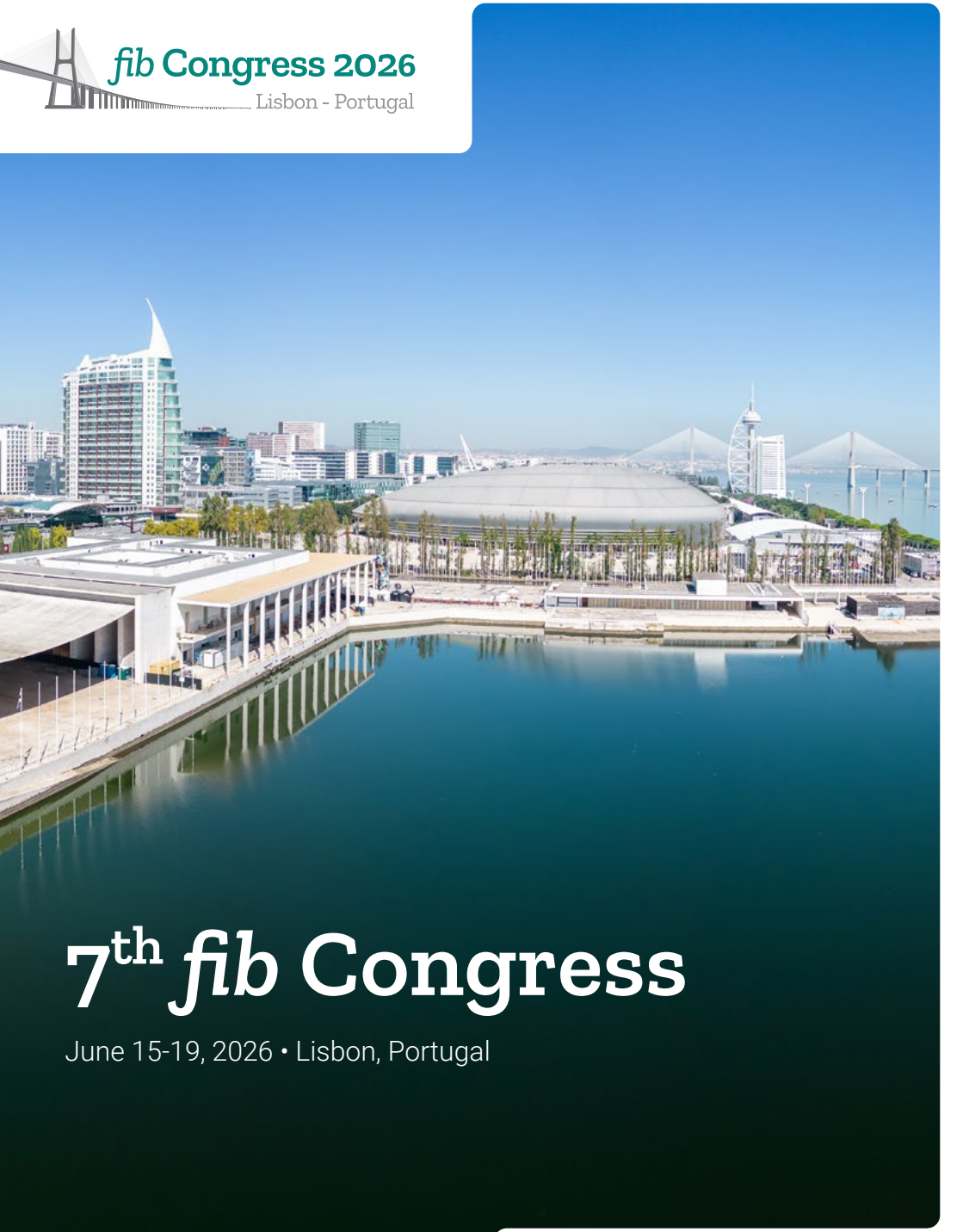
fib Congress 2026
Lisbon - Portugal



7th *fib* Congress

June 15-19, 2026 • Lisbon, Portugal

CONGRESS GUIDE

fib CEB-FIP
GPBE *fib* Portugal
TÉCNICO UNIVERSIDADE DE LISBOA

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1. Message from the President of *fib*

The theme of this Congress, "Structural Concrete 2050: Towards Carbon Neutrality, AI Design, and Robotic Construction," comes at a time when world transformations are converging into a shared vision that is redefining the future of the built environment. Together, they challenge us to rethink not only how we build, but why and for whom we build, opening space for new models that are more intelligent, more responsible, and more connected to the realities of our time. More importantly, they empower us to align performance with purpose, ensuring that efficiency and sustainability are not competing priorities, but complementary goals.

We are entering an era in which data, technology, and environmental awareness are reshaping decision-making at every level. Digitalisation is no longer just a tool; it is becoming a language through which we understand complexity, simulate possibilities, and anticipate impacts. Within this transformation, artificial intelligence emerges as a powerful ally, enhancing our ability to process information, identify patterns, and support decision-making. Yes, it is essential to recognise that these technologies are not a replacement for human creativity, but an extension of it. Innovation continues to be driven by human insight, critical thinking, and the capacity to imagine what does not yet exist.

This convergence invites us to move beyond incremental improvements and embrace a more holistic transformation. It encourages us to see projects not as isolated outcomes, but as part of dynamic ecosystems, where materials, energy, information, and people are interconnected. In this evolving landscape, diversity becomes relevant. The growing presence and leadership of women in engineering is not only a matter of equity but a driver of innovation, bringing new perspectives and complementary approaches.

Equally important is the role of institutions and professional organisations in fostering this transformation. The alignment of entities around shared goals, the promotion of knowledge exchange, and the encouragement of collaboration create the basis for a more cohesive and resilient industry. Collective effort is essential to accelerate change and ensure that innovation is effectively translated into practice.

This journey is not defined only by technology. It is driven by people, their curiosity, their willingness to learn and share knowledge, and their openness to collaborate across disciplines and boundaries. Technology can amplify our capabilities, but it is human vision that gives direction and meaning to progress.

This Congress is an opportunity to immerse ourselves in this evolving landscape. To exchange ideas, to challenge assumptions, and to connect with others who are navigating the same transformation. It is a space to reflect on where we are today, and to imagine where we can go together.

fib is an organisation that, by bringing together more than 40 countries, encompasses not only a significant technical community but also the plurality of different cultures, generations, and sectors related to concrete engineering. It is open to debates in the field of structural concrete, where diversity finds its space and complements one another. Our organisation has worked strategically to integrate these themes, promoting the evolution of concrete engineering to meet current challenges.

As we move forward, may each of us leave with an expanded perspective on the role we play in shaping a more sustainable and digitally enabled future. May we carry new knowledge into our daily practice, apply it with intention, and bring it back to the Community, strengthening it, evolving it, and ensuring that this collective journey continues beyond these network opportunities.

We would like to express our gratitude to the chair of the Congress, the General Secretary of *fib*, and their teams for their outstanding work in welcoming us to the Congress in this nice city, Lisbon.

Wishing all participants a very productive time.

Iria Lícia Oliva Doniak
fib President

2. Message from the Chair of the Congress

It is with great pleasure that the GPBE – Portuguese Group for Structural Concrete (*fib* Portugal) and Instituto Superior Técnico (University of Lisbon) welcome all delegates to the 7th *fib* Congress, the flagship event of the International Federation for Structural Concrete, held every four years.

Since November 2024, when GPBE accepted the challenge of organizing this Congress, the Organizing Committee has worked with dedication to develop a comprehensive and memorable programme. Under the theme "Structural Concrete 2050: Towards Carbon Neutrality, AI Design, and Robotic Construction", the Congress aims to foster discussion on sustainability and the opportunities brought by emerging technologies to structural concrete, bridging research and industry and bringing together experts from around 100 countries.

The Congress will take place at Culturgest, whose main auditorium, with a capacity of over 600 participants, will host the Opening and Closing Ceremonies as well as the eight keynote lectures. In addition, a smaller auditorium and six parallel session rooms, distributed over two floors, will accommodate the parallel sessions. In these areas, delegates will also find the Technical Exhibition, where more than 40 sponsors will showcase their products and services.

To accommodate the full programme over four days – including 43 special sessions and 107 parallel sessions – additional sessions will take place at Instituto Superior Técnico, located within a short walking distance from the main venue. The programme also includes several complementary initiatives, such as the Students' Competition at the Structures Laboratory of the Civil Engineering Department, and the exhibition "Portuguese Bridges: A Tribute to Edgar Cardoso", hosted at the same department.

Beyond this privileged forum for technical exchange, the Congress also offers several social events designed to encourage networking and interaction among participants. At the end of the first day, delegates are invited to the Cocktail Reception at the Técnico Innovation Center, a modern venue near the Congress site, where music, light refreshments and an informal atmosphere will provide the perfect setting to reconnect with colleagues and meet new ones. On the third day, the Gala Dinner will take place at the Estufa Fria, a unique venue located in the Lisbon.

The evening will include a presentation celebrating the 60th anniversary of GPBE, the *fib* Awards of Outstanding Structures (AOS) ceremony, and moments of Portuguese cultural expression, including fado and Portuguese guitar performed by a renowned artist.

On the final day, participants may join one of three alternative technical visits: the Vasco da Gama Bridge, focusing on design, construction and maintenance aspects; the Phoenix building, a complex reinforced concrete structure nearing completion; and a set of four fully precast concrete towers at different stages of construction.

This congress guide has been prepared to provide all essential information about the 7th *fib* Congress but delegates are encouraged to complement it with the Congress mobile app. Herein, detailed information on venue, logistics, and practical aspects – including registration, certificates, Wi-Fi access and catering – can be found, as well as suggestions for visiting Lisbon and its surroundings.

Finally, I would like to express my sincere gratitude to the members of the Organising Committee and the *fib* Secretariat for their dedication over the past two years; the keynote speakers and authors for their valuable contributions to the technical programme; the members of the Scientific Committee for the review of more than 1,100 abstracts and over 850 papers; the sponsors for their support and for making the Technical Exhibition possible; and all collaborators involved in supporting the delegates throughout the event.

We wish you a rewarding and inspiring week, both technically and personally – an opportunity to reconnect with colleagues and friends, establish new collaborations, and enjoy the unique atmosphere, culture and gastronomy of Lisbon.

Eduardo Júlio
Chair of the 7th *fib* Congress

3. About *fib*

BACKGROUND

Since their founding in the 1950s, *fib*'s predecessors the CEB (Commission Euro-Internationale du Béton) and the FIP (Fédération Internationale de la Précontrainte) focused their efforts on synthesising research data and practical experience, where available, and translating it into guidance documents for engineers in the construction industry. Where there was a lack of data, the necessary research work was coordinated and carried out. The publication of 243 bulletins by the CEB, and of numerous reports, recommendations, guides to good practice, proceedings from 13 congresses and many symposia by FIP, bears witness to both the volume and efficiency of the work that was achieved in parallel by the two associations from 1952 to 1998.

The CEB and the FIP combined their efforts on several occasions to produce recommendations, for example, in 1963 and 1970, and ultimately, the CEB-FIP Model Codes in 1978 and 1990. The Model Code 1978 had a considerable impact, leading to the harmonisation of many national codes. Furthermore, Eurocode 2 was largely derived from the Model Codes. These results demonstrate the effectiveness of the CEB and the FIP's work to synthesise research and development for practical applications through the publication of bulletins, manuals, guides and model codes.

Following the publication of the CEB-FIP Model Code 1990 and the merger of the two associations in 1998, it was decided that *fib* should continue to focus on selected areas of interest, particularly newly emerging issues, and to prepare state-of-art reports, guidance documents, and where appropriate, including elements for potential inclusion in a future model code.

The first complete draft of the Model Code 2010 was published in the spring of 2010 and submitted to *fib*'s commissions and national member groups for review and comments. Following its approval by the General Assembly in October 2011, *fib* published the final draft of the *fib* Model Code for Concrete Structures 2010 and the hardcover book in October 2013. *fib* has now published the *fib* Model Code (2020). This comprehensive document provides new consensus guidance on developments related to concrete structures and structural materials. It also serves as a foundation for future codes for concrete structures.

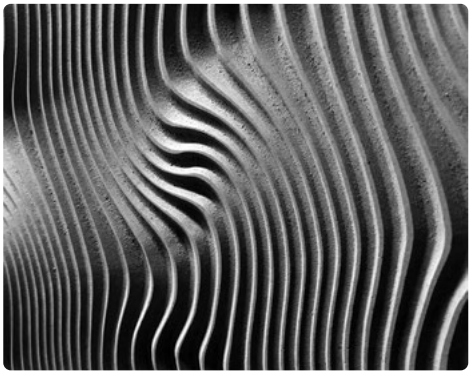
The *fib* Model Code (2020) addresses significant advances across a wide range of topics, including structural design and analysis methods, seismic design and assessment procedures, durability, structural monitoring, service life design, and the assessment and adaptation of existing structures. These adaptations aim to accommodate revised requirements or extend the useful life of structures, ensuring their continued performance.

To keep the Model Code cutting-edge and relevant, the new *fib* Task Group 10.2 "Model Codes Updating" has been established. Rather than waiting a decade for updates, this task group will ensure the Model Code evolves in step with rapid innovations and evolving practices in the field. Maintaining its relevance is essential to fostering innovation and promoting good practice in the industry.

MISSION

The objectives of *fib*, as stated in the association's statutes, are as follows:

- To develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction, through:
- the stimulation of research and the synthesis of findings from research and practice relating to various aspects of structural concrete;
- the promotion of development activities to aid in translating research findings and experience into design and construction practice;
- the dissemination of the results of research and development activities and experience by way of publications, guidance documents and the organisation of international congresses and symposia;
- the production of recommendations for the design and construction of concrete structures, based upon appropriate and relevant performance criteria and environmental considerations, in both regional and international contexts;
- the informing of members on the latest developments in structural concrete through regular publications relevant to the different interest groups within the membership.



OPERATING STRUCTURE

To attain the above objectives, *fib* relies on its national groups and other members and, most importantly, the voluntary work of many individuals.

Under the authority of the Technical Council, ten commissions and the young members group, with their supporting task groups and working parties, are responsible for specifically defined areas in the field of structural concrete.

When a topic is considered by the Technical Council, it is assigned to one or more of the commissions to ensure that, from the outset, all aspects relevant to the overall study are considered and priorities established.

In this way, all potential contributors are identified and can participate in the work. Within the commission(s) an appropriate working programme is established and implemented by the relevant task groups and working parties.

The commission(s) monitor and assess the output from these groups and give approval for the publication of a technical or state-of-art report. Guidance documents, published as guides to good practice or manuals, and recommendations are submitted to the Technical Council. Code documents are approved by the General Assembly.

There are typically about 10-20 members serving on a commission. Membership in a commission is for four years with the possibility of extension.

Members may be suggested by national delegations or invited by the commission chairperson, for endorsement by the Technical Council. Members should be able to actively perform an appropriate technical and/or liaison function within the scope of the commission.

Chairpersons are appointed for a four-year term that can be extended for a further four years. The secretary general and the secretariat provide a certain amount of support to the commissions, but the main responsibility for the efficient administration of a commission's work lies with its chairperson, who liaises with the secretary general.

fib
CEB · FIP

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4. Committees

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5. About Lisbon

The capital and largest city of Portugal, Lisbon is located on the western edge of Europe, along the Atlantic coast. The city lies on the northern bank of the Tagus River estuary, where the river meets the Atlantic Ocean. Lisbon covers an area of approximately 100 km² and has a population of around 550,000 inhabitants, while the metropolitan area extends over roughly 3,000 km² and is home to about 2.8 million people.

BRIEF HISTORY

Lisbon is considered one of the oldest cities in Western Europe. Archaeological evidence indicates human occupation in the region since prehistoric times. According to legend, the city was founded by the Greek hero Ulysses and became known as Olissipo ("enchanted port").

Throughout its early history, Lisbon was influenced by Phoenicians, Greeks, and Carthaginians. However, it was under Roman rule, beginning in the 2nd century BC, that the city gained strategic importance. Renamed Felicitas Julia, Lisbon became one of the principal urban centres of the Roman province of Lusitania.

Following the decline of the Roman Empire in the 5th century, the city experienced successive invasions by Germanic peoples, including the Visigoths. In the 8th century, Lisbon was conquered by the Moors and renamed Al-Ushbuna. Moorish rule lasted until 1147, when Christian forces led by Afonso Henriques, the first King of Portugal, reconquered the city. Lisbon later became the capital of Portugal in 1255.

During the epic Age of Discovery, from the 15th to the 17th centuries, the Enchanted Port proudly served as the primary launch point for Portuguese discovery expeditions. It was from this city that intrepid navigators set sail across the globe. They uncovered new territories in South America and Africa and established a sea route to India. These achievements elevated Portugal to a leading position among European powers, with Lisbon emerging as the continent's most thriving trade hub.

This prosperous period was abruptly interrupted by the devastating earthquake of 1755, followed by a tsunami and fires, which destroyed large parts of the city. Under the leadership of the Marquis of Pombal, Lisbon was rebuilt with wider streets and an innovative urban plan, giving rise to the elegant "Pombalina" downtown area that still characterises the city today. In the 19th century, Lisbon was occupied by Napoleonic forces during the Peninsular War, suffering significant losses and destruction. Later, industrialisation and urban expansion contributed to the city's modernisation.

The early 20th century was marked by major political changes. Following the assassination of King Carlos I in Lisbon in 1908, the Portuguese monarchy collapsed, and the First Portuguese Republic was proclaimed in 1910. Political instability eventually led to the military coup of 1926 and the establishment of the Estado Novo dictatorship in 1933. On 25 April 1974, Lisbon became the centre of the peaceful Carnation Revolution, which ended the dictatorship and restored democracy in Portugal. Since Portugal joined the European Economic Community in 1986, Lisbon has undergone significant economic, social, and urban development. This period marked the city's transformation into a dynamic and modern European capital.

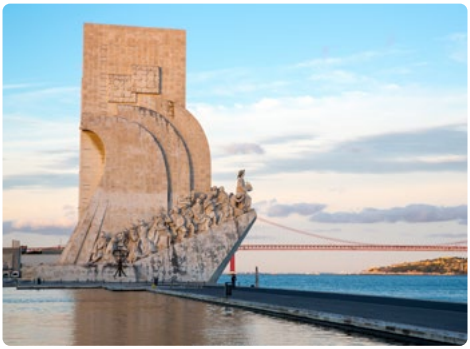
LISBON TODAY

Today, Lisbon is a vibrant and cosmopolitan European capital known for its cultural richness, historic heritage, and high quality of life. The city attracts millions of visitors each year thanks to its mild climate, scenic riverfront, iconic architecture, and dynamic cultural scene.

Historic districts such as Alfama, Baixa, and Bairro Alto showcase a unique blend of Moorish, medieval, and "Pombalina" influences. At the same time, modern developments, particularly in the eastern waterfront area regenerated after Expo '98, reflect Lisbon's contemporary and innovative character.

Lisbon is also internationally recognised for its gastronomy. Traditional Portuguese cuisine, strongly influenced by the country's maritime heritage, includes dishes such as bacalhau (codfish), grilled sardines, seafood specialities, and the famous pastel de nata. From traditional taverns to Michelin-starred restaurants, the city offers a diverse and vibrant culinary experience.

Combining historical heritage with innovation and creativity, Lisbon has successfully balanced tradition and modernity, establishing itself as an attractive destination to live, work, study, and visit.

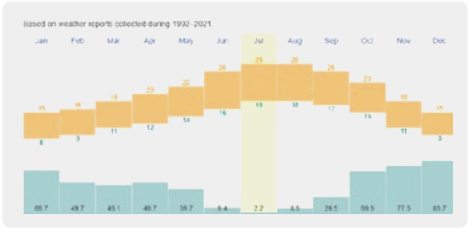


CLIMATE

Lisbon has a Mediterranean climate, characterized by:

- Hot, dry summers: Temperatures often range from 25°C to 35°C (77°F to 95°F) in July and August, with lots of sunshine and little rain.
- Mild, rainy winters: December and January see cooler temperatures, typically between 8°C and 15°C (46°F to 59°F), with most of the annual rainfall occurring during this season.
- Spring and autumn: These are pleasant and mild, with temperatures between 15°C and 25°C (59°F to 77°F) and less rainfall than winter.

Overall, Lisbon enjoys more than 300 sunny days per year, making it one of Europe's sunniest capitals.



6. Traveling to Lisbon

Lisbon Airport (www.lisbonairport.pt/en/lis/home), officially named Humberto Delgado Airport (IATA: LIS), is Portugal's main international gateway, situated just 7 km northeast of Lisbon's historic centre. The airport serves over 35 million passengers annually, currently used by 62 airlines, connecting the city to 147 destinations worldwide, between Europe, South America, Africa, and North America, making it one of Europe's busiest airports.

The easiest and most efficient way to reach the congress venue - Culturgest - from Lisbon Airport is by using the Lisbon Metro (www.metrolisboa.pt).

Take the Red Line (Linha Vermelha) from 'Aeroporto' station to 'Saldanha' station. The journey includes (Walking route on Google Maps)

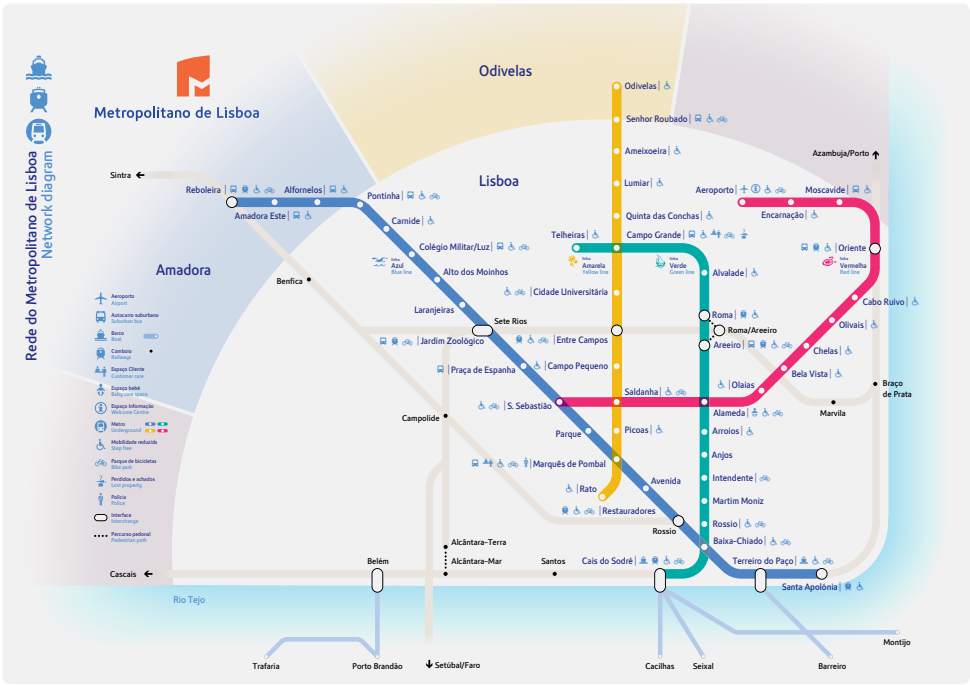
- 10 stops on the metro (approx. 18 minutes)
- A 13-minute walk from 'Saldanha' station to Culturgest

Alternative (Red Line (Linha Vermelha) + Yellow Line (Linha Amarela) from 'Aeroporto' station to 'Campo Pequeno' station):

- 10 stops on the metro (approx. 18 minutes)
- Get off at 'Saldanha' station and get Yellow Line Direction to 'Odivelas' (approx. 2 minutes walking)
- 1 stop on the metro (approx. 2 minutes)
- A 6-minute walk from 'Campo Pequeno' station to Culturgest

Metro Fare: €1.90 for a single journey + plus €0.50 for a *navegante®* occasional card (reusable electronic card).

You can use either a *navegante®* card (personalized or occasional) loaded with valid tickets, or a contactless bank card for payment. The *navegante®* card is also valid on other public transport, including buses.



7. Map of the City and Points of Interest

Monuments and historical landmarks

1. Belém Tower
2. Jerónimos Monastery
3. Monument to the Discoveries
4. Saint George's Castle
5. National Pantheon
6. Pier of the Columns
7. Lisbon Cathedral
8. Augusta Street Arch
9. Rossio Station
10. Glória Funicular
11. Basilica of Estrela

Historic neighborhoods and more places of interest

1. Rossio Square
2. Figueira Square
3. Commerce/Palace Square
4. Chiado
5. Bairro Alto
6. Alfama
7. Liberdade Avenue
8. LxFactory
9. Lisbon Oceanarium

Museums

1. National Tile Museum
2. Museum of Art, Architecture and Technology (MAAT)
3. National Coach Museum
4. Belém Cultural Centre (CCB)
5. National Museum of Archaeology
6. Nacional Museum of Contemporary Art (MNAC)
7. Gulbenkian Modern Art Centre
8. Carmo Archaeological Museum

Viewpoints and riverfront

1. São Pedro de Alcântara Viewpoint
2. Santa Luzia Viewpoint
3. Portas do Sol Viewpoint
4. Senhora do Monte Viewpoint
5. Graça Viewpoint
6. Santa Justa Lift
7. Ribeira das Naus Avenue
8. Pilar 7 - 25 de Abril Bridge Experience
9. Park of the Nations

Historical gardens

1. Botanical Garden of Lisbon
2. Empire Square Garden
3. Tropical Botanical Garden
4. Gardens of the Calouste Gulbenkian Foundation
5. Eduardo VII Park
6. Estufa Fria
7. Estrela Garden

7th *fib* Congress Places

- Culturgest
- Instituto Superior Técnico (IST)
- Técnico Innovation Center (TIC)
- Estufa Fria

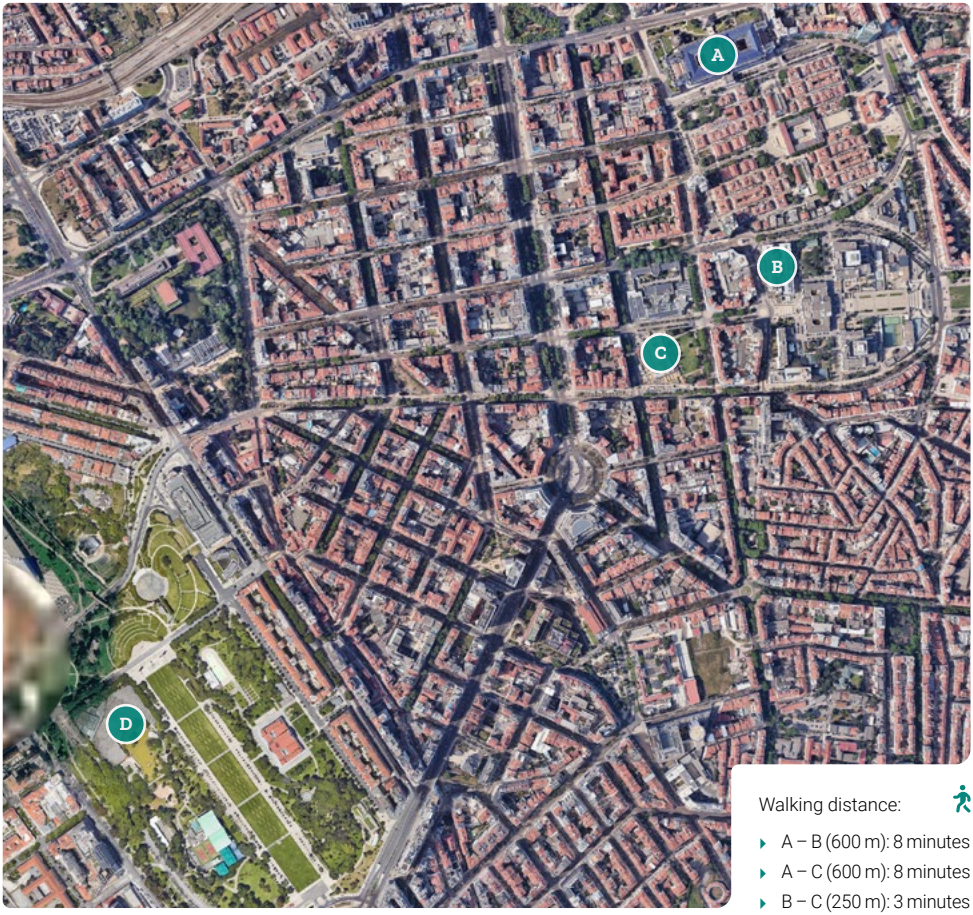
GoogleMaps

google.com/maps/d/u/0/edit?mid=1_owxQ9FLZRJegg6e-folW1Ijt0G3UQy8&usp=sharing

8. Venue

The 7th *fib* Congress will be mainly hosted at **Culturgest (A)**, located in the heart of Lisbon and just a short walking distance from Técnico – University of Lisbon. The venue benefits from excellent public transport connections and offers fully equipped facilities ideal for large scientific events. Its experienced staff regularly supports major cultural and academic initiatives, including film festivals, exhibitions, and conferences.

Some activities of the Congress will take place in additional venues: *fib* meetings, specific parallel sessions, Student's Competition, some Sponsors' booths and the Exhibition 'Portuguese Bridges. A Tribute to Edgar Cardoso' will be held at **Técnico's Civil Engineering Building (B)**; the Cocktail Reception will take place at the **Técnico Innovation Centre – TIC (C)**; and, the Gala Dinner at **Estufa Fria (D)**.



Walking distance:

- A – B (600 m): 8 minutes
- A – C (600 m): 8 minutes
- B – C (250 m): 3 minutes

A **CULTURGEST**
June 15-18 · Main Venue

R. Arco do Cego 50
1000-300 Lisboa
GPS: 38°44'27.66"N 9°08'33.56"W
GoogleMaps: maps.app.goo.gl/pecY3xTNusVdNJYg9

B **TÉCNICO, UNIVERSITY OF LISBON**
June 13-18 · *fib* Meetings, Specific parallel sessions, Student's Competition

Av. Rovisco Pais
1049-001 Lisboa
GPS: 38°44'14"N 9°08'23"W
GoogleMaps: maps.app.goo.gl/abiTHt2yyMDhydoM6

C **TÉCNICO INNOVATION CENTRE (TIC)**
June 15 · Cocktail Reception

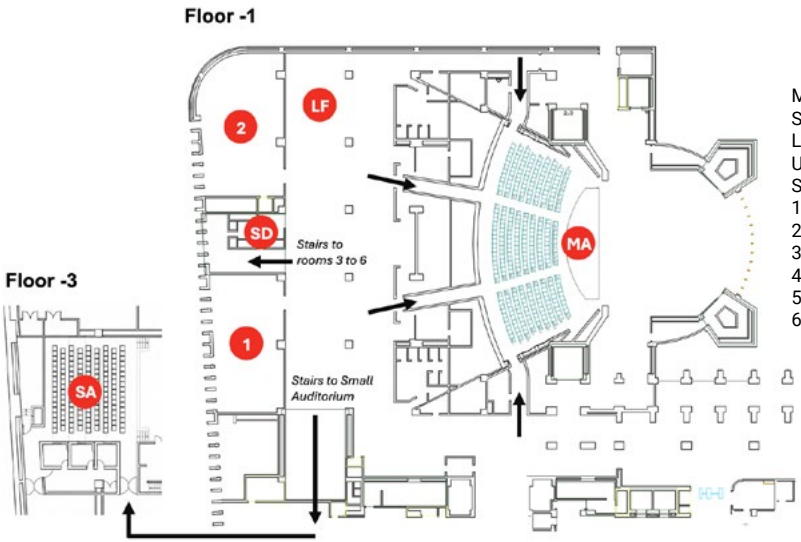
Av. Duque de Ávila, 417
1000-135 Lisboa
GPS: 38°44'07"N 9°08'33"W
GoogleMaps: maps.app.goo.gl/4y3BpBM8KP8QpJ4x8

D **ESTUFA FRIA**
June 17 • Gala Dinner

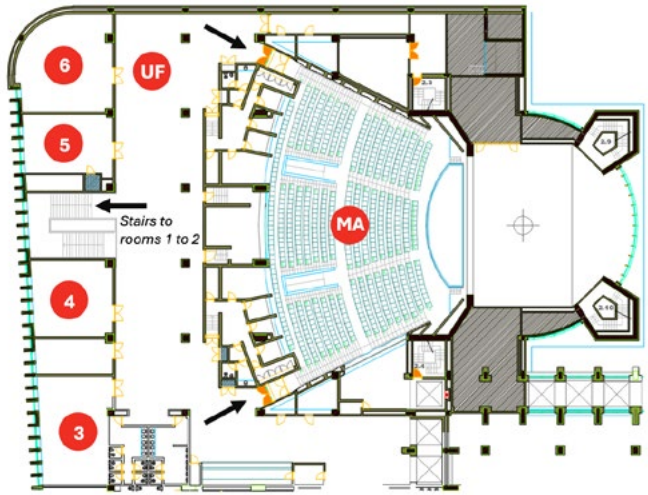
Parque Eduardo VII
1070-051 Lisboa 1300-598 Lisboa
GPS: 38°43'43.49"N 9°09'18.44"W
GoogleMaps: maps.app.goo.gl/A4NTxF7yLgJxk4VU6

MAPS OF

A **CULTURGEST**
June 15-18 · Main Venue



MA. Main Auditorium
SA. Small Auditorium
LF. Lower level foyer
UF. Upper level foyer
SD. Slide Desk
1. Room 1
2. Room 2
3. Room 3
4. Room 4
5. Room 5
6. Room 6



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1. Room 1
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3. Room 3
4. Room 4
5. Room 5
6. Room 6

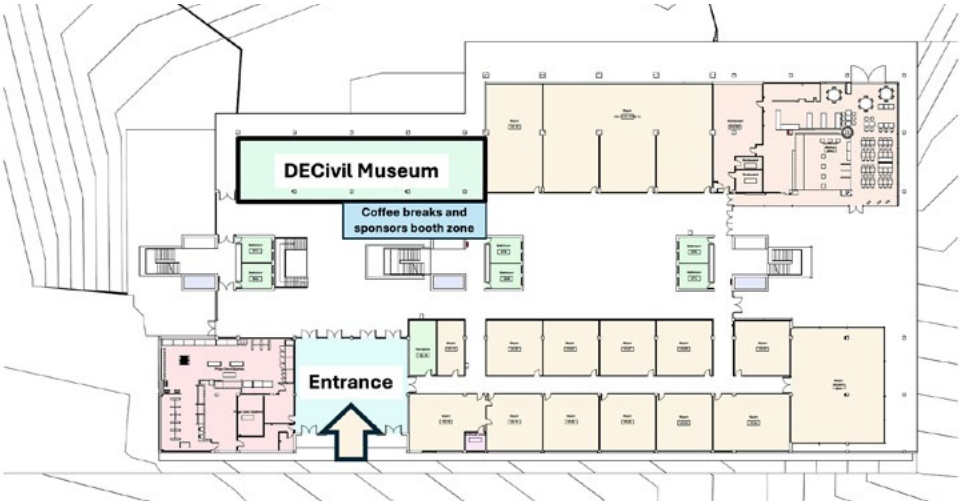
MAPS OF

B TÉCNICO, UNIVERSITY OF LISBON

June 13-18 · *fib* Meetings, Specific parallel sessions, Student's Competition

Floor -1

Floor 0



TÉCNICO
UNIVERSIDADE
DE LISBOA

Floor 1

Floor 2

9. Congress Format

The 7th *fib* Congress 2026 will bring together researchers, engineers, designers, contractors, consultants, manufacturers and infrastructure owners from around the world to discuss the latest developments in structural concrete and related technologies. The Congress will cover all aspects of concrete structures and construction, with particular emphasis on innovation, sustainability, resilience, digitalisation, durability, structural assessment, strengthening and rehabilitation, advanced materials, precast construction, seismic engineering, bridges, buildings, underground structures, design codes, case studies and emerging challenges facing the construction sector.

The **Opening Ceremony** will be immediately followed by the ***fib* Awards Ceremony**, during which the recipients of the ***fib* Fellow 2026 distinction** (recognising involvement in *fib* and contributions to the goals of *fib*), the ***fib* Honorary Membership 2026 distinction** (recognising significant personal contributions to the work of *fib*) and the ***fib* Freyssinet Medal 2026** (recognising outstanding technical contributions in the field of structural concrete) will be celebrated.

Keynote Sessions will be delivered by renowned experts in the various themes of the symposium and will present the most innovative findings from their ongoing work. Each keynote lecture will have a duration of 45 minutes.

Parallel Sessions will consist of groups of presentations and discussions on research, development, and application studies within the field of structural concrete. **Special Sessions** will complement the regular conference programme, providing an opportunity to focus on specific emerging topics within the conference scope. Each contribution to Parallel and Special Sessions will include a full paper of up to ten pages, a 12-minute presentation, and a discussion of up to 3-minute.

The **Technical Exhibition** organised alongside the Congress will showcase the latest products, technologies, materials and services related to structural concrete, construction and infrastructure engineering. The exhibition will provide participants with opportunities to interact directly with industry representatives and discover innovative solutions for research and practice. The technical exhibition competition aims to promote interaction between participants and companies, as well as enhance participant engagement in the *fib* Congress.

The **Gala Dinner** of the 7th *fib* Congress 2026 will provide participants with an exceptional evening of networking and celebration in a distinguished venue reflecting the rich cultural heritage and atmosphere of Lisbon. The Gala Dinner will bring together delegates, accompanying persons, exhibitors and invited guests in a convivial setting, offering opportunities to strengthen professional relationships and celebrate the international *fib* community.

The ***fib* Awards for Outstanding Concrete Structures** recognise the most remarkable concrete structures completed around the world and honour excellence in design, construction, innovation and sustainability.

During the Gala Dinner, the *fib* AOS ceremony will celebrate outstanding projects demonstrating exceptional achievements in structural engineering, construction technology and architectural expression, highlighting the creativity and expertise of the international concrete community. During the congress, an exhibition will be held at Instituto Superior Técnico (IST) under the theme **"Portuguese Bridges: A Tribute to Edgar Cardoso"** dedicated to one of Portugal's most influential bridge designers and a former professor at IST. The exhibition is curated by Júlio Appleton, himself a structural engineer, former IST professor, and recipient of the *fib* Medal of Merit.

A **Student Competition** has been organised within the scope of the *fib* Congress 2026. The objective of the competition is to design and produce a 3D-printed structural element combining lightweight and structural resistance. During the conference there will be a session dedicated to this competition. The winners will be announced at the Closing Ceremony.

Technical Visits organised as part of the Congress will provide participants with unique opportunities to visit significant projects in Lisbon. These visits will highlight innovative design solutions, construction techniques and advancements in structural engineering and infrastructure development in Portugal

GUIDELINES FOR PRESENTING AUTHORS

- Speakers will not be allowed to use their own laptops, tablets or other devices for the presentations.
- Speakers will not be allowed to upload the Presentations by using the computers installed in the auditoriums/rooms. Presentations must be submitted in advance by e-mail (Fiblisbon2026@gmail.com) or uploaded at the Preview Room. Acceptable presentation file formats: MS PowerPoint (ppt or pptx); Adobe Acrobat (pdf).
  - Submission by e-mail: Speakers are encouraged to submit their presentations in advance by e-mail at (Fiblisbon2026@gmail.com). The e-mail message should include (i) ID of full paper (as defined in Conftool platform), (ii) day and (iii) session (as defined in the programme, available at www.conftool.pro/fiblisbon2026/sessions.php), (iv) title of presentation and (v) name of the speaker. In addition, speakers are advised to save a copy of the presentation on a USB memory pen and bring it to the conference.
  - Uploading at the Slide Desk: Onsite uploading will be made available during the conference. Presentations saved on a USB memory pen can be brought to the Preview Room to be uploaded by the conference staff.
- Presentations must be uploaded in the Slide Desk on the half day before the start of the corresponding session.
- Regardless of the uploading procedure, speakers are required to carefully check their presentation at the Preview Room before the session begins. Staff will assist speakers to preview their presentation to ensure a correct display.

10. App Conference4Me

To ensure you have easy access to all the information related to 7th *fib* Congress, we recommend using the **Conference4me** mobile App. It provides schedules, updates, and event details at your fingertips.

HOW TO GET STARTED:

1. Download the App
   - Get it on Google Play
   - Download on the App Store
   - Or scan the QR code
2. Open the App and Search for "7th *fib* Congress"
   - Once installed, launch the App and search for 7th *fib* Congress to access the conference details.

11. Programme - General info

<table>
<tr><th>Time (UTC+1)</th><th>June 15</th><th>June 16</th><th>June 17</th><th>June 18</th><th>June 19</th></tr>
<tr><td>08:00 - 08:15</td><td rowspan="2">Reception</td><td rowspan="2">Reception</td><td rowspan="2">Reception</td><td>Reception</td><td rowspan="19">Technical Visits</td></tr>
<tr><td>08:15 - 09:00</td><td rowspan="4">Parallel Sessions</td></tr>
<tr><td>09:00 - 09:45</td><td rowspan="2">Opening Ceremony</td><td>Keynote Lecture KL3</td><td>Keynote Lecture KL5</td></tr>
<tr><td>09:45 - 10:30</td><td rowspan="3">Parallel Sessions</td><td rowspan="3">Parallel Sessions</td></tr>
<tr><td>10:30 - 11:15</td><td>Keynote Lecture KL1</td></tr>
<tr><td>11:15 - 11:45</td><td>Coffee Break</td><td>Coffee Break</td><td>Coffee Break</td><td>Coffee Break</td></tr>
<tr><td>11:45 - 13:15</td><td>Parallel Sessions</td><td>Parallel Sessions</td><td>Parallel Sessions</td><td>Parallel Sessions</td></tr>
<tr><td>13:15 - 14:30</td><td>Lunch break</td><td>Lunch break</td><td>Lunch break</td><td>Lunch break</td></tr>
<tr><td>14:30 - 15:15</td><td>Keynote Lecture KL2</td><td>Keynote Lecture KL4</td><td>Keynote Lecture KL6</td><td rowspan="2">Parallel Sessions</td></tr>
<tr><td>15:30 - 16:00</td><td rowspan="3">Parallel Sessions</td><td rowspan="3">Parallel Sessions</td><td rowspan="3">Parallel Sessions</td></tr>
<tr><td>16:00 - 16:30</td><td>Coffee Break</td></tr>
<tr><td>16:30 - 17:00</td><td rowspan="2">Keynote Lecture KL7
Keynote Lecture KL8</td></tr>
<tr><td>17:00 - 17:30</td><td>Coffee Break</td><td>Coffee Break</td><td>Coffee Break</td></tr>
<tr><td>17:30 - 18:00</td><td rowspan="2">Parallel Sessions</td><td rowspan="2">Parallel Sessions</td><td rowspan="2">Parallel Sessions</td><td>Closing Ceremony</td></tr>
<tr><td>18:00 - 19:00</td><td rowspan="2"></td></tr>
<tr><td>19:00 - 20:30</td><td>Cocktail Reception</td><td rowspan="2"></td><td rowspan="2">Welcome Cocktail and Gala Dinner</td></tr>
<tr><td>20:30 - 23:30</td><td></td><td></td></tr>
</table>

12. Topics

With the congress motto "Structural Concrete 2050: Towards Carbon Neutrality, AI Design, and Robotic Construction," several topics are included, covering advancements in materials for structural concrete, innovative construction and prefabrication methods, new tools for design and analysis, novel approaches for existing concrete structures, cutting-edge projects, and noteworthy case studies, as well as recently approved or ongoing work related to codes, standards, pre-norms, and guidelines for concrete structures. The list of topics is as follows:

Topic 1: Materials for Structural Concrete

- Eco-efficient and low-carbon concretes
- High-performance concrete
- Advanced materials
- Materials' durability
- FRP reinforcements
- Reinforcing steel
- Prestressing materials and systems

Topic 2: Construction and Prefabrication

- Additive manufacturing (3D printing)
- Automation in concrete industry
- Other new technologies
- Reuse and circularity
- Composite structures

Topic 3: Design & Analysis

- AI-supported design
- BIM and Digital twins
- Life cycle based design
- Structural resilience and robustness
- Seismic design
- Numerical modelling for design
- Experimental testing for design

Topic 4: Existing Concrete Structures

- Assessment
- Maintenance, protection and repair
- Strengthening
- Seismic retrofitting
- SHM – Structural health monitoring

Topic 5: Projects, Works and Case Studies

- Buildings
- Bridges
- Off-shore structures
- Dams
- Tunnels
- Other special structures

Topic 6: Codes, standards, pre-norms & guidelines

- *fib* ModelCode 2020
- New codes
- New standards
- Pre-normative documents
- Technical Guidelines

13. Keynote Speakers

Eight renown speakers converge dominant and timely themes shaping structural concrete today, including improving the resilience of structures, understanding and mitigating material degradation, and embracing rapid technological innovation.

KL1: Towards robust prefabricated building structures

June 15, 10:30 - 11:15 • Jose M. Adam • Universitat Politècnica de València

Jose M. Adam is a Full Professor at the Universitat Politècnica de València (UPV). He and his team perform research in the field of structural engineering, always aiming to improve the resilience of buildings and bridges. He is an experimental researcher, and his research has always been associated with ambitious experimental campaigns, including many on full-scale structures. Prof. Adam is a founding partner of the spin-off company Calsens, Editor-in-Chief of Construction and Building Materials, and holder of two ERC Grants for the amount of €2.6 million. One of his research works was featured on the cover of Nature magazine.

KL2: Stress field models: a powerful engineering tool from the conceptual design up to detailed design

June 15, 14:30 - 15:15 • Miguel Lourenço • JSJ Structural Engineering

Miguel Lourenço is a structural engineer with nearly 30 years of experience in the design and coordination of bridges, buildings, industrial structures, and rehabilitation projects. He is CEO and Partner at JSJ – Structural Engineering since 2005, having led over 200 projects. He holds a PhD in Civil Engineering (2010) and was awarded the Ferry Borges Prize in 2008. He is convener of *fib* WP2.2.4 "Strut-and-Tie Models", a member of CT115 for Eurocode 2 development, and a certified Structural Specialist by the Portuguese Engineers Association and IPS. In 2024, he received the National Civil Engineering Award from the Portuguese Engineers Association for his professional excellence. He is also Invited Professor at Instituto Politécnico de Setúbal (since 2013) and at Instituto Superior Técnico (since 2023), focusing on building design, rehabilitation, and structural modelling.

KL3: Seismic retrofit of existing concrete buildings in New Zealand: Challenges and opportunities

June 16, 09:00 - 09:45 • Kenneth J. Elwood • University of Auckland

Ken Elwood, Professor at University of Auckland, currently serves as Chief Engineer (Building Resilience) for New Zealand Ministry for Business Innovation and Employment and the Natural Hazards Commission. He is involved in research and provides policy advice in relation to the seismic risk of existing buildings and design of new buildings. Ken received his PhD in Civil Engineering from the University of California, Berkeley in 2002, M.S. from the University of Illinois at Urbana-Champaign in 1995, and BASc from the University of British Columbia in 1993. He has over 20 years of experience on international standards and code committees, including ACI 318, ASCE 41, NBCC, and NZS 1170.5. Ken is currently serving as Executive Vice President of the International Association for Earthquake Engineering.

KL4: Rainfall impact into concrete water retention and corrosion rate of reinforcing bars

June 16, 14:30 - 15:15 • Carmen Andrade Perdrix • International Center for Numerical Methods in Engineering (CIMNE)

Carmen Andrade is Dr. in Industrial Chemistry, and Doctor Honoris Causa by the University of Trondheim (Norway) and of Alicante (Spain). She has been Titular Prof. 2021 of the Chair "Construindo a Amanha" of San Paulo University-Brazil. She awarded several international prizes, the most recent in 2024, the *fib* Medal of Merit. She has been Research Professor at the Institute of Construction Sciences of the CSIC of Spain, devoting his research to reinforcement corrosion, ND corrosion techniques, concrete durability and service life assessment. She has been President of RILEM, UEAtc, WFTAO and the Iberoamerican Association for Concrete Rehabilitation (ALCONPAT International).

KL5: Active rheology control for 3D concrete printing

June 17, 09:00 - 09:45 • Geert De Schutter • Magnel-Vandepitte Laboratory, Ghent University

Geert De Schutter is a Research Professor of Concrete Technology and Head of the Department of Structural Engineering and Building Materials at Ghent University, Belgium. He is an RILEM Honorary Member, ACI Fellow, and ERC Advanced Grant holder for the SmartCast project. Prof. De Schutter has served as Technical Director of the Magnel-Vandepitte Laboratory and was RILEM Director of Development (2009–2014). He is a laureate of several prestigious awards and has held visiting professorships in Japan, France, China, and Belgium. His research focuses on concrete technology, rheology, durability, and microstructure development, with over 700 scientific publications.

K6: Heritage concrete: Conservation approaches and implementation of repairs

June 17, 14:30 - 15:15 • Ann Harrer • Wiss, Janney, Elstner Associates, Inc.

Ann Harrer is a Principal at WJE in Los Angeles and a licensed professional engineer in California, Nevada, and Massachusetts. She specializes in the assessment and repair of concrete structures, with a focus on the conservation of architecturally significant and heritage concrete. Her expertise also includes brick masonry, terra cotta, cast stone, and wood. She is active in ACI, APTi, and CPF, and received the ACI Young Member Award for Professional Achievement in 2019. Ann has authored numerous technical publications and presented nationally and internationally, including with RIBA and APTi.

KL7: Artificial intelligence in concrete construction: Innovations for a sustainable future

June 18, 16:30 - 17:15 • Markus König • Ruhr University Bochum

Professor Dr. Markus König has led the Chair of Computing in Construction at Ruhr University Bochum since 2009. Recognized as one of Germany's leading experts in the digitalization of the construction sector, he significantly contributed to the creation of the Road Map for Digital Design and Construction. His applied research and active engagement with industry have earned him several distinctions, including the prestigious Konrad Zuse Medal from the German Construction Industry Association in 2020. Professor König's current research emphasizes developing innovative digital solutions for circular construction, particularly through the advanced use of artificial intelligence. His work leverages AI-driven methods to optimize efficiency and sustainability throughout the construction lifecycle, from design and planning to execution and asset management.

KL8: Shaping the digital future of structural concrete: The role of *fib*

June 18, 17:17 - 17:30 • Sylvia Keßler • Helmut Schmid University / University of the Federal Armed Forces Hamburg

Prof. Keßler is Professor for Engineering Materials and Building Preservation. Her research centers on service-life design and condition assessment of reinforced concrete structures, with a strong focus on non-destructive testing and monitoring. She advances the integration of AI, digitalization, and Building Information Modeling (BIM) to improve reliability and optimize maintenance strategies. Her work supports sustainable, data-driven infrastructure management across the entire life cycle. Prof. Keßler serves on the *fib* Presidium and convenes the *fib* Task Group on "Existing Concrete Structures: Life Management, Testing, and Structural Health Monitoring," in addition to various national and international professional roles.

14. Special Sessions

The 7th *fib* Congress also includes 40 Special Sessions proposed by participants , based on their relevance, originality, and alignment with the main themes of the Congress. The full list of Special Sessions is as follows:

Special Session	Organizers
SS1. Behavior and design of hybrid structures	Luís Costa Neves; Damien Dreier
SS2. Structural robustness of cast-in-situ, precast, and composite structures	Andri Setiawan; Miguel Fernández Ruiz
SS3. Seismic resilience of precast industrial buildings: Design, assessment, and retrofitting	Hugo Rodrigues; Alessandra Aprile
SS4. Low-damage seismic resilient concrete structures	Hao Wu
SS5. Punching and shear in concrete structures	António Ramos; Leandro Mouta Trautwein
SS6. Strengthening and seismic retrofitting of concrete structures/ infrastructures using innovative materials and systems/techniques	Francesco Bencardino; Pietro Mazzuca
SS7. Automated and sustainable concrete construction – Bridging research and industry	Peter Gappmaier; Mathias Hammerl
SS8. Novel monitoring techniques for concrete structures	Numa Bertola; Alfred Strauss
SS9. Physical modelling and assessment of existing concrete bridges	Yuguang Yang; Boyan Mihaylov
SS10. AI based concrete production and quality assessment	Michael Haist; Sandra Nunes
SS11. Long-term deformation behaviour of concrete	Michael Haist; Roman Wan-Wendner
SS12. Repair of existing concrete infrastructures using high-performance materials	Zhanchong Shi; Numa Bertola
SS13. Global sustainable design and retrofit methodologies with advanced materials	Norbert Randl; Antroula Georgiou
SS14. Advancements on bond in concrete	Giovanni Metelli; Akanshu Sharma
SS15. From diagnosis to service life extension: Advances in NDT, assessment and retrofitting of ageing concrete bridges	Mohammad Mehdi Kashani; Alberto Meda; Zila Rinaldi
SS16. Structural concrete with recycled aggregates: Performance, durability, and design for a circular future	Beatrice Belletti; Patrizia Bernardi; Marco Pepe; Alice Sirico; Flavio Stochino; Nikola Tošić
SS17. Multifunctional low-carbon cementitious composites for structural and energy retrofitting of the existing structural and building portfolio: the experience of the HEurope SINCERE project	Liberato Ferrara; Alva Peled
SS19. Using Python digital tools for research and engineering practice	Morten Engen; Diego Alejandro Talledo
SS22. Strategies to design sustainable cement-based materials	Belén González Fonteboa; Sindy Seara Paz

SS23. Shaping Lisbon's underground: Concrete solutions in a geotechnically complex urban environment	Alexandre Portugal ; Madalena Fernandes
SS24. Performance of structures and infrastructure under tsunami loading and cascading	Marta Del Zoppo; Tiziana Rossetto
SS25. Optimization-based strategies for the design and rehabilitation of sustainable concrete structures	Cristoforo Demartino; Carlotta Contiguglia; Vittoria Borghese; Antonio Sberna; Francesco Nigro; Irene Josa; Nikola Tosic
SS26. The biggest case of prestressed Carbon Fiber Reinforced Polymer in Brazil	Beatriz Monteiro
SS27. Seismic design and assessment of floor diaphragms in concrete building structures	Jose Restrepo; Andrea Belleri
SS28. Non-metallic reinforced concrete structures	Birgit Beckmann; Rostislav Chudoba
SS29. Load testing of concrete structures using advanced monitoring technologies	Steffen Marx; Chongjie Kang
SS30. Challenges and recent developments in seismic vulnerability assessment and retrofitting of existing reinforced concrete structures	Andrea Luchini; Maria Teresa de Risi
SS31. Existing Regulatory Frameworks for Seismic Vulnerability Assessment of Reinforced Concrete Structures: Lessons and Challenges	Xavier Romão; António Arêde
SS32. Accelerated bridge construction in the United States and Japan and other case studies	Alessandro Palermo; Tomohiro Miki
SS33. Application of Steel–Concrete Composite Solutions in Bridge Construction	Luciano Rodrigues Ornelas de Lima; José Oliveira Pedro
SS34. Precast for the planet: sustainability, robustness, and efficiency in prefabricated concrete structures	Wit Derkowski
SS35. *fib* Bulletin no. 114 – Serviceability Limit States	Jan Vitek; Alejandro Perez Caldentey
SS36. A historical perspective upon structural concrete	Manfred Curbach; Michel Moussard
SS37. Polymer duct systems for internal bonded post-tensioning	Hans Ganz; Klaus Lanzinger; Albert Delgado; Adrian Gnägi
SS38. Technology and aesthetics of visual concrete surfaces	Ludger Lohaus; Tobias Schack
SS39. Restoration of the built heritage in exposed concrete	Jónatas Valença; Paul Gaudette
SS40. Climate change adaptation of concrete structures	Elói Figueiredo; Luís Oliveira Santos; Ionut Moldovan; Michael H. Faber
SS41. Women in structural concrete	Irene Josa; Ana Sofia Louro
SS42. R2UTechnologies – A multidisciplinary approach towards the future modular precast concrete buildings	André Furtado; Eduardo Júlio
SS43. Multi-hazard risk and resilience assessment of existing concrete structures	Fulvio Parisi; You Dong; Alan O'Connor

15. Technical Visits

In the context of 7th *fib* Congress, three technical visits are organized: (i) Vasco da Gama Bridge; (ii) Phoenix Building; (iii) Modular Prefabricated Reinforced-Concrete Housing Complex. These visits have been designed to highlight three distinct typologies of reinforced concrete structures, illustrating both the country's engineering legacy and its ongoing commitment to innovation. The visits will take place concurrently, and participants must be formally registered to attend. Registration for the technical visits will open on the first day of the congress. Please note that each visit is subject to a limited number of places, which will be allocated on a first-come, first-served basis.

VASCO DA GAMA BRIDGE
June 19

The visit to the Vasco da Gama Bridge will provide an in-depth technical examination of this landmark cable-stayed crossing and viaduct system extending 17.2 km across the Tagus River, making it the longest bridge within the European Union. Participants will gain a detailed understanding of the bridge's structural design principles, construction methodologies, and the monitoring strategies implemented throughout its service life, as well as the engineering challenges associated with planning, executing, and maintaining a large-scale infrastructure asset of this magnitude.

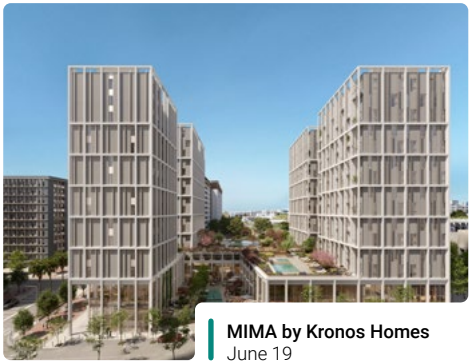
The Fidelidade Headquarters – Phoenix Building, under construction since March 2023 and set for completion in June 2026, incorporates a distinctive structural solution developed to maintain uninterrupted public circulation across the site. This requirement led to column-free spans of up to 60 m at ground level, made possible by major rooftop load-transfer structures.

Despite relying on straightforward primary systems, the project presents high construction complexity, involving staged construction, multiple prestressing phases, and extensive use of reinforced and prestressed concrete. An innovative structural concept, together with a high-strength concrete shading façade and a glass-fin façade at ground level, is shaping the Phoenix Building into a new architectural and structural landmark in Lisbon.

PHOENIX BUILDING
June 19

The technical visit to the MIMA by Kronos Homes development will provide participants with an in-depth overview of this residential and hospitality complex currently under construction in Parque das Nações, Lisbon, distinguished by the extensive use of precast concrete elements as part of the building's structural façade system. The visit will focus on the architectural and structural integration of the precast façade solution, addressing the design principles, production processes, transport and assembly methodologies, as well as the interfaces between prefabricated and in-situ structural components.

Participants will also gain insight into the engineering and construction challenges associated with the execution of a high-rise urban development using industrialized construction systems, including coordination, tolerances, connection detailing, and construction sequencing. By combining architectural expression with structural functionality through prefabrication, the MIMA by Kronos Homes project represents an innovative approach to contemporary concrete construction and an important case study in the application of industrialized building systems in Portugal.



MIMA by Kronos Homes
June 19

16. Exhibition on Portuguese Bridges

A tribute to Edgar Cardoso

As part of its broader program, the 7th *fib* Congress will host the exhibition "Portuguese Bridges: A Tribute to Edgar Cardoso" at Instituto Superior Técnico. The exhibition honours one of Portugal's most influential bridge designers and a former IST professor. It is curated by Júlio Appleton, a distinguished structural engineer, former IST professor, and recipient of the *fib* Medal of Merit.

Ponte Santa Clara
Coimbra, Portugal (1954)

The exhibition will be on display at the Museum of the Civil Engineering Department of IST-UL throughout the 7th *fib* Congress. It features models, photographs, drawings, books, medals, and film footage documenting the construction of major Portuguese bridges, including the Arrábida Bridge over the Douro River (1959–1963).

Ponte Almirante Sarmento Rodrigue
Barca D'Alva, Portugal (1955)

Ponte Edgar Cardoso
Figueira da Foz, Portugal (1982)

Ponte da Arrábida
Porto, Portugal (1963)

The bridges were selected by Júlio Appleton, and the exhibited items were collected by him over the course of his professional career. While not intended to be an exhaustive overview of all major bridges or distinguished Portuguese engineers of the twentieth century, the exhibition offers a carefully curated perspective on landmark works in Portuguese bridge engineering, with particular emphasis on Edgar Cardoso's legacy.

Ponte de Mosteirô
Cinfães, Portugal (1972)

Ponte São João
Porto, Portugal (1991)

17. Competitions

Students' Competition

As part of the 7th *fib* International Congress, we are pleased to launch an international Students' Competition aimed at promoting innovation, creativity, and technical excellence among the next generation of structural engineers. The participants are challenged to design and produce a 3D-printed structural element that meets three key performance requirements:

- Lightweight construction – the model should be as light as possible.
- Load-bearing capacity – must withstand a target force of 60 kN.
- Energy absorption – should maximize energy absorption in flexural loading.

The competition is an opportunity to explore advanced fabrication methods, contribute to the future of sustainable construction, and engage with cutting-edge research in digital design and material technology. Teams must consist of up to three students (BSc, MSc, or PhD level) from the same institution. Each team must be supported by a Supervising Institution Advisor (SIA). A designated representative from each team must attend the *fib* Congress 2026 in Lisbon. Each team must submit:

- A scientific report following the *fib* Congress paper guidelines
- A 3-minute presentation in PowerPoint format
- A 1-minute video documenting the 3D printing process
- The physical model, produced using only cement-based materials

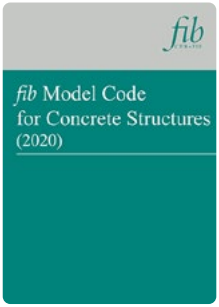
The awards include:

- Cash prizes: **1**st: €1,500; **2**nd: €750; **3**rd: €300
- Most Innovative Solution

Top-ranked teams will also be invited to co-author a paper for Structural Concrete, the official journal of *fib*. Selected submissions will be featured in the *fib* newsletter and Congress website. In total, 18 teams joint this competition, as follows:

Name of the Team	Acronym	Institution	Country
3D EcoHouse	LABIMACC	Federal Institute of Paraíba	Brazil
3D2Optimise	3D2O	KU Leuven	Belgium
Additive and Robotic Construction Laboratory	ARC Lab	Rowan University	USA
C3PRO Vienna	C3PRO	TU Wien	Austria
Digitally Generated Layered Beams	DiGeLBeam	University of Minho	Portugal
Generative Research in Innovative Technologies Laboratory	GRIT Lab	University of Georgia	USA
IMB (RWTH Aachen University)	Imbrint	Institute of Structural Concrete	Germany
Malta Advanced LightweighT Concrete Action	Malta3D	University of Malta	Malta
Navier	Navier	ENPC Laboratoire Navier	France
Prints Charm-Ing.	PCI	Dresden University of Technology	Germany
Safe and Sustainable Structures	3S	Unversidade de Aveiro	Portugal
Samurai Layerworks	SAMLAY	Tohoku University	Japan
Sheffield 3DCP	Sheff3DCP	University of Sheffield	UK
Swin 3 Dcrete	SWINDC	Swinburne University of Technology	Australia
TEAM University of São Paulo for 3D printed concrete	TEAMUSP3D	University of São Paulo	Brazil
Ultimate Limit State Champions	ULSC	Ghent University	Belgium
University of Canterbury – Three Disastrous Concrete Postgrads	UC3DCP	University of Canterbury	New Zealand
Vienna HTC Printing Team	VHTC_3D	University of Applied Sciences Campus Vienna	Austria

Technical Exhibition' Competition



A Quiz Game technical exhibition aims to promote interaction between participants and companies, as well as enhance participant engagement in the *fib* 2026 Congress. The game will be held online in a quiz format (questions and answers). The questions will be about the companies present in the Technical Exhibition (e.g., activity, products, services, projects, or initiatives presented at the booths). The answer will be in multiple-choice format, with three (3) options, only one (1) of them is correct.

Only registered attendees may participate. The game will run throughout the congress (from 9:00 a.m. on June 15th to 12:00 a.m. on June 18th). Only answers submitted during this period will be valid. Access to the questions will be provided via a QR code made available by the organizers.

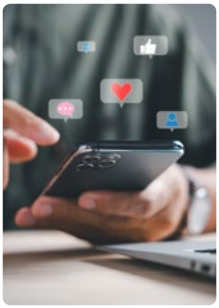
The winners will be the participants with the highest number of correct answers. Tie-breaking criterion: If there is a tie, the winner will be the participant who submitted their answers first. Only the top three participants will be selected.

The winner will receive a paper copy of the Model Code 2020. The 2nd and 3rd place winners will each receive a paper copy of a *fib* bulletin of their choice.

The winners will be announced during the Closing Ceremony. To receive their prizes, winners must be present at the ceremony. The organizers will arrange the delivery of the prizes afterward.

Sponsors who do not submit their questions and answers within the deadline set by the organizers, or who choose not to participate, will not be included in the quiz.

Social Media Challenge



The Social Media Challenge aims to raise awareness and engagement around the *fib* Congress Lisbon 2026 by leveraging the global reach of social platforms. By encouraging participants to share creative content related to the congress, the initiative will:

- Promote early visibility of the event within the international engineering and construction community.
- Encourage user-generated content that highlights Lisbon as a destination and the *fib* Congress as a unique knowledge-sharing platform.
- Strengthen community spirit and anticipation in the lead-up to the congress.

To Participate in the competition, you need to post a photo or video that promotes the *fib* Congress Lisbon 2026. The content can highlight the congress themes, Lisbon as the host city, or personal motivation to attend. Share the post publicly on Instagram, or LinkedIn. Use the official hashtag: #*fib*CongressLisbon2026 and tag the official *fib* Congress account. Submit the official Participation Form (see at fiblisbon2026.pt) before the deadline.

The winner will be determined based on a points system (1 Like = 1 Point, 1 Comment = 2 Points), with the highest total points across the eligible platforms. Only genuine engagement will be counted. The Organizing Committee reserves the right to disqualify entries that show evidence of artificial or purchased interactions.

The winner will receive one free registration for the *fib* Congress Lisbon 2026, including the Gala Dinner. The prize is non-transferable and cannot be exchanged for cash or other items.

18. Highlight Events

SATURDAY, JUNE 13

09:00 ▸ IST ▸ Technical Council
This is a closed meeting restricted to *fib* Technical Council members.

SUNDAY, JUNE 14

09:30 ▸ IST ▸ General Assembly
This is a closed meeting restricted to *fib* General Assembly members.

MONDAY, JUNE 15

09:00 ▸ Culturgest ▸ Opening Ceremony
All the 7th *fib* Congress participants are welcomed.

09:45 ▸ Culturgest ▸ Keynote Lecture KL1
Towards robust prefabricated building structures. Jose M. Adam

14:30 ▸ Culturgest ▸ Keynote Lecture KL2
Stress Field Models: A powerful engineering tool from the conceptual design up to detailed design. Miguel Lourenço

19:00 ▸ TIC ▸ Cocktail Reception
All the 7th *fib* Congress participants are welcomed.

TUESDAY, JUNE 16

09:45 ▸ Culturgest ▸ Keynote Lecture KL3
Seismic retrofit of existing concrete buildings in New Zealand: Challenges and opportunities, Kenneth J. Elwood

14:30 ▸ Culturgest ▸ Keynote Lecture KL4
Rainfall impact into concrete water retention and corrosion rate of reinforcing bars, Carmen Andrade Perdrix

15:15 ▸ IST / Culturgest ▸ Student's Competition
Follow this contest in real time either at IST or Culturgest.

19:00 ▸ IST ▸ Exhibition on Portuguese Bridges
Do not miss this exhibition introduced by Prof. Júlio Appleton.

WEDNESDAY, JUNE 17

09:45 ▸ Culturgest ▸ Keynote Lecture KL5
Active rheology control for 3D concrete printing, Geert De Schutter

14:30 ▸ Culturgest ▸ Keynote Lecture KL6
Heritage concrete: Conservation approaches and implementation of repairs, Ann Harrer

19:00 ▸ Estuda Fria ▸ Gala Dinner
All the 7th *fib* Congress participants are welcomed to participate in this social event (registration mandatory).

THURSDAY, JUNE 18

16:30 ▸ Culturgest ▸ Keynote Lecture KL7
Artificial intelligence in concrete construction: Innovations for a sustainable future, Markus König

17:15 ▸ Culturgest ▸ Keynote Lecture KL8
Shaping the digital future of structural concrete: The role of *fib*, Sylvia Keßler

17:30 ▸ Culturgest ▸ Closing Ceremony
All the 7th *fib* Congress participants are welcomed to attend the Closing Ceremony of Congress.

FRIDAY, JUNE 19

09:00 ▸ Technical Visits

19. Registration

Details regarding registration fees are presented below. Early bird registration fees range from 400 € (student, Young Engineer or YMG members) up to 800 € (*fib*, ACI, RILEM, ACF, GPBE, ABCIC, ABECE, IBRACON, ACHE, ALCONPAT and OE members). Those interested in participating in the 7th *fib* Congress Lisbon 2026 must register at www.conftool.pro/fiblisbon2026

The registration fees include:

- Access to all plenary and parallel sessions
- Coffee breaks
- Lunches
- Welcome Cocktail

The Gala Dinner and the Technical Visit are not included.

Type of Registration	**Early bird** (up to April 30, 2026)	**Registration** (up to April 30, 2026)	**Onsite**
Member of the *fib*, GPBE, ABCIC, ABECE, ACHE, ACF, ACI, ALCONPAT, IBRACON, OE, PCI, RILEM	€ 800	€ 950	€ 1150
Non-Member of the *fib*, GPBE, ABCIC, ABECE, ACHE, ACF, ACI, ALCONPAT, IBRACON, OE, PCI, RILEM	€ 950	€ 1150	€ 1350
Student, Young Engineer or *fib* YMG	€ 400	€ 450	€ 550
Gala Dinner	€ 115	€ 115	n/a

Notes:

- Students: Supporting document of the student's institution will be requested during the registration process;
- Young Engineers (31 years or younger): DoB document (e.g. passport or ID card) will be requested during the registration process.

Cancellation Policy:

- Cancellations must be notified in writing by email to info@fiblisbon2026.pt;
- Cancellations until April 30, 2026, will be fully refunded (excluding cancellation costs – € 150);
- Cancellations between 1 and 15 of May 2026 will be refunded with 25% of the total registration fee (free of charge);
- Cancellations after May 15, 2026, will not be refunded.

20. Publications

In the context of 7th *fib* Congress, the publications take the following forms:

- eBook of Proceedings published by *fib*. Free access to the eBook of Proceedings is going to be available for 4 weeks to all authors and conference participants, allowing free navigation in the e-contents and permanent download of the PDFs of the papers. Accepted papers will be submitted to Scopus for indexing.
- The authors of the best papers will be invited to submit an improved version of the paper for possible publication in the Structural Concrete, the journal of *fib*.

21. Certificate

After the event, participants will be able to access and download their attendance confirmation letters from their ConfTool account.

22. Wi-Fi Access

Free Wi-Fi is available to all participants:

@Culturgest:

- Network: fib-culturgest
  Username: fib2026
  Password: d6ZKcT

@Técnico and Técnico Innovation Centre:

- eduroam users: If you have eduroam credentials, you can connect for free using your existing login at IST and TIC.
- other participants: Please use the following guest credentials:
  Network: tecnico-guest
  Username: fib2026
  Password: d6ZKcT

23. Food Service

Coffee breaks will be served at **Culturgest** and at **Técnico's Civil Engineering Building** (the latter only on days when sessions take place there). Lunches will be always served at **Culturgest (foyers and garden)**.

Participants should mention any dietary restrictions during registration to ensure appropriate arrangements are made.

Lunch will be served to all registered participants in the foyers and garden of Culturgest.

24. Social Programme

COCKTAIL RECEPTION

We are delighted to invite you to the unforgettable **Cocktail Reception** at the **Técnico Innovation Centre**, taking place on the evening of Monday, June 15. Throughout this evening, we will enjoy a series of memorable experiences:

1. **Welcome Reception**: Be welcomed in a splendid venue where natural beauty meets historic architecture, creating an inviting and inspiring atmosphere.

2. **Cocktail Buffet**: The reception will feature a cocktail buffet with a selection of canapés, offering an ideal setting for networking and informal exchange. It will also provide participants with a moment to relax and unwind at the end of the first day of the Congress activities.

The **Técnico Innovation Centre (TIC)** is a dynamic hub for innovation, learning, and collaboration. Established by the Instituto Superior Técnico (IST), part of the University of Lisbon, the centre is housed in the historic Arco do Cego tram station, which has been transformed into a state-of-the-art facility. In addition to study areas, Técnico Innovation Centre offers collaborative workspaces, an exhibition zone, and a multipurpose area capable of hosting events with more than 300 participants.

EVENT DETAILS

Venue: Técnico Innovation Centre

GoogleMaps: maps.app.goo.gl/4y3BpBM8KP8QpJ4x8

Date: Monday, June 15

Time: 19:00 - 20:30

Access: All the 7th *fib* Congress participants are welcome - the invitation is included in your badge holder.

The Welcome reception is sponsored by:

SECIL

GALA DINNER

We are excited to invite you to a distinguished evening at the **7th *fib* Congress Gala Dinner**, to be held on Wednesday, June 17, at the remarkable **Estufa Fria**, a unique and beautiful greenhouse venue located in the heart of Lisbon, just a short walk from the Congress venue and nearby hotels. This remarkable setting will offer a memorable atmosphere for networking, celebration, and enjoyment. The programme includes:

1. **Welcome Cocktail**: Begin the evening with a cocktail reception in an exclusive natural setting, overlooking all the environment. Enjoy the lush vegetation and continue networking in a relaxed and elegant atmosphere.

2. **Congress Dinner**: Enjoy a specially curated menu of traditional Portuguese cuisine, celebrating Portugal's rich culinary heritage.

3. **Musical Moment**: The 7th *fib* Congress in Lisbon will feature a special performance by Marta Pereira da Costa internationally acclaimed for her unique interpretation of fado on the Portuguese guitar. Joined by Nani Medeiros and João José Pita Junior, this performance brings a refined fusion of tradition and innovation, where the Portuguese guitar takes centre stage in dialogue with global musical influences.

4. **Awards**: The Outstanding Structures Awards will also be announced during the Gala Dinner.

ESTUFA FRIA

Estufa Fria (estufafria.lisboa.pt) is located within Parque Eduardo VII and forms part of a green corridor in the city, the Monsanto Green Corridor. It is a unique facility in the country, featuring an important botanical collection as well as architectural and sculptural elements of heritage value.

It covers an area of 11,500 m², divided into three distinct sections, namely, (i) the cold greenhouse, (ii) the hot greenhouse, and (iii) the temperate greenhouse, where more than 300 plant species can be found. It also includes an Interpretive Centre that hosts exhibitions and activities related to botany and the city's green infrastructure.

MARTA PEREIRA DA COSTA

Marta Pereira da Costa (martapereiradacosta.com) is internationally recognised as the first professional female player of the Portuguese guitar in the traditionally male-dominated world of fado. An instrumentalist and composer, she brings a contemporary artistic vision to this iconic instrument, blending fado with influences from jazz, choro, world music, and contemporary sounds.

Trained in classical guitar before dedicating herself to the Portuguese guitar, she is acclaimed for her technical mastery, emotional depth, and refined stage presence. She has performed extensively across Europe, the Americas, Africa, and Asia, including at prestigious venues such as the United Nations, Kennedy Center, Lincoln Center, Montreux Jazz Festival (China edition), Tivoli Theatre in Lisbon, and Casa da Música in Porto.

With more than 50 concerts in over 40 countries and a widely viewed Tiny Desk performance, Marta Pereira da Costa is an award-winning artist whose work continues to promote the Portuguese guitar internationally as an instrument of artistic expression.

Nani Medeiros is a Brazilian singer with Portuguese roots, active in music since 2012. Her artistic expression is deeply connected to Brazilian musical traditions, including song, choro, samba, and bossa nova, which she naturally blends with fado, shaping a contemporary and evolving musical identity focused on original repertoire and new composers. She has shared the stage with renowned artists such as Fito Páez, João Carlos Martins, Vanessa da Mata, Tito Paris, Maria João, Kátia Guerreiro, and Raquel Tavares.

João José Pita Junior is a musician, guitar teacher, and music producer, trained at EMESP (São Paulo) and the Escola Portátil de Música (Rio de Janeiro). Throughout his career, he has accompanied major names in Lusophone music in concerts, festivals, and artistic projects. Based in Lisbon since 2019, he has collaborated with artists such as Maria João and Tito Paris, as well as with prominent fado singers in fado houses and cultural institutions. He has developed an international career performing across Europe, Asia, the Americas, and Australia, including participation in NPR's Tiny Desk Concert with Marta Pereira da Costa.

EVENT DETAILS

Venue: Estufa Fria

GoogleMaps: maps.app.goo.gl/A4NTxF7yLgJxk4VU6

Date: Wednesday, June 17

Time: 19:00 – 23:30

Bus Service: Transfers between 18:45 and 19:30 from Campo Pequeno [GoogleMaps: maps.app.goo.gl/ZuVurqwUKTiLz7TA8] on rolling basis. Return transfers at 23:30 and from Estufa Fria to Culturgest.

Access: Participants of the 7th *fib* Congress who have registered for the Gala Dinner are welcome. The invitation is included in your badge holder.

The Gala Dinner is sponsored by:

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25. Institutional, Research and Academic Support

Institutional Support

Abcic Associação Brasileira da Construção Industrializada de Concreto

ABECE Associação Brasileira de Engenharia e Consultoria Estrutural

ACHE Asociación Española de Ingeniería Estructural

Asian Concrete Federation

aci American Concrete Institute Always advancing

ANAT

ECSN European Concrete Societies Network

IBRACON

Ordem dos Engenheiros

PCI Precast/Prestressed Concrete Institute

rilem

Turismo de Lisboa

Research and Academic Institutions

isec Engenharia

LNEC Laboratório Nacional de Engenharia Civil

NOVA School of Science & Technology

Politécnico de Leiria

universidade de aveiro

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U.PORTO FEUP Faculdade de Engenharia Universidade do Porto

26. Sponsorships

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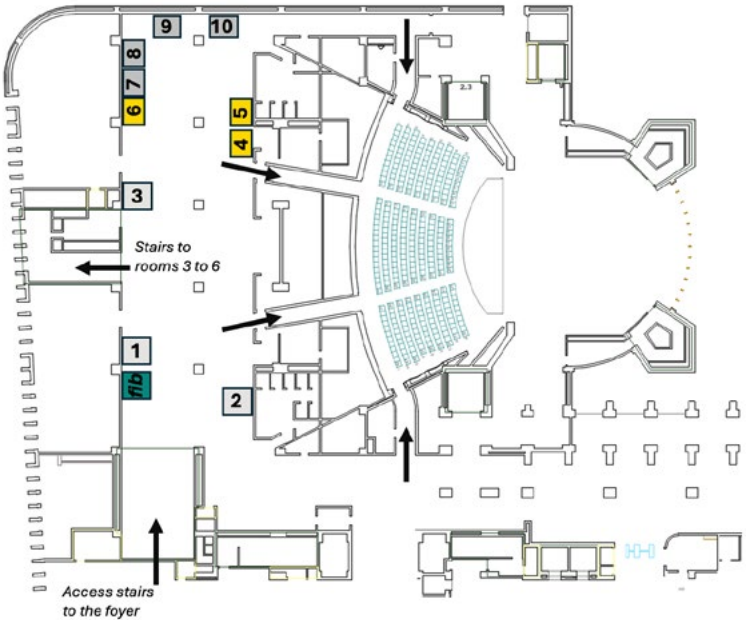

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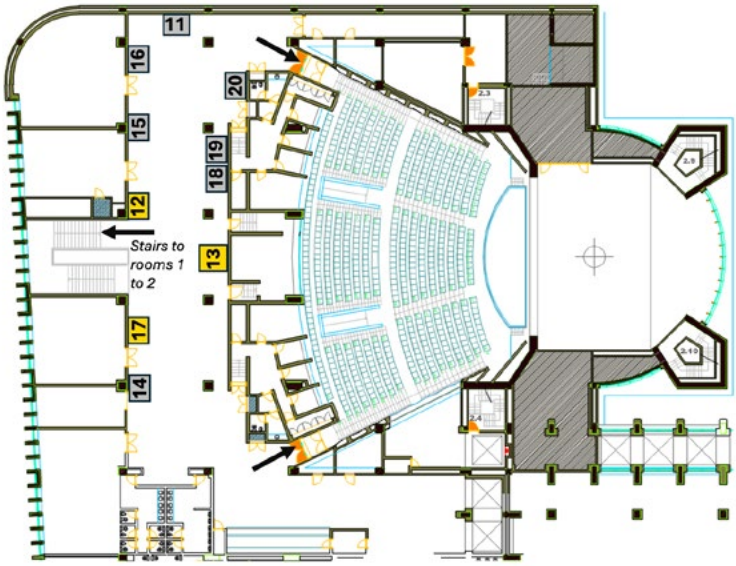
10. PROGRESS GROUP

Floor +1



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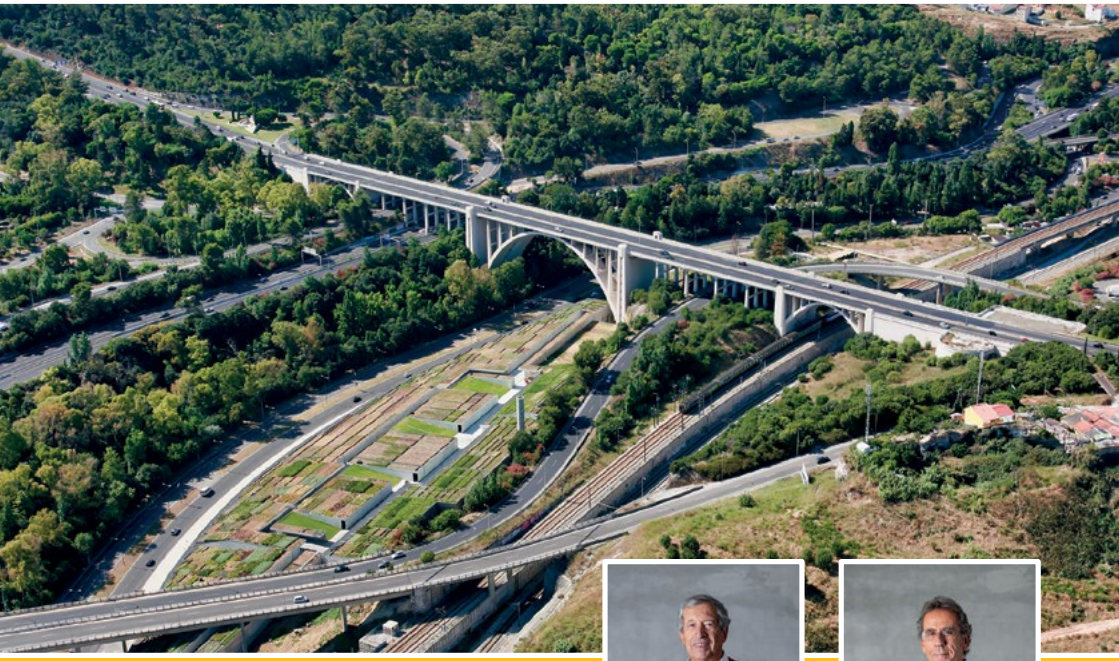
XII Prémio Secil de Engenharia Civil



Reabilitação e Reforço Sísmico do Viaduto Duarte Pacheco

Engenheiro
Júlio Appleton

Engenheiro
António Costa

O XII Prémio Secil de Engenharia Civil foi atribuído pela Secil e pela Ordem dos Engenheiros a Júlio Appleton e António Costa, responsáveis pelo projeto de Reabilitação e Reforço Sísmico do Viaduto Duarte Pacheco, em Lisboa.

A Secil e a Ordem dos Engenheiros congratulam os autores, o dono da obra *Infraestruturas de Portugal* e o empreiteiro responsável pela construção *Teixeira Duarte*, associando-se ao Júri no reconhecimento da excelência e qualidade demonstradas nos trabalhos desenvolvidos por estes engenheiros.

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7th fib Congress

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