



ΥΠΟΥΡΓΕΙΟ ΕΞΩΤΕΡΙΚΩΝ

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Ακόλουθος ΟΕΥ

**ΑΔΙΑΒΑΘΜΗΤΟ
ΚΑΝΟΝΙΚΟ**

Αθήνα, 22 Οκτωβρίου 2018

Α.Π. 59615

ΠΡΟΣ : -ΠΙΝΑΚΑ ΑΠΟΔΕΚΤΩΝ

ΚΟΙΝ.: - Πρεσβεία Κουβέιτ

Ε.Δ.: - Διπλωματικό Γραφείο κ. Υπουργού

- Διπλωματικό Γραφείο κ. ΑΝΥΠΕΞ

- Γραφείο κ. Γενικού Γραμματέα ΔΟΣ & ΑΣ

- Γραφείο κ.κ. Α', Β' Γενικών Διευθυντών

- Α6, Β3 Διευθύνσεις

ΘΕΜΑ: Kuwait Infrastructure Summit (3-4.12.2018)

ΣΧΕΤ: Έγγραφο Πρεσβείας στο Κουβέιτ με ΑΠ.Φ. 200/12/ΑΣ 429/21.10.2018 (μη προς όλους)

Σας παρακαλούμε για την ενημέρωση των μελών σας αναφορικά με τη διοργάνωση της ως άνω αναφερόμενης Διεθνούς Έκθεσης στο Κουβέιτ, μεταξύ 3 και 4 Δεκεμβρίου 2018.

Στη διοργάνωση της Έκθεσης, η οποία έχει την υποστήριξη του Υπουργείου Υποδομών της χώρας, συμμετέχουν σημαντικοί φορείς, όπως η Δημόσια Υπηρεσία για Δρόμους και Μεταφορές (Kuwait's Public Authority for Roads and Transportation), ο Δήμος του Κουβέιτ (Kuwait Municipality), το Υπουργείο Ηλεκτρισμού και Υδάτων (Kuwait's Ministry of Electricity and Water), η Δημόσια Αρχή για τη στεγαστική ευημερία (The Public Authority for Housing Welfare), το Υπουργείο Στέγασης του Μπαχρέιν (Bahrain's Ministry of Housing), η δημόσια επιχείρηση πετρελαίου του Κουβέιτ (Kuwait Oil Company), η Δημόσια Αρχή Δρόμων και Μεταφορών των Ηνωμένων Αραβικών Εμιράτων (UAE's Roads and Transport Authority), μαζί με άλλους σημαντικούς επιχειρηματικούς φορείς που δραστηριοποιούνται στον τομέα της κατασκευής μεγάλων έργων υποδομών.

Οι ενδιαφερόμενες επιχειρήσεις μπορούν να επικοινωνήσουν για περισσότερες πληροφορίες με τον διευθυντή της IQPC Middle East, κ. Andrew Steevan (e-mail: enquiry@iqpc.ae, ιστοσελίδα: <https://kuwaitinfrastructuresummit.iqpc.com>, τηλέφωνο: +971 43642975).

Παρακαλούνται οι επιχειρήσεις/φορείς να κοινοποιήσουν τυχόν ενδιαφέρον τους για συμμετοχή και στη Διεύθυνσή μας (e-mail: b08@mfa.gr).

Η Διευθύνουσα

Νεφέλη Παπδάκου
Γραμματέας ΟΕΥ Α'

قمة الكويت للبنية التحتية

KUWAIT INFRASTRUCTURE SUMMIT



Supporting Organisation:



Ministry of Electricity and Water

Supported by:



مجلس الكويت للمباني الخضراء
Kuwait Green Building Council



جمعية المهندسين الكويتية
KUWAIT SOCIETY OF ENGINEERS

3 – 4 December 2018 | Hilton Kuwait Resort
2 Events - 1 Platform

Roads, Bridges, Highways & Tunnels

Sustainable Housing

PARTNERSHIP, INVESTMENT AND INFRASTRUCTURE PROJECT OPPORTUNITIES IN KUWAIT

VISIONARIES LEADING INFRASTRUCTURE DEVELOPMENT:



Saad Muhailbi,
Director of
Master Planning
Department,
**Kuwait
Municipality,
Kuwait**



**Dr. Adnan A.
Al-Homoud,** Vice
Chairman of the
Code Approval
Committee,
**Ministry of
Electricity and
Water, Kuwait**



**Eng. Faisal Duwaih
Alatel,**
Chairman,
**Kuwait Society of
Engineers, Kuwait**



**Drs. Johan J.H.
Beth,** Advisor to
H.E. the Minister,
**Ministry of
Housing, Bahrain**



Mohsin Ali Balwan,
Director of Traffic
Engineering
Department, Roads
Projects, **Roads
and Transport
Authority, UAE**

- Meet and do business with key stakeholders of multibillion dollar bridges, highways, tunnels and housing projects in Kuwait
- Learn about the current and future requirements for major housing developments in the Middle East
- Hear about upcoming road and bridge projects across the region

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As developing and modernising national infrastructure to improve the quality of life for all citizens forms one of the key pillars of the Kuwait's National Development Plan 2035, the Kuwait Infrastructure Summit will be your platform to gain access to multimillion dollar project updates and investment opportunities in Kuwait.

Don't miss your chance to join government authorities, project owners and other stakeholders working towards transforming Kuwait's infrastructure sector for a prosperous and sustainable future.

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speakers

15+
insightful
sessions

Infinite
learning

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DON'T MISS THE EXCITING ACTION AT KUWAIT INFRASTRUCTURE SUMMIT



2 events – 1 platform:
2 industry-specific forum tracks focusing on roads, bridges, highways, tunnels and sustainable housing



Majlis-curated VIP programme:
Hosting VIP guests and clients



Government trailblazers
Client-led presentations and exclusive opportunities to hear about regional project updates



Amplified networking:
Dedicated speed networking and the exhibitor connect programme



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WHO IS IT FOR?



**Government
Ministries and
Authorities**



Developers



Consultants



Contractors



**Research
Institutes**



**Material and
Equipment
Suppliers**



**Technology
Solution
Providers**

WHY ATTEND?



Understand how to adopt the practice of value engineering to Kuwait's future infrastructure projects



Understand the factors affecting the decision to widen current roads and bridges



Identify how to improve the housing design to reduce energy consumption



Learn how to implement energy simulation models for residential developments



Connect with peers in a private, business-focused environment

BE INSPIRED BY VISIONARY PROJECT OWNERS



Undersecretary,
**Ministry of Electricity
and Water, Kuwait**



Drs. Johan J.H. Beth,
Advisor to H.E. the
Minister, **Ministry of
Housing, Bahrain**



**Eng. Faisal Duwaih
Alatel**, Chairman,
**Kuwait Society of
Engineers, Kuwait**



Saad Muhailbi,
Director of
Masterplanning
Department, **Kuwait
Municipality, Kuwait**



Loay Ghazaleh,
Advisor, Office of the
Undersecretary (Us),
**Ministry of Works,
Bahrain**



**Eng. Sandra
Draskovic**, General
Manager, **Kuwait
Green Building
Council, Kuwait**



Eng. Husain Asad,
Junior Civil Engineer,
**Public Authority
for Roads and
Transportation,
Kuwait**



**Dr. Adnan A. Al-
Homoud**, Vice
Chairman of the Code
Approval Committee,
**Ministry of Electricity
and Water, Kuwait**



**Faisal Ali Hassan
Rashid**, Director
Demand Side
Management, **Dubai
Supreme Council of
Energy (DSCE), UAE**



**Mohammad Najam
Khan**, Advisor - Bridge
and Road Structures,
Department of
Urban Planning
and Municipalities,
**Abu Dhabi City
Municipality, UAE**



Mohsin Ali Balwan,
Director of Traffic
Engineering
Department, Road
Projects, **Roads and
Transport Authority,
UAE**



Hany Farahat,
General Manager,
WorleyParsons



Nidal S. Odeh,
Director - Transport
and Infrastructures,
Arcadis, Saudi Arabia



Walid Azzi, Head of
Discipline - Bridges,
SSH, Bahrain



**Joaquin Perez-
Goicoechea**, Principal
& Founding Partner,
**AGi Architects,
Kuwait**



**Dr. Shaikha
Abdulattef Mubarak
AlSanad**, Associate
Research Scientist,
**Kuwait Institute for
Scientific Research
(KISR)**



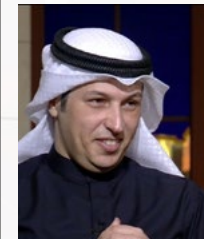
**Dr. Fahad Sayah
AL-Rukaibi**,
Assistant Professor,
Department of
Civil Engineering,
**Kuwait College of
Engineering and
Petroleum**



Srikanth Pandurangi,
Associate Director
- Transport
Planning, Middle
East, **WSP Parsons
Brinckerhoff, Kuwait**



**Abdul Ghaffar
Chaudhry**, Senior
Specialist Planning
& Business
Development - Public
Transport Agency,
**Roads and Transport
Authority, UAE**



Faisal AL Jihayem,
Engineer, **Kuwait Oil
Company, Kuwait**

KEY KUWAITI ROAD PROJECTS SUPPORTING URBAN EXPANSION

Project Name:	Estimated Investment Value:	Initiation Date:	Estimated Project Completion:	Key Stakeholders:	Key Contractors:	Works/Solutions/Technologies Required:
Road Linking 7th Ring Road and Southern Region	\$660 million	June 2018	June 2022	Ministry of Public Works (MPW), Kuwait	Dar Al Dowailah Engineering Consultants and Construction Managers, Oriental Consultants Company Ltd.	The 7th Ring Road is undergoing major expansion, beautification and upgrade works to ease traffic flows while at the same time improving motorist health and safety levels. The new linking road will cut congestion rates for the ring road's users while opening up further access to the southern region of Kuwait. ¹
Upgrading Cairo Street, Kuwait City	\$350 million	February 2018	February 2020	MPW	Parsons Brinckerhoff, Gulf Consult	MPW is tendering a wide range of maintenance, expansion and upgrade projects to improve the traffic flows around Kuwait City. ² Like other major arterial roads and intersections, Cairo Street will be comprehensively upgraded with improved surface works, bridges, drainage, signage and support infrastructure.
Roads providing access to South Al Mutla City	\$315 million	October 2018	October 2020	MPW	Limak Construction, Salini Impregilo, Dar Al Dowailah Engineering Consultants and Construction Managers, Louis Berger SAS	This project is part of a \$1 billion infrastructure investment package to support the development of Kuwait's new South Al Mutla City. ³ It requires the delivery of new access roads, complete with adequate drainage and utility cabling support.
Northern Regional Road - Interchange 82 to 58	\$241 million	September 2018	September 2020	MPW	Kuwait Technical Consulting Bureau (KTCB), Halcrow International	The project consists of the construction, completion and maintenance of Kuwait's Northern Regional Road. MPW plans to extend the road network out from the Abdaly Expressway and towards a future intersection that will link with the Subiya Expressway. ⁴ This is an essential element of the International Middle East Arab Highways Network, which is designed to facilitate the growth of inter-regional within the GCC. ⁵

1 Arab Times, 7th Ring Road work on track – project to ease traffic flow, 24/05/2018

2 Kuwait Times, 72 projects to resolve traffic woes, 16/05/2017

3 Reuters, UPDATE

4 Reuters, UPDATE 1-Kuwait to sign \$1 bln contract with Salini, Limak for city project, 25/05/2016

5 MEED Projects, MPW-Northern Regional Road from 6th Ring to Intersection No.82 (RA/259)

KEY KUWAITI ROAD PROJECTS SUPPORTING URBAN EXPANSION

Project Name:	Estimated Investment Value:	Initiation Date:	Estimated Project Completion:	Key Stakeholders:	Key Contractors:	Works/Solutions/Technologies Required:
Upgrade works to Fahaheel Expressway - Road No 30	\$3 billion ⁶	August 2019	February 2022	MPW	Khatib & Alami Consolidated Engineering Company, Kuwait	This ambitious project envisages a comprehensive overhaul and upgrade of the Fahaheel Expressway, which is the southern route out of Kuwait City towards the Saudi Arabian border. ⁷ The road will undergo expansion and upgrading works for its 22 interchanges and 16 pedestrian bridges. ⁸
Upgrade of Second Ring Road, Third Ring Road and Damascus Street	\$100 million	October 2018	October 2020	MPW	Proyapi Engineering and Consultancy, SSH Design, Kuwait	Kuwait City's Second Ring Road, Third Ring Road and Damascus Street all require a further upgrade to help them combat rising traffic demand. Upgrade works include widening the roads, establishing permanent pedestrian bridges and interchange bridges, improving footpath access and providing provisions for future integrated smart transportation systems. These works are designed to accommodate predicted traffic flow increases up until at least 2030. ⁹
Maintenance of King Fahd Bin Abdul Aziz Road	\$86 million	October 2018	May 2020	MPW	Parsons Brinckerhoff (PB), Kuwait	Comprehensive maintenance and repair works to King Fahd Bin Abdul Aziz Road, including paving and treatments, utility tunnels and cabling, while preparing for future intelligent networked highway systems.
Construction of South Ratqa Roads	\$45 million	October 2018	October 2020	Kuwait Oil Company (KOC)	Kuwait Systems Company, United Engineering & Technical Consultants (UNETEC), Kuwait	KOC recently awarded this contract to establish new access roads to South Ratqa and the Ratqa oil fields. ¹⁰ The new roads need to be wide and well maintained enough to provide easy access to the oil fields for large vehicles and support ongoing logistical operations.
Maintenance of the 4th Ring Road Improvement	\$50 million	February 2020	February 2022	MPW	Mott MacDonald, UK	Recently approved improvements to the 4th Ring Road involved reconstruction and repaving works for a 5km-long leg of the road between the UN roundabout and the road's junction with the airport road. ¹¹ Maintenance works include additional repaving and implementing safety features and barriers.

5 Ibid

6 Kuwait Technical Consulting Bureau, Improvement of route 30 Fahaheel Expressway, Jan 2018

7 Trade Arabia, Kuwait to award Fahaheel Expressway contracts in 2020, July 2018

8 Kuwait Technical Consulting Bureau, Improvement of route 30 Fahaheel Expressway, Jan 2018

9 Trade Arabia, Kuwait Oil Company awards \$100m contracts, 02/08/2018

10 Ibid

11 Kuwait Times, Central Tenders Committee approves Fourth Ring Road development project, 17/09/2018

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MAJOR HOUSING PROJECTS THAT ARE SHAPING URBAN PLANNING IN KUWAIT

Project Name:	Estimated Investment Value:	Initiation Date:	Estimated Project Completion:	Key Stakeholders:	Key Contractors:	Works/Solutions/Technologies Required:
Madinat Al Hareer (City of Silk)	\$86 billion ¹	Late 2019	Mid 2023 for the majority of the city, 2044 for the Burj Mubarak	Tamdeen Real Estate Company (TREC), Madinat Al Hareer Corporation, Silk City Project Company	Civicarts, Hyundai Engineering and Construction Co, Combined Group Contracting Co	Delivery of the “Most radical and expensive construction project in the world”, a 250km ² city built to latest sustainability standards. Headline features include Jaber Causeway connection and the 1km-high Burj Mubarak, which requires double/triple-decker elevators, 45-degree interlocking towers and adjustable vertical ailerons. ²
South Saad Abdullah New Town	\$4 billion	1st February 2019	Early 2021	Public Authority for Housing Welfare (PAHW), Korea Land & Housing Corporation	Public Authority for Housing Welfare (PAHW), Korea Land & Housing Corporation	Kuwait’s first smart city built for initial population of 300,000-400,000. Proposed smart city features include an interconnected internet-controlled road and public transport services network, solar cells for the city’s electricity grid and built-in climate control sustainability systems in all major buildings. ³
Hessah Al Mubarak Project	\$2.5 billion	15th November 2018	November 2021	United Real Estate Company (URC), Kuwait, Kuwait Projects Company (KIPCO)	SSH Design, Al Ahmadiyah Contracting,	227km ² of mixed-use residential/commercial urban development being built to the highest industry safety and sustainability construction standards. Green city design and construction planning features throughout, as half of the total project space is dedicated to public services and amenities, including city gardens and public green spaces.

¹ Construction Week Online, Construction plans of Kuwait's \$86bn Silk City revealed, 16/07/2018

² Weetas, Silk City: What makes Madinat Al Hareer in Kuwait the next big thing? 07/01/2018

³ Kuwait Times, South Saad Al-Abdullah, Kuwait’s first smart city – Over 59 square kilometers to accommodate 400,000 people, 01/08/2018

MAJOR HOUSING PROJECTS THAT ARE SHAPING URBAN PLANNING IN KUWAIT

Project Name:	Estimated Investment Value:	Initiation Date:	Estimated Project Completion:	Key Stakeholders:	Key Contractors:	Works/Solutions/Technologies Required:
Nawaf Al Ahmed City	\$2.34 billion	1st November 2021	November 2030	Public Authority for Housing Welfare (PAHW)	To be tendered (Feasibility study ongoing)	Development of mixed-use district including 52,000 housing units, commercial buildings, educational institutions, hospitals, a major shopping mall, sports and tourism facilities. Nawaf Al Ahmed will be built to the most advanced sustainability standards in keeping with the "New Kuwait" National Development Plan.
Fourth Structural Plan 2040	\$1 billion	Projected to commence in 2020	End of 2030	Kuwait Municipality	Perkins and Will, Dar Al Handasah	The Fourth Structural Plan 2040 is a comprehensive master plan to realise the ambition of turning Kuwait City into the city of the future. The respective elements of the plan include the delivery of upgraded public transport infrastructure, sustainable utility grids, cleantech waste management facilities and other integrated smart city services. ⁴
South Abdullah Al Mubarak Residential Development	\$1 billion	15th November 2018	November 2022	PAHW	Limak Holding	The project will involve the expansion of Abdullah Al Mubarak South town, south of Kuwait City, with thousands of new residential units being built. The scope of work includes new roads and support infrastructure, smart utilities and telecommunications network development and sustainable irrigation systems. ⁵
Sabah Al Ahmad City	\$3.5 billion	15th May 2019	May 2022	PAHW, Kuwait Authority for Partnership Projects (KAPP)	Foster and Partners UK	Construction of another major housing project south of the capital aimed at alleviating Kuwait's housing shortage. ⁶ This 40km ² city will contain over 11,000 homes, with 2,000 villas, a similar amount of high-rise apartment buildings and sufficient affordable houses alongside hospitals, 52 schools and 70 mosques. ⁷ All buildings are being designed and constructed to offer long-term sustainability as well as viable cost-effectiveness.
Jaber Al Ahmad Residential City	TBA	April 2019	May 2022	PAHW, KAPP	Arab Contractors	Delivery of almost 7,000 housing units for a residential city 10 minutes west of Kuwait City. Malls, business centres, retail areas, private schools, hospitals and a university to follow after initial stages are complete. ⁸

⁴ 4th Kuwait Master Plan 2040, 4KMP 2040 Private Sector Development, 23/10/2017

⁵ Kuwait Times, Limak signs KD 28.990m contract for South Abdullah Al-Mubarak project, 03/06/2018

⁶ Oxford Business Group, Kuwait in the midst of a construction infrastructure boom, Kuwait Report 2017

⁷ MEED, Kuwait seeks firms for housing project, 27/08/2018

⁸ PAHW, Kuwait Investment Forum 2018, March 2018

MAJOR HOUSING PROJECTS THAT ARE SHAPING URBAN PLANNING IN KUWAIT

Project Name:	Estimated Investment Value:	Initiation Date:	Estimated Project Completion:	Key Stakeholders:	Key Contractors:	Works/Solutions/Technologies Required:
Bukhamseen Hospitality and Commercial Complex	\$170 million	August 2018	August 2020	Al Emad Real Estate Company	Hellmuth Obata Kassabaum (HOK), Osama Bukhamseen Design (OBD) Engineering & Consultants, Kuwait	Design, construction and operation of mixed-use commercial and hospitality development in the Sharq district of Kuwait City, built to the latest industry standards in terms of safe and sustainable construction practices.
West Abdullah Al Mubarak Residential Development - Public Buildings	\$153 million	February 2018	November 2020	PAHW	Limak Holding, Al Hamra Kuwait Co	Construction, completion and maintenance of thousands of housing units, public buildings and utilities/public services infrastructure built to exacting specifications in-line with the Kuwaiti National Development Plan.
Al Khiran Pearl Mixed Use Complex	\$80 million	December 2019	December 2021	Tamdeen Real Estate Company (TREC)	SSH Design, Kuwait	Design and delivery of resort-style recreational and residential complex in the environmentally-friendly recreational waterfront development of Sabah Al Ahmed Sea City. Designed to be the downtown community area for approximately 200,000 people, featuring high-quality restaurants, entertainment and shopping venues, as well as two residential apartment towers. ⁹
Al Wafra Housing Project - Public Buildings in Block 2	\$70 million	April 2018	April 2020	PAHW	Hot Engineering & Construction Company (Al Dar Engineering & Contracting Company)	Latest development of public buildings in Al Wafra expansion project. All Al Wafra buildings as well as transport support infrastructure developments (linking roads, etc) are predicted to be completed and handed over in early 2020.

⁹ SSH, SSH awarded Al Khiran Pearl Mixed Use Complex project in Kuwait, 08/2018

OPENING PLENARY SESSIONS

08:00 Registration, refreshments and networking

08:30 Speed networking

08:45 Kuwait National Anthem and recitation from the Holy Quran

08:50 Kuwait National Anthem and recitation from the Holy Quran

08:55 Welcome address by the Chairman

VIP Breakfast Briefing: Reviewing the importance and potential of investing in airport development in the Middle East

- Addressing and overcoming deficiencies related to airport construction, rehabilitation and expansion across the region
- Building user-friendly facilities beyond operational functionality
- Providing an overview of how private sector financing can be mobilised through PPPs for the development of airports

MARKET POTENTIAL: WHAT DOES 2019 HAVE IN STORE FOR INFRASTRUCTURE DEVELOPMENT IN THE MIDDLE EAST?

09:00 Visionary keynote address

Undersecretary, **Ministry of Electricity and Water, Kuwait**

09:05 **KEYNOTE PRESENTATION**
4th Kuwait master plan: Latest updates, insights and future vision

- Evolving vision for housing development in Kuwait
- Evaluating opportunities for innovation in future road and bridge projects in Kuwait
- Uncovering the ground-breaking mega projects in the region for 2019 and beyond

Saad Muhailbi, Director of Master Planning Department, **Kuwait Municipality, Kuwait**

09:25 **Investment opportunities for infrastructure development**

- Best practices to attract investment for transport and housing projects
- How business and government can collaborate to address emerging economic realities
- Allocating risk in PPP models for reduced costs and effective project delivery

Eng. Faisal Duwaih Alatel, Chairman, **Kuwait Society of Engineers, Kuwait**

09:45 **Strategic initiatives in inclusionary housing development in the Middle East**

- The concept of place making and management
- Inclusionary zoning and market rate housing
- Frameworks for inclusionary housing

Drs. Johan J.H. Beth, Advisor to H.E. the Minister, **Ministry of Housing, Bahrain**

10:05 **Planning and optimisation of road projects to reduce delays**

- Ensuring proper planning of projects to avoid delays
- Setting up cost-optimisation techniques during the planning stage of the projects
- Communicating cost-optimisation techniques and implementing them to achieve best results

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10:25

VIP PANEL DISCUSSION

Envisioning the future of the regional infrastructure development and transportation planning

- Key driving factors behind the impressive pipeline of road and bridge projects coming up in the Middle East
- What future plans are in place to ensure the continued prominence of the housing development
- Developing a national planning model for prioritising road investment projects on a sustainable basis

Saad Muhaillbi, Director of Master Planning Department, **Kuwait Municipality, Kuwait**
Faisal Dowaih Al-Ottol, Chairman, **Kuwait Society of Engineers, Kuwait**
Drs. Johan J.H. Beth, Advisor to H.E. the Minister, **Ministry of Housing, Bahrain**

10:55

AWARD CEREMONY

The Kuwait Infrastructure Summit Awards Ceremony will acknowledge the outstanding achievements and innovations that have contributed to infrastructure development for all stakeholders and end-users during 2018.

Categories:

- Best Road Project 2018
- Best Bridge Project 2018
- Best Tunnel Project 2018
- Best Sustainable Housing Project 2018

11:10

Networking break

ROADS, BRIDGES AND HIGHWAYS



SUSTAINABLE HOUSING



12:00

CHAIRPERSON

Opening address

CHAIRPERSON

Opening address

MOBILITY AND TRAFFIC INFRASTRUCTURE PLANNING IN KUWAIT

ASSESSING THE CURRENT HOUSING REQUIREMENTS IN THE REGION

12:10

Pedestrian signal countdown timers in UAE

- Addressing the issue of distracted driving in UAE
- Introducing the signal countdown timers
- Reducing the number of traffic accidents and easing the traffic flow with the countdown timers

Mohsin Ali Balwan, Director of Traffic Engineering Department, Road Projects, **Roads and Transport Authority, UAE**

Implementing a comprehensive strategy to deliver Kuwait's housing requirements

- Examining Kuwait's long-term housing requirements to understand the rate at which housing needs to be constructed
- Discussing the government plans to develop projects for Kuwait's youth
- Examining the role of the private sector developers in delivering housing stock to reduce housing shortage

Eng. Sandra Draskovic, General Manager, **Kuwait Green Building Council, Kuwait**

12:30

Traffic flow modelling on the road network

- Connecting inner city road networks to ease flow of traffic and congestion
- Considering the specific road infrastructure challenges presented in rural areas
- Incorporating regulatory standards to reduce blockade and allow minimal reconstruction

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Master plan challenges in designing housing projects

- Considering the consequences of road and bridge projects that lacked appropriate designs
- Detecting flaws during early stages of development to prevent redesign, reconstruction and safety issues

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12:50

Carrying out efficient road inspection and applying non-destructive testing methods for highway inspection

- Understanding the benefits of ground penetrating radar
- Going beyond non-destructive testing - how to effectively balance non-destructive and destructive methods for more accurate condition assessments

Nidal S. Odeh, Director - Transport and Infrastructures, **Arcadis, Saudi Arabia**

OVERCOMING DESIGN AND PLANNING CHALLENGES IN ROAD AND TUNNEL CONSTRUCTION

13:10

Unleashing the potential of data to make road safety a reality for all

- How to collect high-quality data in a cost-saving way even in low and middle-income countries
- How high-quality data can be used to learn and develop evidence-based interventions - whether at the policy or operational level for improving road safety
- How to organise the capacity building for efficiently and effectively managing the road safety system

Mohammad Najam Khan, Advisor – Bridge and Road Structures, Department of Urban Planning and Municipalities, **Abu Dhabi City Municipality, UAE**

13:30

Discovering innovative methodologies for deep excavations to improve efficiency

- Tailoring the excavation support according to the excavation size and composition of soil and rock
- Latest developments in shafts and tunnels
- Recent project-specific examples to show solutions

Dr. Fahad Sayah AL-Rukaibi, Assistant Professor, Department of Civil Engineering, **Kuwait College of Engineering and Petroleum**

13:50

PANEL DISCUSSION

Tackling the urban environment: Discovering the challenges associated with underground construction and tunnelling in urban areas

- Undercovering challenges that arise when planning, designing and engineering urban underground space infrastructure
- Mitigating construction risks and managing groundwater inflows
- Tunnelling through difficult ground conditions

Srikanth Pandurangi, Associate Director – Transport Planning, Middle East, **WSP Parsons Brinckerhoff, Kuwait**

Mohsin Ali Balwan, Director of Traffic Engineering Department, Roads Projects, **Roads and Transport Authority, UAE**

Mohammad Najam Khan, Advisor – Bridge and Road Structures, Department of Urban Planning and Municipalities, **Abu Dhabi City Municipality, UAE**

Nidal S. Odeh, Director - Transport and Infrastructures, **Arcadis, Saudi Arabia**

14:20

Networking lunch and end of day one

Affordable housing and the role of government and the private sector in the Middle East

- Overview of affordable housing development in the region
- Evaluating the current situation of housing provisions and frameworks within the region
- Comparing and contrasting the contributions made to housing development by the government and private sector

Joaquin Perez-Goicoechea, Principal & Founding Partner, **AGI Architects, Kuwait**

FINANCING OF HOUSING PROJECTS

Manipulating mortgage regulations to protect the housing market from property price fluctuations

- Assessing the potential impact of the availability of mortgage financing on property prices
- Restricting mortgage financing to speculators and investors to minimise the increase in house prices
- Discussing foreign ownership regulations and the impact that this has on the housing sector

Dr. Adnan A. Al-Homoud, Vice Chairman of the Code Approval Committee, **Ministry of Electricity and Water, Kuwait**

Funding the private sector development of housing to increase housing stock in Kuwait

- Accessing cost-effective development financing to enable profitable housing projects
- Assessing capital market funding to reduce the cost of long-term financing
- Exploring government grants to finance low-cost housing in Kuwait

Loay Ghazaleh, Advisor, Office of the Undersecretary (Us), **Ministry of Works, Bahrain**

PANEL DISCUSSION:

Highlighting the role of Public Private Partnerships in solving Kuwait's housing shortage

- Capitalising on the specialist expertise of governments, developers and financiers to produce cost-effective housing
- Clearly defining the responsibilities of each partner to ensure the success of the project
- Utilising government land banks to reduce the cost of development and increase profitability

Joaquin Perez-Goicoechea, Principal & Founding Partner, **AGI Architects, Kuwait**

Eng. Sandra Draskovic, General Manager, **Kuwait Green Building Council, Kuwait**

Dr. Adnan A. Al-Homoud, Vice Chairman of the Code Approval Committee, **Ministry of Electricity and Water, Kuwait**

Loay Ghazaleh, Advisor, Office of the Undersecretary (Us), **Ministry of Works, Bahrain**

08:00

Registration, refreshments and networking

08:00

VIP Breakfast Briefing: Strategic outlook into metro developments and expansions in the Middle East

- Latest metro projects and expansions in the region
- Latest environmental and site development regulations and policies
- Opportunities for contractors and service providers

ROADS, BRIDGES AND HIGHWAYS

08:50

CHAIRPERSON

Opening address

BUILDING SAFE AND SUSTAINABLE ROADS IN KUWAIT

09:00

Doha metro project – technical approach, unique complexity and key challenges

- Understanding the development plans for the Doha metro
- Examining what it takes to create a successful and reliable metro system
- Implementing latest smart technologies

Hany Farahat, Director General, **WorleyParsons**

09:20

Exploring efficient methods to improve road safety practices

- Emphasizing the effects and significance of rubbernecking on road safety
- Utilizing modern tech and newly found analytical methods to assess the numerical existence of rubbernecking
- Making use of all practical methods to mitigate rubbernecking through

Eng. Husain Asad, Junior Civil Engineer, **Public Authority for Roads and Transportation, Kuwait**

09:40

Sourcing the best construction materials to increase road project's lifespan

- Assessing the relative benefits and challenges of using precast concrete versus steel
- Inspection techniques for superpave versus traditional asphalt

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SUSTAINABLE HOUSING

CHAIRPERSON

Opening address

COST-EFFECTIVE HOUSING CONSTRUCTION

Success of Dubai's Demand Side Management Strategy

- Overview of rationale, policies and strategies for demand side management (DSM) in Dubai
- Integrating water and transport into the DSM Strategy 2030 framework
- Path forward: Introduction of near-zero energy standards in buildings

Faisal Ali Hassan Rashid, Director Demand Side Management, **Dubai Supreme Council of Energy (DSCE), UAE**

Low-cost materials and building techniques for cost-effective construction in Kuwait

- Utilising local materials for cost-efficiency and boosting local trade
- Developing skills for quarrying, cutting and preparing suitable materials
- Using local materials to compliment cultural design and create harmony

Sharifa Al Shalfan, Senior Architect, **AGi Architects, Kuwait**

Reducing the unit cost of construction by utilising advanced building systems

- Assessing the use of aluminium formwork to understand which developments it can be utilised in to make cost savings
- Exploring the benefits of Building Information Modelling in the construction phase to reduce the cost of development
- Using precast concrete to produce low maintenance housing and reduce construction times

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10:00

PANEL DISCUSSION

Managing risk: Determining geotechnical risks and their mitigation during tunnel and bridges building and shoring works

- Understanding technical challenges of tunnel and bridge building and shoring works' planning process to overcome complexities
- Exploring how ground engineering professionals should adapt to address geotechnical challenges during shoring works
- Learning how risks in the future may differ from those today

Susanna Zammataro, Director General, **International Road Federation, Switzerland**
Hany Farahat, General Manager, **WorleyParsons**

PANEL DISCUSSION

Adopting best practice urban planning concepts and techniques to design residential units

- Identifying the key factors for successful and profitable affordable housing projects
- Discussing the definition of affordability in the residential market
- Understanding and meeting the home buyer's expectation of affordable housing

Faisal Ali Hassan Rashid, Director Demand Side Management, **Dubai Supreme Council of Energy (DSCE), UAE**
Sharifa Al Shalfan, Senior Architect, **AGi Architects, Kuwait**

10:40

Networking break and refreshments

BEST-IN-CLASS INNOVATIVE TECHNOLOGIES FOR ROAD AND BRIDGE CONSTRUCTION

ADAPTING THE LATEST TECHNOLOGY TO DRIVE SUSTAINABLE HOUSING DEVELOPMENT STRATEGIES

11:10

Innovation potential of smart parking solutions in the region

- Adapting smart parking in urban areas
- How smart parking can drive business growth and economic development in the region
- Investigating the latest smart parking systems

Srikanth Pandurangi, Associate Director – Transport Planning, Middle East, **WSP Parsons Brinckerhoff, Kuwait**

Designing sustainable residential communities for new urban areas

- Developing large-scale master plans with a focus on sustainability from the outset
- Integrating environmentally-friendly technology into residential communities
- Identifying sustainability concerns specific to cities and urban areas

Dr. Shaikha Abdulattef Mubarak AlSanad, Associate Research Scientist, **Kuwait Institute for Scientific Research (KISR)**

11:30

Traffic automation through sensing and control technologies

- Contribution of automation to resilience in traffic control
- Implementing emergency vehicle notification systems and automatic road enforcement

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Driving housing strategies using the cloud and sources services

- Utilising technology as a means to bind government, private sector and citizens under a homogeneous umbrella
- Knowing the core competencies and allocating duties to save time, effort and energy
- Realising that initiatives to measure progress and drive the growth of sustainable housing

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11:50

Digital evolution in geotechnical engineering

- Digitisation of geotechnical data
- Innovation and adoption of digital disruption initiatives
- The link between complex modelling for design and BIM

Walid Azzi, Head of Discipline - Bridges, **SSH, Bahrain**

Exploring the latest construction technologies utilised to drive down the cost of construction

- Adopting Building Information Modelling technologies to improve construction efficiency
- Analysing lean construction and the feasibility of using this in the Middle East

12:10

Networking break

MAKING THE PATH TO SUSTAINABLE ROAD AND TUNNEL DESIGN

SUSTAINABLE STRATEGIES IN AFFORDABLE HOUSING

12:30

Considering sustainability from design to demolition when building roads and selecting materials

- Integrated approach for building sustainable roads
- Minimising the development footprint
- Eliminating disturbance to water system

Nidal S. Odeh, Director - Transport and Infrastructures, **Arcadis, Saudi Arabia**

Keeping sustainability affordable with green building rating system

- Rating systems for sustainability
- Combining international standards with local need
- Conserving indigenous concerns

Faisal AL Jihayem, Engineer, **Kuwait Oil Company, Kuwait**

12:50

Best practices in protecting bridge and tunnel piles from corrosion

- Adapting piling design criteria to deal with corrosion over the service life of a project
- A cost-effective approach to combating the effects of pile corrosion
- Best techniques to control corrosion on underwater piles

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The use of local limestone in affordable development

- Overview of the benefits of limestone construction
- Environmental, preservation and financial aspects of the use of limestone
- Overcoming issues of limestone use and working examples

Senior Representative, **Kuwait Green Building Council, Kuwait**

13:05

Break and plenary roundtables

13:10

Round table discussion: Multi-discipline road and tunnel development project benchmarking session

This session will showcase the key categories of road and tunnel projects to provide the opportunity to benchmark practices and approaches. Each table will be hosted by a project leader from a key case study. The delegates will be split into groups and move from table to table. The table leader will facilitate a discussion around key questions/issues.

Table 1: Green road construction in the Middle East: A Holistic overview

Srikanth Pandurangi, Associate Director – Transport Planning, Middle East, **WSP Parsons Brinckerhoff, Kuwait**

Table 2: Sustainability performance metrics for tunnel and road design

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Table 3: The role of prefabrication in affordable housing

Loay Ghazaleh, Advisor, Office of the Undersecretary (Us), **Ministry of Works, Bahrain**

Table 4: Affordable green building techniques in hot and dry climates

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14:00

Networking lunch and close of the summit

The published programme is correct at time of printing. However, given the seniority of our speakers and the nature of their roles, speakers may subsequently substitute or remove themselves from the programme. This is always regrettable, and we will always try to replace the speaker with a speaker with equivalent insight. For the most up-to-date programme, please visit the event website.



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