

Under the High Patronage of:

سلطنة عُمان
وزارة النقل والاتصالات وتقنية المعلومات
Sultanate of Oman
Ministry of Transport, Communications and
Information Technology



GLOBAL FORUM 2022
Monday 17th & Tuesday 18th October 2022
Muscat, OMAN

DIGITAL DYNAMICS AND GLOBAL SOCIETAL CHALLENGES
NEW REALITIES OF DISRUPTION AND RESILIENCE

Sunday 16th October
Welcome Event [7:00 pm to 9:00 pm]

Monday 17th October

Welcome Addresses [8:45 am – 9:15 am]

Opening Session: Future Visions [9:15 am – 10:30 am]

- Digital Visions in a World Full of Challenges

Session as a dialog, led by multi-disciplinary presentations on visions for the role of technology in human endeavor, recognizing the need to place technology in the context of solving the great problems facing all societies. We must find ways for governments to develop policies regarding the role of technology that protect privacy while stimulating innovations that contribute to problem solving

S1: Wireless and Wireline Infrastructures: Upcoming Challenges
[10:30 am – 12:00 pm]

- 5G: Global Status, Concerns, and Deployment Projections
- How Important is 5G for the Digitalization of the Economy?
- The Importance of Digital Infrastructure in Europe, North America, Asia, Africa
- The Global Stakes of Space Policy
- Broadband access vs. Digital Infrastructure Investing
- The Business Case for Network Connectivity in Pandemic and Economic Post-Covid Recovery Plans
- How Wireless and Wireline Infrastructures support Climate Action, Energy, Mobility, Defense & Security
- Innovations & New Business Models for Networking Providers

Lunch [12:00 pm – 1:30 pm]

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Monday 17th October

Keynote Session: [1:30 pm – 2:00 pm]

- Collaboration Between the Digital and Human Worlds: Importance of a Human Centered Approach
- Ethics of Emerging Tech

S2: Managing Disruptive Digital Technologies: Artificial Intelligences, IoT, Blockchain, 5G ... [2:00 pm – 3:15 pm]

- Developing Policies for Trusting Artificial Intelligence
- Potential Value of AI in Global Sustainability
- Ethics & AI
- AI and the Next Generation of Competences
- Quantum Computing for Managing Disruptive Technologies
- Principles for Balancing Privacy with Public Safety in Pandemics
- The New Data Sharing Paradigms: Which Issues at Stake?
- Identifying Policy Issues for Managing Disruptive Technologies such as Quantum Computing
- Algorithmic Risks in Automated Decision Systems
- Managing Risks with Centralized and Distributed Large Data Collections
- Issues with Human to Machine Integration - Augmented Reality / Virtual Reality Limits
- The Next Iteration of the Internet of Things: The Internet of Ideas lol

Coffee Break [3:15 pm – 3:30 pm]

S3: Designing Ethics for Artificial Intelligence and an Efficient Regulatory, Policy, & Governance Framework in a Complex World [3:30 pm – 4:45 pm]

Ethics for AI

- The Impact of AI on Human Rights
- How to Avoid, Identify and Mitigate AI Unintended Biases, in Particular Gender Bias, Ethnic or Racial Prejudice, Age & Social Discrimination?
- AI, Confidentiality, Privacy of Individuals and Communities, and Data Governance
- AI, Responsibility and Accountability

Designing Digital Regulatory Framework

- Will We Continue to See More Deregulation of the Telecom and Tech Center or Is There The Need For More Regulation, Not Less, To Serve Social/Societal Goals?
- Are We Risking A Bifurcation of Tech Systems Between the West and the Emerging countries?
- How Has the Corona Pandemic Affected Current Digital Laws and Regulations? Are these Changes Likely to be Temporary or Permanent?
- How to Protect Consumer Data Privacy and Ensure That Social Media Platforms Do Not Mislead Consumers About The Use of Their Personal Information?

The program is constantly evolving in order to accommodate the interests of Global Forum 2022 speakers and participants, as well as to take into account the rapidly changing dynamics of the information technologies market.

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S4: Public Health and Prevention / Digital Health Opportunities **[4:45 pm – 6:00 pm]**

- Global Vision of Health Policy (Incorporating Data Privacy, Ethics, and Social Determinants of Health)
- Smart Healthcare: Improving Safety, Quality, and Equity in Healthcare through Simulation, Learning Healthcare Systems, and Interoperability
- Patient-Centered Therapies: The Pitfalls and Promise of Precision Medicine
- Digital Accessibility and Assistive Technologies
- Advances in the Provision of Care (Telemedicine/Telehealth, Smart Hospitals, Robotisation, Artificial Intelligence, Virtual Reality, AR, etc.)
- Patient Empowerment (User Feedback, Access to Medical Records and Information, Ranking of Health Care Providers, Quantified Self, etc.)
- Connected Health/ Benefits of Sharing & Interoperability – Country Cases for Best Practices in Public Health Systems
- The COVID Watershed: How the Pandemic Transformed Public Health Priorities and Healthcare Implementation (Need for High-Quality Data, Medical Records, Vaccination, Identification of Patients Treated for COVID, Diagnostics, Prevention and Surveillance, etc.)

GALA DINNER [8:00 pm to 10:30 pm]

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Tuesday 18th October [8:45 am – 1:10 pm]

Keynote Opening Session Day 2 [8:45 am – 9:45 am]

How digital is used for more resilient societies and at social innovation, where it's important in light of Covid-19 and other global threats and challenges to reexamine what we mean by sustainability and to re-define resilience in this context

- The Changes in Education – New EduTech Platforms
- How the Pandemic Changes Our Society and How to Design the Future

S5: Sustainable Cities, Regions & Communities & Tech for Good [9:45 am – 11:15 am]

- Sustainable Urban Developments
- Decentralized Innovation in Cities: Mobility, Smart Energy, Intelligent Buildings
- Combining Digital and Nature Based Solutions
- Data & AI to fight climate change
- Resilient/cognitive cities
- Data for Good
- Data & Knowledge Sharing Issues/Interoperability (Public Data & Open Source)
- Investing in Innovation to Get Out of a Difficult Economic Situation
- Innovation in Smart Cities During COVID-19: New Health Challenges for Local Authorities
- IoT & Data Analytics Opportunities for Smart City & Smart Grid
- Digital & AI at the Service of the Citizen
- Mobility: AI+5G
- Digital as an Enabler for Sustainability, Climate Mitigation & Adaptation, Water Management Solutions, Renewable Energy
- Urban Agriculture and Digital Innovation. Towards a Self-Sufficient Future?
- Community Engagement & Co-Creation
- Regenerative and Restorative Circular Cities, the New Localism and Digital Technologies

Coffee Break (11:15 am – 11:40am)

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S6a: Digitalization in Energy Transition & Water Dynamics [11:40 am – 1:10 pm]

- Smart Energy - Energy Transition Empowered by Digital Solutions
- Smart Water – Advancing Digital Solutions to support Water Management Solutions
- Rethinking Power Supply and Distribution with Smart Grids
- Improving the Energy Efficiency of The Water Sector
- The Issue of the Multiplication of Platforms and the Exchange of Real Time Data
- How to Prevent Cybersecurity Threats Against Energy and Water Systems?
- How Artificial Intelligence and Digital Twins Could:
 - Assist Players of the Various Energy Value Chains, to Decrease GES / CO2 Emissions
 - Enhance Reliability, Security and Resilience, Increasing Efficiency While Ensuring Reduced Vulnerability
- Integration of Blockchain for Improving IoT Devices Authentication, Energy Trading and Micro Grid Management
- Public Authorities Facing Regulation Challenges to Support a Transformation towards a Low Carbon Society and Economy
- How Smart Building Tools and Services Can Reduce Energy Consumption?
Low Carbon Strategy for Local Authorities

S6b: Cross-border Water Conflict & Diplomacy [11:40 am – 1:10 pm] (specific for Water & Humanity)

Lunch [1:10 pm – 2:30 pm]

Afternoon Day 2 Special Program

Option 1: Continue the Conference

Sessions: Water & Humanity Day 2 & 3 (Please see 3-days program)

Kindly note that the afternoon Day 2 includes

Session 7a Framing tools for Future Cross-Border Collaboration [2:30 pm – 4:00pm]

Session 7b Women in Tech and Women in Water [2:30 pm – 4:00pm]

Session 8a Smart vs Nature Based Solutions [4:00 pm – 5.30 pm]

Session 8b New Approaches to Building On Heritage & Culture [4:00 pm – 5.30 pm]

Option 2: Local Explorative Visits

I: Hi-Tech Visit the AR/VR Design Lab at Knowledge Oasis Muscat (KOM)

II: Culture & History Guided tour Muscat old Town and National Museum – with some key technology features

III: Nature– boat tour Dolphins & Turtles (snorkeling optional)

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AFRICA

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