ZUBIA INGENIEROS

CONTENTS

ZUBIA INGENIEROS

INTRODUCTION

Zubía Ingenieros is a young and dynamic company built around a group of professionals with wide ranging experience in the sector.

It was born out of an interest in creating an independent area allowing for full development and leaving a personal mark.

The key element to its successful adaptation and continuous expansion during its development has been its flexible, technical structure together with its capacity for innovation. Since its creation, Zubía Ingenieros has been constantly growing and has been able to adapt its technical and human resources to the continual changes and increasing demands of the market.

Our analytical capacity combined with our constant search for specific solutions to difficult problems has earned us the satisfaction of our customers.

While continually aiming for excellence, we aspire to merge brilliance and innovation with an exhaustive work ethic, which combined, continually provide us with new goals and targets.

Javier Zubía, the Manager and founder of Zubía Ingenieros, was born in La Coruña. He received his training at the Universidad Politécnica de Madrid, after which he joined Prefabricados Castelo where he consolidated his professional career culminating in his promotion to Technical Director. After many successful years he moved on to tackle new personal and professional challenges by founding this company.

We are sponsoring members of the Asociación Científico-Técnica del Hormigón Estructural (Scientific and Technical Association of Structural Concrete) and of the Precast/Prestressed Concrete Institute.

We are currently focusing on certifying our quality system and expanding worldwide.

AREAS OF ACTIVITY

Our work as consulting engineers is focused on the following areas of activity:

- **Project Manager:** collaborating with experts in all matters necessary for the design and development of projects. Overseeing successful development to meet expectations and productive-strategic needs.
- **Construction projects:** directly designing within our areas of specialization and management of the other areas of design.
- **Installation Projects:** undertaking specific projects involving the installation of heavy equipment, such as foundations, auxiliary structures and reinforcements on-site.
- **Technical assistance:** assistance to construction companies, looking for better solutions from a technical - economic point of view.

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SECTORS

Our activity is mainly focused on the following sectors:

•**Basic infrastructure:** Linear works on both roads and railroads, including high speed rail lines.

•**Urbanization:** Projects for industrial, commercial or residential estates.

•**Industrial building,** especially applied to unique solutions.

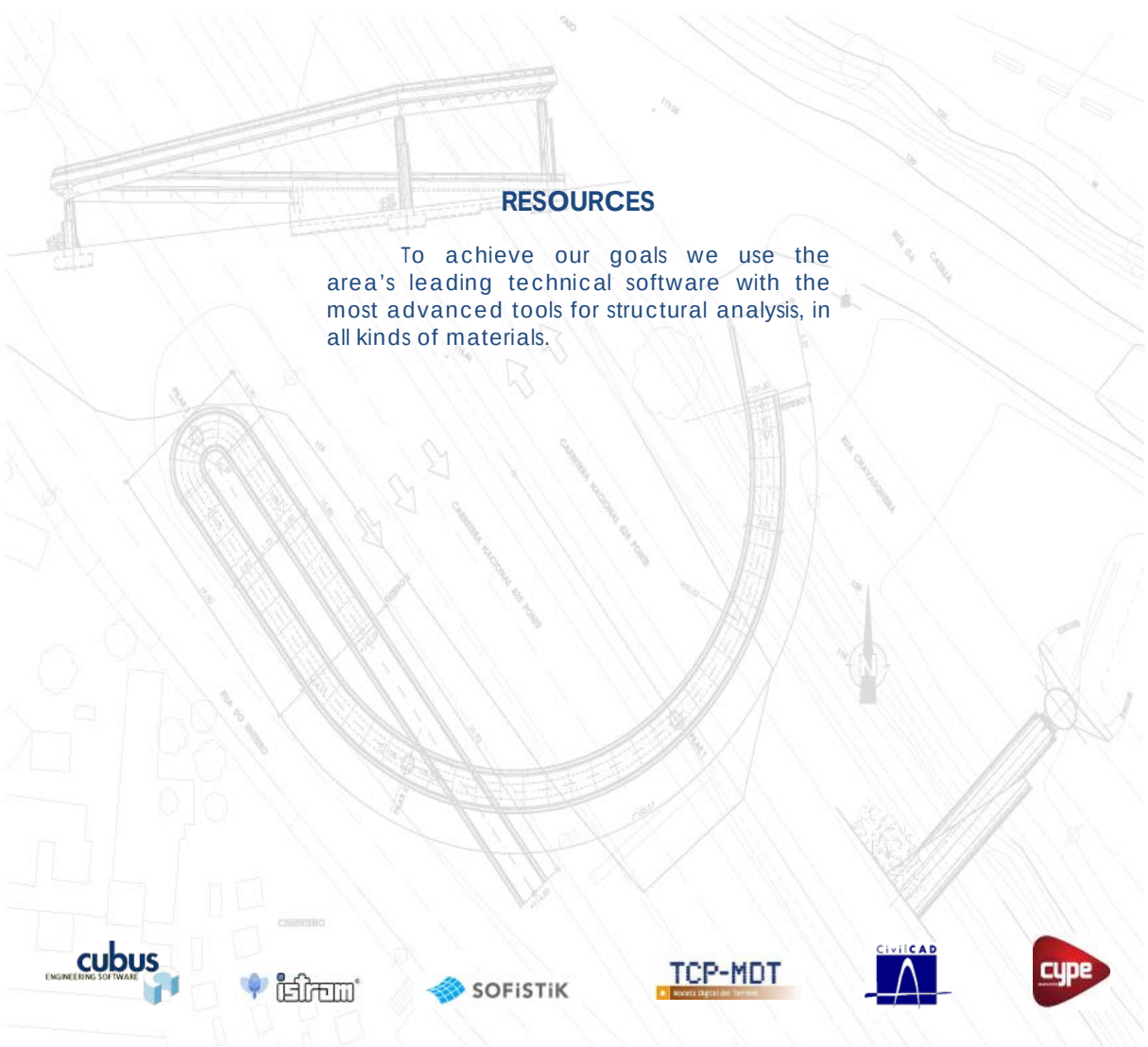
•**Environment,** advancing towards hydrology, water supply and drainage facilities.

•**Instrumentation:** We develop customized instruments to measure and monitor structures and other elements, both in the construction process and in services.

•**R+D+I:** We develop research projects applied to civil work.

RESOURCES

To achieve our goals we use the area's leading technical software with the most advanced tools for structural analysis, in all kinds of materials.



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SPECIALITIES

Our specialist departments include the following fields:

•Land works

•Structural Design.

•Hydraulics.

LAND WORKS

In this department, we focus on underground analysis, both for linear works involving roads and railroad tracks and for large level surfaces in projects for industrial, commercial or residential estates.

- Excavation (earth moving)
- Canalization
- Facilities
- Road and railway platforms.

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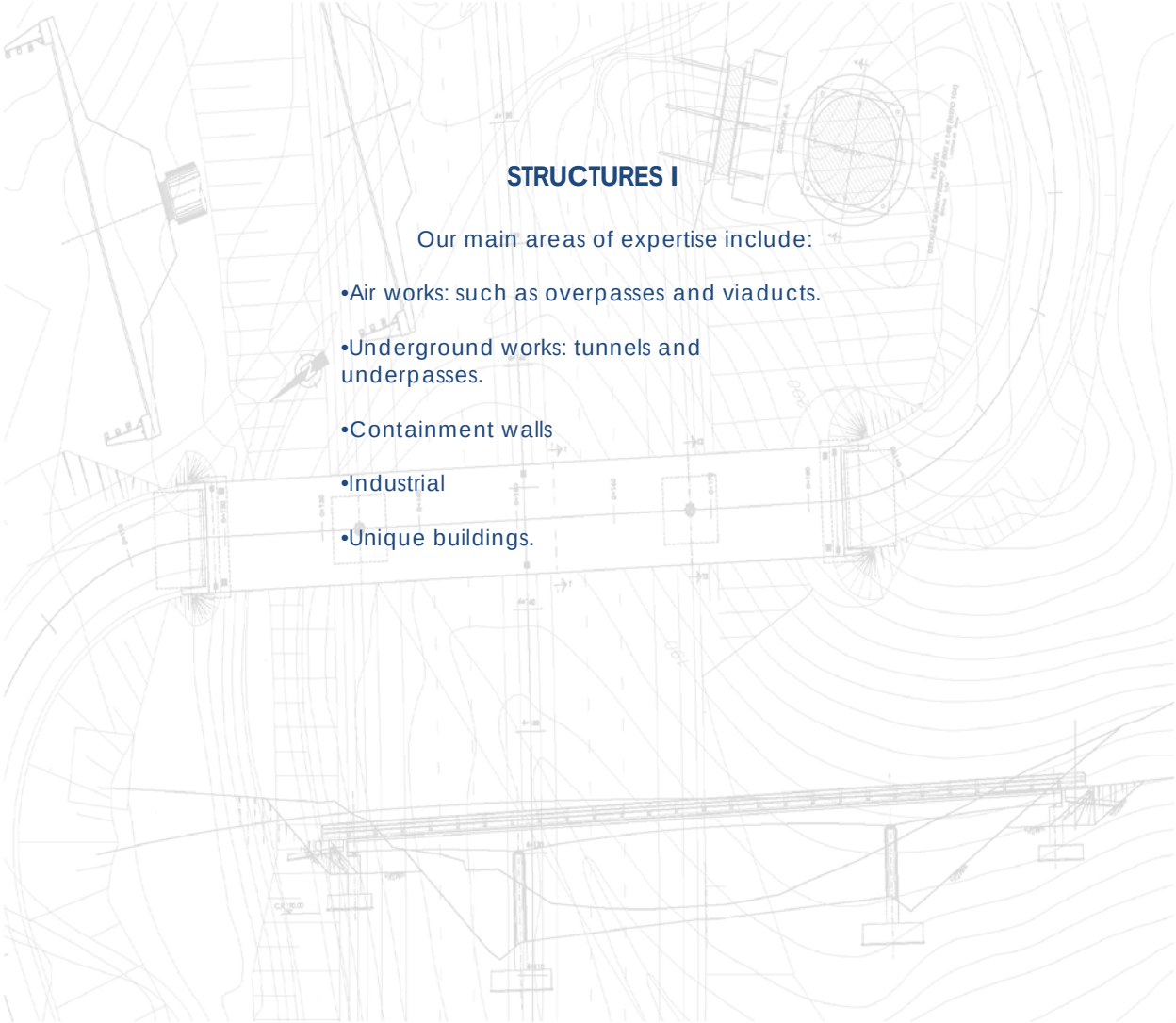
STRUCTURES I

Our main areas of expertise include:

- Air works: such as overpasses and viaducts.
- Underground works: tunnels and underpasses.
- Containment walls
- Industrial
- Unique buildings.



STRUCTURES II

For the different elements mentioned, we develop the following projects:

•New project design.

•Reinforcement - checking works in progress, finished or which require a change of use.

•De-construction: projects involving the demolition of big structures in phases when total demolition is not possible.

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STRUCTURES III

Our experience allows us to design works using diverse processes and construction resources:

- Self-supporting formwork.
- Construction in phases (projecting, tightened, etc).
- Prefabricated in phases with on-site assembly.

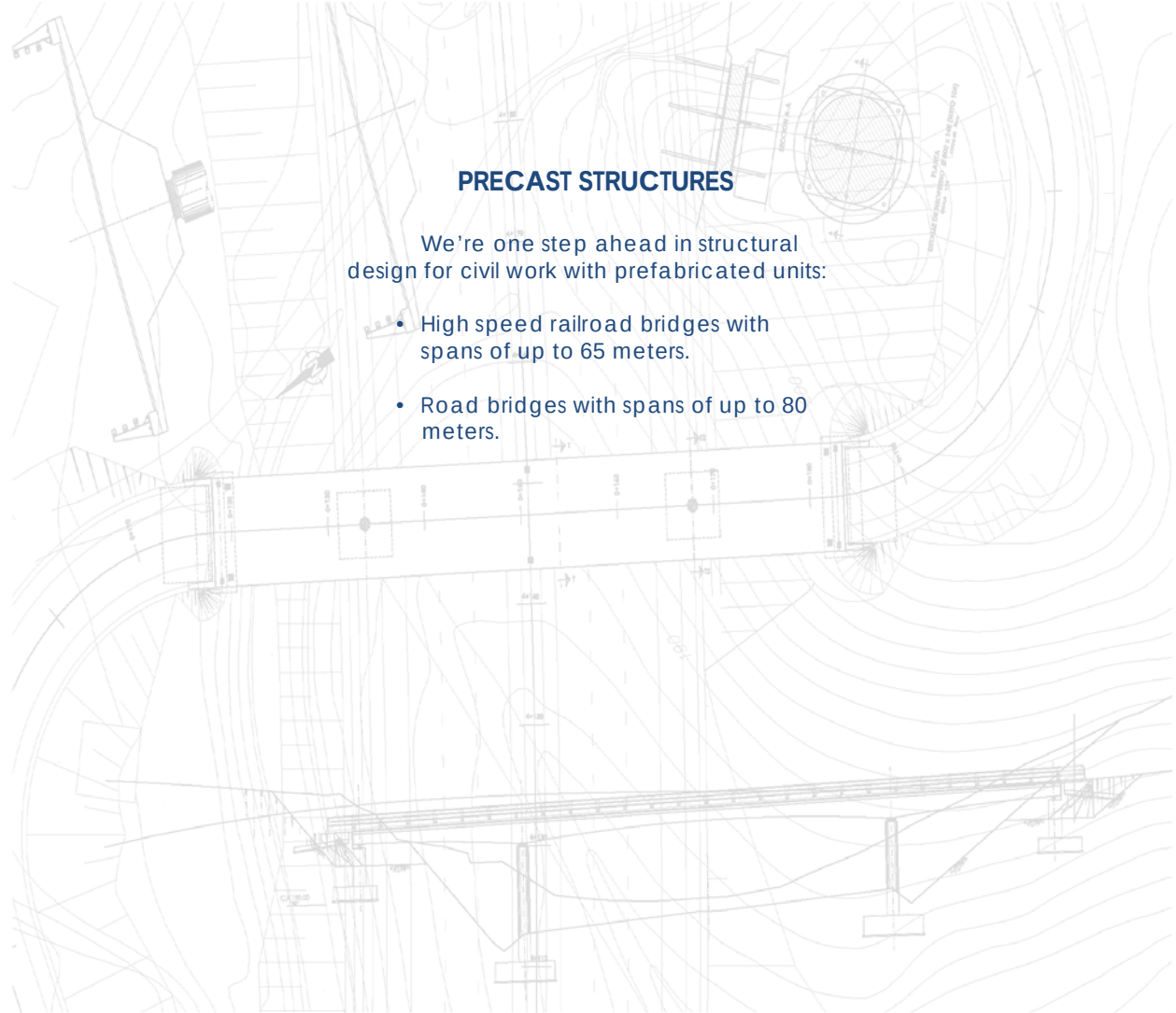
And in various materials:

- Concrete
- Steel
- Wood
- New materials

PRECAST STRUCTURES

We're one step ahead in structural design for civil work with prefabricated units:

- High speed railroad bridges with spans of up to 65 meters.
- Road bridges with spans of up to 80 meters.



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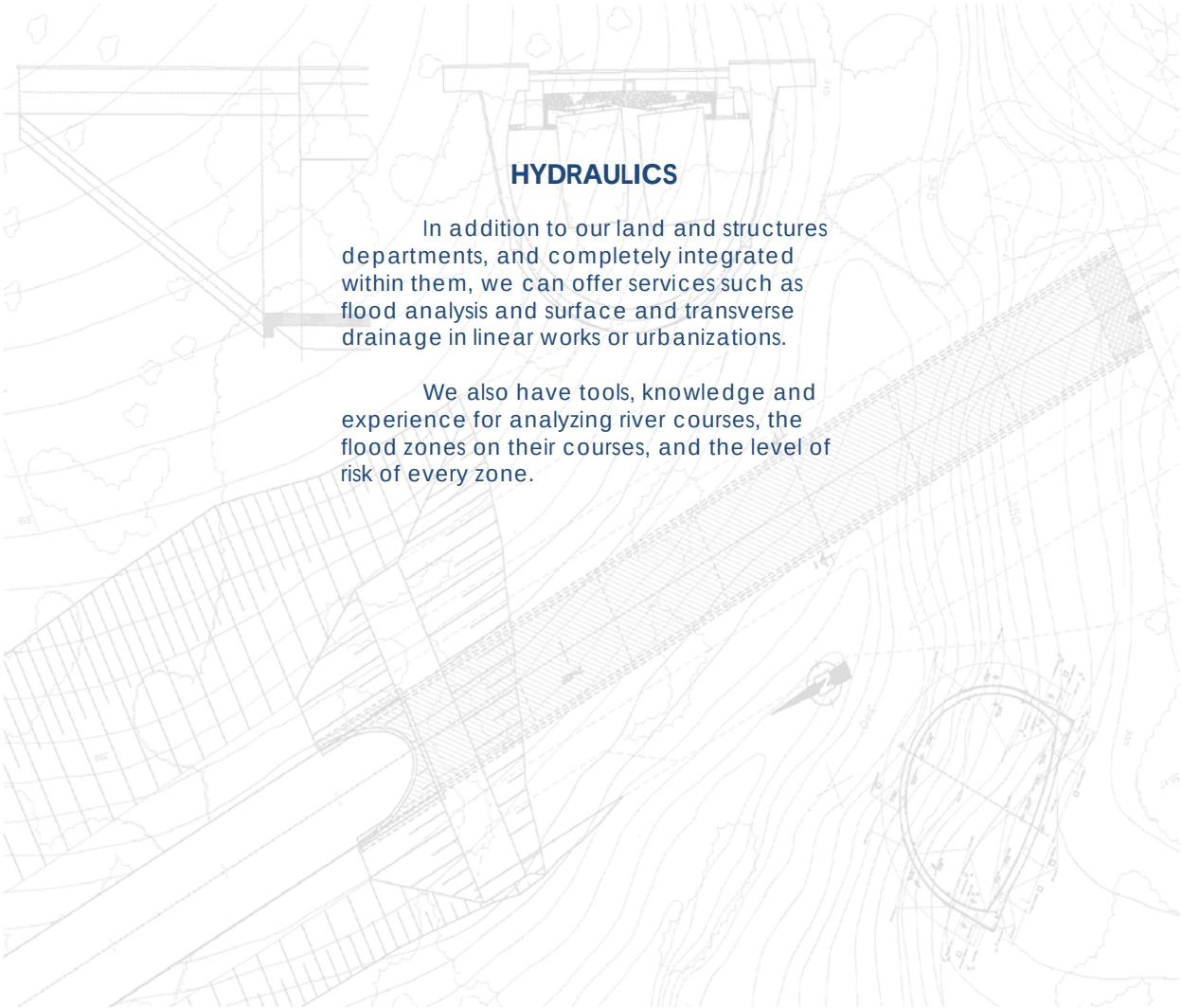
HYDRAULICS

In addition to our land and structures departments, and completely integrated within them, we can offer services such as flood analysis and surface and transverse drainage in linear works or urbanizations.

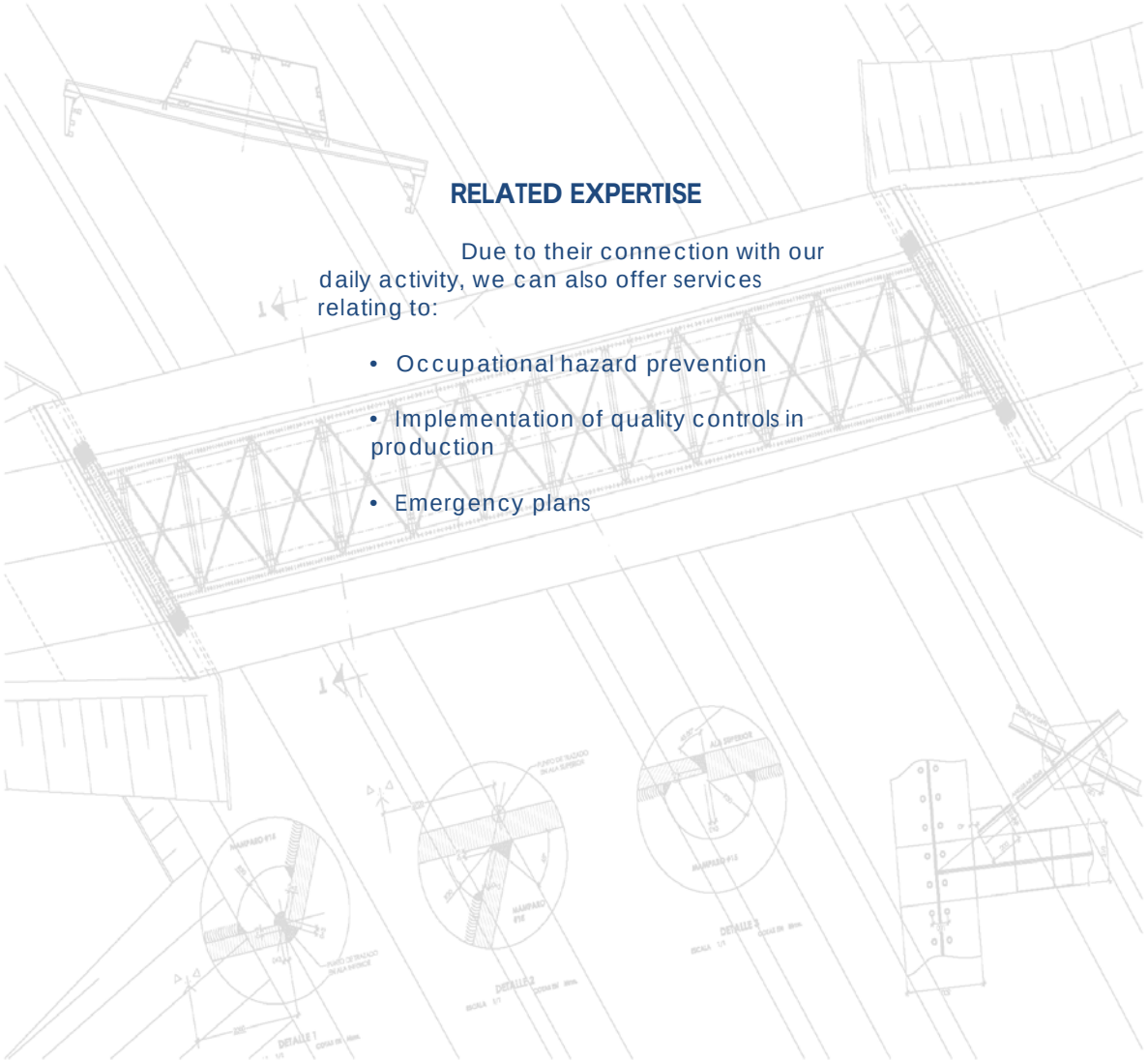
We also have tools, knowledge and experience for analyzing river courses, the flood zones on their courses, and the level of risk of every zone.



RELATED EXPERTISE

Due to their connection with our daily activity, we can also offer services relating to:

- Occupational hazard prevention
- Implementation of quality controls in production
- Emergency plans



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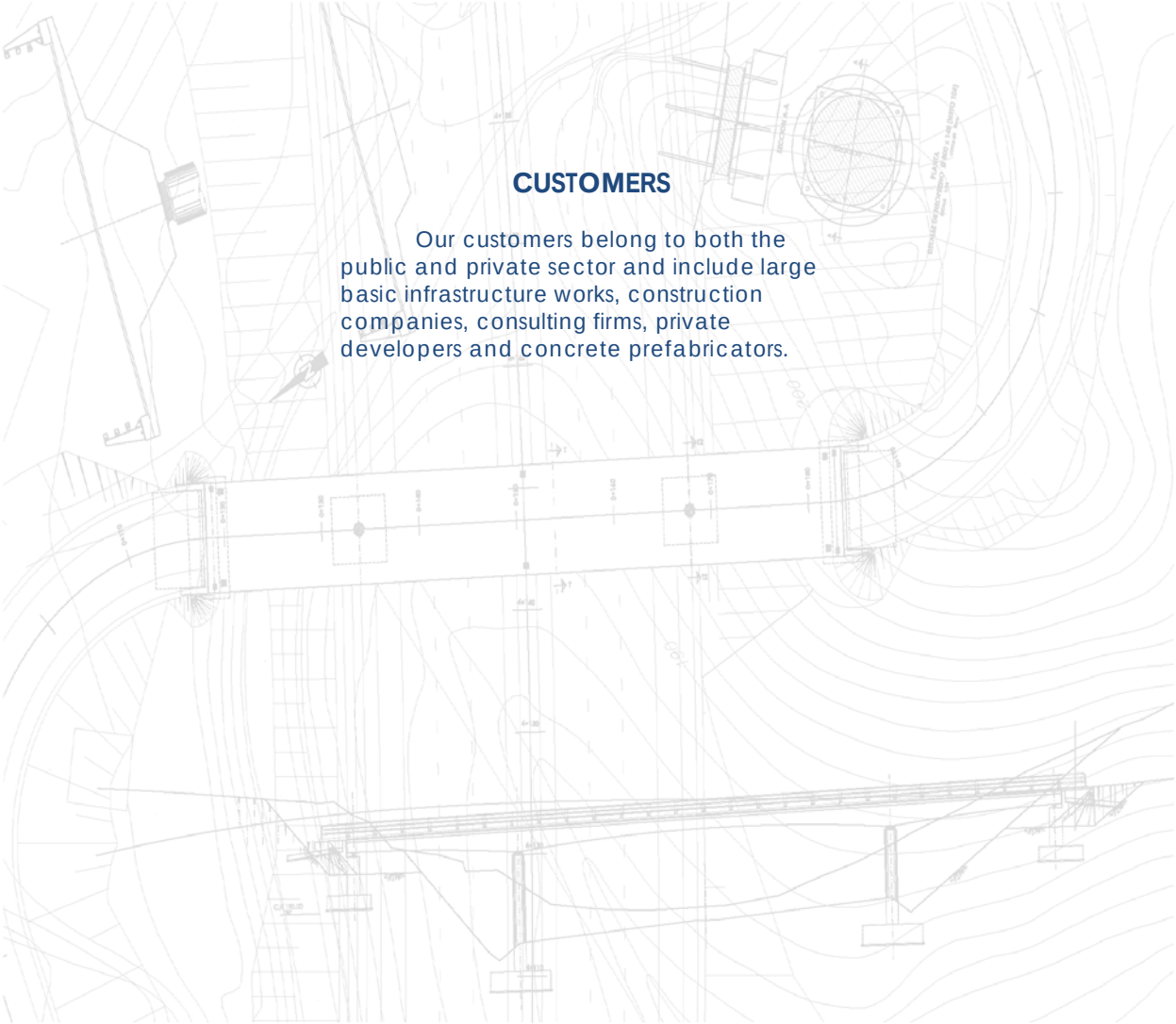
CUSTOMERS

Our customers belong to both the public and private sector and include large basic infrastructure works, construction companies, consulting firms, private developers and concrete prefabricators.



Bridge over the Umia river with lower footbridge.
DIPUTACIÓN DE PONTEVEDRA 2006.

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High of Pedrizas-Málaga. Construction project AP-46
MINISTERIO DE FOMENTO 2008.

Rail access to Vigo. Installation project of conveyor belt material.
MINISTERIO DE FOMENTO. DG de Ferrocarriles 2008.

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Viaduct of Aragal. High Speed Train
MINISTERIO DE FOMENTO. DG de Ferrocarriles. 2009.

New access to Ourense. Temporary Reinforcement Project Ervedelo Viaduct.
MINISTERIO DE FOMENTO.DG de Carreteras 2005.

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Viaduct on Tajo
MINISTERIO DE FOMENTO. DG de Ferrocarriles 2007.

Viaduct Cuesta Perdida AVE Ontígola Ocaña
PUENTES E INFRAESTRUCTURAS ADIF 2008.

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False Tunnel Los Rincones AVE Ontígola Ocaña
PUENTES E INFRAESTRUCTURAS ADIF 2008.

Metalic Box Bridge IV Centenario Highway. Section: Ciudad Real-Granátula de Calatrava
Junta de Castilla-La Mancha 2007.

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Special Solution Bridge .
MINISTERIO DE FOMENTO.DG de Carreteras 2005.

Hiperronda Málaga Viaduct
MINISTERIO DE FOMENTO. DG de Carreteras 2008.

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Precast Bridge. Construction of the New AVE Line Orense-Monforte_Lugo, San Julián.
MINISTERIO DE FOMENTO. DG de Infraestructuras Ferroviarias 2009.

Metallic structure of San Pedro Bridge
Ministerio de Fomento. 2007.

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Tunnel made with precast elements
Xunta de Galicia. 2007

Viaduct over Bejar
Ministerio de Fomento 2008

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Precast bridge New Access to Ferrol
XUNTA DE GALICIA 2006.

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