

## 해외출장 복명서

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**Saudi Urban Forum 발표 및 사우디정부와  
과제발굴 논의**

**2016.3**

**국토연구원**

## I. 출장개요

### 1. 출장목적

- UN Habitat와 사우디아라비아 MOMRA(지방자치 농촌부)가 공동으로 개최하는 Saudi Urban Forum에 초청받아 스마트도시 계획에 대한 내용 발표
- 사우디아라비아 정부와 스마트도시 과제발굴에 대한 논의

### 2. 출장개요

- 출장일시: 2016.3.28.(월) ~ 2016. 4.02(토) (4박 6일)
- 출 장 지: 사우디아라비아 리야드
- 출장목적: Saudi Urban Forum 발표 및 사우디정부와 과제발굴 논의
- 출장일정:

| 월 일<br>(요일) | 출발지          | 도착지                           | 방문기관 | 업무수행내용   |
|-------------|--------------|-------------------------------|------|--|
| 3.28<br>(월) | 인천<br>00:40  | 사우디아<br>라비아<br>리야드<br>(12:55) |      | Saudi Urban Forum 발표 준비                              |
| 3.29<br>(화) |              |                               |      | Saudi Urban Forum 참석 및 발표 (Planning of Smart Cities) |
| 3.30<br>(수) |              |                               |      | Saudi Urban Forum 참석                                 |
| 3.31<br>(목) |              |                               |      | Saudi Urban Forum 참석 및 MOMRA와 사우디아라비아 스마트시티 프로젝트 논의  |
| 4.01<br>(금) | 리야드<br>16:00 |                               |      |  |
| 4.02<br>(토) |              | 인천<br>12:05                   |      |  |

### 3. 출장경비

○ 해당사항 없음 (초청국 전액 부담)

## II. 출장내용

### 1. Saudi Urban Forum

- 시간 : 2016년 3월 29일(화요일) ~ 3월 31일(목요일)
- 장소 : King Faisal Conferences Hall, Riyadh InterContinental Hotel
- Program

#### DAY ONE – TUESDAY 29 March 2016

|                                  |   |  |
|----------------------------------|---|--|
| 8:00 - 9:00                      | RECEPTION AND REGISTRATION OF PARTICIPANTS  |  |
| OPENING CEREMONY<br>9:00 - 10:15 | <ul style="list-style-type: none"> <li>● Opening Statement of the Organizing Committee</li> <li>● Speech of Executive Director of UN-Habitat (United Nations Human Settlements Program)</li> <li>● Speech of H.E Minister of Municipal and Rural Affairs</li> <li>Keynote speaker                             <ul style="list-style-type: none"> <li>■ Management and Planning of the Twenty First Century Cities<br/>Prof. Robert BUCKLEY, New York University Abu Dhabi and Former Managing Director of Rockefeller Foundation</li> </ul> </li> <li>● Honoring of Sponsors and Participants</li> </ul>  |  |
| 10:15 - 10:45                    | INAUGURATION OF THE EXHIBITION  |  |
| 10:45 - 11:00                    | COFFEE BREAK  |  |
| FIRST SESSION<br>11:00 - 12:30   | <b>MODERN NEW TRENDS IN URBAN PLANNING</b><br>Session Chair: H.E. Eng. Ibrahim AL-SULTAN, Mayor of Riyadh Region <ul style="list-style-type: none"> <li>■ Planning of Urban Transformations toward a Sustainable Future<br/>Mr. Aw Tuan KEE, Director at the Centre for Liveable Cities, Ministry of National Development, Singapore</li> <li>■ How to create value in Smart and Sustainable Cities<br/>Dr. Philippe BOUVIER, Founder and Managing Partner of Urban Value Creation consulting, France</li> <li>■ Building Partnerships for Urban Regeneration<br/>Dr. Piotr LORENS, Vice President of the International society of City and Regional Planners, Poland</li> </ul>  |  |
| 12:30 - 13:00                    | BREAK - PRAYER  |  |
| SECOND SESSION<br>13:00 - 15:00  | <b>PRINCIPLES OF URBAN TRANSFORMATION</b><br>Session Chair: Prof. Adel AL-DOSARI, Dean of Faculty of Environmental Design, King Fahd University of Petroleum & Minerals <ul style="list-style-type: none"> <li>■ Future Saudi Cities Program – Toward a New Urban Agenda<br/>Dr. Tarek EL-SHEIKH – UN-HABITAT</li> <li>■ Urban Dimensions Of Sustainability &amp; City Resilience<br/>Dr. Bertrand RENAUD, Consultant/ Former Adviser, Financial Development Department, the World Bank, USA</li> <li>■ Community Involvement in the Sustainable Urban Development Planning<br/>Dr. Jorge JARAMILLO, Planning Director at the City of Medellin - Colombia</li> <li>■ Integration of preparedness factors in planning resilient cities<br/>Dr. Angela Michiko HAMA, Director of Scientific &amp; International Operations, alpS - Centre for Climate Change Adaptation, Austria</li> </ul> |  |
| 15:00 - 16:00                    | LUNCH - PRAYER  |  |
| THIRD SESSION<br>16:00 - 18:00   | <b>EXPERIENCES IN URBAN TRANSFORMATIONS PLANNING AND MANAGEMENT</b><br>Session Chair: Dr. Alioune BADIANE, Director Program Division, UN HABITAT <ul style="list-style-type: none"> <li>■ Planning of Smart Cities<br/>Dr. Jae LEE, Director of Smart and Green Cities Researches Centre - Korea Research Institute for Human Settlements, Korea</li> <li>■ Planning Experiences in European Cities<br/>Prof. Peter GOTSCH, Associate Professor of Urbanism Planning - University of Darmstadt, Germany</li> <li>■ Transit oriented Development: transforming the City of Riyadh<br/>The High Commission for the Development of Riyadh, KSA</li> <li>■ Canadian Federation of Municipalities and Best Urban Practices<br/>Mr. Ed CORNIES, City Planning and Governance Consultant, Canada</li> </ul>  |  |
| Workshops<br>16:00 - 18:00       | <b>WORKSHOP 1</b>   | <b>TRAINING WORKSHOP (A)</b>   |
|                                  | HABITAT III & New Urban Agenda<br>Moderated by:<br>UN Habitat   | Urban Management and Urban Economy<br>Moderated by:<br>Institute of Housing and Urban Development Studies (IHS) and Training Centre in MOMRA |

DAY TWO – WEDNESDAY 30 March 2016

|   |  |
|---|--|
| 7:30 - 8:30   | RECEPTION AND REGISTRATION OF PARTICIPANTS   |
| FOURTH SESSION<br>8:30 - 10:00                      | <b>FUTURE OF URBAN PLANNING</b><br>Session Chair: Dr. Abdullah AlThabit, Dean of the College of Architecture & Planning, King Saud University  |
|   | ■ <b>The City we need</b><br>Prof. Rassem BADRAN, Urban Intellectual, Jordan   |
|   | ■ <b>National Urban Policies: Urban Condensation, Cohesion and Integration</b><br>Dr. Rafael TUTS, Head of the Urban Planning and Design Department – UN-Habitat   |
|   | ■ <b>The Third Place in Urban Planning</b><br>Dr. Khondokar NAHIDUZZAMAN, Assistant Professor, Dept. of City Regional Planing, King Fahd Univer sity of Petroleum & Minerals   |
|   | ■ <b>Sustainable Urban Planning and Design</b><br>Dr. Husam AL WAER, Professor of Urban Planning – University of Dundee, Scotland  |
| 10:00 - 10:30                                       | COFFEE BREAK   |
| FIFTH SESSION<br>10:30 - 12:30                      | <b>DIALOGUE ABOUT THE BEST LOCAL PRACTICES IN THE URBAN TRANSFORMATION: TOWARD A NEW URBAN AGENDA</b><br>Session Chair: Dr. Abdulrahman AL-AL-SHEIKH, Deputy Minister for Town Planning, Ministry of Municipal & Rural Affairs |
|   | ■ <b>The Role of Planning &amp; Projects Centers in Managing Urban Transformations</b><br>The High Commission for the Development of Riyadh  |
|   | ■ <b>Jeddah City : Spatial Vision</b><br>Dr. Yasser ADAS - Mega project manager at Jeddah Municipality   |
|   | ■ <b>Building Partnerships In Urban Development, Half Moon Town,</b><br>Eng. Mazen BAKHURJI - Director General of Urban Planning, Eastern Province Municipality  |
|   | ■ <b>Planning Sustainable Urban communities of Special Nature , Ajyal Project</b><br>Eng. Yousef AL SWAILEM - Saudi Aramco   |
|   | ■ <b>Sustainable Urban Planning in Cities of Special Nature</b><br>Eng. Salah BAHABAIL - Director of Economic Planning Department, Royal Commission for Yanbu  |
|   | ■ <b>Urban Transformations in the Economic Cities</b><br>Eng. Abdulaziz ALMOHAIMEED - General Director of Rural Affairs & Urban Planing, King Abdullah Economic City   |
| 12:30 - 13:00                                       | BREAK - PRAYER   |
| SIXTH SESSION<br>Parallel Sessions<br>13:00 - 15:00 | <b>(A) URBAN LEGISLATION: IMPROVING THE QUALITY OF CITY SERVICES &amp; INVESTMENT ENVIRONMENT</b><br>Session Chair: Dr. Ghanem ALMOHAMMADI, Special Counselor to the Minister of Municipal and Rural Affairs                   |
|   | ■ <b>Decentralization of the Municipal services – Experience of the Hashemite Kingdom of Jordan</b><br>Eng. Shehadah ABU HADAIB - Member of the Senate at the Hashemite Kingdom of Jordan                                      |
|   | ■ <b>Legislations Related to the Renovation &amp; Urban Development</b><br>Dr. Abdelaziz ADIDI - CEO of the Urban Planning Institute in Rabat, Morocco   |
|   | ■ <b>Saudi Spatial Planning Act: Key Recommendations &amp; Future Directions</b><br>Dr. Mansour HELMI - Associate Professor at the Faculty of Environmental Design, King Abdulaziz University                                  |

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|---|--|--|
| SIXTH SESSION<br>Parallel Sessions<br>13:00 - 15:00   | <b>(B) EFFECTIVE COORDINATION BETWEEN MUNICIPALITIES &amp; REGIONAL COUNCILS</b>   |  |
|   | Dialogues of Mayors and Representatives of Municipal Councils and Regional Councils on Strengthening Coordination for Enhancing quality and return of municipal services.  |  |
|   | <b>Moderator: Dr. Zaher OTHMAN, Chairman of Advisory Board, King Salman Centre for Local Governance</b>  |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Integration &amp; Coordination as an Approach to Updating &amp; Activating the National Spatial Strategy</b><br/>Dr. Khaled ALNIFAIE - Ministry of Municipal and Rural Affairs</li> </ul>                          |  |
|   | <ul style="list-style-type: none"> <li>■ <b>The Role of Municipal Councils in Promoting Effective Coordination Mechanisms</b><br/>Dr. Amir ALULWAN - General Director, Financial and Economic Programs, Institute of Public Administration</li> </ul>          |  |
| SEVENTH SESSION<br>16:00 - 18:00  | <ul style="list-style-type: none"> <li>■ <b>Coordination Among Ministry of Economy &amp; Planning &amp; Other Governmental Agencies</b><br/>Dr. Waleed ABDULAAL – Advisor of Minister of Economy and Planning</li> </ul>                                       |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Role of Regional Planning in Achieving Decentralization</b><br/>Dr. Ulrich Georg GRAUTE - Independent Expert for International Cooperation &amp; Development</li> </ul>  |  |
|   | ■ <b>DISCUSSION</b>  |  |
|   | 15:00 - 16:00 LUNCH, ASR (AFTERNOON) PRAYER  |  |
|   | <b>ROLE OF UNIVERSITIES AND RESEARCH CENTERS IN SHAPING BETTER URBAN FUTURE</b>  |  |
| WROKSHOPS<br>16:00 - 18:00  | <b>Moderator: Dr. Mohammed ALJOUFI, Dean - Faculty of Environmental studies, King Abdul Aziz University</b>  |  |
|   | <ul style="list-style-type: none"> <li>■ <b>British Universities Experiences in Support of Urban Development in UK</b><br/>Prof. David SHAW - Professor at school of Environmental Science University of Liverpool, UK</li> </ul>                              |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Role of Universities Network in Habitat &amp; Role of the Egyptian Universities in Support of Urban Development Practices</b><br/>Prof. Sahar ATTIA - Cairo University, Egypt</li> </ul>                           |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Cooperation Program between King Abdulaziz City for Science &amp; Technology (KACST) &amp; International Universities</b><br/>Dr. Anas ALFARIS - King Abdulaziz City for Science and Technology (KACST)</li> </ul> |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Advisory Board of Urban Planning at King Fahd University of Petroleum and Minerals</b><br/>Prof. Adel ALDOSARI - King Fahd University of Petroleum and Minerals</li> </ul>   |  |
| Panel Discussion on the<br>Role of the Civil Society<br>Institutions in the<br>Urban Development<br>20:00 - 21:40 | <ul style="list-style-type: none"> <li>■ <b>Role of Universities in Cities Development</b><br/>Dr. Nadine CHAHINE – CEO-placemaking.me &amp; adjunct- Architecture &amp; Interior Design at American University in Dubai</li> </ul>                            |  |
|   | <b>WORKSHOP 2</b>  | <b>TRAINING WORKSHOP (B)</b>                                       |
|   | <b>C P I</b>   | <b>Journalist Training on Sustainable Urban Development Issues</b> |
|   | <b>Moderated by:</b>   |  |
|   | <b>UN HABITAT</b>  |  |
| MODERATOR: MINISTRY OF MUNICIPAL AND RURAL AFFAIRS & AL GHAD DEVELOPMENT ASSOCIATION                              | <ul style="list-style-type: none"> <li>■ <b>Activating the Role of the Community as an Active Partner in Urban Development</b><br/>Mr. Abdulrahman AL RASHID, Ministry of Municipal &amp; Rural Affairs</li> </ul>   |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Local Experiences in Community Engagement</b><br/>Prof. Mardiyah BARDISI, King Saud University / Dr. Ziyad AAZAM, Ministry of Economy &amp; Planning</li> </ul>  |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Dialogue on the Priorities of Youth and Women in the Cities – Toward a Better Urban Future</b><br/>Mrs. Ana FALO / Eng. Nadia BAKHIRJI, Members of International Committee of Women, UN-HABITAT</li> </ul>         |  |
|   | <ul style="list-style-type: none"> <li>■ <b>Role of Youth in the Urban Development</b><br/>Ghad Association YOUTH</li> </ul>   |  |
|   |  |  |



DAY THREE – THURSDAY 31 March 2016

|                                  |  |
|----------------------------------|--|
| 7:30 - 8:30                      | RECEPTION AND REGISTRATION OF PARTICIPANTS   |
| EIGHTH SESSION<br>8:30 - 10:30   | <b>NATIONAL URBAN CAMPAIGN – THE CITY WE WANT</b><br><b>Moderator:</b> Dr. Tarek Azmi Al-Sheikh, UN-HABITAT  |
|                                  | ■ <b>Role of the Ministry of Municipal &amp; Rural Affairs in National Urban Campaign</b><br>Mr. Hamad AL OMAR – Supervisor of PR & Media Department, Ministry of Municipal & Rural Affairs  |
|                                  | ■ <b>World Urban campaign and city Changer Initiative</b><br>Eng. Katja SCHÄFER – Urban Development Expert at the Regional Office for Arab States in Cairo, Egypt  |
|                                  | ■ <b>Development of Public Open Space in Cities</b><br>Prof. Abdulaziz AL DOUSARI – Director of the Saudi Association for Urbanism Sciences, KSA   |
|                                  | ■ <b>Local Initiatives for the Urban Development Campaign – Princess Al-Anood Foundation</b><br>Prof. Abdulaziz AL OSMAN – Director of WARIF Program in Princess Al-Anood Foundation, KSA<br>Mrs. Rasha AL TURKY – Executive Director of AINahdha Association<br>Mrs. Dawolah AL ABOUD – Board Chairman, Ektifa' Association<br>Mr. Nayef ALMALKI, General Supervisor of Medical Cities Program, Ministry of Health<br>Buniyan Association |
| 10:30 - 11:00                    | COFFEE BREAK   |
| NINTH SESSION<br>11:00 - 12:30   | <b>URBAN LANDS MANAGEMENT WITH PARTICIPATION OF WORLD BANK</b><br><b>Moderator:</b> Dr. Ibrahim AL BATHI, Consultant, Ministry of Municipal & Rural Affairs  |
|                                  | Dr. Fouad MALKAWI – Senior Urban development Expert – World Bank   |
|                                  | Dr. Ellen HAMILTON – Development Expert – World Bank   |
|                                  | Dr. Olga KAJANOVA – Lands Management Expert – World Bank   |
|                                  | Mrs. Annie BIDGOOD – Communities Development Expert – World Bank   |
| 12:30 - 13:00                    | ASR (AFTERNOON) PRAYER   |
| CLOSING SESSION<br>13:00 - 14:00 | ■ <b>Forum Declaration: Toward a New Urban Agenda</b>  |
|                                  | ■ <b>Preparatory Steps for the Participation of the Kingdom in the United Nations Summit on Housing and Sustainable Urban Development (HABITAT III)</b>  |
| 14:00                            | LUNCH  |

- 발표내용 및 활동
  - 국내외 스마트도시 사례를 소개하고 사우디아라비아 정부의 스마트 도시 구축을 위한 방안 등에 대하여 논의
- Planning of Smart Cities 발표자료(일부발취)



**Planning of Smart Cities**

06.20.2016

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### 1. Background of Smart City

- Rapid Increase of Global Urban Problem**
  - According to the UN reports, global population is expected to reach approx. 9 billion in 2050 and approx. 67% of the population is expected to be residing in the urban environment (UN, 2014)
- Increasing Concern for Global Climate Change**
  - To cope with climate change effectively, developed countries, especially those in Europe presented the smart city as a means to solve such problems



### 1. Background of Smart City

- "Smart" is the keyword of the 21<sup>st</sup> Century**
  - Smart City that Exploit Information and Communication Technologies are employed by
- (1) developing countries for domestic economic invigoration and solution to anticipated urban problems caused by the rapid increase of urban population
- (2) developed countries for sustainability in the backdrop of global climatic change



The size of Smart City Global Market is forecasted to rapidly increase from 400 billion USD in 2014 to 1.1 trillion USD in 2019 (MarketsandMarkets, 2015)

### 1. Background of Smart City

- Ways of Solving urban problems in Smart City**
  - Smart Cities approach the maximization of urban infrastructure and utilization of financial resources by providing citizens with appropriate real-time information

| Ways of Problem Solving in Smart Cities (Example) |                          |  |
|---|--------------------------|--|
| Urban Problem                                     | Current City             | Smart City   |
| Traffic Jam                                       | Expansion of Roads       | Provision of bypass Information                          |
| Increase of Crimes                                | Increase of Police Force | Real-time monitoring via CCTV                            |
| Rapid Increase of Electric Consumption            | Expansion of Power Plant | Provision of Real-Time Information of Electrical Charges |

Expansion of Urban Infrastructure → Provision of Smart Services



### 1. Background of Smart City

- The Concept of Smart City**
  - Smart City is usually defined as "a City enabled to solve urban problems through the exploitation of ICT (Information & Communication Technology) or as a sustainable city enabled to improve the level of urban competitiveness and quality of life".



### 1. Physical Space and Cyber Space

- Physical Space vs Cyber Space**
  - Both Physical Space and Cyber Space are necessary to be considered together for Better Smart City Planning





○ 관련 사진



- 사우디아라비아 정부의 각 관련 부처들이 적극적으로 참여하는 등 사우디아라비아 스마트도시 프로젝트 추진여부에 대한 관심이 매우 높음

## 2. MOMRA와 사우디 정부 스마트시티 프로젝트 논의

- 사우디아라비아 정부는 스마트도시 구축에 매우 관심이 높으며 현재 1단계 사업으로 스마트도시 구축 타당성에 대한 검토를 수행 중에 있음
- 인도 등의 스마트도시 프로젝트 추진과 유사하게 현재 사우디아라비아에서는 스마트도시 추진에 대한 확실한 방향이 존재하지 않음
  - 특히, 스마트도시와 기존 도시계획 측면을 연계시키는 것에 많은 관심이 있지만 실제 추진을 어떻게 할 것인지에 대하여 여전히 논의 중에 있음
  - 정보통신기술적 측면은 글로벌 기업인 IDC에서 지원 중에 있으며 IDC에서는 사우디아라비아에 적합한 솔루션 논의 보다 보편적 솔루션에 대한 논의를 위주
  - 반면, 스마트도시 법 및 향후 스마트도시 지표 수립에 대한 관심은 높음
- 1차적으로 타당성 검토 후 2단계에서는 17개 도시에 대한 시범사업, 3단계에서는 스마트도시 확산을 계획하고 있음
  - 향후 2단계 사업이 확정될 것인지에 대한 지속적 모니터링과 2단계 사업 확정 시 사업에 참여할 수 있는 방안 모색이 필요