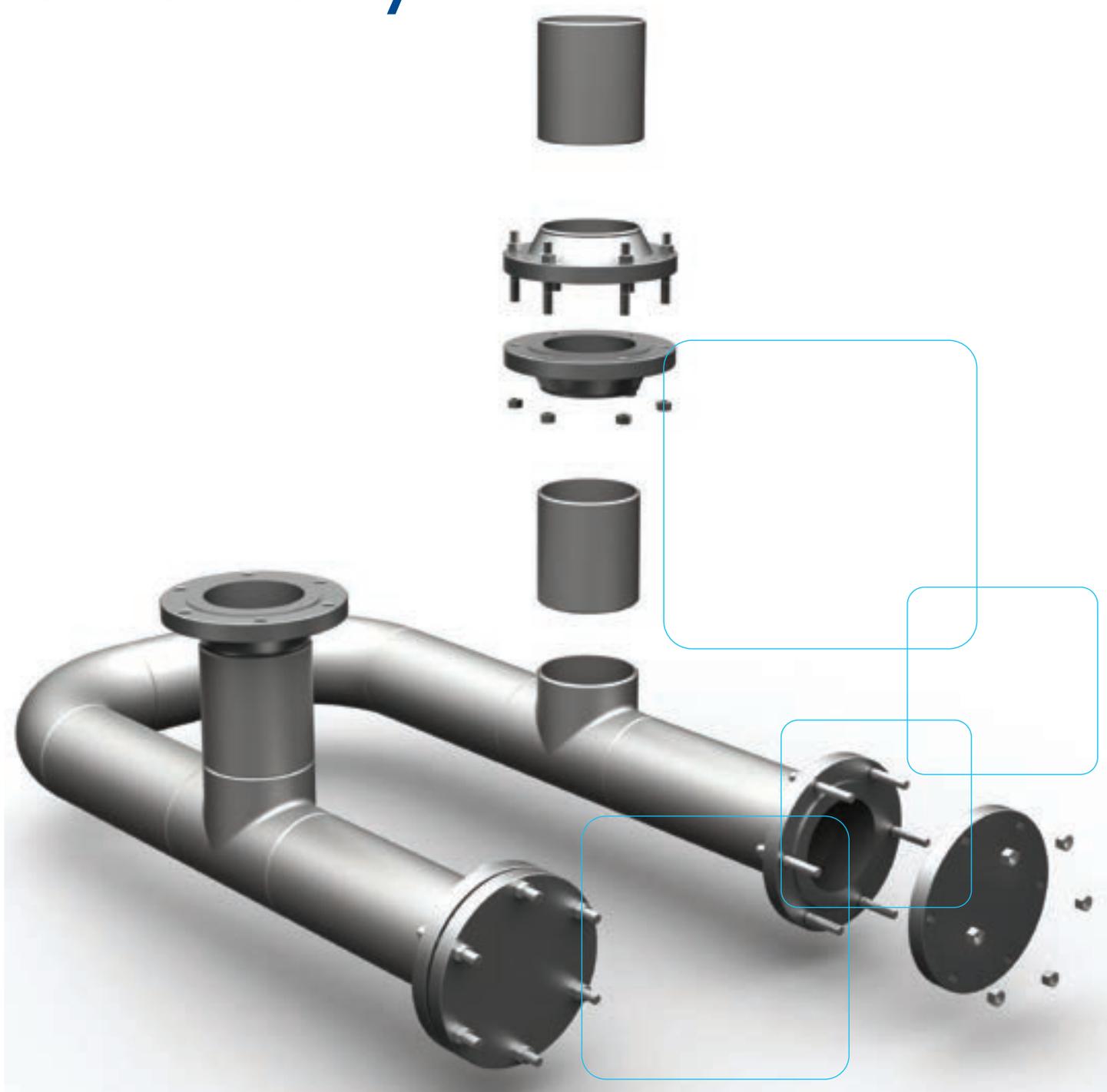
Water Treatment Plant



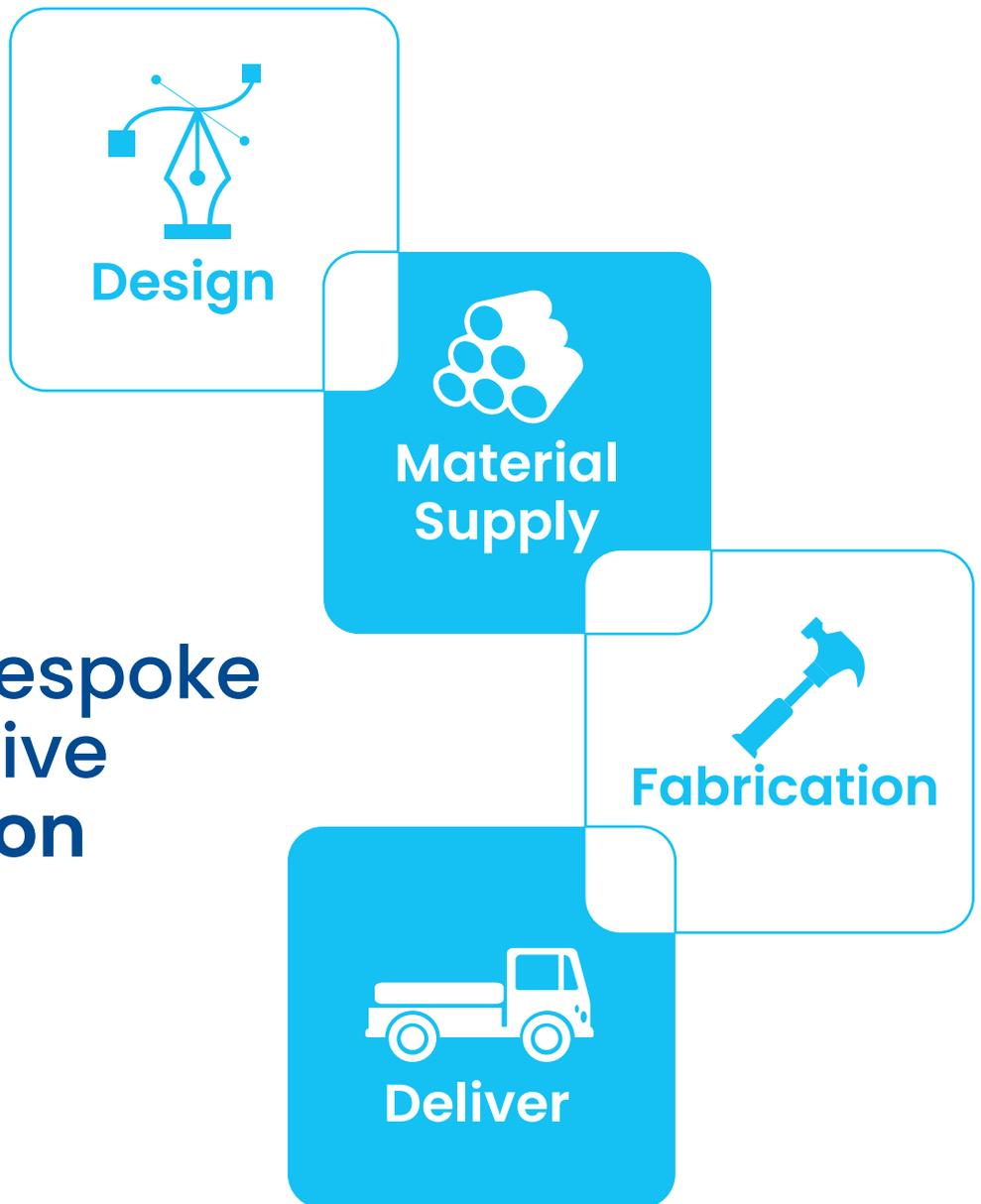
Infrastructure (tunnel, bridge)

The  
Solution!

## Unlocking the Power of Modularity!



# Delivering bespoke and innovative Prefabrication Solutions



The future of construction industry is witnessing a paradigm shift towards modern methods of construction.

**TROUVAY & CAUVIN** is contributing to this transformation with its range of **Offsite Prefabricated Solutions**.

From cost and time savings, increased predictability, improved asset management, schedule reductions, improved project quality, to environment friendliness, our range of **Offsite Prefabricated Solutions** offer Clients the best value proposition to install these solutions for their construction projects.

At **TROUVAY & CAUVIN**, we understand the importance of the design process and its criticality when implementing **Offsite Prefabricated Solutions**.

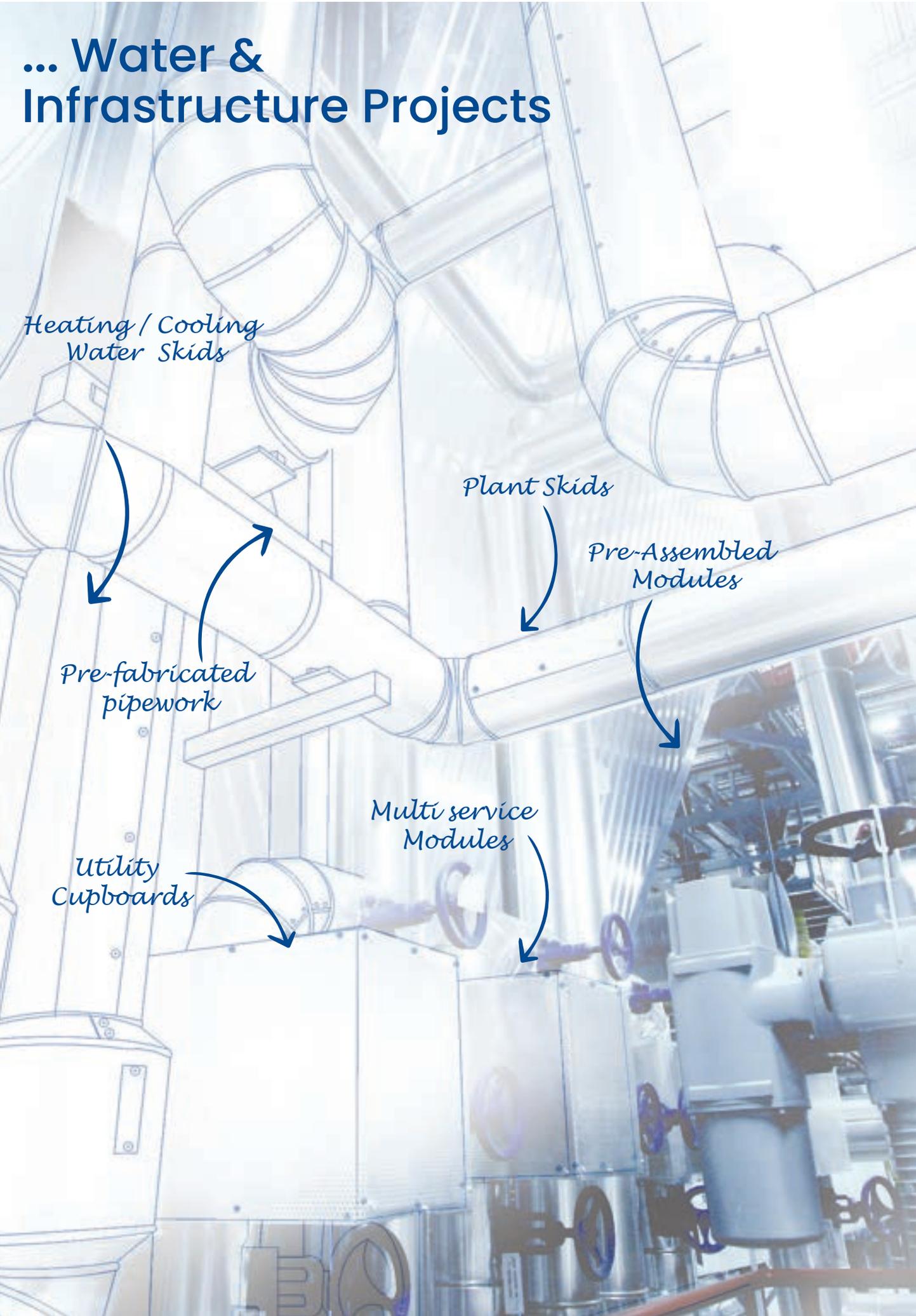
It is for this reason that we have a multi-disciplinary team of highly experienced and professional engineers, designers and consultants working together for the success of your project. By using highly advanced 3D modeling software, we provide project specific, accurate and workable solutions to a large variety of projects without making any compromises on the original design.

We offer **Offsite Prefabricated Solutions** from our highly specialized state-of-the-art facility in Jebel Ali - Dubai. From **single-service prefabricated elements** to multi-service units, we offer Customers' a wide range of products integrated into **Prefabricated Systems** using advanced engineering concepts, latest systems and materials, under factory-controlled conditions.

# Offsite Prefabricated Solutions for Building, ...

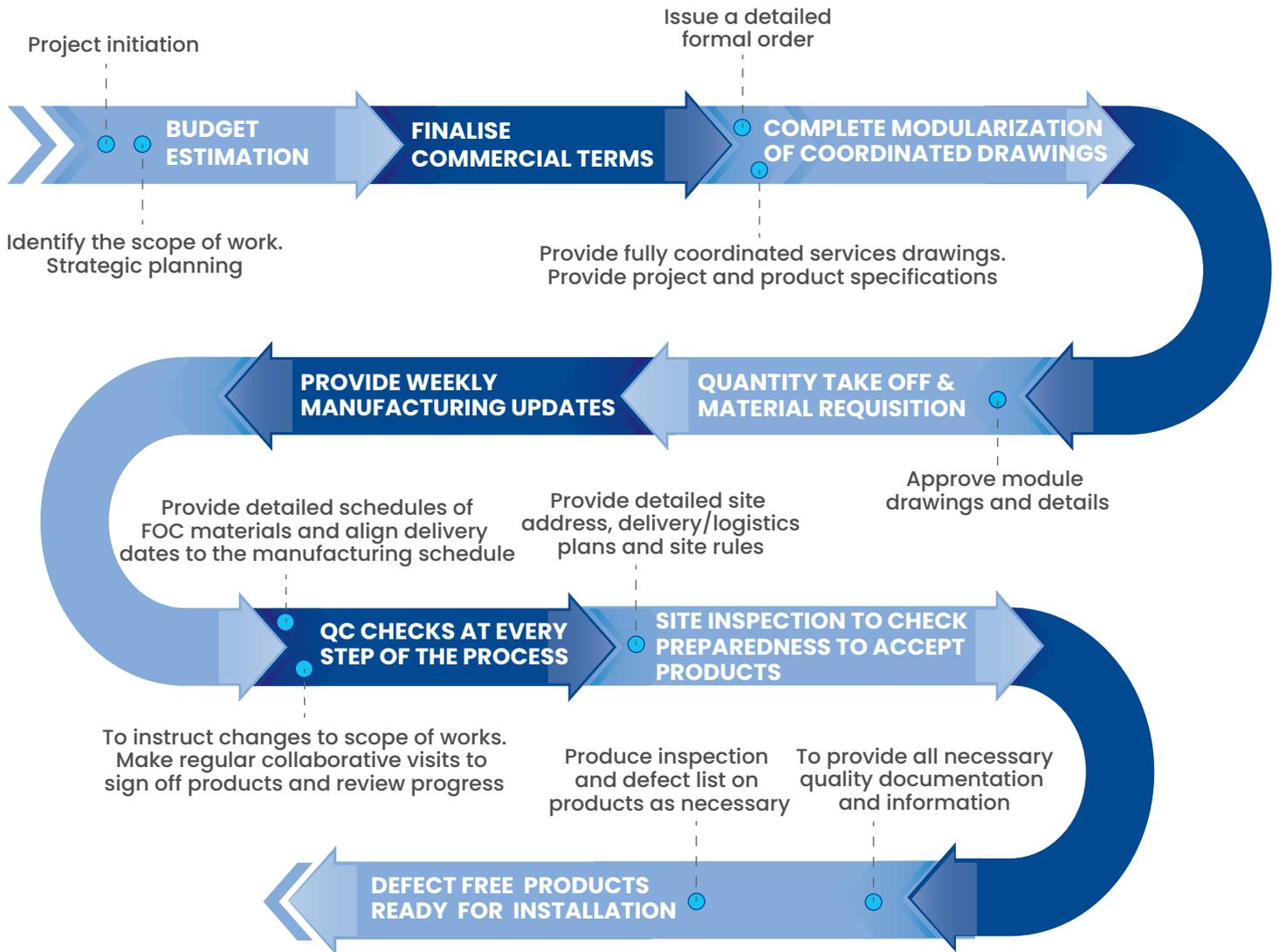


# ... Water & Infrastructure Projects



# The Process

## A fully coordinated process complimenting the basic design



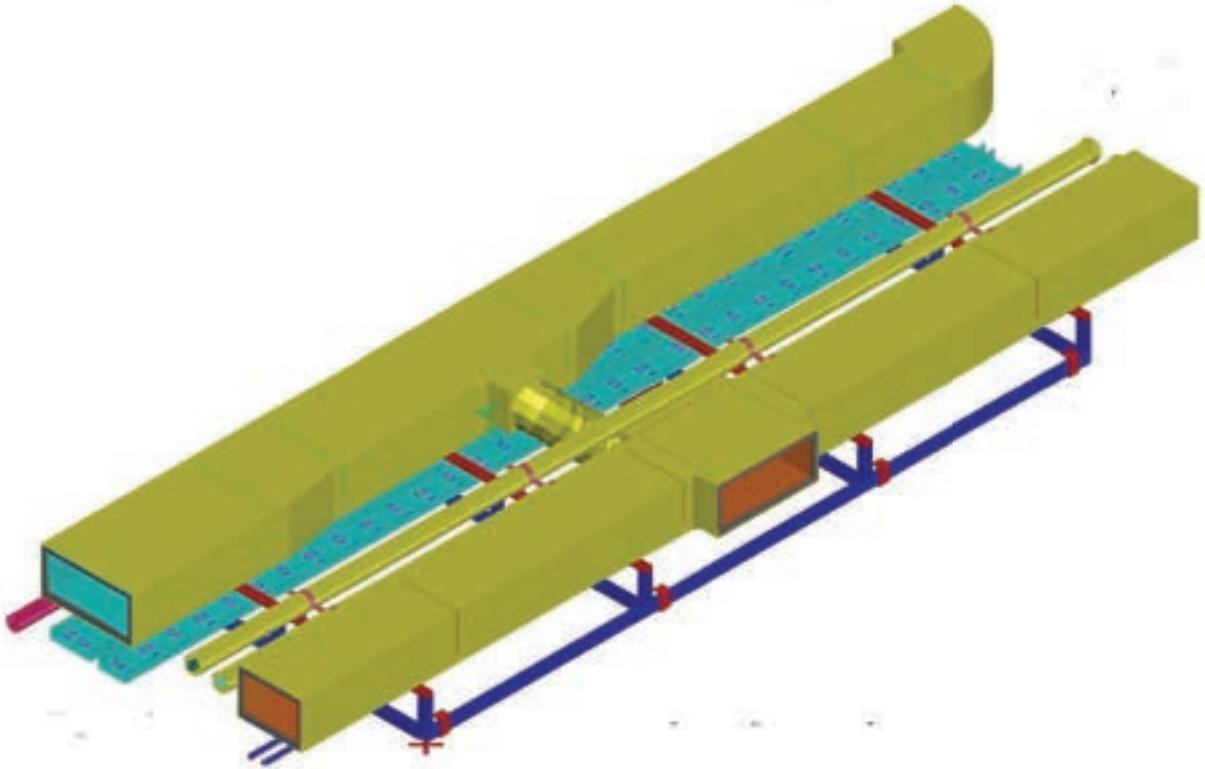
**Flexible  
Efficient  
Practical**

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# The Design

## BIM and Designing

All the crucial information for your project



We have a highly qualified, professional and cohesive prefabrication design team of designers, modelers and coordinators who make use of sophisticated procedures and software to develop all our prefabrication drawings in-house.

The prefab modules are generated with a special software and is then fully coordinated with our MEP shop drawing models. Our MEP modelers are well versed in all leading BIM and related software applications.

Apart from clash free BIM models, we also provide LOD 450 fabrication modeling, fabrication drawings, spool drawings, coordinated MEP installation drawings, scan to BIM as-built drawings and quantity take off service for material purchase.

We provide Mechanical 3D Modeling for:

- Heating and cooling systems
- Fire protection systems
- HVAC systems
- Fabrication drawings
- Spool drawings
- All types of MEP modules
- All types of MEP skids

**Specific  
Accurate  
Workable**

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# The Material Supply

## Piping Solutions you can count on!

**TROUVAY & CAUVIN** Group's long-standing relationships with the world's leading manufacturers, combined with our sourcing expertise, offer you access to the finest quality Piping materials, Valves, Fittings and Offsite Prefabricated Solutions.

Many of the world's leading contractors rely on **TROUVAY & CAUVIN** Group to deliver high-quality Piping Solutions for their building, water and infrastructure projects.

Not only does our Jebel Ali facility have triple certification (ISO 9001, ISO 14001, ISO 45001), but our long-standing relationships with major manufacturing partners, including V&M, Saint Gobain, Armstrong, Devatec, Cephas Valves and Victaulic, give **TROUVAY & CAUVIN** Group an edge that sets us apart from the competition.

We wouldn't be a real packager without our range of value-added services.

**TROUVAY & CAUVIN** Group provides a complete range of services that simplify your project requirements: wrapping, cutting, grooving, painting, sandblasting, assembly, valve actuation, commissioning and maintenance, are a small selection of what we offer.

## Our Product Range for Offsite Prefabricated Solutions

- Seamless & Welded Carbon Steel Pipes, Fittings and Flanges
- Ductile Iron Pipes, Fittings and Valves
- All types of Valves (Butterfly, Gate, Check, Ball, Air Valves...)
- Grooved Couplings
- FCU Link Hook-up
- Cast iron Pipes & Fittings
- Dual-contained Polymer Piping for hazardous chemicals
- Design, manufacturing & installation of corrosion-resistant Pipe Systems, Pumping Stations & Chambers, Manholes / Municipal Castings...
- Seamless & Welded Carbon Steel Pipes, Fittings with/without inside/outside coating
- Exotic Piping System including Duplex, Super Duplex and Inconel
- Humidifiers, Pressure & Temperature Controls, Steam Tracing Equipment, Steam Traps / Manifolds
- Slotted Channels
- Air conditioning Ducts
- Structural Steel
- Electrical Containment
- Pipe Hangers and Support
- Bolting

Unmatched  
scope of  
supply



# Our Capabilities... from design to ready-to-fit solutions

At TROUVAY & CAUVIN, we strive to provide customers with high quality, innovative, effective and time saving Offsite Prefabricated Solutions with capabilities and capacity to match:

## Single Service MEP Modules

- Pipe Spools
- Duct work
- Unit Modules
- Packages

## Multi Service MEP Modules

- Horizontal ceiling Modules with pipes, cable trays....
- Vertical ceiling Modules with pipes, HVAC systems, cable trays...
- Services riser shaft Modules
- Plant room Modules
- Skids

# Advanced design-led technology and equipment

The background image shows a vast industrial yard filled with stacks of pipes and materials. In the foreground, there are numerous stacks of orange-colored pipes, some with circular holes. In the background, there are stacks of blue pipes and other industrial equipment. The sky is clear and blue.

The 30,000 sq.mtr **TROUVAY & CAUVIN** Facility in Jebel Ali - Dubai, houses a state-of-the-art 6000sq.mtr covered warehouse hosting a full fledged Offsite Prefabrication workshop.

This consist in:

#### **FRAME ASSEMBLY BAY**

Maximum production capacity of 30 Modules per day

#### **M&E ASSEMBLY BAY**

With a production capacity of 150 Modules per week

#### **DEDICATED STORAGE AREA FOR M&E MATERIALS**

Fully HSE CERTIFIED and compliant work environment

Prominent features that truly sets **TROUVAY & CAUVIN** apart from other suppliers and Offsite Prefabrication Solution providers are:

- 15,000 tons of material inventory stocked in the yards to support critical requirements and,
- whole range of value-added services performed in-house on the materials.

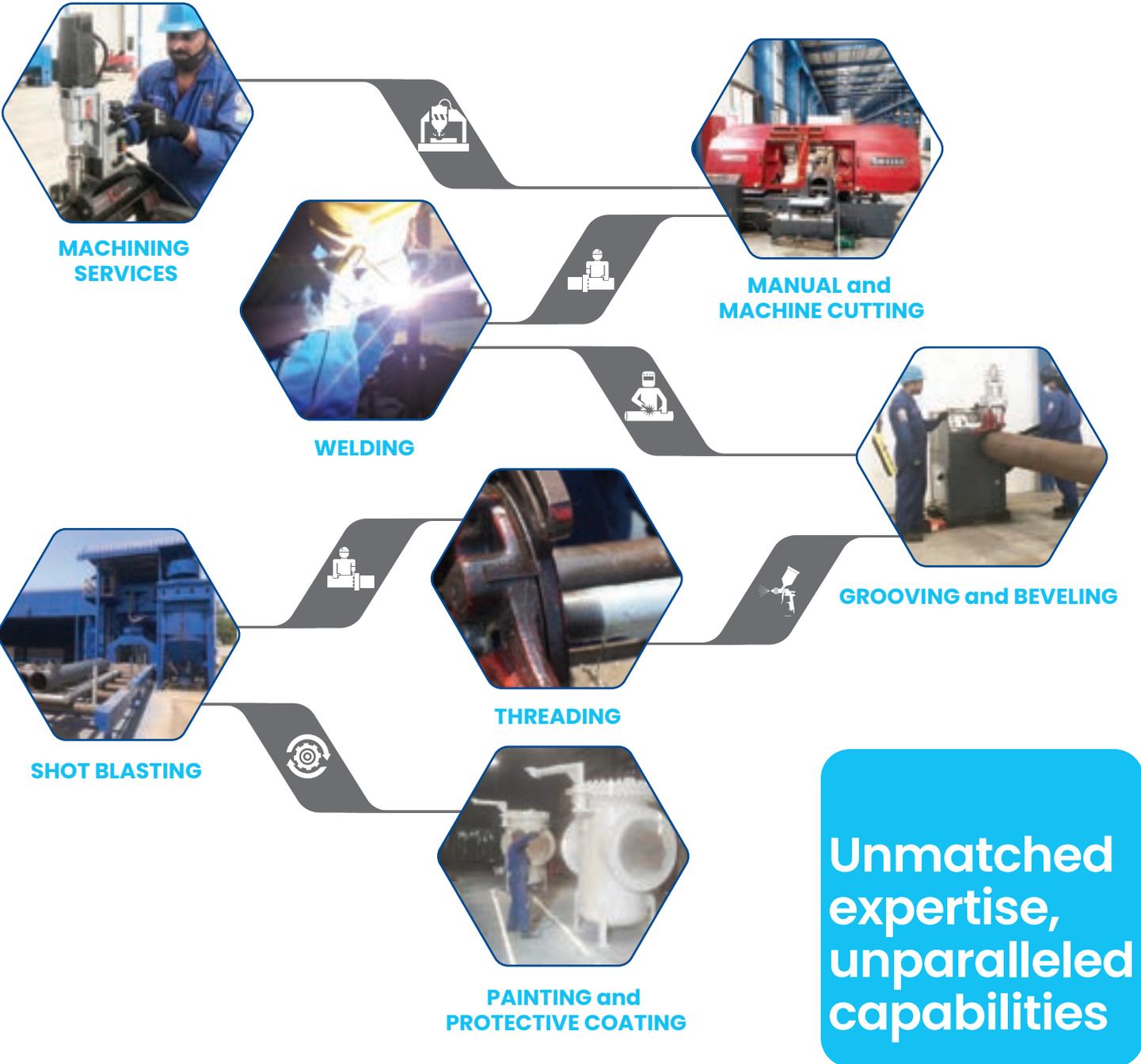
Thanks to our own full-fledged machining floor equipped with the latest equipment and machinery, qualified and trained workforce, we are capable to carry out most of the specialized works in our facility itself, which reduces the need for outsourcing. This enables quick turnaround to meet committed deliveries. In addition it relieves our Customers of the associated sub-contracting activities and enables them to concentrate on the other important aspects of the project.

# The Fabrication

## An advanced workshop catering to all your Prefabrication needs.

Some of the services provided by **TROUVAY & CAUVIN** include pipe finishing, manual and machine cutting, threading, beveling, grooving, blasting, painting, coating, welding, color coding, bar coding, packing...

What is not done in-house is sub-contracted to qualified local providers under **TROUVAY & CAUVIN** supervision, ensuring that quick turnaround and quality standards are both met.



# The Benefits

## Specific Solutions with Multiple Benefits!



### Increased Construction Productivity

Faster construction with time savings of up to 60%. Onsite and Offsite work is done concurrently with greater focus and efficient use of skilled labor.



### Reduced Lead Time

Thanks to ready available stock in our yards, the prefabrication process can start as soon as the designs are approved with no time is wasted in ordering and receiving materials.



### Better Quality Control

Since most of the work is done in factory-controlled environment, there is an increased level of accuracy and reduced defect variability. Improved quality checks at every step.



### Improved Workplace Safety

Construction sites are safer and more conducive as most work is done offsite, and less time is spent on working at height



### Cost Saving

Improved cost productivity. Use of standardised products can give economies of scale, less onsite requirement for manpower, tools, equipment...



### Environment and Sustainability

Significant reduction in dust, and noise pollution. Onsite waste can be virtually eliminated and any waste produced can be controlled and recycled.



### BIM Design

High level of customization and flexibility. Optimization of schedule and costs. Improved onsite collaboration and communication.



### Controlled Logistics

Unaffected by weather conditions or other trades, Prefabricated Modules provide overall reduction in schedules and greater certainty of delivery.



### Damage prevention

Ground-up installation of MEP Modules eliminates many connection problems. Since onsite work only consists of connecting MEP Modules to mains, there is minimum damage to components.



### Improved Asset Management

Reduced failure rates and more reliable asset performance helps to reduce opex cost over the life of the asset.

# Our QHSE Policy



## QUALITY: Our Driving Force!

Our commitment towards Quality is an absolute priority that has earned **TROUVAY & CAUVIN** over the years the trust from its Customers operating in extremely demanding industries such as Oil & Gas and Construction.

Ensuring we deliver a product or service matching or exceeding our Clients' expectations, in full compliance with the agreed technical requirements, on-time, and at a competitive price is the key focus of each and every **TROUVAY & CAUVIN** employee.

The satisfaction of our Customers is imperative to the ethos of the Quality Management & Continuous Improvement in our Organization.



## Employees' Safety & Wellbeing First!

**TROUVAY & CAUVIN** puts its employees at the heart of its operations.

The Group procedures are designed to ensure physical and mental health, safety and well-being of each and every employee whatever his/her role may be in the organization.

We commit to continuously improve our workplaces' health & safety practices aimed at the prevention and reduction of accidents and aimed at making **TROUVAY & CAUVIN** a better and safer place to work.

Equal employment opportunity and fair reward and recognition of individual achievements are warranted for every employee irrespective of his/her Gender, Religion, Beliefs, Age, Nationality or Ethnicity.



## Contributing for a Greener tomorrow!

**TROUVAY & CAUVIN** is committed, in the governance and performance of its operations to minimize, at all time the environmental impact of its day to day operations, and to ensure their sustainability. Our Goal being to achieve greater economic efficiencies and alignment of sustainability objectives across our operations worldwide and at Group Level.

The aim is to integrate into our operations the best and latest environmental management practices to ensure an efficient use of water and energy, limit materials consumption through "reduce" and "re-use" rather than "dispose" and/or "recycle" whenever possible, as well as prevent any type of pollution.



# OFFSITE PREFABRICATED SOLUTIONS

DESIGN ■ MATERIAL SUPPLY ■ FABRICATION ■ DELIVER

**T&C**  
GROUP  
**TROUVAY  
& CAUVIN**  
Channelling all **energies**



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