

# BRIDGING THE WORLD

EST. 2004





# Passionate about what we do

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**ConstruGomes** is dedicated to the construction of major infrastructure works, in particular large bridges, commonly referred to as "works of art". In addition to this business area, it also intervenes in the construction of tunnels, dams and buildings.

In the civil construction and public works market, the company stands out from the rest for the scope of its activity, to the extent that it not only executes the work but also intervenes in its conception, contributing with technical solutions that always aim projects' optimization.

Supported by its R&D department, **ConstruGomes** continuously invests in the search for new and better technological and productive operation solutions.

From the wide range of services ConstruGomes offers its clients, the following technical solutions are worth mentioning: Form Travellers, Movable Scaffolding System, Wing Travellers, Climbing and Self-climbing Formwork, Heavy Propping and Tunnel formwork.



# What sets us **apart** !



## MISSION

Our mission is to structure a better future.  
We want to ensure the excellence of the construction services we provide.



## VISION

We want to be the reference in the construction of bridges, viaducts, tunnels, and dams.



## VALUES

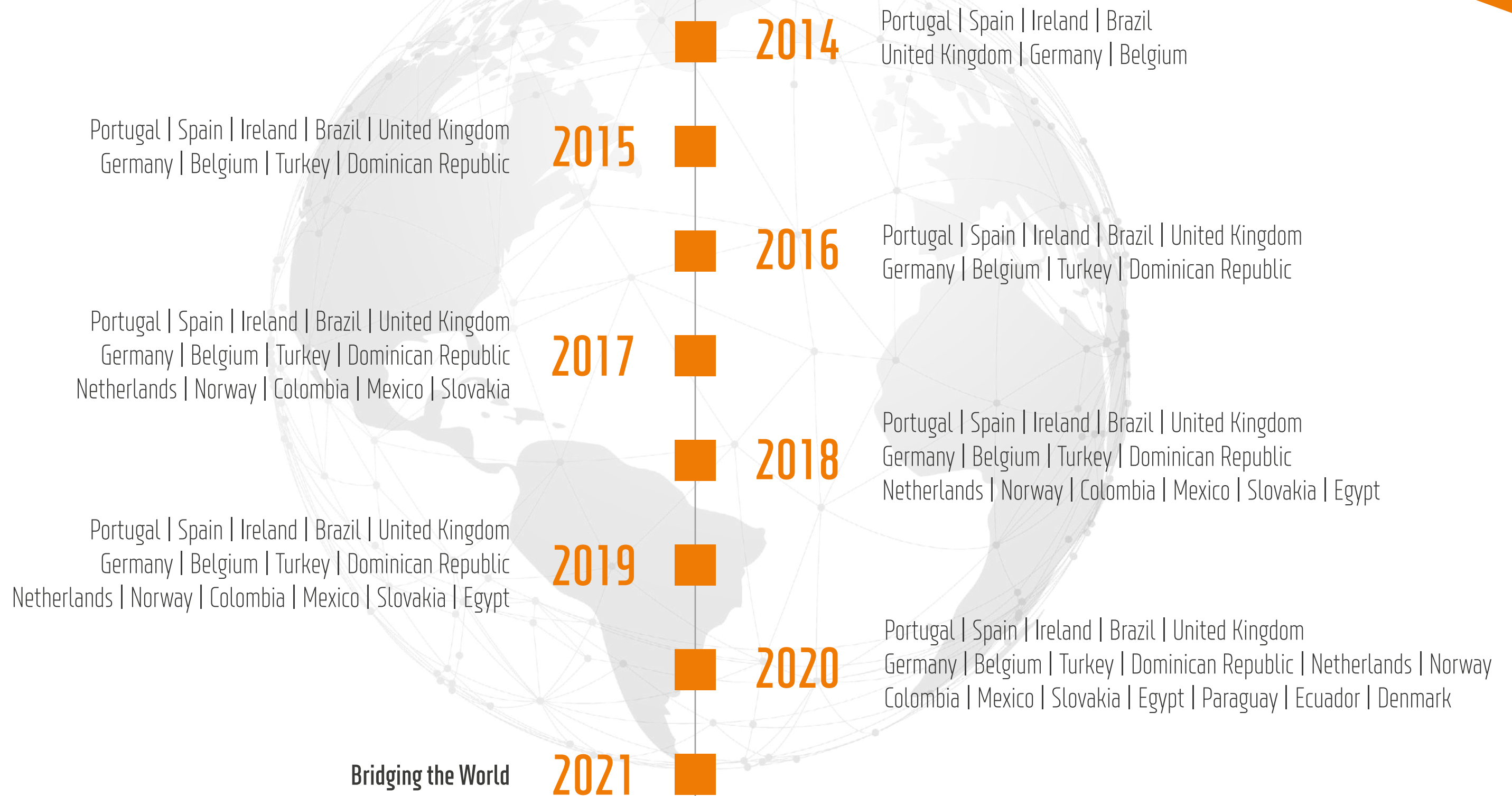
Safety to the employees. Commitment to clients and suppliers. Quality and innovation in the services provided.



# Evolution of the company

7 YEARS

3 CONTINENTS  
18 COUNTRIES





# Recognition

CERTIFICATES AND AWARDS

More information 





# Strategic Goals

2021  
2022  
2023

01

Increase our presence in markets like Germany, United Kingdom and Belgium.

02

Extend our presence to markets in Scandinavia and the Middle East.

03

Increase the Turnover in order to reach € 50 million per year.

04

Strengthen the link to major construction companies.

05

Qualification of the personnel, either through internal qualification or hiring of new employees.

06

Increase the investment in our Research and Development department.



# TECHNOLOGICAL

SOLUTIONS







**FT**  
FORM TRAVELLERS

Form Travellers are used in the construction of “in situ” bridge decks, by the cantilever method. This method is essentially based in the construction of symmetrical balanced cantilevers, 3 to 6 meters, from the pylons, designated by segments. After the concreting of a section, the form travellers move through rails for the concreting of the next section, leaning on the preceding segment. The formwork is suspended from the structure of the form traveller using thread bars.

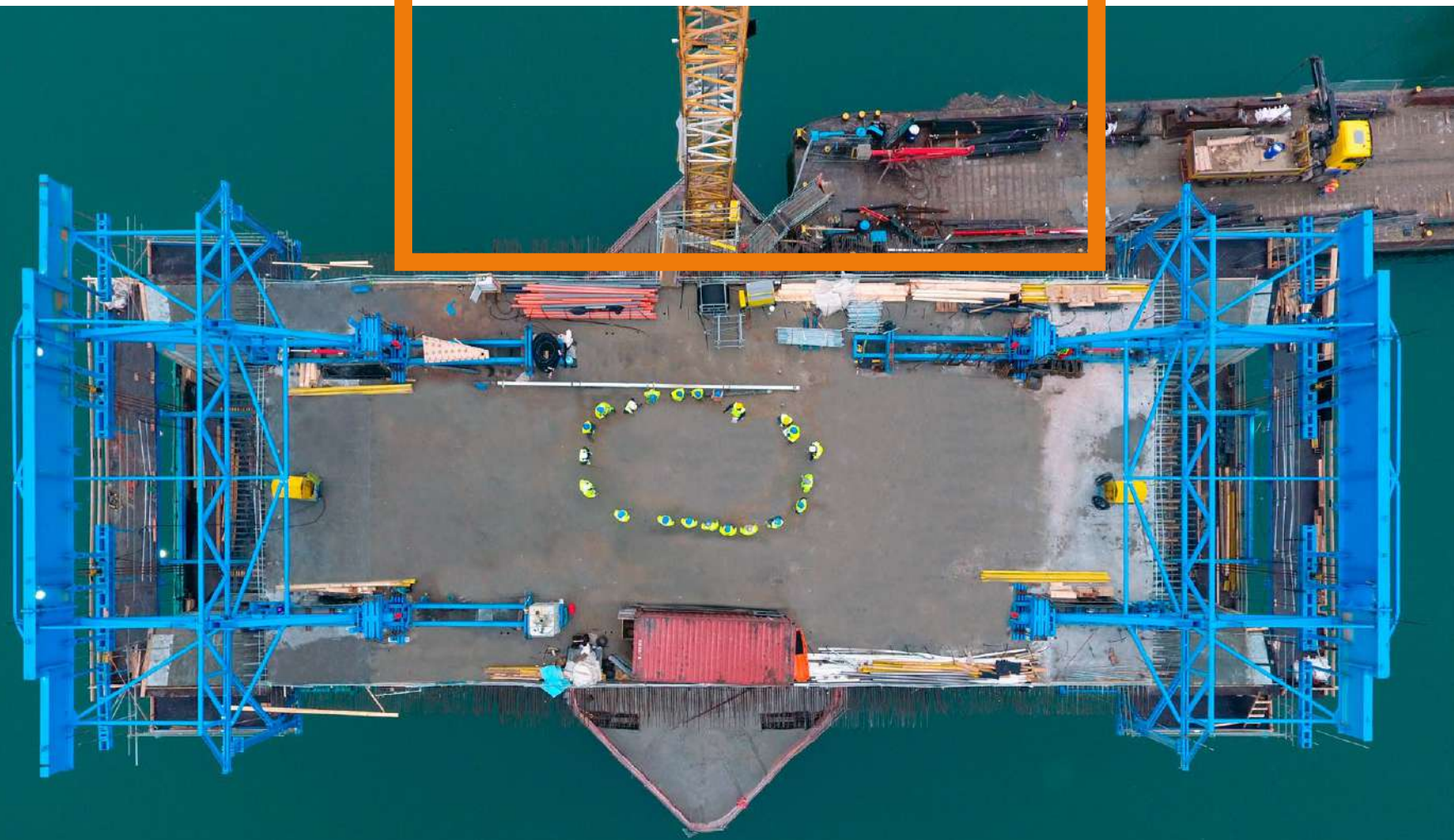
### TECHNOLOGY BENEFITS

- Short assembly/disassembly period;
- Concreting cycles per segment: 5 days;
- Optimization of cost/income when compared to other technical solutions;
- Increased safety;
- Equipment versatility- easily adjustable to the decks’ geometry and re-adaptable to new projects.





# FORM TRAVELLERS



## SERVICES

- Consulting and development of solutions with specific equipment;
- Bridge deck execution with any type of equipment available on the market;
- Specialized teams for assembling and operating any type of equipment;
- Possibility of equipment rental;
- Coordination and monitoring of the works;
- Turnkey solutions;
- Technical support.





# MSS

## MOVABLE SCAFFOLDING SYSTEMS

This method consists of supporting the MSS on the final elements (piers and abutments), being also possible to use part of the already built bridge deck as a support. After the correct positioning of the formwork, transported by the MSS, the steel reinforcement is positioned in its interior. The concrete pouring on each span can be done in more than one phase. The MSS launching is done span by span, by hydraulic mechanisms, being completely autonomous. The range of partnerships that Construção is part of, allows it to be in the forefront regarding the adoption of new technologies, being the OPS system (Organic Prestressing System) the pinnacle.

### TECHNOLOGY BENEFITS

- Reduces the planning of the deck execution substantially;
- Fast concreting cycles per span: 1 to 3 weeks;
- Optimization of cost/income when compared to other technical solutions;
- Increased safety;
- Equipment versatility- easily re-adaptable to new projects.





# MOVABLE SCAFFOLDING SYSTEMS



## SERVICES

- By using our own resources and partnerships, we provide technical services and skilled manpower to assemble, launch and disassemble movable scaffolding systems;
- Monitoring of pre and post assembling services, in order to achieve, through cooperation with our clients, the best quality/price solution;
- Partnerships with equipment suppliers for presentation of turnkey solutions.







**WT**  
WING TRAVELLERS

A wing traveller works in a similar way to the MSS and the form traveller machines, acting as a movable concrete mould to complete the full deck width. Concrete is poured into both sides of the machine at the same time, enabling workers to cast sections of the outer deck on each side of the viaduct with or without struts. Once the concrete has set, hydraulic jacks push the machine forward to the next position and the cycle is repeated. Both the overhead and the underslung WT are designed for the same purpose. The underslung wing traveller system can be adapted to different types of bridges, such as cable stayed structures, leaving no obstructions to temporary or permanent cables as well as giving the opportunity for an easy «back – launch» to its initial installation position. For projects where reinforcement is to be prefabricated, the underslung wing traveller is the perfect choice. The external formwork for this WT is supported from below, leaving no obstruction to place prefabricated bottom slab, web and top slab reinforcement.

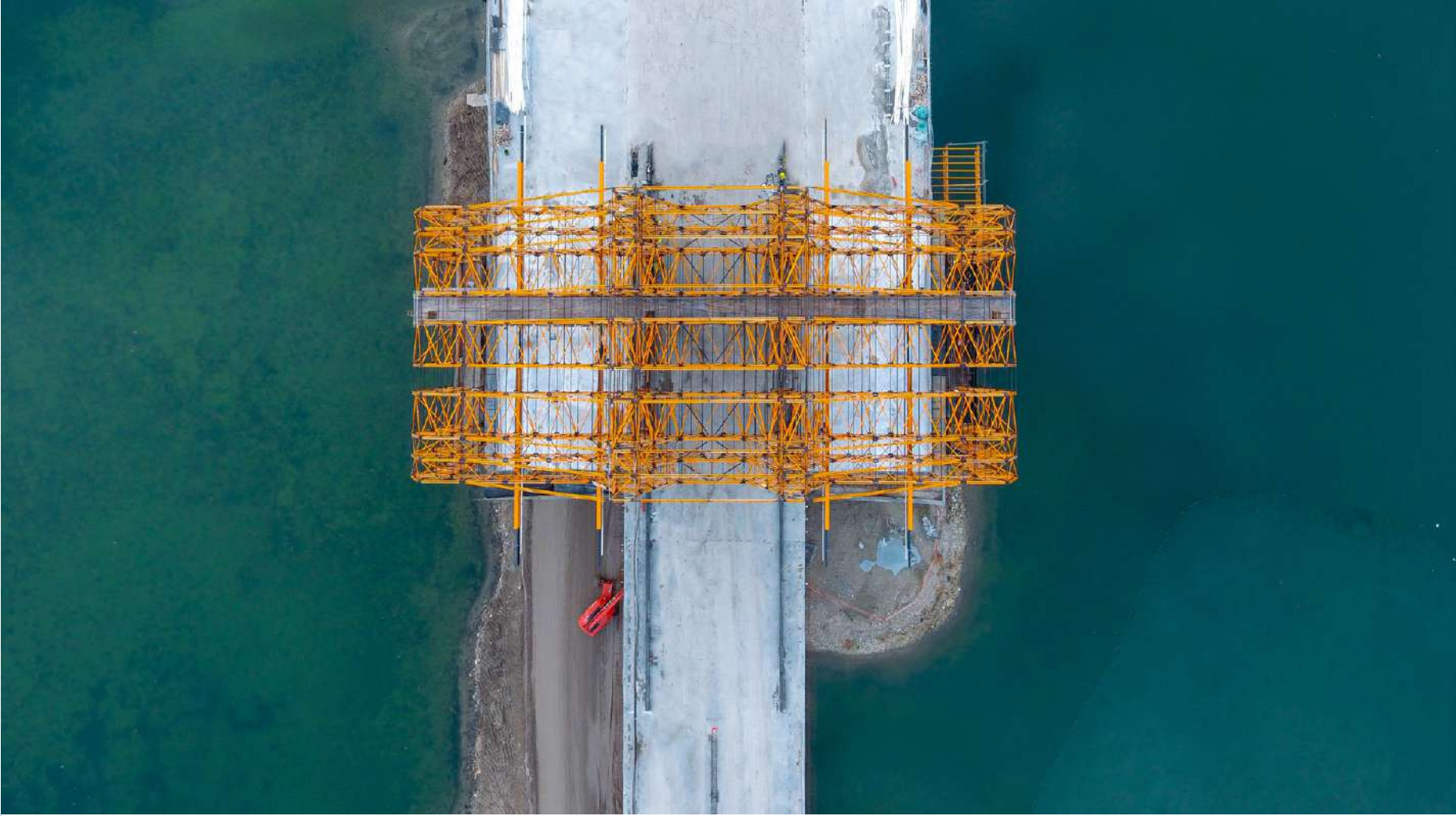
### TECHNOLOGY BENEFITS

- Its modular components help it adapt flexibly to different geometries;
- Short periods of time to assemble/ disassemble;
- Pouring cycles per segment: 4-5 days;
- Highly specialized teams for the assembly and operation of any type of equipment;
- Optimization of costs and income when compared to other equipment.





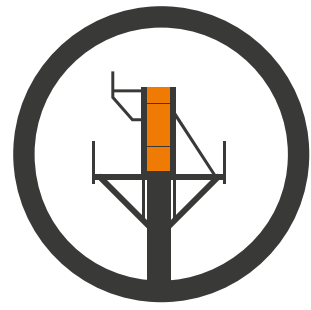
# WING TRAVELLERS



## SERVICES

- Consulting and development of solutions;
- Possibility of rental/sale of equipment;
- Bridge deck execution with any type of equipment available on the market;
- Turnkey solutions;
- Specialized teams for assembling and operating any type of equipment;
- Coordination and monitoring of the works;
- Technical support.





# FORMWORKS

CLIMBING, SELFCLIMBING AND TRADITIONAL

Climbing formwork offers regular working cycles on high structures. It can be adapted to a wide range of requirements and is raised by supporting lifting means, such as cranes.

The self-climbing formwork operates similarly to the form travellers since it allows the execution of pylons and/or vertical structures by increasing segments.

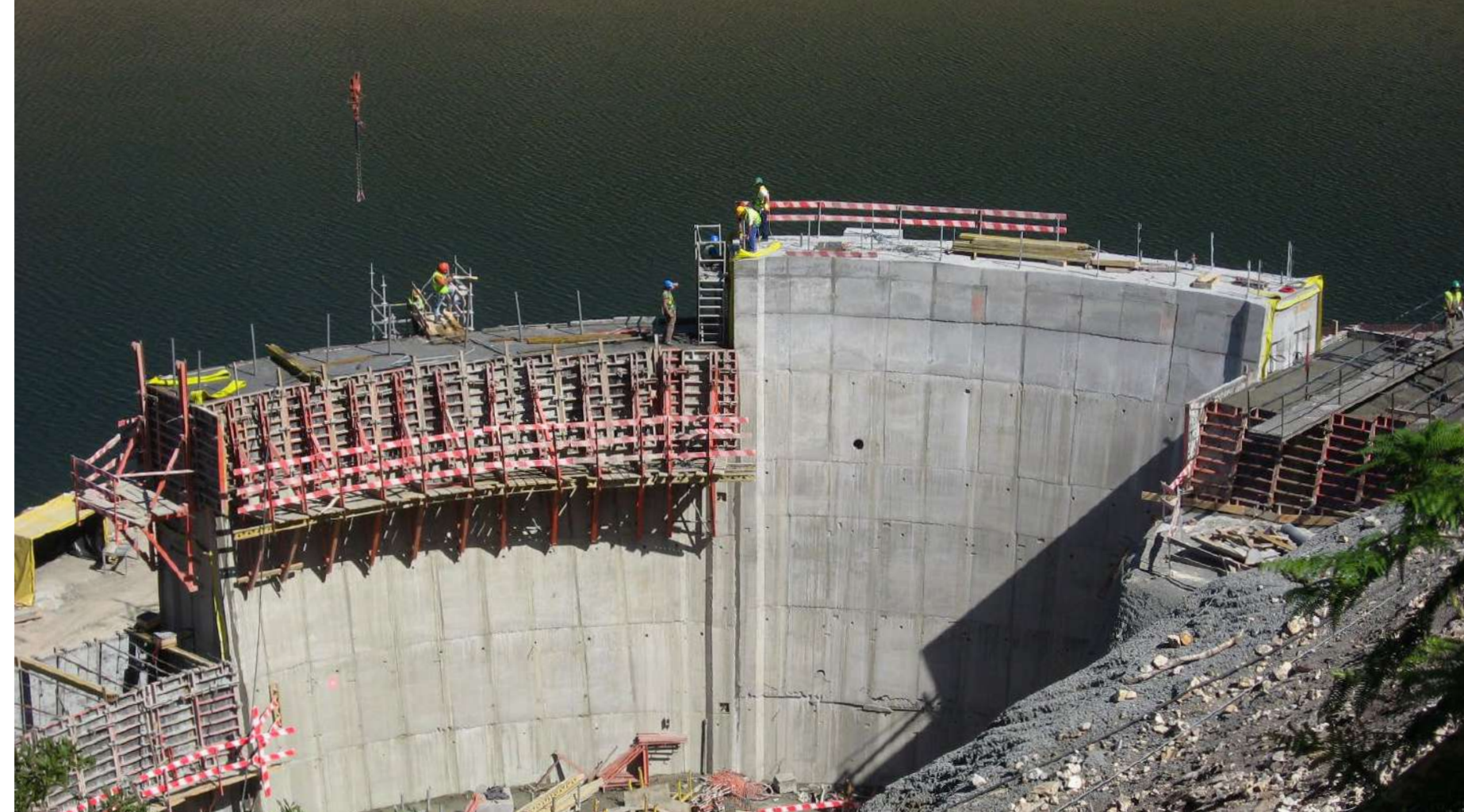
## TECHNOLOGY BENEFITS

- Fast concreting cycles: 1 to 3 days;
- Equipment versatility- easily re-adaptable to new projects;
- Increased safety.



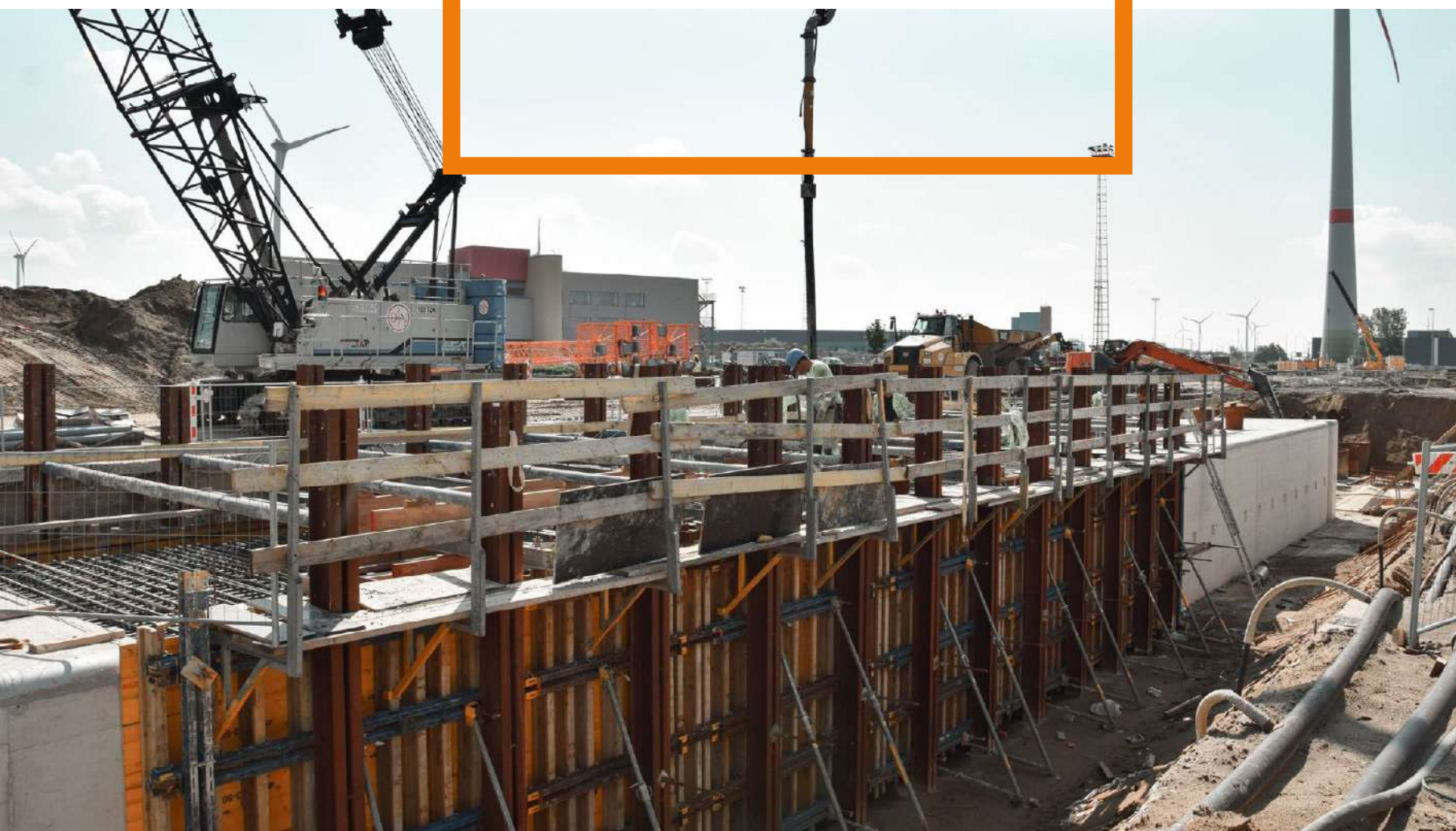


# CLIMBING SELFCLIMBING TRADITIONAL FORMWORKS

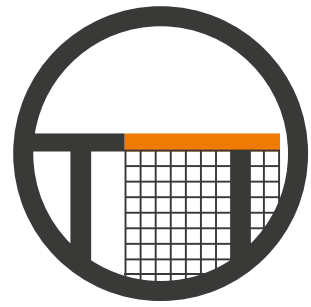


## SERVICES

- Operation of conventional climbing formwork systems up to 5m high;
- Self-climbing formwork with oil hydraulic systems designed by the Research & Development department;
- Design of formwork solutions without the use of connection bars between panels, which significantly reduces the concreting cycles and enables high quality finishes on concrete;
- Teams highly specialized in the operation of formwork systems on the market.







# SCAFFOLDING

## PROPPING AND SHORING SYSTEMS

The shoring system is a temporary solution which aims to support the weight of the structure while the concrete is placed and compacted. Once the concrete structure acquires the necessary strength for self-support, the dismantling of the temporary falsework can be proceeded.

ConstruGomes has used heavy propped formwork up to 40m of bridge span and height. These systems are normally limited to a height of 40m because of material limitations and safety considerations.

### TECHNOLOGY BENEFITS

- Equipment versatility- easily re-adaptable to new projects;
- Cost optimization when applied to low height decks.





# PROPPING AND SHORING SYSTEMS



## SERVICES

- Design and Concept of propping technical solutions developed by the R&D department;
- Study of specific solutions for different lengths of spans and deck's heights;
- Teams highly specialized in the assembly of existing formwork solutions on the market.







**TF**  
TUNNEL FORMWORK

The Tunnel Carriage is a mobile structure for the execution of tunnels. Contemplates the shoring structure with the formwork that shapes the tunnel format.

The formwork system for tunnels is composed of a lightweight mobile carriage that is used for both structure support and formwork. This is aimed at the civil engineering market, specifically the construction of mine tunnels of up to 1km long: underground stations, tunnel connections and hydraulic galleries.

### TECHNOLOGY BENEFITS

- Fast concreting cycles per segment: 1 to 3 days depending on the tunnel section;
- Equipment versatility- easily re-adaptable to new projects.





# TUNNEL FORMWORK



## SERVICES

- Operation of mobile structures for the execution of tunnels in open air or in mine;
- Great ratios of execution, allowing cycles of daily pouring;
- Specialized hand-labour for the current equipment solutions (with or without the use of hydraulic systems).



# SERVICES 360°

INTEGRATED  
VISION  
360°



# Turney solutions

We build 360° solutions, anywhere in the world.



## Design

We turn the client's idea into a real solution.



## Manufacturing

We design and manufacture the technology necessary to the execution.



## Supply

Our technology knows no borders. We supply the equipment to any part of the world.



## Execution

We complete the project within the agreed terms and budget.

360°



At **ConstruGomes** we do not only aim at results, we are concerned with outlining the path that has to be taken until the goal we set ourselves is achieved.

We are **all** an integral part of this journey.

Thank you.



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