

Crossing together

Bridges
Brochure





We are a global network of smart minds

**Providing cutting-edge
solutions in complex
design and engineering**

Offices

Aarau
Abu Dhabi
Ankara
Basel
Bergen
Bogotá
Brescia
Buenos Aires
Cairo
Chambéry
Chur
Dubai
Fribourg
Grono
Hainan
Ilanz
Innsbruck
Istanbul
Kathmandu
Locarno
La Paz
Latina
Lausanne
Lima
Lisbon
Lomazzo
Louisville
Lugano
Madrid
Melbourne
Milan
Modi'in
New Delhi
Oslo
Panamá city
Paris
Pittsburgh
Poschiavo
Quito
Rapperswil-Jona
Riyadh
Rome
Santiago
São Paulo
Sion
Sousse
St. Moritz
Sydney
Tirana
Trento
Tunis
Turin
Visp
Washington DC
Zurich

In the image
Volunteer Footbridge
Zaragoza, Spain



The Art of Uniting

Bridges play a key role in developing and strengthening communication between people and territories, between cultures, economies, and generations, overcoming distances and fostering progress.

At ARX, we have understood this since the 1950s. Our work is driven by a passion for creating structures that are not only beautiful, but also sustainable and remarkably resilient.



Over **350** great bridges

Footprint
in over **30** Countries

3 Professors of
Bridge Engineering

Over **45** cable-stayed
bridges

At the Forefront

Over **200** girder bridges

Over **35** arch bridges

Over **70** prizes

4 world
wide records

In the image
Cebú-Cordova Bridge
Philippines

Property
Metro Pacific Tollways Corporation
Construction
CLVJ Acciona-First Balfour-DCMI
Services
Tender Design
Detailed Construction Design
Construction Engineering
Technical Site Supervision - QA/QC

Main Span: 390 m.

Bridges around the world

**Gordie Howe
International Bridge**
USA-Canadá

Bridge Over The River Duero, Spain
Double Railway Bridge Etxebarri, Spain
Bridge Over The Besaya, Spain
Sancho El Mayor Bridge, Spain
Andalucia Bridge, Spain
Bridge Over The Alcantara Reservoir, Spain
"Carlos Fernández Casado" Bridge, Spain
Viaduct V1, V3, V12, Portugal
Loureiro Viaduct, Portugal
Bridge over the Douro River, Portugal
Salgueiro Maia Bridge, Portugal
Viana do Castelo Bridge, Portugal
**International Bridge
over the Guadiana river**, Portugal
Cabrum Viaduct, Portugal
Toirinhas Viaduct, Portugal

Harbor Bridge, Corpus Chisti, USA
Vidanta Footbridge, México
Conagua Viaduct, México
Torre Chiapas Viaduct, México
Barra Vieja Bridge, México
Vidalta Bridge, México
San Sebastián Bridge, México

**Bridge over
the Douro river**
Portugal

**Bridge over
the Cádiz bay**
Spain

New Central Highway, Perú
Huallaga Bridge, Perú
Chamorro and Salitral Bridge, Perú
Maranura Bridge, Perú
Juan Pablo Bridge over Ozama River, Dominican Republic
Fourth Bridge over the Panama Canal, Panama
Third Bridge over the Panama Canal, Panama
Viaduct over the Magdalena River, Colombia
Herradura Bridge, Yarumo Blanco, Colombia
Carrera Novena Viaduct, Colombia
New Pumarejo Bridge, Colombia
Bridge over the Daule River, Colimes, Ecuador
Bridge over Todos los Santos Bay, Itaparica, Brazil
Tiquina Bridge, Bolivia
Bridge over the Mamoré River, Bolivia
New General Carrera Bridge, Chile
Raúl Martín Balmaceda Bridge, Chile
Amolanas Viaduct, Chile
Bridge over the Cau-Cau River, Chile

Anyos Bridge, Andorra
Dels Dos Valires Tunnel, Andorra
New Ross Bridge, Ireland
Bridge Over The River Suir, Ireland
Lowry Bridge, United Kingdom
Corso Argentina bridge, Italy
Bridge Over The River Arno, Italy
Basarab Bridge, Buchares, Romania
Vidin Calafat Bridge, Romania-Bulgaria
Ganterbrücke, Switzerland
CBT – Nodo di Camorino / Viadotto Lugano-Bellinzona, Switzerland

**Bridge over
the Jinjiang river**
China

Rajagiriya Bridge, Sri Lanka
Cebu-Cordova Link Expressway, Philippines
Friendship Bridge over the South China Sea, China

Tahliya Bridge, Saudi Arabia
Majid-Sary Intersection Bridge, Saudi Arabia
Bay La Sun Bridge B2, Saudi Arabia
Old Makkah Road Bridge, Saudi Arabia
Gibraltar Strait Bridge, Spain Morocco
Bizerte Bridge, Tunisia
Zarqa College Bridge, Jordan

Our Expertise

Continuous innovation and cutting-edge technology are the firm's hallmarks



In the image
Bridge over the Tagus river
Cáceres, Spain

Client
ADIF
Construction
Copisa-Copasa
Services

Conceptual Design
Detailed Construction Design
Construction Engineering
Technical Site Supervision - QA/QC

Main Span: 324 m.

A Multidisciplinary Approach

ARX delivers comprehensive design solutions tailored to each client's specific needs.

By integrating expertise from various fields—such as Advanced Structural design, local and landscape analysis, cultural conditions, aesthetic aspects and cost optimization—we take a multidisciplinary approach to problem-solving.

This foundation allows ARX to implement its designs using the most advanced techniques and technologies.

Environmental Aspects

ARX is committed to reducing environmental impact, finding sustainable solutions, and integrating resilient infrastructure.

Specialisations of Design

We are specialists in large & complex structures:

- Long span bridges
- Viaducts
- Overpasses and underpasses
- Railway or high-speed rail viaducts
- Pedestrian and cyclist footbridges
- Rehabilitation of historical bridges

Main typologies

- Cable-stayed & Extradosed bridges
- Suspension bridges
- Arch bridges
- Girder & Slab & Frame bridges
- Movable bridges
- Truss bridges

Highly specialized team

For over 70 years, we have cultivated a powerhouse of expertise—a distinguished group of professionals renowned for tackling the most complex structural challenges.

Among them are Bridge Professors, distinguished University Scholars, National Engineering Award laureates, esteemed Academicians of Fine Arts, and active contributors to top national and international technical committees.

Their groundbreaking work has not only advanced the field, but has also garnered widespread recognition through numerous prestigious awards.

Services

Preliminary Studies and Consulting

- Technical and economic feasibility analysis
- Alternative solutions
- Bid and tender support.

Structural Design & Engineering

- Conceptual, preliminary and Detailed design
- BIM modelling and Value engineering
- Seismic and wind-resistant design
- Structural and cost optimization

Construction engineering support

- Erection engineering and Shop drawings
- On-site and remote technical assistance
- Structural issue resolution
- As-built documentation
- Materials quality control.

Assessment and Maintenance

- Inspections and Load capacity evaluations
- Structural rehabilitation.

Complementary Services

- Independent supervision of international projects
- Specialized studies
- Multidisciplinary coordination

Key person



Borja Martín Martínez
Bridge business development
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Edourad Renneville
Bridge business development
edouard.renneville@arx.ing



In the image
Rose Fitzgerald Kennedy Bridge
New Ross, Ireland.

Client
BAM - Iridium - PPP
Construction
BAM - Dragados
Services
Support Tender Design
Detailed Construction Design
Construction Engineering*
Technical Site Supervision - QA/QC*

Main Span: 230 m.

*in JV with ARUP

FIB 2022
Outstanding Concrete
Structure Award
IABSE 2021
Outstanding Structure
Award



**Bridge over
Guadiana river**

**Detailed Construction
Design**
Country
Portugal - Spain
Client
IP - Infraestruturas de Portugal
Time frame
1985 - 1991



**New Harbor
Bridge**

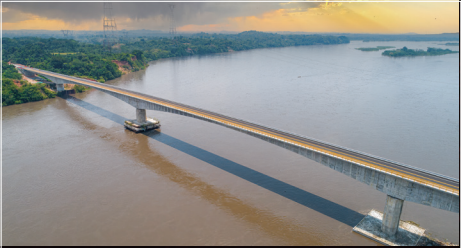
**Construction Engineering
ARUP & CFC ARX**
Country
USA
Client
Flatiron Dragados
Time frame
2020 - 2025



**Vidalta
Bridge**

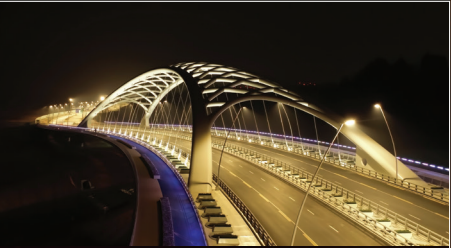
Detailed Construction Design
Country
México
Client
Mexpresa
Time frame
2008 - 2013

Iconic projects



**Bridge over
Magdalena River**

Detailed Construction Design
Country
Colombia
Client
OHLA Colombia
Time frame
2018 - 2020



**East
Bridge**

Conceptual & Preliminary Design
Country
China
Client
Smedi
Time frame
2021 - 2023

The project

The Gordie Howe International Bridge is a six-lane cable-stayed crossing spanning 1.5 miles (2,4 km), with a record 0.53-mile (0.85 km) clear span—the longest in North America. It connects the US and Canada via approach bridges linking the Ports of Entry, ensuring smooth traffic flow. Designed for sustainability and accessibility, it includes a multi-use path for pedestrians and cyclists. Once completed, it will be the longest composite span in the world.

Linking Lands

In the image:
Gordie Howe International Bridge

- Key data**
- Total length: approx. 2.5 kilometres
 - Main Span: 853 m- the longest main span of any cable-stayed bridge in North America.

Country
USA - Canadá

Time frame
2016 - 2025

Client
AECOM
Final client: WDBA
(Windsor Detroit Bridge Authority)

- Services***
- Tender Advisor
 - Detailed Construction Design
 - Construction Engineering
 - Technical Site Supervision - QA/QC

* services with partners

Keep in touch

Follow us



CFC

an ARX company



JLCM

ARX

Since the integration CFC and JLCM, ARX's capabilities in the field of complex bridges have been strengthened and enhanced.

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cfcsl.com
jlcml.pt
arx.ing