القمة العالمية للحكومات 2016
His Highness Sheikh Khalifa Bin Zayed Al Nahyan
President of the United Arab Emirates
His Highness Sheikh Mohammed Bin Rashid Al Maktoum
UAE Vice President, Prime Minister and Ruler of Dubai
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World Government Summit 2016

In line with the directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, the Government has succeeded in transforming the Summit from a forum into an organization, offering integrated knowledge services for governments and global institutions, with a keen view to foresee future governments, create knowledge, and organize events throughout the entire year. The Summit’s new name reflects the aim to expand its role at the international level, as well as strengthen partnerships with major global and regional organizations, such as the United Nations, League of Arab states, Gulf Cooperation Council, World Bank, Organisation for Economic Co-operation and Development, and World Economic Forum. The World Government Summit witnessed 10 major changes, and was held from February 8 till February 10, 2016.
We want a farsighted government that can anticipate the future and be ready for it, a government that is able to use the tools of the future.

H.H. Sheikh Mohammed Bin Rashid Al Maktoum
UAE Vice President, Prime Minister and Ruler of Dubai
Main Sessions
Main Address
Honorable Barack Obama

Speaker: Honorable Barack Obama
President of the United States of America

On the first day of the World Government Summit 2016, President Barack Obama opened his main address by reminding the audience that governments exist for the purpose of helping citizens improve their lives, by truly investing in education, skills, health and security. Hence, when human rights are honored and respected, prospects for living in peace and prosperity are greater, indeed.

President Obama subsequently stated that a lack of good governance may result in a state of disturbance. However, true and lasting security provided by inclusive governments would ensure the education of our children and a shared commitment to justice and human rights protection.

Therefore, governments should collaborate together to prepare younger generations for the global economy growth. With a real commitment to protecting equal opportunities.
Government exists for one reason; to serve our people, to help improve their lives.

Honorable Barack Obama
President of the United States of America
Lt. General H.H. Sheikh Saif bin Zayed Al-Nahyan, Deputy Prime Minister and Minister of Interior of the UAE, confirmed that ongoing national achievements, made by the UAE across various sectors, personifies the Integrated Doctrine—endorsed by late Sheikh Zayed bin Sultan Al Nahyan, may God rest his soul, and his brethren, the founding fathers of the UAE and builders of the Union. This approach was upheld by H.H. Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE, with a keen view to achieve further prosperity and success. In this respect, H.H. Sheikh Saif bin Zayed Al-Nahyan expressed his confidence in the UAE wise leadership’s ability to use the present in order to shape the future, by embracing the Integrated Doctrine in all walks of political, economic, social, and intellectual life. He also confirmed the leadership’s unrelenting endeavor to gain an Emirati foothold in tomorrow’s world, regardless of any potential challenges occurring. Furthermore, Lt. General H.H. Sheikh Saif bin Zayed Al-Nahyan said, “The word ‘surprise’ does not exist in UAE’s dictionary, relying on wisdom, planning, determination, initiative and readiness. We firmly believe that responding to crises when they occur only means inevitable failure.”
The Integrated Doctrine has established our most precious asset; the blessed Federal State that cares for, protects us and looks out for the future of our children. It is the model that has no equivalent in the world in its unremitting benevolence.

H.H. Sheikh Saif bin Zayed Al-Nahyan
Lieutenant General Deputy Prime Minister and Minister of Interior
First Day
Sessions
The Dawn of the Fourth Industrial Revolution

Speakers:

H.E. Mohammad Bin Abdullah Al Gergawi
Minister of Cabinet Affairs and The Future, Chairman of the World Government Summit, United Arab Emirates

Professor Klaus Schwab
Founder and Executive Chairman of the World Economic Forum

H.E. Mohammad bin Abdullah Al Gergawi, Minister for Cabinet Affairs, Chairman of the Organizing Committee of the World Government Summit, delivered the opening address at the fourth edition that opened under the theme, ‘Shaping Future Governments’, saying that the summit will not end after three days. We will continue to communicate with you and the march of research and knowledge will continue to move forward. H.E. added “because we always wanted to be a part of the future, influencing it and not getting influenced by it, while keeping abreast of the changes and not being resistant to them”.

The minister said: “This is the vision we have set out for our government in UAE, and this is what Sheikh Mohammed bin Rashid Al Maktoum has identified as an indicator of the performance of all our works and our projects”.

Then, Professor Schwab, Founder and Executive Chairman of the World Economic Forum, affirmed that a tsunami of technological changes has brought about the advent of the Fourth Industrial Revolution, mandating governments to accommodate them.

In this respect, Professor Schwab affirmed “governments must put the whole emphasis on the development of human capital, for capitalism - in some ways - has been replaced by talentism”.

PLENARY SESSION
The Fourth Industrial Revolution is coming like a Tsunami, it will be overwhelming to see the changes...
The future will not consist of countries divided by developed and less-developed economies. They will be divided by innovative and non-innovative ones.

Professor Klaus Schwab
Founder and Executive Chairman of the World Economic Forum
We always wanted to be a part of the future, influencing it and not getting influenced by it, while keeping abreast of the changes and not resistant to them.

H.E. Mohammad Al Gergawi
Minister of Cabinet Affairs and the Future, Chairman of the World Government Summit
During a speech delivered at the World Government Summit 2016, H.E. Stefan Selig, Under Secretary International Trade at the US Department of Commerce and Head of the US Delegation, stressed the importance of potential innovation in modern economy, as well as the responsibility of modern governments to meet challenges and achieve their citizens’ aspirations. He also referred to the efforts exerted by the US government in various areas, such as healthcare, education, and commerce, in order to prove the responsibility it assumes towards its citizens.

H.E. Stefan Selig concluded his address by affirming that governments can learn from each other, embodying this Summit’s main objective. All these efforts will deepen global cooperation, which will enhance the political, economic, strategic and diplomatic interests of the entire world.
Our countries can learn from each other. We can make our governments even more responsive and accountable to our citizens, and that is precisely why this Summit is so critical in governing the future.

H.E. Stefan M. Selig
Under Secretary for International Trade at the US Department of Commerce
Inclusive Governance: The Foundation for Building Human Opportunity and Prosperity

Speaker:
H.E. Jim Yong Kim
President of the World Bank Group

H.E. Jim Yong Kim, President of the World Bank Group, stressed the importance of good governance as the foundation of all development processes, paving the way for delivering quality services, creating job opportunities, and ensuring prosperity. He also confirmed the deteriorating economic conditions witnessed in this particular moment in history, where rates of extreme poverty have significantly increased. H.E. Jim Yong Kim pointed out three key factors contributing to the reduction of poverty and enhancement of prosperity, namely inclusive economic growth, investment in people’s health and education, as well as alleviation of risks, such as unemployment, diseases and epidemics, and climate change.

The speaker stressed the importance of cooperation between the World Bank and governments in supporting education, in order to ensure poverty alleviation and women participation in the workforce.
An end to poverty by 2030 requires inclusive governance.

H.E. Jim Yong Kim
President of the World Bank Group
H.E. José Ángel Gurría, Secretary General of the OECD, talked about joint efforts exerted to address many challenges facing the region, noting the OECD’s role as a facilitating hub.

H.E. stated that OECD cooperation with the UAE in the MENA region prioritizes education, small and medium enterprises, and gender equality, and seeks to ensure creation of decent jobs for women, as well as equal access to public services.

Gurría further recommended that governments reach out to the grassroots, to examine how policies are implemented and assess how initiatives are experienced at the community level. He encouraged governments to clearly identify their directions and exploit the public sector in order to foster innovation so as to improve ordinary people’s lives.
Good public governance is the foundation of inclusive growth. We must strive to promote open and innovative public sectors; which actively engage with their citizens; which focus upon expanding opportunities for all; which support businesses to create jobs and fuel the economy; and which provide high performing accessible social services – particularly health and education.

H.E. José Ángel Gurría
Secretary General of the OECD
When The World Spoke Arabic—The Forgotten Legacy of Arabic Science

Speaker:
Professor Jim Al-Khalili
Professor of Physics and Public Engagement in Science at the University of Surrey, United Kingdom

Jim Al-Khalili, Professor of Physics and Public Engagement in Science at the University of Surrey, reminded the audience of the countless contributions of the Golden Age of Arab sciences, emerging from Baghdad in the mid-9th century, while highlighting contributions of Ibn Al-Haitham, who he named the greatest physicist over a period of 2000 years, as well as those of dozens of other Arab scientists in the fields of optics, chemistry, physics, medicine, mathematics among others, to modern sciences.

Pro. Al-Khalili reclaimed a continuum of sciences, extending back to the Greek era, through the Golden Arab and muslim Age and up to this day. He also stressed the critical role the translation of texts and ideas plays, as well as that of the rich scientific developments witnessed during the Golden Age.

Pro. Al-Khalili also raised concerns that less than half of 1% of GDP is spent on research and development in many Muslim countries, and that the per capita number of scientists in the Arab World is less than 10, compared to 140 per 1000 elsewhere. He appealed to the audience to recreate the “House of Wisdom” of the Golden Age hence, solutions to the world’s problems and the betterment of humanity will emanate, he concluded, from a thirst for knowledge and curiosity about the world.
Can this part of the world regain its past glories? It is not an issue of financial backing; it needs a rational spirit of free inquiry.

Professor Jim Al-Khalili
Professor of Physics and Public Engagement in Science at the University of Surrey
Dr. Neil deGrasse Tyson, Director of the Hayden Planetarium at the American Museum of Natural History, United States of America, argued that the science of today is the mother of the technology of tomorrow. While providing an overview of contributions and investments in scientific research, he affirmed that nations - wishing to lead rather than follow - must be willing to invest in scientific exploration with unknown returns in fields not yet known by the public.

Hence, even traditional industries are now making use of the development of science and technology. To exemplify, he provided numerous invisible scientific discoveries - dating back decades - that contributed to today's technology - whether the ubiquitous smart phone or health discoveries.

He argued that this is the time and place to resurrect this culture of discovery and exploration, that this is a new era of hope.
This is the time and place to resurrect this culture of discovery and exploration; this is a new era of hope.

Dr. Neil deGrasse Tyson
Director of the Hayden Planetarium at the American Museum of Natural History
How CleanTech is Shaping the Future of Energy

Speakers:
H.E. Saeed Mohammad Al Tayer
MD & CEO Dubai Electricity & Water Authority, United Arab Emirates

Mr. Joe Kaeser
President And Chief Executive Officer of Siemens AG, Federal Republic of Germany

Moderator:
Mr. John Defterios
CNN Channel

H.E. Saeed Mohammad Al Tayer, MD & CEO Dubai Electricity & Water Authority, announced that the United Arab Emirates plans to rely on renewable energy at a capacity of 75% by 2050.

During the WGS “How CleanTech is Shaping the Future of Energy” session, Al Tayer mentioned that the UAE is investing in “a smart network that will help in saving energy”. The speaker added that Dubai is intending to minimize the demands of energy by 30% by 2030, and hopes to promote the “Cooling Technology”, “Green Construction”, and “Changing the Attitudes” approaches to encourage people to buy electrical cars. In this respect, Al Tayer mentioned that the country has just completed the manufacturing of 100 charging stations.

From his point of view, Joe Kaeser, President and Chief Executive Officer of Siemens AG, praised the vision of the United Arab Emirates, which aims at shaping a “fossil fuels-free, twenty-first century”; Kaeser expected that the price of oil will not have a global, negative effect on investments in renewable energy fields, but pointed out the importance of decreasing the cost of renewable energy to become economically viable.

The speakers highlighted the possibility of using renewable energy through preserving carbon, and storing and discovering a combination of energy sources suitable to each country.
At Dewa, we have an integrated vision in energy sector that focuses on energy security through diversifying its resources, adopting latest technologies to ensure energy storage, capturing CO2, and increasing efficiency in the production, transmission, and distribution of electricity and water.

Mr. Joe Kaeser
President And Chief Executive Officer of Siemens AG

The price of oil will not have a global, negative effect on investments in renewable energy fields, but it is important to decrease the cost of renewable energy to become economically viable.
Preparing for the Future: Five Things Arab Governments Should Act on Now

Speakers:
H.E. Dr. Nabil ElAraby
Secretary General of the Arab League

H.E. Dr. Abdul Latif Al Zayani
Secretary General of the Cooperation Council for the Arab States of the Gulf

Moderator:
Abdulrahman Al-Rashed
Journalist and Columnist

Participants in the “Preparing for the Future: Five Things Arab Governments Should Act on Now” session discussed security, economic, and political challenges facing the Arab world. H.E. Dr. Nabil ElAraby, Secretary General of the Arab League, noted that Arab nations had many issues to deal with, but five of them were essential for the existence and future of the Arab world. The first issue was that of good governance, which could only be achieved by addressing the second one; education and scientific research. Whereas, the third issue addressed sustainable development, and the fourth tackled combating and eliminating terrorism and its sources. The fifth issue represented the ongoing political conflicts in the Arab world. In this respect, ElAraby stated, “Capacities in the Arab world should be employed to find a solution for conflicts that are weighing very heavily on us, politically, economically, and socially.”

GCC Secretary General, Abdul Latif Al Zayani, considered five important issues, starting with the need to set a vision for the Arab world’s preparation for the next stage. He also referred to the second issue, which is terrorism, and the need to combat extremism and stop the financing of terrorist groups. The third issue was humanitarian work and the need to ensure the Arab countries’ support provided to refugees, whereas the fourth tackled the necessity to impose international laws, requiring the UN Security Council to ensure compliance with respective laws and treaties related to the region’s crisis. The fifth issue addressed the importance to pave the way for a post-war stage, in which peace and development can be achieved.
In my opinion, these terms are: good governance, emphasizing on education and scientific research, emphasizing sustainable development, elimination resolving conflict in the region.

H.E. Dr. Nabil ElAraby
Secretary General of the Arab League

I believe that the five elements are: specifying a vision, eliminating terrorism, caring about humanitarian work, committing to applying international law, and finally, preparing for post-peace term.

H.E. Dr. Abdul Latif Al Zayani
Secretary General of The Cooperation Council for the Arab States of the Gulf
How Governments Get Ready for the Unthinkable

Speaker: Mr. Peter Schwartz
Futurist and Senior Vice President of Strategic Planning at Salesforce, United States of America

Futurist and Senior Vice President of Strategic Planning at Salesforce, Peter Schwartz, said that governments need to think in a non-traditional way and imagine the surprises the future may bring, for the real test is to make the right decisions about the future, today.

In a session entitled: “How Governments Get Ready for the Unthinkable”, which was held within the World Government Summit 2016, Mr. Schwartz pointed out that surprises - such as the magnitude of the Soviet Union collapse, the global financial crisis, and even the advent of digital technology - were foreseen as prominent indicators.

Schwartz cited the Kodak camera company as an example that had committed a fatal mistake when failed to foresee the role of digital technology. Today, billions of images are taken using digital memory without the use of conventional cameras. He also added that the government of Singapore had foreseen the financial crisis, and had, therefore, taken respective actions in this regard.

Schwartz predicted that the world is going to witness great changes in the future, including the ability to reduce hereditary genetic diseases, and affirmed that our grandchildren will not suffer from any of these. He added that, soon, students will depend on some drugs to enhance their abilities: they would have them for breakfast to become smarter and stronger. Not only that, but Schwartz also outlined that there will be neurochips planted in our brains to help people control their organs.
Governments need to think in a non-traditional way, and imagine the surprises the future may bring, for the real test is to make the right decisions about the future, today.

Mr. Peter Schwartz
Futurist and Senior Vice President of Strategic Planning at Salesforce
Is Coding the Language of the Future?

Speaker:
Ms. Jennifer Pahlka
Founder and Executive Director of Code for America, United States of America

Moderator:
Mr. Peyman Al Awadhi
Founder of Barza New Media, United Arab Emirates

Mr. Peyman Al Awadhi, Co-Founder of Barza New Media, started the session with a quote by writer Maya Angelou stating, “I’ve learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel.” Al Awadhi then engaged in a dialogue with Executive Director of Code for America, Jennifer Pahlka, about coding; an essential tool for “the language of tomorrow” that could be used in the future, and tackled the possibilities and opportunities gained by introducing this language to school students at an early age.

Ms. Pahlka added that software applications would allow citizens to participate in leadership roles and help change society, shaping the meaning of citizenship in the future. Soon, applications provided by the public sector will transform people from consumers into producers and “doers.”
We must develop technology-minded citizens, and therefore deal with coding as a language of citizenship, rather than a language emanating from the future.

Ms. Jennifer Pahlka
Founder and Executive Director of Code for America
Tim O'Reilly, Founder and Chief Executive Officer of O'Reilly Media, United States of America, pointed out that the government's role is to work as a platform; a highway of innovation. O'Reilly noted that what is still missing is the provision of a minimum level of infrastructure services. Hence, he mentioned that governments and public services have been designed in a different way, compared to other services, which results in the availability of dedicated technology services. When a government acts as a platform, it will serve as a complementary set of small boxes; if one breaks, it can be repaired in order to ‘get smarter’ and offer better services. This would require changing the processes used by the government through building different structures for a new digital reality.
Governments must serve as citizen platforms
The Future of Our Economy is “Shared”

Speaker:
Professor Arun Sundararajan
Professor of Information, Operations and Management Sciences at NYU Stern Business School, United States of America

Arun Sundararajan, Professor of Information, Operations and Management Sciences at NYU Stern Business School, stated that the current economic model is undergoing a significant change. Sundararajan said that there is a tremendous potential in the sharing economy; this new model will start blurring the barriers between gift and market economies. As we shift to this new peer-to-peer model, we face more regulatory barriers. Sundararajan concluded that we are on the early stages of fundamental rethinking of how we regulate activities in our economy. The role of governments’ need to change too, due to the significant burden on the government to regulate each provider. This will lead to the creation of self-regulatory entities working under the supervision of the government. There is also another approach called “peer-regulation”, by virtue of which a group of experts on each platform would be responsible for regulating the economic process, under the supervision of governments, too.
The 20th century witnessed a transition from market economy to organization economy, where most of the economic activity was organized inside firms. Now, we are about to see a third model of economy combining both firms and markets; it is called the “sharing economy”. It covers a wide range of sectors such as transportation, healthcare, financial services, labor market, etc.

Professor Arun Sundararajan
Professor of Information, Operations and Management Sciences at NYU Stern Business School
In his WGS session, Paul Andersen, Founder of BozemanScience, discussed the future of education and suggested methods that could be used to improve the learning experience. Andersen affirmed that after 20 years of teaching, he concluded that there was a problem in the way he taught his students. He noticed that for almost all of these years, he was standing in the classroom running the show. He also noticed that when he was working individually with students, he was more efficient compared to when working with the whole class or groups of students. He started looking for an answer to this problem, and then found it in video games.

Hence, it was easier for students to become engaged in a video game, however still felt bored in classrooms. He started to take games as a way to redesign his classroom. He thought that gamification consists of a number of elements that could be applied to the real world, where students could start their learning process at a first level, then move to other advanced ones as they make more achievements and collect more points.

Mr. Andersen believes that it would be more like a woodshop, where students learn some skills then work on a project, or an art studio, where they acquire some skills and work on an art installation. It would be very similar to our recent jobs, where we solve problems, work with people, and most of the time, communicate with each other. That is what schools are going to look like.
Gamification is not playing games, but taking elements of games and applying them in the real world.

Mr. Paul Andersen
Founder of BozemanScience
Are We Safe in a Digital World?

Speaker:
Mr. Rod Beckstrom
Cybersecurity Expert and Former President and Chief Executive Officer of ICANN, United Arab Emirates

Cybersecurity Expert and Former President and Chief Executive Officer of ICANN, Rod Beckstrom, talked to the World Government Summit 2016, about the issue of safety in the digital world we are living in today. He started by asking a few questions on how is the cyber world we live in working, and what happens when millions of new devices are daily plugged into the global network. Mr. Beckstrom referred to a number of doomsday scenarios that we should be working on to avoid. The reality, today, is that even if you buy the most expensive security appliances and technology, hackers can still get through your system.

Mr. Beckstrom presented a number of ideas that could be used by governments to avoid cyber security threats and these are: first, governments must remember the reality and the models in order to develop this sort of philosophy of cybersecurity. What are the ethics? What are the real system dynamics if we are going to have good policy recommendations that are going to have an impact? Second, governments should promote competencies and multi-stakeholders’ engagement, however no one can solve this problem alone. Finally, we have to invest and promote cyber risk management. This is a big movement happening today in many countries.
We have to develop this sort of philosophy of cybersecurity. We have to think about how the system is working. What are the ethics? And what are the real system dynamics that will be adopted if we are developing good policy recommendations that will have a great impact?

Mr. Rod Beckstrom
Cybersecurity Expert and Former President and Chief Executive Officer of ICANN
Crash Course on Life: Surviving Stress

Speaker: Professor Pandit Dasa
Professor and Author, United States of America

Professor Pandit Dasa, Meditation Professor, hosted a session during the World Government Summit 2016. He affirmed that mindfulness, of which meditation is the most important component, is a powerful technique for combating stress. “Mindfulness means becoming aware of one’s thoughts and emotions, and bringing one’s mind to the present moment. It is the act of getting in touch with one’s self. Meditation training makes you focus better, relaxes your body and mind”.

Dasa further added that meditation makes us more productive and enhances our creativity and memory. According to the Journal of American Medical Association, “When it comes to treatment of depression, anxiety, pain, the meditation practice may be just as effective as medication. Meditation is a workout for your mind. The key is to make the mind your friend. And that’s possible through meditation, which reduces conflict in our daily lives, improves relationships, makes us more connected and become more compassionate.”
Meditation makes you more productive, and enhances creativity and memory.

Professor Pandit Dasa
Professor and Author
Governance of the Future in Collaboration with the OECD

Speakers:
H.E. José Ángel Gurría
Secretary General of the OECD

H.E. Ohood Al Roumi
Minister of State for Happiness and Vice Chair of the Organization of the World Government Summit, and Member of the Global Entrepreneurship Council, UAE, United Arab Emirates

H.E. Kristina Persson
Minister for Strategic Development and Nordic Cooperation, Kingdom of Sweden

H.E. Liliana Caballero
Minister of the Administrative Department of the Public Function, Republic of Colombia

H.E. Ana Gabriel Zuñiga Aponte
Vice Minister on Political Affairs and Citizen Dialogue at Ministry of the Presidency, The Republic of Costa Rica

Sir John Elvidge
Former Permanent Secretary of The Scottish Government

Mr. Luiz De Mello
Deputy Director of Public Governance and Territorial Development at the OECD

H.E. José Ángel Gurría, Secretary General of the OECD, affirmed that governments cannot face potential crises of the future without developing plans and new approaches. “We are trying to encourage governments to shape the future rather than just ensure problem-solving,” he stated. In this respect, he mentioned that governance leads to crystallization of new ideas in the context of increasing risks, such as climate change and financial crises, hence, it is of utmost importance to develop a new approach to face today’s economic and environmental challenges. From her side, H.E. Kristina Persson, Swedish Minister for Strategic Development and Nordic Cooperation, stressed the need for world governments to face up to their common challenges, while emphasizing the fact that establishing good governance systems will provide equal opportunities, and noting that this constitutes a priority for the Swedish government.

H.E. Liliana Caballero, Minister for Administrative Department of the Public Function, Colombia, observed that despite everything that has happened in her country due to conflict, Colombians have pursued development. She explained that today’s work is based upon two fundamental elements: future and trust. Hence, the Colombian government must try to provide the public with the best services possible and aspire to develop systems despite the budgetary crisis it faces. The government is working to ensure access to technology in all parts of the country, as well as to train people acquiring necessary skills for working with technology.

H.E. Ana Gabriel Zuñiga Aponte, Vice Minister on Political Affairs and Citizen Dialogue at the Ministry of the Presidency of the Republic of Costa Rica, affirmed that open government has led to a new understanding of citizenship, and hence it is important to learn to trust and be productive. Citizens are not only electing representatives, but also implementing policies. Citizens are not only electing representatives, but also implementing policies. Sir John Elvidge, Former Permanent Secretary of the Scottish Government, concluded the session by indicating that there is no country that would not want to improve the conditions of its citizens. He pointed out that his country has engaged its citizens in the assessment of its performance.
World governments must face up to their common challenges, while emphasizing the fact that establishing good governance systems will provide equal opportunities, and noting that this constitutes a priority for the Swedish government.

Open government has led to a new understanding of citizenship, and hence it is important to learn to trust and be productive. Citizens are not only electing representatives, but also implementing policies.

Today’s work is based upon two fundamental elements: future and trust.

There is no country that would not want to improve the conditions of its citizens. My country has engaged its citizens in the assessment of its performance.
How is Social Media Transforming the Future of Education?

Speaker: Dr. Derek Muller
Physicist, Filmmaker and Television Presenter, Australia

According to Physicist, Filmmaker and Television Presenter, Dr. Derek Muller, “Normally we have to see it to believe it, but actually we must believe to see”. With this belief, Muller launched his popular YouTube channel, Veritasium, a few years ago, which has garnered 3,000,000 subscribers. Veritasium is named after a real element and through it Dr. Muller practices his passion – a love of teaching.

For Dr. Muller, teaching is not a profession, it is a way of life and he is prepared to go to any lengths to teach. This is the case for many teachers willing to share in the knowledge process at all times and despite the varying reasons for their participation.

Dr. Muller stressed the fact that the use of different technologies doesn’t change our ways of learning. For him, learning cannot be limited to watching videos; it is not simply about transferring information from teacher to student. It is a set of memories that are stored through the social experience of learning.

According to Dr. Muller, social media will create a change in learning in terms of what students do with this information, not with how they connect data; students and teachers will work together to reach the information.
Social media will create a change in learning in terms of what students do with this information, not with how they connect data; students and teachers will work together to reach the information.

Dr. Derek Muller
Physicist, Filmmaker and Television Presenter
Second Day Sessions
The Honorable Paul Kagame, President of Rwanda's believes that the success of Rwanda comes from their understanding of the role of the government and listening to their citizens. He also added that nations would fail if they did not listen more to what is said by others.

In an open session with the President, during World Government Summit he shared some of Rwanda’s experiences in development, by clarifying that the economic growth in his country will continue, because investments started internally, and were not dependent on external elements.

He also indicated that Rwanda set important laws in the past, and still needs additional ones to strengthen the stability of investments in the country. This is where donor countries play an important role; Rwanda relies on them at certain stages to maintain a stable economy.

With regard to relationships and partnerships, he said that the smallness of a country is not necessarily a good thing, but is important to improve the economy whether the state was big or small. Singapore is a good example that we can learn from.
Rwanda’s success has been solely achieved because of the understanding of the responsibility of government with respect to the role institutions play.

Honorable Paul Kagame
President of Rwanda
An Interactive session was held with H.H. Sheikh Ahmed bin Saeed Al Maktoum, President of Dubai Civil Aviation and Chief Executive of Emirates Group on innovation and future trends in the aviation sector during the World Government Summit. His Highness Sheikh Ahmed bin Saeed Al Maktoum, affirmed that Emirates Airlines will unveil, in a few months, a number of innovations in the aviation sector, pointing out that the main thrust of the future will be for those who raise the roof of the competition and exceed expectations in the quality of services provided.

He stressed that the work system in the UAE is distinct from any other in any country of the world because it relies on the integration of efforts between various organizations in order to achieve success. He also asserted that the government supports innovation and competition, and provides the same services to more than 120 airline companies operating on its land. His Highness said: “We want to achieve the aspirations of our customers and invent what fits their requirements. We have invested $20 million to facilitate passengers with online services for one dollar, we were also able to provide a phone device on every seat, we provided text and fax messaging service, and we will need to pack a wide range to accommodate passengers’ request for high-speed Internet.”
To excel in the future, there will be those who raise the roof of the competition and go beyond expectations in the quality of services provided.

H.H. Sheikh Ahmed Bin Saeed Al Maktoum
Chairman of Dubai Airports, President of the Dubai Civil Aviation Authority, Chairman and CEO of Emirates Group
PLENARY SESSION

10 in 20 Minutes with H.E. Dr. Khaled Bahah

Speaker:
H.E. Dr. Khaled Bahah
Vice President and former Prime Minister of Yemen

Moderator:
Mr. Turki Al-Dahkil
General Manager of Al Arabiya Channel

H.E. Dr. Khaled Bahah, Vice President and former Prime Minister of Yemen, began the session with an overview of the current situation in Yemen, and role of neighboring countries in supporting Yemen.

H.E. stressed the government’s desire that the spirit of negotiations shall be moral and responsible; as there is no room for complacency in the current situation.

H.E. Dr. Khaled Bahah assured that the government has a vision for rebuilding Yemen, and expressed his confidence in resilient people, capable of rebuilding their country. Thus, Yemen will resume its place as a good neighbor to the Arab World and the Gulf in the future.
The government has a vision for rebuilding Yemen, and resilient people are capable of rebuilding their country. Yemen will resume its place as a good neighbor to the Arab World and the Gulf in the future.

H.E. Dr. Khaled Bahah
Vice President and Prime Minister of Yemen
H.E. Sherif Ismail, Prime Minister of Egypt, discussed several significant challenges that his government is seeking to address as part of its new program. The first is Egypt’s national security and the internal and external extremists. A second challenge is securing greater economic growth that will tangibly benefit Egypt’s citizens. Other challenges involve the completion of the democratic process and the continuation of Egypt’s pioneering role in the region and support provided to neighboring countries.

The Egyptian PM stressed the fact that the government is focusing on education, health, and social services in general. He stated that the government aims at implementing programs that revolve around social justice and economic reform. The development of rural sewage systems and public transportation services. He also noted concrete progress in the development of Egypt’s energy sector. He stressed the importance of private sector cooperation in realizing these projects.

In response to a query about the role of Egyptian youth, the PM noted that youth representation in the present Egyptian Parliament is high and that the government also believes that youth have an important role to play in the private sector.
The Youth representation in the present Egyptian Parliament is high and the government believes youth have an important role to play in the private sector.

H.E. Sherif Ismail
Prime Minister of Egypt
“What’s on your mind?” queried H.E Ahmad bin Byat, Chairman of the Emirates Integrated Telecommunications Company (DU), while opening the morning plenary session of the second day of the World Government Summit 2016.

In this respect, H.E Ahmad bin Byat mentioned that the internet of things – devices and objects scattered all around the city – will collect and disseminate data to generate the knowledge required for better decision-making, using a massive open data platform, as well as smaller customized ones. “Better decision-making will, in turn, ensure a more efficient city, greater productivity, increased competitiveness and a more engaged and happy people”, he stated.

H.E. the Chairman commended Dubai’s digital exchange hub for people, ideas, knowledge and lifestyles as a unique model for cities of the future. He acknowledged the legitimacy of concerns regarding privacy and security, but assured that the government is committed to ensuring its exclusive use for the benefit of the city’s citizens. “The Internet of things”, he promised, “belongs to all of us and its success will be based on collaboration.”
The internet of things will collect and disseminate data to generate the knowledge required for better decision-making.

H.E. Ahmad bin Byat
Chairman of Emirates Integrated Telecommunications Company (DU)
Mr. Naqvi have called governments to embrace disruption as a transformative, revolutionary trend in economic growth. “Governments should be in the business of governance, not management.” Naqvi asserted, during a session in the World Government Summit 2016 “they must facilitate economic activity by creating an enabling environment”. Hence, he encouraged governments to reform their laws to ensure entrepreneurship thrives and provide real economic opportunities for youth. “The government should set the tone by innovating themselves” Naqvi added while emphasizing the critical role of public-private partnerships, stating that “the government must protect and promote the freedom of thought as the greatest enabler one can offer to enhance creativity and productivity within a more level playing-field”.

He stated that the government needs to attract and engage the best minds and make sure they have the freedom to act without bureaucratic obstacles, especially to ensure that youth, representing now 50% of the world’s population, engage in positive rather than negative disruption. “Disruption is here and it is going to stay... and governments need to disrupt themselves to stay in the game,” Naqvi concluded.
In a rapidly changing world, the role of government should be to organize, to allow private industry to grow, and to be there as a partner in that progress.

Mr. Arif Naqvi
Founder and Group Chief Executive of the Abraaj Group
Professor Nicholas Negroponte, Co-Founder and Chairman Emeritus of MIT Media Lab, United States of America

Professor Negroponte addressed the World Government Summit 2016, held in Dubai, in a session entitled “Future of the Future.” Professor Negroponte referred to the crucial importance of civic society, one of the last thirty years’ priorities. In this respect, he noted that it is no longer important to measure the impact of the things we do, but rather define respective self-evident, major targets.

Professor Negroponte also referred to education as part of civic responsibility. According to him, the best educational systems are those built upon collaboration between children rather than competition. In this respect, he outlined the importance to promote the spirit of cooperation among students. He also referred to the “One Laptop per Child” initiative, where around 4 million laptops were distributed to students in least developed countries.

He affirmed that the Internet should be free. It should be free the same way streetlights are free. It should be free the same way public schools are free. It should be free the same way libraries are free. It can be, and it must be. He also proposed launching thousands of low-earth orbiting satellites that would cost ten billion dollars to connect everybody in the world.
The Future is what we make it and not just predict it

Professor Nicholas Negroponte
Co-Founder and Chairman Emeritus of MIT Media Lab
Why Do Governments Fail?

Speakers:
H.E. Mary Robinson
Former President of Ireland, Member of the Elders and President of Mary Robinson Foundation—Climate Justice

H.E. Dominique De Villepin
Former Prime Minister, French Republic

H.E. Dr. Mahmoud Gebril
Former Prime Minister of Libya

Professor Muhammad Yunus
Founder of Grameen Bank and Nobel Peace Prize Laureate

Moderator
Rebecca Anderson
CNN Channel

H.E. Mary Robinson, Former President of Ireland, Member of the Elders and President of Mary Robinson Foundation—Climate Justice, commenced the session by addressing elements that should be present in order for governments to maintain their stability; this would include security, safety, rule of law, participation, human rights, gender equality, as well as application of general policies of sustainable development, and development of education and health sectors.

Professor Mohammad Yunus, Founder of Grameen Bank and Nobel Peace Prize Laureate, affirmed that the cause of failure to meet the goals of sustainable development came as a result of building the economy of the world on one selfish structure that does not accommodate differences between countries.

H.E. Dr. Mahmoud Gebril, Former Prime Minister of Libya, added that the world witnessed a global movement, and communication has become easy and happens on a daily basis. He indicated that the key to success is the government’s response and adaptation to new, world changes. Whereas, H.E. Dominique de Villepin, Former Prime Minister of France, affirmed that there will always be success and failure, and that nothing remains the same. However, governments should be pioneers in setting objectives. He stressed the importance of accountability, transparency, and ability to adapt to change.

With respect to citizens satisfaction with the performance of governments, De Villepin indicated that it is difficult for governments to meet the expectations of the public in a short period of time, as some of the objectives need years to be accomplished.

Pro. Yunus, stated that humans are capable of innovation, which is a very important matter that shall be taken care of. However, the gap between government and youth should be bridged, requiring the implementation of educational corrective measures, as the current system does not provide opportunities for graduates. The new system shall, therefore, concentrate on developing the spirit of work among youth.
We need to go back, make a list of mistakes we made, and change this concept to give young people a chance to change the world, and integrate social business into the wider business plan.

Professor Muhammad Yunus
Founder of Grameen Bank and Nobel Peace Prize Laureate

Government systems need to be flexible to keep up with the speed of change. The structure of government also needs to change; decentralizing to allow bodies of people to micro-govern, keeping the big portfolios, such as foreign affairs... etc. centralized.

H.E. Dr. Mahmoud Gebril
Former Prime Minister of Libya

If countries do not have balance between those four components - safety and rule of law, participation and human rights, sustainable economic opportunity, and human development - they may be likely to have difficulties, which interestingly happened during the Arab Spring; there were strong economic development to some extent but not participational rights. This was the flair of the Arabic Spring which could have been predicted.

H.E. Mary Robinson
Former President of Ireland, Member of The Elders and President of Mary Robinson Foundation-Climate Justice

Every Government fails sometimes and have some success some other time, no government can pretend having only successes, that is part of the life of the government to try and to try again.

H.E. Dominique De Villepin
Former Prime Minister of France
Mohammad Gawdat, VP Business Innovation at GoogleX, declared during a session in the World Government Summit 2016 that all those Arab brains, currently working at Silicon Valley and other creative spaces outside the Arab region, contribute to modern technology on a daily basis. The Arab countries can re-gain them by providing adequate sustainable resources and creating a steady progress in technological advancement.

According to Dr. Fadlo Khuri, President of the American University in Beirut, the limited empowerment of youth, weak development of the economy at large, as well as failure to give youth and students a role in shaping the future of their countries are among the main reasons leading to brain drain. Dr. Khuri also highlighted the meagre funding allocated for scientific research in Arab countries, which further makes them fail to keep these intelligent individuals.

Professor Hashim Sarkis, Dean of the School of Architecture and Planning at MIT, affirmed that brain drain shall not be always perceived negatively. Arab people, who travel abroad to learn, work and innovate, create a brightening example in their positions and act as ambassadors of Arabs in scientific and technological fields. Furthermore, these people contribute to the development of their countries’ economies through their remittances to families. Should the adequate environment be available, these people may consider returning back home. Reclaiming these minds will require eliminating borders between Arab states, creating spaces for joint creativity.
The Arab brain drain is the result of two major factors: lack of resources and instability of the region.

Mr. Mohammad Gawdat
VP Business Innovation at GoogleX

The limited empowerment of youth, and the weak development of the economy at large, as well as failure to give youth and students a role in shaping the future of their countries are among the main reasons leading to brain drain.

Dr. Fadlo Khuri
President of the American University in Beirut

When it comes to the brain drain, it is not always negative. There are positive aspects and Arab governments must take advantage of them by creating opportunities for people to return.

Professor Hashim Sarkis
Dean of the School of Architecture and Planning at MIT
H.E. Jan Eliasson, Deputy Secretary General of the United Nations, welcomed the enormous potential of Agenda 2030 as “the most transformative development agenda ever adopted by Member States of the UN.” He also applauded the Agenda’s aspirations to strengthen global partnerships to ensure sustainable development, and build societies that are peaceful, just and inclusive. He noted, however, that the biggest challenge – translating this agenda into realities on the ground – still remains.

The Deputy Secretary-General noted four guiding principles for realizing Agenda 2030. First, he urged universality of commitment to implement SDGs in all countries, in this respect, Eliasson mentioned that technology can help enormously, but this would require addressing the digital divides between countries, between men and women, and between rural and urban communities. Second, H.E. Eliasson argued for integrating the Agenda within every country and across national institutions through national planning. Third, he encouraged the use of the Agenda as “a comprehensive framework” and the SDGs as “inter-related tools.” He noted that the SDGs are distinctive in building bridges between the UN’s three pillars: peace and security, development and human rights, and demanded a holistic, “cross-cutting and mutually reinforcing” approach that draws on the concerted action of all stakeholders. He emphasized the fact that the Agenda does not impose a single model; hence, every nation and institution must develop the most effective methods and mechanisms in their own contexts, while recognizing that effectiveness, transparency, and inclusiveness are what matters most. Fourth and finally, he advocated for careful monitoring of progress so as to achieve desired goals.
As part of the Agenda 2030, the UN will review all results at countries level. The Agenda is a unique opportunity to rally all countries for a more fair, equitable, world.

H.E. Jan Eliasson
Deputy Secretary General of The United Nations
President and Chief Executive Officer of the United Nations Foundation, Kathy Calvin, talked about the role of youth in improving the situation and creating a change in the world, while highlighting the need to empower the youth, as they constitute the largest percentage of world population and require best opportunities to make a real difference.

Ms. Calvin continued her speech by pointing out that highest percentage of youth in the world live in the poorest countries, having to face a lot of challenges, such as epidemiology, climate change and other hardships. She also added that, nowadays, youth live in a trust crisis; they do not trust their governments and institutions, and it is important to create governments with policies that adhere to youth.

Ms. Calvin invited and welcomed in her session an Ethiopian girl, Achie, to answer the question, “What do youth want?” Achie replied that her dream is of a world where everyone can see her and hear her voice, allowing her to go to school whenever she wishes to. She also dreams of a world that opens doors to success, and welcomes her and all other girls.

Achie invited the governments and civil society to think of ways to achieve this dream. She concluded that, in the long run, the world should invest in girls, as there is no better alternative than investing in today’s girls and tomorrow’s mothers.
We should empower the youth, as they constitute the largest percentage of world population and require best opportunities to make a real difference.

Ms. Kathy Calvin
President and Chief Executive Officer of the United Nations Foundation
In a session entitled “The Future of Renewable Energy”, held during the World Government Summit 2016, Justin Hall-Tipping, Chief Executive Officer of NanoHoldings, pointed out that vehicles’ waste represents one of the many problems we currently face that need an immediate solution.

However, the short-term expectancy of current energy sources raises numerous questions. What do we do after hydrogen reforming? Why don’t we use carbon as much when it is available in abundance? In this respect, it is noteworthy to mention that seven billion people living on this planet use 1.5% cubic miles of energy and soon our use of available resources will reach 2.5%.

Mr. Justin suggested to have a favorable environment that enables scientists, so as to encourage the production of renewable energy. This would require funding, and boldness to change in order to achieve desired objectives, and urged officials and governments to enable and embrace scientists who are trying to discover and improve our society.
I would urge all our government officials to embrace the desire to start a new generation of science ... People who want to be able to discover and explore.

Mr. Justin Hall-Tipping
Chief Executive Officer of NanoHoldings
Speaking to the World Government Summit 2016, international essayist, novelist, and travel writer, Pico Iyer commented on his own experiences as a travel writer who is constantly globe-trotting, saying, “I find that the more I move, the more I need stillness, just to make sense of my movements.” He reiterated that most humans today face an information overload, which - he believes - is making people overwhelmed, and causing them to suffer from ‘data obesity’.

Pico Iyer reviewed some statistics related to the current usage of digital devices, where each person spends more than 8 hours daily in front of their computers, while sending and receiving at least 10 text messages every minute. Iyer acknowledged that human beings do not necessarily have a choice about remaining connected, he went on to argue that people can take control of their own circumstances because “the one good thing about stress is that it is caused by ourselves, so it can be cured by ourselves.”

Concluding his session, Iyer urged attendees to take time out of their days, even 30 minutes, to be still and take a break from their jobs and their devices. He said, He pointed out that ‘stillness’ could be observed through taking a few days break every year to places less connected by devices, playing golf, listening to music by oneself and being mindful to bring some amount of quiet and peace into one’s life. He thinks that this would make people not only more successful and productive, but also happier and kinder throughout their lives. “We rightly think and talk a lot about making a living, but really what we should be thinking about is about is making a life.” Iyer said.
Humans were never meant to live at a pace determined by machines. We were meant to live at the speed of life, not at the speed of light.

Mr. Pico Iyer
Author
"Follow your own dreams, not someone else’s", said ocean advocate, maritime lawyer and pioneer swimmer Lewis Pugh, while recounting the advice his friend and coach lent him, when he found himself at crossroads between a successful career as a maritime lawyer, and a greater call that he yearned for. Pugh spoke about the inherent mix of humility and confidence, unrelenting pursuit for excellence, unparalleled skill, sense of humor and passion as being essential traits of team players, during a talk entitled ‘Crash Course on Life’, held on the second day of the World Government Summit.

He highlighted the importance of not quitting close to the end, being adaptable to change, and - more significantly - the role played by one’s subconscious mind in helping achieve feats that are, otherwise, humanly impossible.

While attempting the first ever long distance endurance swim in North Pole, where Pugh swam a kilometer in the Arctic Ocean, he realized that - as a pioneer - he didn’t have the benefit of knowing what could happen next. He cited the importance of visualization during the months spent training for the swim in the Namibian desert, which helped him build his mindset, along with his physical strength, to swim for over 18 minutes in water, where the temperature was -1.7 degree Celsius.
For real and effective change, there needs to be a complete change in mindset.

Mr. Lewis Pugh
Ocean Advocate and Endurance Swimmer
How Will Cloud Based Schools Change our Education?

Speaker: Professor Sugata Mitra
Professor of Educational Technology at Newcastle University, United Kingdom

The speaker addressed an important issue in this session, which is the obsoleteness of education methods in this constantly-changing world. The speaker first asked questions pertaining to the learning process children pursue when exploring the Internet. Professor Sugata also noted that children in unsupervised and self-organized groups learn almost everything by themselves in conducive, “self-organized learning environments”.

Children need the presence of a friendly, but not necessarily knowledgeable mediator, to accelerate the process of learning. He referred to this process as ‘The Granny Cloud’ where teachers, can talk to children and children can talk to them through the Internet such as Skype and other platforms. This method was inspired by observing the relationship between children and their grandparents. Therefore, future pedagogy should involve encouragement through guidance and more use of the Internet. The speaker finished with a concluding recommendation asking students to be able to use the Internet during examinations.
Children can learn almost anything by themselves in self-organized learning environment. We don’t need examination reform; we only need to change examination.

Professor Sugata Mitra
Professor of Educational Technology at Newcastle University
The Future of Transport: Transiting Near the Speed of Sound

Speaker: Mr. Brogan Bambrogan
Co-founder and Chief Technology Officer of Hyperloop Technologies, United States of America

Brogan Bambrogan, described hyperloop, as a new high-speed mode of transportation, based on revolutionary engineering technology that can transport people and goods between different parts of the world at an unprecedented speed, through low-pressure pipe technology developed by entrepreneur Elon Musk. In this respect, Bambrogan affirmed that building Hyperloop is merely building the future, and would help in providing solutions for mobility that are safe, convenient, and high-speed.

The difference between a fast train and Hyperloop is that it provides individual transport where a person goes to their destination, without stopping and any delay. Hence, Bambrogan believes that the system can be built with half the cost of express train, which means that Hyperloop could become a cost-free service within fifteen years following its construction.

Therefore, governments need to develop a regulatory environment, which fosters innovation and permits the development of such new technologies, as we can no longer rely on the same old transportation regulations.
Imagine dumping your car, regular metro or train ride, and travelling in a pod flying through tubes – science fiction or reality? It sounds like science fiction, but it is not; it is real and happening.

Mr. Brogan Bambogan
Co-founder and Chief Technology Officer of Hyperloop Technologies
In a session entitled “Designing a University for Exponential Times” on the second day of the World Government Summit 2016, Dr. Peter H. Diamandis, Co-Founder and Executive Chairman of Singularity University, referred to the exponential evolution happening, and affirmed that it makes it very crucial to update our educational systems in future universities. He mentioned that, now, they are investing in computers, artificial intelligence, robots, 3D printing and synthetic biology, developing exponentially every day, and highlighted the need to update universities so that students would not graduate with outdated knowledge.

Projections state that 40 - 50% of today’s jobs will be done by robots in the future. So what do we teach in our schools?

He concluded his speech by presenting a vision of what universities in the future will look like. Free, and democratized, just like Google or the Khan Academy. Finally, education will be virtual. However, classrooms will remain crucial for socializing and learning sports, but the learning process itself will be virtual.
What happens when our best teachers in the future are not humans? They are artificial intelligences; they are AI’s. Will physical universities even exist? Or will they all become virtual?

Dr. Peter Diamandis
Chairman and Chief Executive Officer of X-Prize and Co-Founder and Executive chairman of Singularity University
Mr. Nicolas Cary, Co-founder and President of BlockChain, introduced the Summit audience to the Bitcoin, an innovative payment network and a new form of digital currency. It operates separately from central banks, is not susceptible to fraud, and cannot be corrupted; it uses a system that cannot be breached; it is the first digital commodity that can be transferred across the world safely and without cost. Many companies have already started using Bitcoin, a technology that promises to change the shape of the future in multiple and as yet not clearly known ways.

"The digital world is part of our DNA now," Cary announced. Now money can be digital too. Each of us can have their own private bank right on their smart phone and we can thus shield ourselves from inflation, preserve financial value, and protect ourselves from the corruption of financial services, all through Bitcoin. Moreover, we can conduct millions of financial transactions at the same time.

Mr. Cary stressed that governments and regulatory bodies, Cary concluded, need to adapt quickly to create the right environment for exploiting the enormous potential of Bitcoin.
Bitcoin will inevitably become the future of money, replacing conventional way of doing everyday transactions.

Mr. Nicolas Cary
Co-Founder and President of Blockchain
Dialogue Session: Building the Next Silicon Valley

Speaker: Mr. Christopher Schroeder
Tech Entrepreneur and Venture Investor, United States of America

In a session entitled “Building the Next Silicon Valley” on the second day of the World Government Summit 2016, Christopher Schroeder, Tech Entrepreneur and Venture Investor, started by asking “how the next five years are going to be different than the last five years.” Schroeder said that two-thirds of humanity will be walking around in the future with a smart device in their pockets. This will be more than a feature phone and tool for entertainment, but literally the same computing capacity. We will reach unprecedented levels of ability to do things in powerful ways. In the future, we will think about computing and power technology the same way we think about water or electricity.

Schroeder expects one billion new people coming online. So what is it going to be like when a billion or two billion more people are with us engaging and collaborating? What is it going to mean when we use genomics and other capabilities to come up with medical practices easily distributed mobile capacity anywhere in the world at a fraction of the cost today? What can we do to build a rapidly adaptable ecosystem?"

Schroeder also discussed the importance of legal and regulatory environment and the role of law overall. He emphasized the importance of mathematical and technology skills, critical thinking and creativity, and recommended that curriculums should be revised. It is an unbelievable opportunity for the private sector to get more and more involved.
The greatest strength about Silicon Valley is the network effect of talent.

Mr. Christopher Schroeder
Tech Entrepreneur and Venture Investor
Third Day Sessions
The Future of Smart Trade

Speaker:
H.E. Sultan Ahmed Bin Sulayem
Chairman of DP World and Group CEO, United Arab Emirates

“The future of trade is smart trade,” announced H.E. Sultan Ahmed Bin Sulayem, Chairman of DP World and Ports, Customs and Free Zone Corporation (PCFC) in Dubai. Smart trade means moving cargo faster, smarter and more efficiently, using cutting edge technology. This requires the kind of sound government planning exemplified by the UAE, which now boasts the third highest GDP in the world.

In the 1990s, the government focused on increasing tourism as a catalyst for further development, successfully increasing annual tourism from 35,000 to nearly 15 million tourists Dubai enjoys today. In the decade that followed, even before clarifying the meaning of the term, Dubai announced its aspiration for electronic government, targeting “smart government”, and prioritizing full connectivity and access to ensure that the millions of documents, required to facilitate expanding trade, tourism and other economic activity, can be processed round the clock.

It is this enabling environment that has allowed DP World to make unimaginable strides in pioneering trade development and expansion. We worked with governments to plan for smart trade. We successfully advised a government on building a port despite numerous feasibility studies, all of which claimed that it was not possible. They were wrong; they lacked common sense, experience and a courageous vision of the future that we provided.

Thus, what will smart trade look like tomorrow? We may be transporting cargo by drones or adopting Hyperloop transport means. We may no longer need seaports. We may bypass ports altogether using direct delivery to user, but “whatever the future holds, we will be ready for it in Dubai; we will be ready for it at DP”, affirmed H.E. Sultan Ahmed Bin Sulayem.
"Smart trade means moving cargo faster, smarter and more efficiently, using cutting edge technology. This requires the kind of sound government planning exemplified by the UAE, which now boasts the third highest GDP in the world."

H.E. Sultan Ahmed Bin Sulayem
Chairman of DP World and Chairman of Ports, Customs and Free Zone Cooperation (PCFC) in Dubai
Climate Change: Overcoming the Greatest Challenge of Mankind

Speaker: H.E. Felipe Calderon
Former President of Mexico and Chair of the Global Commission on the Economy and Climate, United Mexican State

We are witnessing catastrophes everywhere; extreme weather incidents are reported almost daily, accompanied by terrible destruction including droughts, flooding, storms and a drastic reduction in food production. These changes, reminded H.E. Felipe Calderon, former President of Mexico and Chair of the Global Commission on the Economy and Climate, are human-made. He provided the audience with a series of charts, demonstrating the clear correlation between the rise in the earth's temperatures in the past 30 years and the frequency of extreme weather incidents.

H.E. Calderon proposed changing three key systems for higher quality, more resilient and inclusive growth, namely cities, land use and energy. He concluded with a series of practical recommendations, including moving to more compact and connected cities; reforesting and reversing soil degradation; investing in R&D; ending “perverse subsidies” for fossil fuels and using coal and HFCs; accelerating low-carbon innovation and financing its infrastructure worldwide; and increasing energy efficiency standards.
There are three key systems to promote fighting climate change and economic growth, namely cities, land use, and energy.

H.E. Felipe Calderon
Former President of Mexico and Chair of the Global Commission on the Economy and Climate
A plenary session entitled “The UN Sustainable Development Goals in Action: Transforming our Global Vision into Reality” was held on the third day of the World Government Summit, 2016. H.E. Lubna Al Qasimi said that two sessions were held on the 2nd and 3rd day of the Summit to discuss the 17 goals and the main 6 clusters covering them. Where they came up with a number of solutions such as reporting and monitoring mechanisms that will ensure being always on the right track. She added that the tools we have today - compared to those we had before - make it much easier to deliver desired goals, and that these tools don’t only mean technology but brilliant minds and ideas, as well.

H.E. Jan Eliasson pointed out that the 17 goals cover a broader agenda than we ever had before, including energy, transport, agriculture, etc. Hence, delivering the SDGs would require the assistance not only from the United Nations and governments, but also from the private sector, civil society, and economic and scientific community. He also emphasized the importance of sustainability that goes through all the goals and connects to the climate change agreement that was reached in Paris.

Honorable Joseph Muscat talked about moving from the global to the national level in delivering the SDG and that all governments have in their policies the need to eradicate poverty, ensure resilient infrastructure, as well as equitable education and gender equality. Hence, any country, aspiring to be a progressive one, needs to have these goals embedded within its national policy. It is noteworthy to mention that MDGs have been drafted by some men in the United Nations, while SDGs came up from the grassroots and from hundreds of consultation meetings. In this respect, Honorable Muscat affirmed that “there is definitely a change in adopted approach”.

Dr. Mahmoud Mohieldin agreed with Muscat, affirming that the process of developing SDGs was much more democratic and inclusive. They came up after good interaction, not just with governments but with civil society and private sector, as well. For some people, 2030 may look far but with the goals that we have, we need to start right now. We are talking here about the fourth Industrial Revolution, while some people around the world did not even benefit from the second one and still have no access to electricity. Thus, we must focus on monitoring and gathering adequate data if we want to achieve desired SDGs.
Any country, aspiring to be a progressive one, needs to have these goals embedded within its national policy.

Honorable Joseph Muscat
Prime Minister of Malta

Delivering the SDGs would require the assistance not only from the United Nations and governments, but also from the private sector, civil society, and economic and scientific communities.

H.E. Jan Eliasson
Deputy Secretary-General of the United Nations

The tools we have today - compared to those we had before - make it much easier to deliver desired goals.

H.E. Sheikha Lubna bint Khalid Al Qasimi
Cabinet Member and Minister of State for Tolerance

SDGs are very much based on some good interaction, not just with governments but with civil society and the private sector, as well.

Dr. Mahmoud Mohieldin
Senior Vice President for the 2030 Development Agenda, United Nations Relations, and Partnerships at the World Bank
Meet the World’s famous Hacker

Speakers:
Mr. Kevin Mitnick
Computer security consultant, and Author and hacker, United States of America

Moderator
Omar Sultan Alolama
Director of the World Government Summit Organisation, United Arab Emirates

World Summit for governments in 2016, had organized a panel discussion with the information security expert Kevin Mitnick, who is who is known as the world-famous hacker and one of the FBI’s Most Wanted because he hacked into 40 major corporations and government systems just for the challenge.

Mr. Mitnick is known as the top cyber security speaker, an author and computer security consultant, and now is a trusted security consultant to the Fortune 500 and governments worldwide.

During the session, he shared his experience in hacking with the audience, which consisted of students from various universities.

Mr. Mitnick also shared a few stories of his student years and demonstrated live hacking by using either a USB drive, PDF attachment, installing false Java applets to take over webcams where the hacker can secretly eavesdrop on the communication between two systems or people.

To Mr. Mitnick, hacking is like performing a magic trick, and that is what drew him to it.
We live in a world where all kinds of technology can be controlled by hackers.
The World Government Summit 2016 opened its 3rd day with a session entitled “45 Minute Journey to Bliss” by the award-winning national and international correspondent Eric Weiner. “Happiness is not only inside of you. It’s out there”.

Mr. Weiner visited Switzerland, Iceland, Bhutan and Thailand, some of the world’s happiest countries to hear about their journeys to bliss. From his travels, he found out that the efficiency of the systems in Switzerland, the abundance of nature, lack of envy and high levels of trust make people happier. In Iceland, the strength of family connections and a positive, healthy attitude towards failure make people much more content than in other countries. As for Bhutan, they put the science of happiness at the top of their national agenda, and even introduced the gross national happiness indicator.

Mr. Weiner advised them to control envy and cultivate trust. “We should remember that happiness is not personal; it is relational. We should have a connection to our past and to our culture. In addition to that, we have to remember that there is more than one path to happiness”, he affirmed.
We should remember that happiness is not personal; it is relational. We should have a connection to our past and to our culture. In addition to that, we have to remember that there is more than one path to happiness.
At the concluding day of the World Government Summit 2016, Fred Kofman, Philosopher and Vice President at LinkedIn, talked about the mindful leadership in a session entitled “A 45 Minute Journey to Mindful Leadership.” “True leaders have no followers. A true leader is simply the first one heading towards his/her purpose. People do not follow leaders; they follow the purpose. They work for the mission, not for the leader.”

He pointed out that at the core of mindfulness are the choices that individuals make. “It is not about what happens to individuals, but the way they choose to respond in a difficult situation and the conscious choices they make for a greater purpose rather than simply reacting – this is what makes the difference.”

In his concluding remarks, Kofman outlined possible solutions that can result in mindful leadership. He stressed the importance of meditation and introspection, and mentioned that gratitude and compassion represent preconditions to mindful leadership and success.
Gratitude and compassion represent preconditions to mindful leadership and success.

Mr. Fred Kofman
Philosopher and Vice President at LinkedIn
Could Robots Rule the World?

Speaker: Mr. Neil Jacobstein
Co-Chair of the Artificial Intelligence and Robotics Track at Singularity University, United States of America

Neil Jacobstein, distinguished Visiting Scholar in Stanford’s Media X Program, and former Senior Research Fellow in the Reuters Digital Vision Program at Stanford University 2006-2007, affirmed the need to use robots and artificial intelligence to achieve global prosperity, while remaining morally and technically obligated to manage technology responsibly through education.

For Jacobstein, technology can be misused. Hence, in order for this to be avoided, work must be done according to a set of principles, namely the need to verify innovation, use encryption, set appropriate specifications and develop multiple ways to establish control.

According to Jacobstein, the artificial intelligence revolution will have a positive impact on all aspects of management, manufacturing and services, and would remove barriers to education. He also affirmed that the future will not only involve providing each student with a laptop, but with a tutor, as well. According to Jacobstein, we must be proactive in finding opportunities to learn more about how to deal with artificial intelligence and liberate ourselves from our mental prisons.
We need to use robots and artificial intelligence to achieve global prosperity, while remaining morally and technically obligated to manage technology responsibly through education.

Mr. Neil Jacobstein
Co-Chair of the Artificial Intelligence and Robotics Track at Singularity University
What Comes after 3D Printing Body Parts?

Speaker: Dr. Anthony Atala
Director of the Wake Forest Institute for Regenerative Medicine, United States of America

In a session entitled “What Comes after 3D Printing Body Parts” on the 3rd day of the World Government Summit 2016, Dr. Anthony Atala, Director of the Wake Forest Institute for Regenerative Medicine referred to the recent advances in the field of regenerative medicine, and possibilities to utilize those advances to improve the lives of patients everywhere in the world. He pointed out that the first transplantation surgery was carried out in 1954. Since then, so many advances have happened, but we are still facing many challenges in terms of organ shortage and rejection. In this respect, statistics show that every 30 seconds, a patient dies from diseases that could be treated with organ or tissue replacement.

Regenerative medicine brings together different areas. It uses cells alone, or cells with other materials and scaffolds, or enabling technologies such as 3D printing.

As for the challenges faced by regenerative medicine today, Dr. Atala referred to the need to take these technologies and scale them up in order to produce them in large quantities and provide them to hundreds of thousands of patients. We also need to do this in a much more efficient way, and that is where 3D printing comes in. So, they started to work on much more sophisticated printers that give the required precision to place the cells in their exact places. He concluded by saying that, “we still have many challenges ahead, such as the length of regulatory process, as well as cost and scale up of technologies. However, one thing is certain; and that is we do have the potential with these strategies to make patients’ lives better. That is the promise of regenerative medicine”. 

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DIALOGUE SESSIONS
We still have many challenges ahead, such as the length of the regulatory, as well as the cost and scale up of technologies. However, one thing is certain; and that is we do have the potential with these strategies to make patients’ lives better. That is the promise of regenerative medicine.

Dr. Anthony Atala
Director of the Wake Forest Institute for Regenerative Medicine
Celebrate Your 200th Birthday!

Speaker:
Dr. Brad Perkins
Chief Medical Officer at Human Longevity Inc., United States of America

Moderator
Dr. Hawaa Al Mansouri
Consultant Endocrinologist, United Arab Emirates

Dr. Brad Perkins, Chief Medical Officer at Human Longevity Inc., started the “Celebrate your 200th Birthday!” session on the World Government Summit 2016, by affirming that human life expectancy has doubled over the last 150 years, as a result of control of childhood infectious diseases. Today, children have an 85% chance of reaching the age of 65, and 42% of which will celebrate their 85th birthday.

Perkins referred to the extraordinary opportunities offered by new technologies, including cloud computing, vast data and machine learning, which can efficiently change the way we deal with age-related diseases. He said that the cost of full human genome sequencing is down to around $1300, an essential progress that has occurred in the last 15 years. He also pointed out that availability of reasonably priced cloud-based computing power has also made the storage and manipulation of vast data, for the first time, possible. We can eventually identify the fundamental reasons behind age-related diseases, and therefore defer between these diseases and lead longer and healthier lives.
Creating a comprehensive genetic database will help us find a proactive and preventive way to prolong the human lifespan.

Dr. Brad Perkins
Chief Medical Officer at Human Longevity Inc.
Mr. Andrew Keen is among the world’s best known contemporary analysts of digital business and culture, and as well as a commentator on the digital revolution. He is the Executive Director of the Silicon Valley innovation salon FutureCast, the host of the popular Internet chat show “Keen On”. According to Keen, the true artificial intelligence is still yet to arrive; we are at the gates, and we are unsure of what it will bring. Keen believes that, in order to predict the future, we have to understand the past. The Industrial Revolution changed the world and overturned societies. Hence, we must take advantage of the lessons of the Industrial Revolution in order to survive the artificial intelligence one.

While acknowledging that there are many positive aspects to this new revolution, we must be aware of the negative ones, as well. For example, it is predicted that 47% of all professions will be made obsolete by artificial intelligence, and it won’t be just manual labor that will disappear but other types of jobs, as well. Keen also pointed out that artificial intelligence will—of course—add new jobs, but none of these will be fully carried out by humans. In some countries, radical solutions, such as guaranteed basic incomes, will be required. He stressed the fact that no technological advance come free. We have no choice but to count on politicians to face challenges. Keen underscored the need take tough decisions when facing the large monopolies operating in the field of artificial intelligence.
We need some element of regulation and political control to ensure technology makes us happy. If we can’t, then I’m afraid robots won’t be the answer.

Mr. Andrew Keen
Author, Entrepreneur and Broadcaster
Mr. Albert Manero, Founder and Executive Director of Limbitless Solutions, an engineering innovation company that helps disabled children through the manufacturing and distribution of 3D-printed bionic limbs, hosted this session.

The world suffers from disability, hence, overcoming this would require a lot. In this respect, it is noteworthy to mention that 30 million people around the world need prosthetic systems, and orthopedic devices, and a lot of these people make their living from physically-exhausting jobs.

Manero added that technology and compassion can come together to create many things; Limbitless Solutions work with smart systems. Their compassion leads towards solutions. Hence, in order for humans to be helpful in this context, cooperation with the international community is required. He said that the company develops devices, and with the help of society, they can deliver it to the persons who need it, as the goal is to help everyone on this earth.
Technology and compassion can come together to create many things; Limbitless Solutions work with smart systems.

Mr. Albert Manero
Executive Director at Limbitless Solutions
In a session entitled “Retiring Retirement: 100 is the New 40” on the 3rd day of the World Government Summit 2016, Mr. Rohit Talwar, Chief Executive Officer of Fast Future Research, proposed some questions about what is going to happen when most of us live to 120 years old and more. What does this mean for society, individuals, governments, and economy?

Talwar pointed out that science and technology developments are now improving exponentially and that a whole range of these developments will reshape our world, as discussed throughout the World Government Summit. Researchers at Oxford University estimate that 40-80% of all the jobs that exist today could disappear within 20 years. How far do we think about all of this while planning our future?

Talwar said that a child born today has a reasonable expectation of living to 120 years old, as well as physical and mental enhancements, enabling them to work until they reach 100 years old. However, there are some underlying challenges here. How can we create jobs for all these people? What jobs will we need in the future and what are the skills needed for those jobs? He also said that we have to improve the educational system and not only train people to do a certain job that might disappear in ten years.
How do you know that you are teaching people the right technical skills? What you need to teach them is the skills that will enable them to navigate the world whatever comes next. We are not going to get to the future doing the things the way we’ve always done them.

Mr. Rohit Talwar
Chief Executive Officer of Fast Future Research
The Peace Train Journey

Speaker: Mr. Yusuf Islam (Cat Stevens)

Summing up his story, philanthropist, song composer and singer, Yusuf Islam said that maybe some of the audience were not even born when he sang The Peace Train on stage.

As he recounted his story to the audience, Mr. Islam said that he was born and raised to a Christian family in London, in a world of entertainment and theater. During that period, Yusuf composed and performed songs on stage to an audience of more than ten thousand spectators, and held three concerts a night at times, making him rise to fame at an international level at the young age of 18.

Mr. Islam was diagnosed with tuberculosis at this point, and started pondering existential questions only to begin understanding the certainty of life and death. At the onset of his self-discovery journey, he read a book on Buddhist religion, and others about astrology, math and other religions, but kept returning to the Bible to search for answers. Mr. Islam played a role in the second phase of his fame, when tried to convey the wishes of his generation and composed the “Peace Train” song.

Mr. Islam recounted an incident when he was about to drown because of the fierce waves, and survival seemed impossible. He prayed to God, vowing to become closer to Him should He saves him from that imminent death. A light wave carried him backwards, and he started swimming back to the beach and made it, but kept asking himself: Now what?

Mr. Islam realized that he should convert to Islam after his brother had gifted him a Quran. In 1977, he went to the mosque to announce his conversion, saying he was overwhelmed at the discovery of the oneness of God. In addition to Surat Yusuf that impressed him, Mr. Islam thought the values that Islam reflected were impressive. According to him, it is imperative to reclaim and incorporate these values into the educational curricula, because otherwise we would be led astray, as this is how humanity could be saved.
It is important that we share our learning. And to share this knowledge, let us use the advantages of mediums like technology - while maintaining good character.

Yusuf Islam (Cat Stevens)
Songwriter, Singer and Philanthropist
Museum of The Future
Museum of the Future

His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice-President, Prime Minister and Ruler of Dubai, inaugurated the Museum of the Future, one of the main highlights, held during the World Government Summit 2016.

The Museum of the Future, organized by the Dubai Museum of the Future Foundation as part of main events held during the World Government Summit 2016, focuses on shaping the future of robotics and artificial intelligence, as well as identifying the impact they have on human life with a keen view to provide visitors with an exceptional, interactive experience.

The Museum includes three main sections, the first of which touches on the impact and contribution of robotics and artificial intelligence to improving the lives and mental and physical abilities of human beings, while looking for answers to questions revolving around potential replacement of myocardium to ensure living longer, as well as addition of robotic parts to children bodies so as to improve their scholastic performance. Whereas, the second section aims at answering questions related to possibilities allowing robots to take care of elderly and build strong relationships with humans.

The Museum of the Future also features future technologies, such as DreamStream, allowing individuals to design and share their dreams with friends and relatives.

The third section of the Museum showcases the impact of development of artificial intelligence technologies on management and decision-making processes. It also seeks to find answers to questions on the level of confidence in artificial intelligence systems’ ability to manage funds and choose respective career paths.

This year, the Museum of the Future showcases futuristic interior designs that would take visitors into a journey of unparalleled experience in the foreseeable future. Hence, its content development process will rely on analyzing data, collected from visitors’ interactions, to create forward-looking reports proposing policies and decisions through which world governments would maximize benefits from this sector.
Machinic Life

Machinic Life: How our machines are becoming more life-like, and how our lives are becoming more machine-like.

What does Machinic Life mean for society, for government, and for our families? This transition will present amazing opportunities and challenges for society in the coming years. What conversations should we be having today to prepare for a better tomorrow?

The Museum of the Future explores the future of Machinic Life in four parts: Towards Tomorrow, Personal Augmentation, Caring Machines, and Algorithmic Management.
Edge of Government
His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, visited the Edge of Government event, held as part of the 4th edition of the World Government Summit 2016, and inspected the location where world governments have showcased their innovative projects, which brought about a very important impact on the lives of communities, and provided innovative solutions to develop government working tools and upgrade services offered.

Hence, the Edge of Government – organized by the Mohammed bin Rashid Centre for Government Innovation – constitutes one of the WGS main events and include a distinct set of innovations, which would help governments address most pressing challenges facing vital sectors, such as health, environment and public security, through the adoption of a range of innovative experiments.

The Edge of Government Innovation experience will challenge visitors to think in new and often counter-intuitive ways about how the most pressing public challenges of our time can be solved. The main purpose of the exhibits is to inform, trigger new thinking through experience, and most importantly inspire visitors to connect with the innovators behind best practices and case studies showcased and ideally adopt and adopt the approach in their own context. Visitors will, therefore, walk out of their immersive journey with the desire to move to action and turn this “Edge” into mainstream.
Data-led Effectiveness

Europe Media Monitor - European Union

Web data on global affairs for early warning decision making

The Europe Media Monitor, a text-gathering and analysis engine that provides advanced monitoring and analysis of both traditional and social media. The platform gathers and assesses approximately 250,000 new news articles per day from 7000 online news sites in 60 languages, along with countless social media data points, and analyzes this vast body of information for specific content, emerging trends, and early warnings of public emergencies such as new disease epidemics. Originally developed for use by the European Commission, the platform is now used by government officials and organizations around the world, and a web version of the platform made available to the public receives as many as two million hits per day.

Behavior-inspired Government

Zombie Apocalypse Preparedness - United States of America

Can zombies save the world...?*

The U.S. Centers for Disease Control and Prevention needed a way to motivate people to prepare for potential public emergencies. The Centers for Disease Control created a "Zombie Task Force" to publish materials on zombie preparedness via its blog. By taking a serious approach to teaching people how to prepare for a zombie pandemic, the blog was in fact teaching the public how to prepare for any real emergency, such as a natural disaster, large-scale power outage, disease outbreak, etc. The blog was so popular that within two days of posting, it had received over 60,000 hits and crashed the CDC's emergency preparedness website. To take advantage of this public interest, the CDC also published a graphic novel, "Preparedness 101: Zombie Pandemic". A plot-twist at the end of the novel again drives home the importance of being prepared for any emergency.
Active Infrastructure
Pocket Parks - United Mexican State
Turn over abandoned sites in an innovative way

The Mexico City Public Space Authority (AEP), working with the NGO EMBARQ, developed a process for small-scale, highly local urban beautification driven by community involvement. Community-driven “pocket parks”, usually between 100 and 1000 square meters, represent focused redevelopment based around the needs of the community. They are typically previously unused or underutilized locations such as abandoned road remnants, vacant lots, or unused street corners, and are renovated to be a pleasant and fun location for the local community. By improving these locations, the AEP hoped to have a dramatic impact on the overall feel of the neighborhood in a relatively short timeframe and for minimal cost, which on average is around USD 50,000. To date, over 40 community workshops have been held and 30 pocket parks have so far been built around the city, with a goal of approximately 150 to be completed in the future.

Active Infrastructure
Air Purifying Façade - United Mexican State
Where aesthetics meet function

The Mexican government has committed $20 billion to improve the country’s health infrastructure, and passive pollution-fighting architectural innovations are part of the solution. To help alleviate the highly polluted air in Mexico City, the Ministry of Health has installed specially designed façade modules on the Torre de Especialidades of the Hospital General Dr Manuel Gea González. The modules are painted with a pigment containing titanium dioxide, which, when activated by sunlight, reacts with toxic nitrogen oxide and other pollutants in the atmosphere and converts them to harmless nitrates and water. With 2,500-square-meters of façade installed, the structure neutralizes the pollution produced by 1,000 vehicles every day. The façade naturally shades the front of the building, reducing the energy required to cool the building. The modules are also visually interesting and can generate public attention and interest in what would otherwise be an invisible technology.
Data-led Effectiveness

Public Data Visualization - Brazil

Visualise over 700 million diverse public datasets at the touch of a button

Brazilian State of Minas Gerais working in collaboration with the MIT Media Lab and Dataviva, developed an open data platform called Dataviva which was designed from the ground up to be easy to use. The platform provides over 3 terabytes of Brazilian data, and over 500 gigabytes of data on exports, imports, employment, and education for the entire formal sector of the Brazilian economy. Data can be examined and downloaded using a highly intuitive visualization tool that can create over 700 million interactive visualizations, making the tool easy to use for government officials, businesses, and citizens. Since launch, Dataviva has seen over 1.5 million page views, with over 200,000 unique users. Of these users, about 37% have been from Brazil, 20% from the U.S. and the rest from all over the world.

Collective Intelligence

Crowdfunded Civic Projects - United Kingdom

Where everyone can contribute... one click at a time

To build greater public participation in neighborhood improvement projects, the Greater London Authority has developed a revolutionary way to plan and fund public capital projects. Working in partnership with the crowdfunding website Spacehive, London’s city government created a platform for local organizations to propose ideas for civic projects or new uses for unused space. The Greater London Authority pledges up to £20,000 to support the best proposals. Local organizations raise match funding from the wider community to unlock public funds and realize their projects. The first round of the programme received 83 proposals, 17 of which were supported, raising 138% match funding from the crowd. In the second round, the Greater London Authority pledged £285,000 to 20 projects, leveraging over £450,000 of additional pledges from more than 2,300 Londoners (including 120 businesses and 6 councils), a 158% increase in funding.
Collective Intelligence
Patient Innovation Platform - Portugal
When patients set to help themselves and end up helping many others

Faced with enduring lack of treatment help, patients and their non-professional caregivers have developed a significant number of solutions to help them cope with their diseases. Without a forum by which to share these innovations, however, the solutions created by patients can help only those who have created them. Patient Innovation was created as a web platform aimed at addressing this twin problem of lack of innovation and lack of diffusion. The platform serves as a network for patients to find others suffering from the same condition, trade information about their experiences, and share and discuss the innovations they have developed themselves, as non-professional caregivers, to treat and manage their own illnesses. Though based in Portugal, the Patient Innovation platform is available in many countries and languages. Over 500 solutions have been published and approved (almost 1 per day) from over 30 countries since launch. The innovations shared by platform participants have helped relieved suffering and lowered medical care costs for countless patients.

Technology Reinvention
Virtual Health Lab - United Arab Emirates
Innovation in surgery simulation

Ministry of Health of the UAE, in cooperation with the Telecommunications Regulatory Authority, designed and developed a virtual reality based surgery operating lab. The system fully simulates real surgical procedures in detail, allowing surgical students to practice their skills and senior doctors to train and assess the skills of junior surgeons. 800-1000 trainees are projected to benefit from the solution, including junior surgeons, interns and medical students. The number of facilities and partners are estimated at 25-30 between hospitals and medical schools. Not only does the system allow face-to-face interaction but it also allows remote participation in the same virtual environment from multiple locations, making remote teaching and advising possible. This feature is especially valuable for regions where surgeons are geographically distributed and there is a scarcity of surgical trainers. The immersive capabilities of the system also enhances the communication between the surgeons and their patients.
Process Transformation
Droneports - Republic Of Rwanda
Imagine a future with unmanned railways in the sky

The government of Rwanda is working with the Swiss-based charitable foundation Redline, developed out of the renowned École Polytechnique Fédérale de Lausanne, and with the architect lord Norman Foster and his firm Foster + Partners, to establish the world’s first national “droneport” network. The droneports will act as multi-purpose hubs to enable small unmanned aircraft to deliver critical medical supplies up to 10 kilograms over 100 kilometres and larger cargo drones to carry other commercial goods up to 100 kilograms over 200 kilometres to areas which are difficult to access by other means. This will not only save lives but will also help create new jobs by encouraging local participation in the drone economy. To support this effort, the Rwanda Civil Aviation Authority will work together with ministries, the military, and legal experts to produce a national regulatory framework for cargo drones. The ultimate goal is for every small town to have a droneport by 2030.

Detector Rats - Mozambique And Tanzania
Can you imagine using rats to prevent the spread of disease and detect mines?

Tanzania and Mozambique have taken a novel approach to dealing with two significant challenges: the public health crisis caused by tuberculosis, and the threat to public safety and development posed by landmines remnants of war. In 2014, there were an estimated 9.6 million new Tuberculosis patients and 1.5 million TB deaths worldwide. Similarly, 110 Million anti-personnel mines are currently in the ground and they kill 13,000 to 30,000 people every year and severely maim countless more. Both governments are working with APOPO, a Belgian non-governmental organization with headquarters in Tanzania, to address these problems. APOPO has developed an innovative system deploying trained rats, using their remarkable sense of smell to detect unexploded landmines or tuberculosis, thereby dramatically speeding up the detection process, decreasing cost, and saving lives. For example, APOPO HeroRATs can check 100 patients for TB or search a 200 sqm2 area for mines in 20 minutes compared to 1-4 days for a technician. Also, TB detection rates are at 60-80% compared to 20-60% using conventional methods.
Behavior-Inspired Government

E-Waste Recycling - People's Republic of China

How much is your e-waste worth?

Due to rapid advancement in consumer technology, China has a growing problem with the vast amount of obsolete electronics that pile up each year as e-waste. As an important step toward solving this e-waste problem, the United Nations Development Programme (UNDP) and online internet giant Baidu teamed up to form the UNDP-Baidu Big Data Joint Laboratory, which created a government-supported app to make recycling more convenient and efficient for consumers. This app uses image recognition software to identify categories of e-waste using images of the discarded products from users’ smart phones. It then informs users of the value of their waste electronics and connects them with certified recyclers who collect the e-waste and pay the consumers for their obsolete products. Pilot projects have been very successful and in 2015, the number of recycled items through the app exceeded 60,000. This in turn positively changed the way people behaved towards recycling. The programme is being rolled out throughout China with additional e-waste recycling agencies joining the project.
World Government Summit Awards
Best Minister in the World Award

His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, honored Greg Hunt, Australian Minister for the Environment and Acting Minister for Cities and the Built Environment, with the Best Minister in the World's Award.

This Award has been granted in recognition of all the efforts exerted and innovative environmental initiatives led, which had a significant impact in supporting the reduction of environmental pollution rates in Australia by 95 tons of carbon.
His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, honored the winning project of the Edge of Government Award, one of the main events, held during the World Government Summit 2016.

Within the same framework, His Highness honored the representatives of the governments of Mozambique and Tanzania, which are currently utilizing rats in order to detect explosives and diseases, in collaboration with Belgian non-governmental organization APOPO.

Global exhibits were evaluated according to three key criteria and will only be showcasing innovation practices that go beyond “the usual suspects” – typically “below radar”. The three key criteria represent the degree of newness and uniqueness associated with each innovation, the magnitude and scope of improvement to government attributable to each innovation, as well as the replicability and applicability of innovation in other countries and regions.
His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, affirmed that the Emirates Innovative Teacher Award was launched with a keen view to recognize the teacher’s valuable message and vital role in bringing up generations who can build a good society and an advanced nation. Hence, the government places development of education as one of its top priorities, outlined H.H. Sheikh Mohammed in a ceremony, held to honor winners of the AED 1 million Emirates Innovative Teacher Award as part of the World Government Summit.
Best M-Government Service Award
International Level – Social Affairs

“National Relay Service” – Australia

This application is an Australian government initiative that provides a range of services for deaf people, as well as for those who suffer from hearing or speech impairment.

International Level – Safety and Security

“AlertCops” - Kingdom of Spain

This application provides users with simple tools, allowing them to report danger, theft, or any other security issues to the nearest police station. Citizens or tourists can register available data and figures, enabling the police to determine their geographical location.
International Level – Tourism

“My Hong Kong Guide” - Hong Kong

My Hong Kong Guide is an all-in-one application for visiting Hong Kong, allowing visitors to create guides with friends, have access and update them via a PC or mobile device, choose from 1,800 activities and attractions, get trip ideas from other travelers, and share experiences on social media platforms.

International Level – Health

“Force Fit” - New Zealand

This application assists new recruits in preparation for fitness test, covering a six-week challenge that involves a mixture of running and simple exercises that can be performed at home. The choice of either beginners or advanced programs allows people to work their way up from an appropriate level that suits them. This application features a beautiful design, as well as detailed directives provided and illustrated by videos, data storage capacities and location detection system.
International Level – Education

“School A to Z” – Australia

This application represents an essential tool for every parent of school-aged children. Produced by the NSW Department of Education and Communities, it brings together a wealth of resources to help parents understand and support their child’s homework.

International Level – Environmental

“Energy Watch Sweden” - Kingdom of Sweden

This application provides users with the ability to control and follow up on home energy devices, as well as remotely control the energy level, contributing to the reduction of the level of pollution in a general and effective manner.
International Level – Trade and Economy

“Occupation Outlook 2015 NZ” - New Zealand

This application was designed to help students make well-informed career choices, as well as provide them with vital information on 50 key occupations in New Zealand. Each occupation has three indices that indicate its relative income, fees, and job prospects.

International Level – Transportation and Infrastructure

“ID Pass” - French Republic

ID Pass helps users plan their trip to France, by choosing and determining all kind of different public and electric transportation means. This application is a private driver, taxi, car and bike self-service available throughout France, allowing users to book their stay, whenever they want, in advance or at the last minute. It is available in English, Catalan, Czech, Danish, Dutch, French, German, Polish, Portuguese, Slovak, Spanish and Swedish.
International Level – One Stop App Store

“MobileOne” - Republic of India

This application brings together services provided by multiple states and central governmental departments, as well as private-sector providers. These services include government-related ones, such as the payment of utility bills, as well as income and property taxes. SAKALA services, bus and railway ticket booking, various government services application, along with private services provided in healthcare, banking, travel, legal, agriculture and other related fields.

International Level – Smart Wearable Sector

“T. Jacket” - Republic of Singapore

The T. Jacket is a body system monitoring smart device, which is being used in special needs education to treat hyperactive children and children with autism in Singapore. The T. Jacket simulates deep pressure massages, preventing children from going into uncontrollable fits.
**Arab Level – Social Affairs**

“How do I pay Zakat” - Sultanate of Oman

This application helps users understand zakat rules and calculate those of their properties. Through it, they can calculate all types of Zakat on assets such as money, gold, silver, stocks and bonds. The application also provides prompt service to check gold prices, and fatwas about zakat.

**Arab Level – Safety and Security**

“ROP – Royal Oman Police” - Sultanate of Oman

This application allows users to benefit from services provided by the Royal Oman Police, including services and information related to traffic offenses enquiry and payment, visa application status enquiry, police stations locations based on GPS coordinates and 999 emergency calls.
Arab Level – Tourism

“Visit Jordan” - Hashemite Kingdom of Jordan

This application provides users with a short description of various restaurants, hotels, and historic, religious, cultural, natural, and other tourism sites in Jordan. It also includes various pictures, videos, helpful tips and useful maps.

Arab Level – Health

“Rendez-vous dans les hôpitaux” - Kingdom of Morocco

This application allows citizens to take and manage their appointments in public hospitals in Morocco. It has a list of all existing public hospitals, as well as their contact details, which can be found on Google Maps.
Arab Level – Education

“Safeer” - Kingdom of Saudi Arabia

This application, in its first edition, is intended to provide students studying abroad with easier, faster and commonly-used smart services needed. They include tracking the status of applications submitted, as well as personal student data, courses and dates, along with locating the attaché office via maps and GPS navigation systems.

Arab Level – Environmental

“Electricity and Water Services” - Kingdom of Bahrain

This application allows users to inquire about and pay bills, view bills and payments history, receive notifications for outstanding bills, submit meter readings, report high consumptions, update contact details and modify bill delivery methods.
Arab Level – Trade and Economy

“MEC Qatar” - State of Qatar

This application provides users with several vital services, such as renewing and issuing commercial permits and registrations, following up on transactions, searching for a commercial name or activity, reporting complaints and completing procedures necessary to obtain supply services.

Arab Level – Transportation and Infrastructure

“ADM Mobile” - Kingdom of Morocco

This application represents an indispensable co-pilot for drivers across Moroccan highways. It provides live information about highways, with the integration of location services, and provides alerts about road accidents, which consequently, allows users to plan their trip accordingly. Moreover, it helps calculate the costs of using highways.
Arab Level – One Stop App Sector

“E.GOV.KW” - State of Kuwait

This application provides users with the opportunity to get access to all mobile government services and information, as well as to Kuwait Government laws and bylaws, allowing them to pay electronically through the electronic payment gateway “Tasbeeh”. This application is provided in both English and Arabic languages.

National Level – Social affairs

“General Authority of Islamic Affairs & Endowments AWQAF”

This application provides information on all services related to the General Authority of Islamic Affairs & Endowments in the UAE. These information encompass all fatwas, Masjid locations, and prayer times, as well as Qibla and all information related to Hajj & Umrah. Moreover, users can get, download, read and listen to all Friday sermons, as well as browse and download all AWQAF books and publications.
National Level – Tourism

“Visit Dubai” - Department of Tourism and Commerce Marketing

The Visit Dubai application helps users easily navigate their way around interesting sites, attractions and events within Dubai and its surroundings.

National Level – Safety and security

“Dubai Police Application” - Dubai Police

The official Dubai Police Application ensures public access to all police smart services. It just got more intuitive upon the additional of the new Drive Mode and Police Station Mode to enhance usability.

Hence, the Drive Mode feature ensures faster and safer commute in Dubai, allowing the application to make public visits to police stations much smarter with the Police Station mode.
National Level – Trade and Economy

“Ministry of Labor Application” - Ministry of Labor

The interactive application provides the most used, smart labor services to employers and employees, enabling customers to communicate with MOL through all stages of service delivery. Moreover, business owners can proactively check 325,000 companies’ databases status of their registered companies in the Ministry of Labor. In addition, it assists in raising labor and companies’ rights and obligations.

National Level – Health

“HAAD” - Health Authority Abu Dhabi

This application helps community members view and search for details of different health services and related information. For example, customers can find information on licensed doctors, hospitals, medicines available in pharmacies, and health insurance etc. Users can also book appointments, verify their sick leave, and track or pay for their applications with HAAD. Moreover, they can subscribe to e-publications, as well as view news, events, policies, and circulars etc. The application also caters to the needs of health professionals, by providing them with various services including booking for exams, receiving good conduct certificates, and transferring professional medical licenses.
National Level – Education

“Wajehni” - Ministry of Labor

The application provides educational institutions, students and the private sector with excellent services related to the vocational and summer training operations management field, and offers a platform in both Arabic and English languages.

National Level – Environmental

“DEWA” - Dubai Electricity and Water Authority

This application provides customers with a variety of smart services, including the payment of monthly bills in real time. It also advises users on how to optimise electricity and water consumption effectively, and enables new customers to easily activate the electricity and water supply services once moved into new premises. This multi-lingual universal application is offered to different stakeholders including customers, suppliers, consultants, job seekers, and government.
National Level – Transportation and Infrastructure

“RTA Dubai” - Roads and Transport Authority

RTA is a smart application, which includes a list of services and features designed to support roads and public transport users in Dubai.

National Level – One Stop App Sector

“Dubai Now” - Dubai Smart Government

This one-stop application allows people, living in Dubai, to have immediate access to all relevant government services. Specifically, it facilitates the payment of phone and DEWA bills, as well as traffic fines and Salik tariffs, and tracking and planning of travel trajectories, while providing live accident information. It also allows you to plan child vaccination, find out school ratings and information on track “Empost” shipments, find local prayer times and mosques, locate a specialist doctor or clinic, track flight arrivals and departures, and find a 24-hour pharmacy, etc. Moreover, this application features more than 50 smart services provided from 22 different governmental entities.
National Level – Smart Wearable Sector

“Dubai Police” - Dubai Police General HQ

The smart wearable technology application, provided via Dubai Police, allows motorists in Dubai to enquire about traffic violations and pay their fines using an Apple Watch. It also allows access to all Dubai police stations and provides key services, such as making emergency calls, discovering the number of customers per police station, querying tickets, and requesting services status.

University students

“Road Watch” - NYU Abu Dhabi

This application displays the current state of roads and related statistics, and warns drivers when exceeding the speed limit. It also notifies the drivers of any road accidents in order to change routes and reduce speed. It also offers a points' system to encourage and motivate drivers to follow roads rules and regulations.
SDGs in Action 2016
Sheikha Lubna bint Khalid Al Qasimi, Cabinet Member and Minister of State for Tolerance and Head of the UAE Committee on Foreign Humanitarian Aid, has emphasised the importance of unifying international efforts and enhancing cooperation between governments and active organisations, in order to create finance solutions to achieve sustainable development goals.

Al Qasimi provided her observations during an interactive session organized by the Ministry of International Development and Cooperation, entitled “Goals of Sustainable Development and Global Funding”, that was held on the sidelines of the World Government Summit 2016, and attended by about 100 local, regional and international experts, officials and decision-makers.

The interactive session included a group of mini-sessions and discussion panels. The interactive sessions discussed a variety of issues falling within the scope of the 17 sustainable development goals, tackling poverty, gender inequality, health, education, food, water, energy, growth, employment, creativity, oceans, biodiversity, sustainable consumption, and human settlements.

The speakers during the sessions H.R.H. Princess Sarah Zeid-Co-Chair, EWEC Everywhere, The Hashemite Kingdom of Jordan, H.R.H. Prince Saud Khaled Al Faisal Executive Director of Investment Climate, Acting ED Investment Affairs, Kingdom of Saudi Arabia, and H.E. Sheikha Lubna bint Khalid Al Qasimi, Minister of Tolerance, and H.E. Dr. Ahmad Belhoul Minister of State for Higher Education from United Arab Emirates, and also Erik Solheim Chair of the DAC Development Assistance Committee, OECD from Norway, H.E. Yinager Belay, Minister of National Planning Commission from Ethiopia, and Joachim Von Amsberg Vice President, Development Finance from Germany.
The SDGs in Action @ WGS2016, was a three-day event that constituted an important pillar of the WGS program, served to discuss an action agenda for implementing the Sustainable Development Goals (SDGs). Organized in partnership with the UN Department of Economic and Social Affairs (UN DESA), the World Bank, and the UN Foundation, the event examined key success factors that will contribute to the implementation of SDGs at global, regional and national levels. The event was timely held, as the fifteen-year implementation timeframe has kicked off on 1 January 2016, and the first months of 2016 will be critical to accelerate their delivery by 2030.

High-level government officials, local authorities, representatives of the private sector, multilateral and international organizations, donors, academic institutions, civil society organizations and youth exchanged views on their respective roles in SDG implementation, as well as mutual expectations. The highly interactive discussions reflected ongoing actions to implement SDGs and identified challenges, opportunities and recommendations to move forward in the achievement of these objectives.
Cluster Room of SDGs in Action @ WGS2016 in Collaboration with the United Nations and the World Bank Group
SDGs in Action @ WGS2016 in Collaboration with the United Nations and the World Bank Group
The fourth edition of the World Government Summit, a global networking platform that focuses on the future of governments and the trends that are shaping the global agenda, welcomed the inclusion of the Sustainable Development Goals (SDGs) as one of its main themes. With 2016 marking the initial period of the 15-year implementation of the 2030 development agenda, the UAE is one of the first hosts to global events on SDGs, convening dialogues with thousands of top government officials from over 90 countries, the United Nations, global development actors, and various sectors of society at the Summit.

“SDGs in Action” at the World Government Summit was held within the first six weeks of the 782-week implementation timeframe of the 2030 development agenda.
Meetings & Agreements
First Meeting of the Global Humanitarian Consultative Council

His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, presided over the first meeting of the Global Humanitarian Consultative Council, bringing together 8 of the world’s humanitarian action leaders. The meeting was held during the World Government Summit 2016 in the presence of His Highness Sheikh Hamdan bin Zayed Al Nahyan, Ruler’s Representative in the Western Region and Chairman of the Emirates Red Crescent, as well as Dr. Nabil ElAraby, Secretary General of League of Arab States, and Dr. AbdulLatif bin Rashid Al Zayani, Secretary General of the Cooperation Council for the Arab States of the Gulf.

Following the meeting, His Highness launched the “Dubai Humanitarian Statement”, affirming that “the UAE is always seeking to face all regional and global challenges on social, humanitarian, economic and developmental fronts.”
The Signing of Agreements Concluded with the Main Sponsors of the 4th Edition of the World Government Summit 2016

His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, has honored the main sponsors of the 4th World Government Summit. Sheikh Mohammed attended the signing of partnership agreements between the World Government Summit and sponsors, honored for the coming Government Summit in 2017. H.E. Mohammad bin Abdullah Al Gergawi, Minister for Cabinet Affairs and Chairman of the Summit, concluded the agreements with representatives of sponsors, which included the Emirates Integrated Telecommunications Company (du) as a key partner, the Abu Dhabi Fund for Development as a strategic partner, the Dubai Electricity and Water Authority (DEWA) as a sustainable energy partner, the Municipality of Dubai as a partner of the Smart City, and DP World as a partner of entrepreneurship, and the Telecommunications Regulatory Authority (TRA) of the United Arab Emirates as a leading partner. Among honored entities which participated in signing the agreements were also VPS Healthcare, GEMS Education, and Lulu Group International, Emirates Airlines - the official carrier of the summit, and Al Tayer Motors.
H.H. Sheikh Mohammed bin Rashid Honors the Main Partners of the World Government Summit 2016
Sideline Meetings at the World Government Summit

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received Mr. Jim Yong Kim, President of the World Bank Group, and discussed a number of topics, including economy, governance and UAE’s experience in this respect.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received a group of mayors and representatives of a number of Arab and foreign cities participating at the 4th World Government Summit 2016.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received H.E. Angel Gurría, Secretary General of the (OECD), and exchanged views on a wide range of issues, as well as methods to enhance international cooperation to advance.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received Mr. Stefan Selig, U.S. Under Secretary of Commerce for International Trade, who expressed the appreciation of the US government and administration to the UAE for choosing the US as a guest of honour at the 4th World Government Summit 2016.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received H.E. Abdelmalek Sellal, Prime Minister of Algeria and discussed a number of bilateral and regional issues, particularly economic, social and administrative development issues.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received H.E. Sherif Ismail, Egyptian Prime Minister, and discussed bilateral relations between the two countries and ways to enhance them.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received Professor Klaus Schwab, Founder and President of the World Economic Forum, and reviewed the latest economic and information technology advancements at regional and international levels.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received H.E. Joseph Muscat, Prime Minister of Malta and discussed overall bilateral relations between the two countries and ways to enhance them.

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received H.E. Abdul Latif, President of the World Bank Group, and discussed a set of topics, including economy, governance and UAE’s experience in this respect.
Sideline Meetings at the World Government Summit

H.H. Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, received Mr. Joe Kaeser, President and Chief Executive Officer of Siemens AG.

H.H. Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of UAE Armed Forces, received H.E. Abdelmalek Sellal, Prime Minister of Algeria as well as his accompanying delegation, during the World Government Summit.

H.H. Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of UAE Armed Forces, received Mr. Jim Yong Kim, President of the World Bank Group, who participated in the World Government Summit.

They have exchanged views on a number of global economic and development issues affected by a series of events and recent developments.

H.H. Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of UAE Armed Forces, received Mr. Jim Yong Kim, President of the World Bank Group, who have participated in the World Government Summit.

They have exchanged views on a number of global economic and development issues affected by a series of events and recent developments.

Lt. General H.H. Sheikh Saif bin Zayed Al Nahyan, UAE Deputy Prime Minister and Minister of Interior, received Jordanian Minister of Interior.

Lt. General H.H. Sheikh Saif bin Zayed Al Nahyan, UAE Deputy Prime Minister and Minister of Interior, received a member of the Senate of Spain.

Lt. General H.H. Sheikh Saif bin Zayed Al Nahyan, UAE Deputy Prime Minister and Minister of Interior, received Director of the French International Cooperation Agency.

Lt. General H.H. Sheikh Saif bin Zayed Al Nahyan, UAE Deputy Prime Minister and Minister of Interior, received a member of the Senate of Spain.
Sideline Meetings at the World Government Summit

H.E. Sheikh Hamdan bin Zayed Al Nahyan, Minister of Higher Education and Scientific Research, concluded with the Egyptian Minister of Education a Memorandum of Cooperation.

H.E. Mohammed Abdullah Al Gergawi, President of the World Government Summit, met with the World Bank Group President. The meeting was attended by H.E. Ohoud Al Roumi, Vice President of the World Government Summit.

H.H. Sheikh Mansour bin Zayed Al Nahyan, Deputy Prime Minister and Minister of Presidency Affairs, received H.E. Abdelmalek Sellal, Prime Minister of Algeria as well as his accompanying delegation.

H.E. Sheikha Lubna bint Khalid Al Qasimi, Minister of State for International Cooperation and Development and Head of the UAE Committee on Foreign Humanitarian Aid, met with a number of international officials on the sidelines of the second day of the World Government Summit 2016.

The Ministry of Finance organized two meetings for financial sector officials at both the local and regional levels, with the World Bank Group and the International Monetary Fund (IMF).

H.E. Minister of Health & Prevention discussed opportunities for cooperation in the health care services sector with high-level delegation from the Republic of Malta, headed by H.E Minister of Health and Energy.

H.E. Minister of Economy concluded a Memorandum of Understanding with U.S. Ambassador to the United Arab Emirates to enhance cooperation in innovation and entrepreneurship fields.

The Federal National Council convened with the (OECD) to discuss mechanisms adopted or enhanced bilateral cooperation and conclude a Cooperation Agreement, by virtue of which the Council will become the first parliamentary institution that concluded an Agreement with the OECD worldwide.

The Ministry of Finance organized two meetings for financial sector officials at both the local and regional levels, with the World Bank Group and the International Monetary Fund (IMF).
Sideline Meetings at the World Government Summit

The Dubai Electricity & Water Authority (DEWA) shared the best environment preservation experiences with the Australian Department of Environment and Energy. H.E. Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity & Water Authority (DEWA) met with Mr. Joe Kaeser, President and Chief Executive Officer of Siemens AG, to enhance cooperation between them.

H.E. Minister of Social Affairs met with Dr. Sima Bahous, UN Assistant Secretary-General, on the sidelines of the World Government Summit 2016. The Dubai Electricity & Water Authority (DEWA) concluded a Memorandum of Understanding with Microsoft to ensure cooperation in the field of innovation, development of solutions and applications.

The Federal Authority for Government Human Resources concluded a Memorandum of Understanding with Siemens AG to promote mutual cooperation in the energy field.

Egyptian Prime Minister H.E. Sherif Ismail met with Professor Klaus Schwab, Chairman of World Economic Forum.

The President of India met with the Egyptian Prime Minister, H.E. Sherif Ismail, to promote bilateral relations. The Dubai Electricity & Water Authority (DEWA) concluded a Memorandum of Understanding with Microsoft to ensure cooperation in the field of innovation, development of solutions and applications.

H.E. Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity & Water Authority (DEWA) met with Mr. Joe Kaeser, President and Chief Executive Officer of Siemens AG, to enhance cooperation between them.
H.E. Minister of Happiness Meeting with a Number of International University Students

On the sidelines of the World Government Summit 2016, H.E. Ohood Al Roumi, Minister of Happiness, met with about 100 MBA students, representing prestigious international universities, including the Wharton School, Harvard University, IESE Business School, University College London, and Harvard Kennedy School.
Round Table on the Internet of Things in Collaboration with the Telecommunication Regulatory Authority (TRA)

Prospects for Healthcare Investment Towards Excellent Health Outcomes in Collaboration with VPS Healthcare

Arab e-Government Directors Meeting with the United Nations Economic and Social Commission for Western Asia (ESCWA)
Second Arab Universities Presidents Forum in Collaboration with the United Arab Emirates University

Science, Technology and Policy in Collaboration with the Mohammed bin Rashid Space Center
Cities of the Future in Collaboration with Dubai Municipality (Session for Global Cities Mayors)

A number of sessions on the importance and capabilities of Watson
Book Signing Session on the Sidelines of the World Government Summit
Author Dr. Peter Diamandis at the Summit Book Signing Session

Author Nicholas Negroponte at the Summit Book Signing Session
World Government Summit Reports
Artificial Intelligence: Disrupting The Future Of Work

Artificial intelligence (AI) is growing increasingly sophisticated, enabling machines to perform some cognitive tasks as well as or better than humans, from assessing a loan application to writing stock performance reports. To stay competitive, businesses are under pressure to reorganize to accommodate the pace of technological change and take advantage of new opportunities this new technology creates. This demands a rethinking of how work will be done—and who or what will do it.

What Is Disruptive Innovation?

The theory of disruptive innovation, introduced in Harvard Business Review in 1995, has proved to be a powerful way of thinking about innovation-driven growth. Unfortunately, disruption theory is in danger of becoming a victim of its own success. Despite broad dissemination, the theory’s core concepts have been widely misunderstood and its basic tenets frequently misapplied. Furthermore, essential refinements in the theory over the past 20 years appear to have been overshadowed by the popularity of the initial formulation. As a result, the theory is sometimes criticized for shortcomings that have already been addressed. This article is part of an effort to capture the state of the art. We begin by exploring the basic tenets of disruptive innovation and examining whether they apply to Uber. Then we point out some common pitfalls in the theory’s application, how these arise, and why correctly using the theory matters. We go on to trace major turning points in the evolution of our thinking and make the case that what we have learned allows us to more accurately predict which businesses will grow.

Preventing And Reversing Brain Drain

When scientists, health care providers, entrepreneurs, and other business and management talent consistently leave the country of birth for opportunities abroad, it creates a persistent drag on the home country’s economy and blights its growth. This phenomenon is popularly known as brain drain. Brain drain affects the home country and the companies within it in numerous and interconnected ways, making cause and effect difficult to disentangle. With a depleted entrepreneurial class, who is there to develop goods and services, create jobs, and drive economic growth? The departure of physicians and nurses stresses the health care system and compromises public health. Scientists and technologists leave, taking with them not only the knowledge and skills they may have obtained at the state’s expense but also their capacity to drive the innovation that fuels economic development and international prestige. So what can countries and companies that see their best and brightest leave do in response? What can they do to reverse the brain drain?

Personalized Technology Will Shift The Doctor-Patient Relationship

Personal technology is ushering in a new era of the “house call-plus.” An emerging philosophy in which smartphone apps, embedded devices, and wearable technology are fundamentally changing how and where medical decisions are made and treatment is rendered. Telemedicine, home diagnosis, and retail settings that treat patients near their home and workplace are other forces bringing sweeping changes to the healthcare landscape. As the healthcare industry undergoes its digital transformation, immense new profit pools are being created. PwC estimates that up to $1.5 trillion in spending and $150 billion in profits are up for grabs. The question is, who is going to grab it and how?
Future State 2030: The Global Megatrends Shaping Governments

The world is changing rapidly. Technology is connecting people within and across national boundaries and disrupting existing assumptions. Mounting public debt is limiting the scope of governments to act in a range of policy areas. Climate change is increasing the frequency and magnitude of extreme weather events. And more that at any point in human history, we live in a world where events and decisions in one part of the world can influence lives at the opposite end of our planet. Recognizing that these changes are underway, KPMG International engaged and worked with the Mowat Center at the School of Public Policy and Governance, University of Toronto, to better understand the megatrends that will have the most significant impact on governments in the years ahead, as well as the changes required to achieve the characteristics of a “leading practice” government in the future.

The Journey To Government’s Digital Transformation

In the coming decade, several factors—an aging population, the rise of Millennials, budget shortfalls, and ballooning entitlement spending—could reshape the way government delivers services. But the introduction of new digital technologies is likely to be the most important factor of all. Governments are in the midst of a historic transformation as they abandon analog operating models in favor of digital systems. Truly transforming government through the power of digital technologies will be a journey. Deloitte surveyed 1,200 government officials from over 70 countries on digital transformation and interviewed another 140 government leaders and outside experts. This report explores findings related to the characteristics of public sector organizations at the forefront of using digital technologies to transform the way they function. Then the primary barriers to digital transformation are examined. Finally, a set of strategies that government leaders can employ to successfully navigate the digital transformation journey is laid out.

The promise of new technologies to transform education by delivering learning that is personalized and engaging for each student has caught the attention of educators, parents, and policymakers. Because all students learn at different paces and have different levels of background knowledge and conceptions about topics, digital learning offers a unique way to offer customized solutions for K-12 schools and children at scale. Done right, blended learning breaks through the barriers of the use of time, place, path to understanding, and pace to allow each student to work according to his or her particular needs. This article discusses the benefits of blended learning and how can educators capture its vast potential in terms of personalization, access and equity, and cost control?

Shaping the Future Of Work Technology’s Role In Employment

Technological advancements paved the way for Big Data, Mobility, Cloud technologies & Internet of Things (IoT) which are now a pivotal elements transforming how business is conducted in many industries, including government. Whereas numerous government bodies have realized the potential of the big data that rests in their possession, very little attention has been given to the potential to capitalize on big data to create jobs or better yet to bridge the gap between the employers and employees.
Gamification And The Future Of Education

Gamification and the Future of Education is a forward-looking report that explores how the mechanics and dynamics commonly found in games can be applied in the educational context to improve educational outcomes. At the core of this report is an important policy puzzle: what role does gamification, as a pedagogical innovation, play in the future of education? In the attempt to solve this puzzle, this report addresses four fundamental questions: How has gamification evolved? How has gamification been applied? What are its advantages and drawbacks? And what strategies and policies are necessary for gamification to be incorporated successfully in education?

Global Economic Outlook 2016-2020

The Global Economic Outlook report addresses the short and longer-range issues that are shaping – and will shape out to the year 2020 – the global economic and business environment. It also envisions what conditions might serve to lift the current “Global Gloom” – what elements might enable the global economy to finally achieve the “escape velocity” conditions of the pre-Great Recession period.

State of sustainability, UAE 2016

With the UN General Assembly adopting the 2030 Sustainable Development Agenda, the international spotlight is now on sustainable aspects of national developments towards 17 Sustainable Development Goals and 169 according targets. Countries’ performance will be evaluated and annual progress will be reported in the annual SDG Progress Report. State of Sustainability: UAE 2016, is a report that can be used as a tool to engage, analyze and communicate with the required stakeholders that complements and supports the official reporting requirement.

A Smart City For Public Value

How can a local government build a “Smart City”? In exploring these questions, this study provides in-depth analysis of the critical first phase of Dubai’s mega-transformation into a smart city. Dubai’s ultimate objective in building the smart city is to improve quality of life and raise public “happiness”. Achieving these two ambitious goals requires tackling numerous organizational, technological, cultural and policy challenges. The study analyzes these challenges, as well as the milestones reached during the first phase of Dubai’s journey and documents the multi-faceted lessons learned.

Advanced Science And The Future Of Government

Governments need to stay abreast of the latest developments in science and technology, both to regulate such activity, and to utilize the new developments in their own service delivery. Yet the pace of change is now so rapid it can be difficult for policymakers to keep up. Identifying what developments to focus on is a major challenge. Some are subject to considerable hype, only to falter when they are applied outside the laboratory. This report focuses on three advances which are the subject of considerable excitement today: robots and artificial intelligence (AI), genomic medicine; and biometrics.
Activities and Services of the World Government Summit
Activities and Visits of the World Government Summit Delegations
Closing Ceremony Meeting for WGS Team
His Highness Sheikh Mohammed bin Rashid Al Maktoum with WGS Teams
World Government Summit Volunteers Team
القمة WORLD
العالمية GOVERNMENT
للحكومات SUMMIT

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