

PROFESSIONAL DIPLOMA IN INNOVATION TOWARDS SMART CITIES



What is the Professional Diploma in Innovation towards Smart Cities?

The diploma comprises of a series of modules related to the pillars of a smart city including economy, governance, ICT, environment, health, education, security, mobility and infrastructure and people.

At the end of the diploma students will:

1. Understand the concept of "Smart Cities" and implement innovative projects related to smart cities.
2. Support world class "Smart City" projects in all participating organizations.
3. Work in synergy with city departments and private institutions to develop coordination, innovation and cooperation on "Smart Initiatives."
4. Facilitate and create a network for the interaction of academia, industry and government institutions in the field of innovation in Smart City development.
5. Create and supervise innovative smart city projects with Public-Private Partnership (PPP).

"Innovate or Stagnate"

**His Highness Sheikh Mohammed bin Rashid Al Maktoum
Vice President and Prime Minister of the UAE and the Ruler of Dubai**

Program Modules & Timings

- ▷ Four workshops - Three days each
- ▷ Duration: September - December, 2017

Exact dates will be determined at a later stage upon participants' feedback.

Workshop 01 (26 - 28 September, 2017)

Creating the Future City

The objective of this workshop is to understand how to create urban value in future cities. Key questions will be answered:

1. What is the evolution of the cities?
2. What are the different types of cities in the world?
3. What is the model of a Smart Sustainable City?
4. What value can be created in a Smart Sustainable City?
5. What are the success Stories of Smart Cities?

Workshop 03 (28 - 30 November, 2017)

Digital Innovation and Technology Disruption

The objective of this workshop is to learn about digital transformation and the disruptive technologies in the context of the smart city. The workshop is divided into three parts: digital transformation from the business perspective, IT enablement industry impacts of technological innovation such as big data, analytics and IoT. The customer experience from the business perspective. In addition, based on the three parts we explain how transform a smart city to a digital city.

The learning outcomes from this workshop are:

1. Understand digital business strategy
2. What digital capabilities do you most need to focus on?
3. How can you derive value from business complexity while keeping that complexity manageable?
4. Understand how big data and analytics can be used for innovation and for smarter decision-making
5. What are the common missteps leaders make when creating a digital transformation strategy?
6. Who should be involved in the digital transformation process?
7. What are the practical steps to starting a digital transformation project?
8. What roles do innovation, technology and marketing play in digital transformation?
9. How do we best measure our transformation progress?

Final Assessment

Participants to present their smart and innovate projects proposing "value creation projects" across city departments.

Subject Matter Experts



Dr. Philippe Bouvier

Dr. Philippe Bouvier is a recognized international expert in urban digital transformation, critical infrastructure protection, and in the integration of complex systems. He is also a recognized expert at the European Commission in Security Risk Management. He has 20 years of experience in Consulting, Project management, Audit, Research, Marketing, Communications, Sales, Mergers and acquisitions, Business development, Team leadership and Entrepreneurship.

He has a worldwide practical experience of consulting and technical architecture design in multiple sectors including integrated urban management, urban security, public water, energy, public transportations, oil & gas, airports, air bases, banks, ships and aircraft.

He holds an Executive MBA at INSEAD in Singapore and a PhD from Paris University. His PhD is in urban studies (urbanism and city management).



Dr. Ioannis Karamitsos

Dr. Ioannis Karamitsos has vast industry and research experience over 25 years as an executive manager who worked within the private and public sectors and experienced within European, Middle East and Chinese companies.

His industry expertise includes understanding smart cities and urban transformation, understanding urban economies and environments, and policy aspects of Smart Cities.

He was strategist advisor for the development of the two smart cities in KSA, the Information Technology Complex (ITCC) and King Abdullaziz Financial Center (KAFC) and supported the strategy for developing a suite of smart city services.

He has also executive certificates from MIT (Tackling the challenge of Big Data) and from Columbia Business School (Driving Strategic Impact Program).



Mr. Novel Tjahyadi

Mr. Novel Tjahyadi is an Innovation Specialist and an entrepreneur. As an Innovation Specialist, his main role is championing innovation strategy and framework, as well as cultivating innovating culture within the entity.

He has successfully co-founded and launched a Dubai-based technology start-up in the area of people and asset tracking as well as 3D medical imaging solutions. With a total of 20 years of professional experience, Novel has had the opportunity to work in 7 countries spanning from Europe, Middle East, Asia and Australia. He spent 14 years of his career in oil & gas sector and management consulting, in which he held various positions, including general management, project management, engineering and human resources.

Novel is a certified innovation specialist, a design thinking trainer and a member of International Association of Innovation Professionals (IAOIP).

Workshop 02 (24 - 26 October, 2017)

Driving Human-Centered Innovation in a Smart City

The objective of this workshop is to learn the importance, dynamics and challenges of driving disruptive and human-centered innovation that deliver happiness to the citizens in a smart city. Key topics to be analyzed using innovation techniques, best practices and case studies:

1. Competitive Advantage through Disruptive Innovation
2. Human-Centered Design Principles for Innovation in a Smart City
3. Smart City as Innovation Ecosystems
4. Building Blocks Needed for a Mature Innovation System
5. Innovation in Government Services.

Workshop 04 (19 - 21 December, 2017)

From Vertical to Integrated management

The objective of this workshop is to understand the challenges in vertical urban departments; and how integration through a "smart sustainable city" strategy could create value innovation in the urban environment. Key verticals will be analyzed, including:

1. Mobility
2. Security
3. Water and waste management
4. Energy
5. Sustainability
6. Environment
7. Governance
8. Economy
9. Others

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