THE COMPANY

• Structural consulting specialized in bridge design and analysis.
• Created in 1999 by Juan José Arenas.
  Headquarters in Santander, Spain.
  Offices in Madrid (Spain), Lima (Peru), Bogotá (Colombia) and Buenos Aires (Argentina).
• Juan José Arenas was Dr. Civil Engineer, Chair of Bridge Design at the University of Cantabria, and had over 50 years experience in bridge engineering design.
• Our aim is the Structural Architecture: Aesthetics through structural authenticity to achieve the maximum formal expressiveness.
• Philosophy applied in over 300 projects of bridges, footbridges and signature structures, in Spain and all over the world.
• Multidisciplinary team of over 40 professionals.

MAIN ACTIVITIES

• Conception and Design of Signature Bridges.
• Control and Supervision on Site.
• Cost Estimation and Quality Management.
• Independent check.
• Technical Advice, Assistance and Calculation.
• Footbridges and Wood Structures Design.
• Rehabilitation of Historical Bridges.
• Tensile Structures and Textile Covers Definition.
• Challenging Singular Buildings Achievement.
• Research Projects Development.

PRINCIPAL AWARDS

• 2018 ACI Excellence Award
  (infrastructures category + overall winner)
  Viaduct over River Almonte
  2018 ACI Convention. Las Vegas, USA.
• 2018 fib Award for an Outstanding Concrete Structure
  (special mention)
  Viaduct over River Almonte
  fib Congress. Melbourne, Australia.
• 2018 IABSE Outstanding Structures Award (finalist)
  Viaduct over River Almonte
  40th IABSE Symposium. Nantes, France.
• 2017 ENR Global Best Project
  (bridge/tunnel category)
  Viaduct over River Almonte
  2017 Global Construction Summit. New York City, USA.
• 2017 IABSE Award of Merit in Structural Engineering
  Juan José Arenas.
  39th IABSE Symposium. Vancouver, Canada
• 2017 3rd ACHE Engineering Award (2nd prize)
  Viaduct over River Almonte
  VI ACHE Congress. La Coruña, Spain.
• 2017 Gustav Lindenthal Medal
  Viaduct over River Almonte
  International Bridge Conference. Washington, EEUU.
• 2017 fib Achievement Award for Young Engineers
• 2016 Laureate Engineer
  Juan José Arenas. Royal Academy of Engineering. Spain.
• 2015 Bridge Design Award
  Juan José Arenas. Bridge Engineering Association
  8th New York City Bridge Conference, USA.
• 2010 fib Award for an Outstanding Concrete Structure
  The Third Millennium Bridge
  fib Congress. Washington, USA.
• 2009 Gustave Magnel Gold Medal
  Juan José Arenas. University of Ghent, Belgium.
• 2011 1st ACHE Engineering Award
  The Third Millennium Bridge
  IV ACHE Congress. Barcelona, Spain.
• IV Alcántara Bridge International Award
  La Regenta Arch Bridge
  Madrid, Spain.
• 1993 ECCS European Award for Steel Structures
  La Barqueta Bridge
  Brussels, Belgium.
Arenas & Asociados, founded by Professor J.J. Arenas, is specialized in signature urban bridges and special structures, and it continues to prove it over the years with its designs.

All of our work is dominated by the search of the highest level of formal expressivity and aesthetic values, based on the functionality and resistance of the chosen structural schemes. We develop conceptual, engineering and architectural designs, from its first draft through the following stages of the project and project management, up to the end of site construction.

We are committed to achieve the maximum quality in every work we do, no matter the size of the challenge, and this exigency is reached only based on day to day continuous and persistent work and faithfulness to the principles of our policy, which lie in the search of quality itself. What is the meaning of quality when applied to bridges? The meaning of this word is a concept that necessarily rests on a broad base of structural soundness, and that is made up of different purposes, like high internal integration of its members, clear geometry, good proportions, optimum internal rhythms, etc. These are internal values that a new construction must offer by itself, but other essential values like its integration in the particular landscape, and the respectful consideration to the history and traditions of the site should be added from the very start.

Our design approach is based on the concept of Structural Architecture* defined by Professor Arenas, and implies the careful design of everyone its constituent members looking for their bests from and performance, as the last and unavoidable task to be made. So, it is true that the beauty of the bridge must rest on its structural soundness, but at the same time, structural soundness does not guarantee by itself any kind of aesthetic values in the finished work. The designer must search the beauty of the bridge with full consciousness, interest, perseverance, and honesty. Honesty referring to the authenticity of the designed bridge.

As a result we firmly believe in the geometric pureness and the structural soundness derived from the practice of Structural Architecture as the basic quality for a good design but also as the tool helping us to offer projects with significant and original values, and finally, with authentic cultural and artistic significance.

*Structural Architecture

Art of conceiving and organizing engineering constructions in order to reach highest level of resisting functionality and formal expressiveness. The conditions for a project to be considered Structural Architecture (SA) are the authenticity and structural meaning of its shapes, together with the aesthetical care for details. As SA if based in structural concepts and puts value into resisting mechanisms, the scientific education of the engineer seems indispensable to practice it.

Final sense of SA is to integrate the work engineers in the humanist culture in search for beauty and harmony, inserting itself in today’s landscape and environmental consciousness stream. Honesty forbids justifying fancy caprice projects, or forced and unnecessarily striking constructions, as results of SA. This conception demands, unquestionably, a superior project effort, and no routine. But, on the other hand, the resulting cost paid by society to construct the work conceived under this spirit, does not have to be greater than that of works born out of projects undertaken with no particular excelling spirit.

Seville, Spain

**LA BARQUETA BRIDGE**
*(EXPO’92 ACCESS FOOTBRIDGE)*

Property: Seville City Council

Project: Juan José Arenas (A&A), M. Pantaléon

Project Management: Juan José Arenas (A&A), M. Pantaléon

Length: 198.8 m. Width: 21.4 m. Main Span: 168 m

Contractor: CJV Auxini - Ensidesa

Construction Date: 1988/89

Works: Entire Project, Project Management and Site Supervision
Basque Country, Spain

LA ARENA VIADUCT

Property: Vizcaya Regional Government
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Juan José Arenas (A&A), M. Pantaléon
Length: 666.9 m. Width: 27.3 m. Main Span: 105.3 m
Contractor: CJF Ferrovial - Urssa
Construction Date: 1989
Works: Entire Project, Project Management and Site Supervision
Barcelona, Spain

**POTOSÍ BRIDGE**

Property: Barcelona City Council
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Juan José Arenas (A&A), M. Pantaléon
Length: 137.9 m. Width: 34 m. Main Span: 75.9 m
Contractor: Comsa
Construction Date: 1989
Works: Entire Project, Project Management and Site Supervision
Pamplona, Spain

**LAS OBLATAS BRIDGE**

Property: Pamplona City Council
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Juan José Arenas (A&A), M. Pantaléon
Length: 54 m. Width: 22 m. Main Span: 50 m
Contractor: Dragados
Construction Date: 1991/92
Works: Entire Project, Project Management and Site Supervision
La Coruña, Spain

BETANZOS VIADUCT

Property: AP-9 Atlántico Highway
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Juan José Arenas (A&A), M. Pantaléon
Length: 1054 m. Width: 23 m. Main Span: 150 m
Contractor: CJV Ocs - Necso
Construction Date: 1993
Works: Entire Project, Project Management and Site Supervision
Asturias, Spain

LA REGENTA ARCH BRIDGE

Property: Spanish Ministry of Infrastructures
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Juan José Arenas (A&A), M. Pantaléon
Length: 382 m.  Width: 12 m.  Main Span: 190 m
Contractor: Ferrovial
Construction Date: 1996
Works: Entire Project, Project Management and Site Supervision
Madrid, Spain

**EL BARRIAL BRIDGE**

Property: Madrid City Council

Project: Juan José Arenas (A&A), M. Pantaléon

Project Management: Juan José Arenas (A&A), M. Pantaléon

Length: 104.8 m. Width: 23.3 m. Main Span: 82.7 m

Contractor: ACS

Construction Date: 1999

Works: Entire Project, Project Management and Site Supervision
Valladolid, Spain

**HISPANOAMÉRICA BRIDGE**

Property: Castilla-Leon Government, Valladolid City Council

Project: Juan José Arenas (A&A), M. Pantaléon

Project Management: Arenas & Asociados

Length: 156 m. Width: 35 m. Main Span: 120 m

Contractor: CJV Ferrovial - Zarzuela

Construction Date: 1999

Works: Entire Project, Project Management and Site Supervision
Barcelona, Spain

**PORTA D’EUROPA BASCULE BRIDGE**

Property: Barcelona Harbour Authority  
Project: Juan José Arenas (A&A), M. Pantaléon  
Project Management: Arenas & Asociados  
Length: 137 m. Width: 13 m. Main Span: 109 m  
Contractor: CJV FCC - Guinovart  
Construction Date: 2000  
Works: Entire Project, Project Management and Site Supervision
Salamanca, Spain

**FELIPE VI BRIDGE OVER RIVER TORMES**

Property: Castilla-Leon Regional Government, Salamanca City Council
Project: Juan José Arenas (A&A), M. Pantaléon
Project Management: Arenas & Asociados
Length: 210 m. Width: 20 m. Main Span: 50 m
Contractor: Dragados
Construction Date: 2000
Works: Entire Project, Project Management and Site Supervision
Madrid, Spain

EL CORTE INGLÉS FOOTBRIDGE

Property: Hipercor S.A.
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 42 m. Width: 10.5 m. Main Span: 42 m
Contractor: Dragados
Construction Date: 2003
Works: Entire Project, Project Management and Site Supervision
Las Rozas de Madrid, Spain

LAS ROZAS GATE BRIDGE

Property: Las Rozas City Council
Project: Arenas & Asociados - IDOM
Project Management: IDOM - Arenas & Asociados
Length: 136 m. Width: 22 m. Main Span: 102 m
Contractor: Ferrovial
Construction Date: 2005/06
Works: Entire Project, Project Management and Site Supervision
Logroño, Spain
LA CAVA FOOTBRIDGE

Property: Logroño City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 75.6 m. Width: 3.8 - 7 m. Main Span: 61 m
Contractor: Ferrovial
Construction Date: 2006
Works: Entire Project, Project Management and Site Supervision
CANTABRIA SCIENCE PARK BRIDGE
(PCTCAN BRIDGE)

Property: PCTCAN
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 97 m. Width: 21 m. Main Span: 72 m
Contractor: Ascan
Construction Date: 2006/08
Works: Entire Project, Project Management and Site Supervision
Zaragoza, Spain

**DELICIAS FOOTBRIDGE**

Property: Zaragoza Alta Velocidad
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 250 m.  Width: 5 m.  Main Span: 90 m
Contractor: CJV Ferrovial - Ocinsa
Construction Date: 2007/08
Works: Entire Project, Project Management and Site Supervision
THIRD MILLENNIUM BRIDGE

Property: Zaragoza Alta Velocidad
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 270 m  Width: 43 m  Main Span: 216 m
Contractor: Dragados
Construction Date: 2005/08
Works: Entire Project, Project Management and Site Supervision
San Sebastian, Spain

6th BRIDGE OVER RIVER URUMEA
(REAL SOCIEDAD BRIDGE)

Property: San Sebastian City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 80 m. Width: 20.5 m. Main Span: 30 m
Contractor: CJV Galdiano - Tecsa
Construction Date: 2009
Works: Entire Project, Project Management and Site Supervision
ABROÑIGAL VIADUCT
(HSR MADRID - TORREJÓN DE VELASCO)

Property: Adif
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 144.5 m. Width: 14 m. Span: 53.5 m
Contractor: Aldesa
Construction Date: 2009/10
Works: Entire Project, Project Management and Site Supervision
Santander, Spain

LAS LLAMAS BRIDGE
(JUAN JOSÉ ARENAS BRIDGE)

Property: Santander City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 102 m. Width: 24 m. Main Span: 102 m
Contractor: Isolux Corsán
Construction Date: 2010/11
Works: Entire Project, Project Management and Site Supervision
Asturias, Spain

SOTO DE RIBERA BRIDGE

Property: Asturias Government
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 186 m. Width: 11.7 m. Span: 98 m
Contractor: Isolux Corsán
Construction Date: 2010/11
Works: Entire Project, Project Management and Site Supervision
Valladolid, Spain

**SANTA TERESA BRIDGE**

Property: Valladolid City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 194 m. Width: 28.3 m. Main Span: 90 m
Contractor: CJV FCC - Isolux Corsán
Construction Date: 2011

Works: Entire Project, Project Management and Site Supervision
Vizcaya, Spain
ARTUNDUAGA BRIDGE
Property: Basauri City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 56 m. Width: 16.7 m. Span: 54 m
Contractor: Exbasa
Construction Date: 2011
Works: Entire Project, Project Management and Site Supervision
Bilbao, Spain

LIFT BRIDGE OVER NERVIÓN STUARY
(LEIOA - URBINAGA TRAMWAY LINE)

Property: ETS - Euskal Trenbide Sarea
Project: Arenas & Asociados
Length: 1388.5 m. Width: 12 m. Span: 161.1 m
Contractor: To be Announced
Construction Date: To be Announced
Work: Competition Winning Proposal, Conceptual Design and Detailed Design
FOOTBRIDGE RECONSTRUCTION AT ST. ELMO DOCK
(BREAKWATER FOOTBRIDGE)

Valletta, Malta

Property: Transport Malta
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Length: 72 m. Width: 6 m. Span: 70 m
Contractor: Vasallo Builders
Construction Date: 2011/12
Works: Entire Project, Project Management and Site Supervision
Chilina Bridge

Property: Arequipa Regional Government
Project: Arenas & Asociados
Construction Engineering: Arenas & Asociados
Length: 562 m  Width: 24.6 m  Span: 157 m
Contractor: CJV Isolux Corsán - Metric - Incot
Construction Date: 2013/14
Work: Entire Project and Technical Assistance to Contractor
Oviedo, Spain

LA FLORIDA BRIDGE

Property: Oviedo City Council
Project: Arenas & Asociados
Project Management: Arenas & Asociados
Width: 14 m. Railway Clearance: 6.4 m
Contractor: Assignia Infraestructuras
Construction Date: 2012/15
Works: Entire Project, Project Management and Technical Assistance to Contractor
Bilbao, Spain

**ZORROTZAURRE BRIDGE**  
*(FRANK GEHRY BRIDGE)*

Property: Bilbao City Council  
Project: Arenas & Asociados  
Construction Engineering: Arenas & Asociados  
Length: 168 m. Width: 27 m. Span: 76.9 m  
Contractor: CJV Urssa - Balzola - Viuda de Sainz  
Construction Date: 2014/15  
Works: Entire Project and Technical Assistance to Contractor
Cáceres, Spain

ALMONTE VIADUCT
(HIGH SPEED RAILWAY MADRID - LISBON)

Property: Adif
Project: Arenas & Asociados - IDOM
Project Management: Arenas & Asociados IDOM
Length: 996 m. Width: 14 m. Main Span: 384 m
Contractor: CJV FCC - Conduril
Construction Date: 2011/16

Works: Entire Project, Project Management and Site Supervision
Cáceres, Spain

ALMONTE VIADUCT
(HIGH SPEED RAILWAY MADRID - LISBON)

GUSTAV LINDENTHAL MEDAL
Jeddah, Kingdom of Saudi Arabia

OBHUR CREEK BRIDGE

Property: Metro Jeddah Co.
Tender Design: Arenas & Asociados - sbp
Length: 620 m. Width: 74.5 m. Main Span: 200 m
Tender Dialogue: 2015/16.
Tender Leader: CJV Salini Impregilo - Cimolai
Construction: Postponed
Contractor appointed: CJV OHL - CCC
Works: Tender Design
Farafenni - Soma, Gambia

**TRANSGAMBIA BRIDGE**

**Property:** NRA Republic of the Gambia

**Project:** Arenas & Asociados

**Length:** 942 m.  **Width:** 26.2 m.  **Main Span:** 100 m

**Contractor:** Arezki

**Construction Date:** 2016/On going

**Works:** Modified Project and Engineering Services to Contractor
Buenos Aires, Argentina

**PASEO DEL BAJO JUNCTION STRUCTURES**

**Property:** AUSA

**Project:** Arenas & Asociados

**Length:** 3900 m.  **Width:** variable.  **Main Span:** 40 m

**Contractor:** Isolux Corsán (rescinded); CJV Coarco-JCR

**Construction Date:** 2017/On going

**Works:** Entire Project and Engineering Services to Contractor
Barranquilla, Colombia

GRAN MALECÓN MOVABLE BRIDGE

Property: EDUBAR
Project: Arenas & Asociados
Length: 73.45 m. Width: 22 m. Main Span: 35 m
Contractor: Jacur & cia ltda.
Construction Date: 2018/On going
Works: Conceptual Design and Detailed Design
Falster - Masnedø, Denmark

STORSTRØM BRIDGE

Property: DK Vejdirektoratet
IC Team: Arenas & Asociados - sbp - MGC
Length: 3840 m. Width: 26.2 m. Main Span: 160 m
Tender: 2016/17. Tender Leader: CJV OHL - SK E&C
Construction: 2018/On going
Contractor appointed: CJV Itinera - Condotte - Grandi Lavori
Works: Tender Design and Independent Check & Engineering Services