

FEPAC – APC SYMPOSIUM 2018

WORLD CHALLENGES FOR THE DEVELOPMENT OF INFRASTRUCTURE

Alain Bentéjac, FIDIC President



9 May 2018 – Lima



International Federation of Consulting Engineers
The Global Voice of Consulting Engineers

www.fidic.org

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THE ROLE OF FIDIC TO ACHIEVE INFRASTRUCTURE DEVELOPMENT WITH **INTEGRITY, QUALITY & SUSTAINABILITY**

Alain Bentéjac, FIDIC President



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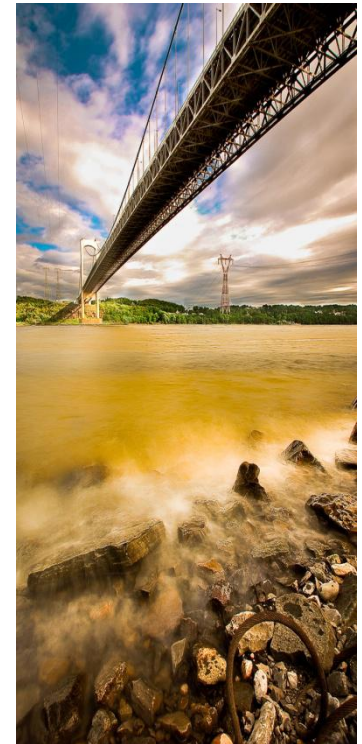
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The consulting engineering sector

- Global construction characteristics,
- Continuing challenges,
- Emerging challenges.





Global construction characteristics

- Annual investment in the construction sector : \$7 trillion,
- Demand growing – anticipate up to \$9 trillion by 2020,
- Consulting Services \$400 - 500 billion,
- Consulting market reforming – more global,
- Economies still fragile – variable growth rates,
- More private and public funding,



Continuing challenges for the consulting engineering industry

- Creating a substantial brand for our industry globally,
- Increasing demand in terms of infrastructure development with larger and more complex projects,
- Reducing the risks for the industry, the clients and society in cost based procurement,
- Fighting corruption to increase the effective benefit from infrastructure spending,
- Ongoing market pressure from clients to do more with less and growing expectation of perfection.



Emerging challenges for the consulting engineering industry

In a fast changing world, our industry is confronted with some new challenges:

- Geopolitical & economic risks: maintaining our industry in a world troubled by geopolitical & economic re-balancing,
- Sustainability & climate change: equipping our industry to reduce and mitigate climate change impact,
- New technologies: what is their impact (BIM, collaborative work, big data, block chain technology, IoT...) ?
- Smart cities – urgent needs of urban environments.



Emerging challenges for the consulting engineering industry

In a fast changing world, our industry is confronted with some new challenges:

- New business models: is our industry on the verge of major disruption like other industries (banks, hospitality industry...) ?
- Consolidation: consequences of the trend towards mega firms,
- New delivery methods, such as PPPs, PFIs, Alliancing...
- Competitive threats and increasing protectionism,
- Global shortage of skills – future leaders...



Place & role of consulting engineers



Yesterday:

- **Trusted advisor – respected,**
- **Highly professional,**
- **Independent,**
- **Integrity.**





Participants in the 1914 Congress in Berne. Eighteen of the gentlemen mentioned in this History of FIDIC are identified on the photograph as follows: 1 Nagtglas-Versteg, 2 Blochmann, 3 Forssell, 4 Neeser, 5 Flesch, 6 de Grobert, 7 Fono, 8 Lebeau, 9 Roux, 10 Robert, 11 Gnoinski, 12 Leneveau, 13 Prangey, 14 Mathot, 15 Leroux, 16 Couturaud, 17 Masson, and 18 Frandsen.



Place & role of consulting engineers – New Opportunities

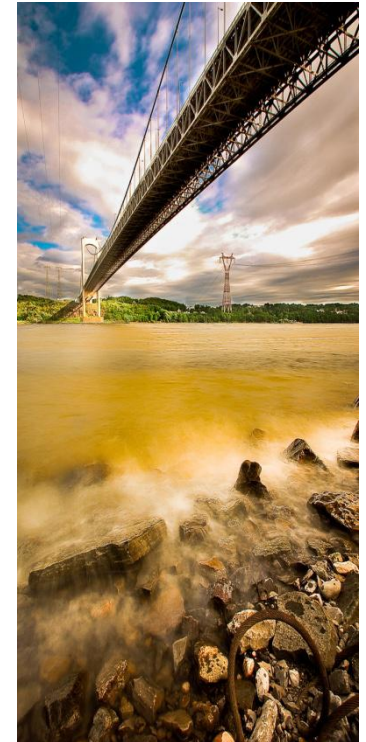
Today and tomorrow:

- Trusted advisor to clients,
- Procurement & investment strategist,
- Multi-disciplinary expert,
- Innovator,
- LCC considerations.



FIDIC's global role

- FIDIC's organization,
- FIDIC's vision & mission,
- FIDIC's role on procurement,
- FIDIC's priorities.



FIDIC: the organization

- FIDIC: Federation of International Consulting Engineers,
✓ Fédération Internationale des Ingénieurs-Conseils.
- Founded in 1913.

Objectives:

- Promote common professional interests,
- Disseminate information to the members of the constituent National Associations.



FIDIC: the organization

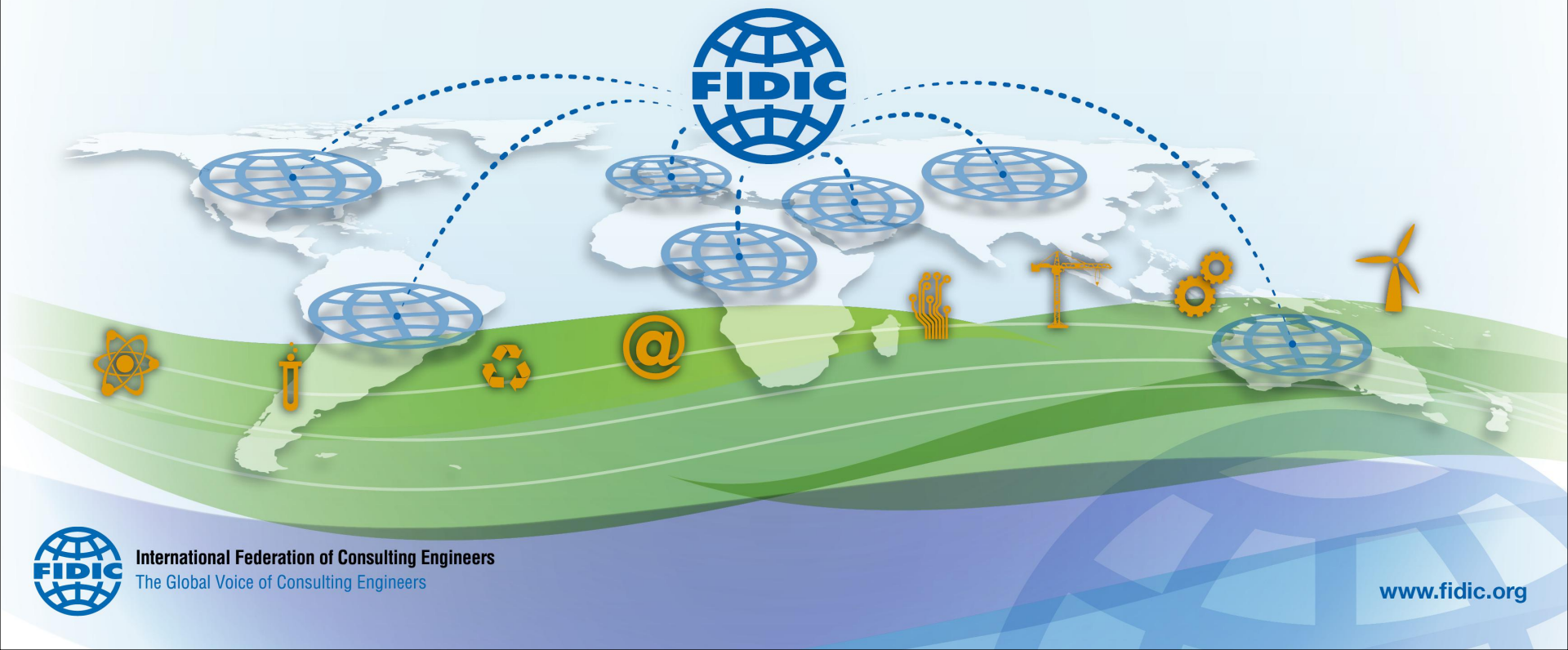
- 104 member associations (USA largest),
- Executive Committee (FIDIC board)
 - ✓ 9 members,
 - ✓ President: Alain Bentéjac (2017 – 2019)
- Secretariat in Geneva, Switzerland
 - ✓ Managing Director: Enrico Vink
- Standing Committees,
- DNS Advisory Council.



What FIDIC does:

Represent globally the consulting engineering industry
Enhance the **image** of consulting engineers

Global Voice of Consulting Engineers



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What FIDIC offers the industry:

Be the authority on issues relating to **business practice**

Promote the development of a **global** and viable consulting engineering industry

Business Best Practice Tools & Guidelines



Committees
Business Days
Members
Training
Groups
Volunteers
Task Groups
Learning
Conferences
Risk Management
Online Training



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Best practice guidelines & tools

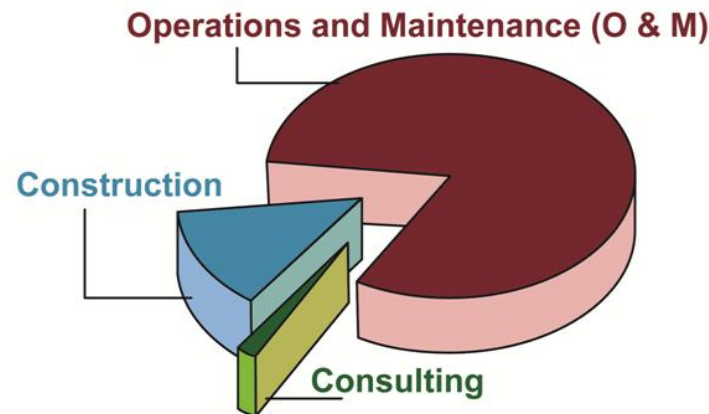
- How to choose a consulting engineer:
 - ✓ Quality based selection (QBS)
 - ✓ Define services (DOS)
- How to ensure ethics & integrity in the Industry:
 - ✓ FIDIC's integrity management system (FIMS)
- How to choose the right project delivery method:
 - ✓ Project sustainability management (PSM),
 - ✓ Project sustainability workbook,
 - ✓ FIDIC procurement procedures guide



Quality based selection

Quality is paramount in the selection of consultants, and Quality Based Selection is the recommended method for procurement.

The fees paid to a consultant are a small fraction of the total project life-cycle cost, and yet the consultant's work is key to the project success.



FIDIC on procurement

- Irrespective of the size of the project, the employer will look for a procurement strategy that results in contractual arrangements that will provide a defect-free solution, that is fit for purpose and completed in a timely fashion and within budget.

The strategy should take into account the need for economic whole-life operating and maintenance costs

- This requires a procurement package that is properly and fully prepared by experienced staff, and includes the correct standard form of (FIDIC) contract.
- QBS versus QCBS



Works Contracts – Rainbow Collection



FIDIC publishes internationally recognized forms of contract for infrastructure works.

More than 40,000 copies supplied each year



FIDIC rainbow suite, well known & used in parts of Latin America

- Public & private sector projects, and internationally funded projects,
- Balanced and fair –risk management tool, integrity management
- Available in Spanish and Portuguese,
- FIDIC contracts used in some 200 countries.
- FIDIC training in collaboration with associations in Peru, Chile, Argentina, Brazil, Mexico, and others
- FIDIC Dispute resolution solutions throughout Latin America

THE international standard for 60 years.



FIDIC Priorities:

- Lead the consulting engineering industry visibly & effectively,
- Strengthen FIDIC's position in the overall construction sector,
- Connect & support our membership more effectively,
- Adapt & improve the governance of the Federation,
- Innovate the way the Secretariat operates to be more effective & efficient.



Key Activities:

- **Closer collaboration with members and improve communications – social media, IT, expand online services**
- **Strengthen resources to enhance volunteer support – outsourcing options and larger secretariat,**
- **Develop new and improved capacity building programmes – FIDIC Accredited trainers and adjudicators; online training,**
- **Improve commercial strategies to leverage FIDIC products and services – expand sales and licences, as well as training courses**
- **Enhance governance structure – internal and external representation**
- **Strengthen strategic partnerships to raise industry profile – link international partners to local strategies with Members**



“Mobility & Smart Infrastructure”



Save The Dates !

