Saudi Arabia Centre for the Fourth Industrial Revolution



July 10 Issue 4

WQD Celebration

The Centre for the Fourth Industrial Revolution (C4IR) Saudi Arabia organized an event to celebrate World Quantum 2024 in partnership with various Day local and international entities. The event was held on April 17 and 18 to elevate public understanding and foster global and national collaboration in quantum science and technology.

Additionally, exhibitions leading from organizations such as KACST, KFUPM, IBM and displayed cutting-edge quantum computing and cryptography developments. The event also included seminars and expert sessions that explored the impact of quantum technology on various sectors and discussed strategies for integrating quantum computing into the Saudi economy. Furthermore, King Salman Science Oasis organized activities for

students, aiming to engage young minds and introducethemtothefundamentalconcepts and applications of quantum technologies, enhancing their understanding and interest in this transformative field.









Second Quantum Economy Project Workshop

C4IR Saudi Arabia in partnership with World Economic Forum, hosted the second workshop for the Quantum Economy Project, exploring the vast opportunities of quantum technology in the Kingdom. Leaders and specialists gather to align the quantum economy with worldwide standards.

C4IR Saudi Arabia's Visit to Hannover Messe 2024 Exhibition

rich in knowledge, experience, and and deepen existing innovations, from quantum technologies digital platforms, emphasizing to sustainability and efficiency. Meetings with industry leaders and companies like Festo highlighted collaboration and partnership opportunities.

The visit to the Hannover Messe The visit offered an opportunity to learn Exhibition from April 22-23, 2024, was from global experts, gain new perspectives, knowledge valuable meetings. The exhibition through interactive sessions. Meaningful provided insights into the latest industrial experiences included beneficial meetings, thought-provoking exchanges, and forging connections for future collaborations. Productive dialogues and valuable exchanges opened new avenues for growth and innovation. The knowledge and insights gained will drive meaningful impact in the Centre's focus areas.





The Saudi Food Show

C4IR Saudi Arabia was thrilled to announce its participation in the Saudi Food Show, which took place from May 21-23, 2024, at the Riyadh Front Conference Stage. The Centre had the opportunity to participate in a panel discussion that explored "The Role" of Technology in Improving the Efficiency and Production of Food." The discussion brought together experts from industry, academia and C4IR Saudi Arabia to share their insights an perspectives on this critical topic. Also, the importance of SMEs in adopting emerging technologies was given attention to.

C4IR Saudi Arabia is committed to advancing the responsible implementation of emerging technologies to tackle food security challenges. With one-third of global food production wasted annually, innovations like IoT's Smart Monitoring can optimize storage conditions, reducing food spoilage and increasing food availability. Leveraging data and sensors, precision agriculture optimizes resource use, leading to higher yields with less water, fertilizer, and pesticides, aligning with Saudi Arabia's Vision 2030, which emphasizes technological advancements for a sustainable food sector.





Third Autonomous Systems Project Workshop

The third Autonomous Systems Workshop highlighted the critical need for bringing leaders and specialists together to discuss establishing the groundwork autonomous mobility initiatives, for setting robust testing protocols, ensuring smooth transitions with effective posttesting strategies, and defining clear responsibilities for all stakeholders.

Pasqal Middle East Roadshow

On May 15, 2024, C4IR Saudi Arabia participated in Pasqal Middle East Roadshow at The Garage - KACST. Dr Basma AlBuhairan and Dr Saad Alowayyed, the project lead for Quantum Economy at C4IR Saudi Arabia, took part in this event. Dr AlBuhairan delivered a keynote address titled "Quantum Leap: Unveiling" the Quantum Economy Landscape in the

Kingdom," highlighting the transformative potential of quantum technologies. Her address emphasized key initiatives such as celebrating World Quantum Day 2024 and launching the Quantum Economy Project, aimed at bridging investment, knowledge, and regulatory gaps.

Dr Alowayyed participated in a panel discussion titled "Exploring Quantum" Frontiers: Insights from the Research Institutes," with notable participants from PASQAL, KFUPM, and Jazan University.





Al Governance Alliance Community

C4IR Saudi Arabia attended the AI Governance Alliance Community meeting in San Francisco on May 28, 2024. It was a significant gathering of 118 leaders from sectors to push forward the various Alliance's vision and objectives. The meeting highlighted six key vision areas: achieving technical consensus, boosting industry accountability, harmonizing AI policies, maintaining ethical standards, involving

stakeholders, and promoting a flourishing ecosystem. The objectives were to advance working group goals, pinpoint new focus areas, and integrate lessons learned into the Alliance's broader strategy, emphasizing multistakeholder cooperation to address global challenges in sectors like healthcare, education, and agriculture. The meeting aims to produce actionable insights and a responsible AI integration framework, with plans for detailed briefing papers and reports to inform stakeholders and policymakers evolving governance about the landscape.

The 5th International **Smart Factory** Summit in Switzerland

C4IR Saudi Arabia participated in the 5th International Smart Factory Summit Switzerland, in collaboration with in United Nations Industrial Development Organization June 12-14, 2024. Dr Ibrahim AlShunaifi, the project lead for SMEs, spoke at the panel session "Smart Factories Around the Globe for a Sustainable Future," sharing insights on leveraging smart factory technologies for productivity and sustainability in SMEs, and emphasizing the importance of integrating advanced technologies to help SMEs compete globally while maintaining sustainable practices.



Centres Heads' Meeting

On May 31, the agenda shifted towards operational excellence and collaborative efficiency. The centres are engaged in defining operating principles for highperforming 4IR Centres, surfacing best practices to deepen collaboration with the World Economic Forum, and strengthening the exchange and connections between the various centres. This session emphasized the importance of operational synergies and shared best practices to ensure the centres operate at the highest standards, fostering an environment of continuous improvement and collective progress.



On May 28 and 31, 2024, the C4IR network convened to enhance the impact and efficiency of the Fourth Industrial Revolution Centres. The first session on May 28 focused on three main objectives: raising ambitions for national and global impacts, creating a shared understanding of national roles, and identifying success factors to strengthen national value propositions. Robust discussions aimed at enhancing the strategic positioning of each Centre within both national and global frameworks facilitated a deeper understanding of their pivotal roles.

Global Technology Retreat 2024

C4IR Saudi Arabia participated in the Global Technology Retreat 2024 in San Francisco on May 29 and 30, a meeting convened over 300 technology that leaders and experts from around the globe. This meeting provided a crucial platform for nurturing partnerships and advancing



global and local technology agendas. Through active engagement and dialogue with the Forum's network of 19 national and sub-national centres across five continents, C4IR Saudi Arabia surfaced new insights, aligned priorities, and exchanged valuable experiences with their counterparts at other Centres, as well as other attendees across multiple industries.

C4IR Saudi Arabia's participation at the **Annual Meeting of** the New Champions (AMNC 2024) in China

showcased C4IR Saudi Arabia its innovative spirit and commitment to sustainable growth at the Annual Meeting of the New Champions (AMNC) 2024 in

China. Dr. Basma AlBuhairan spoke at the UpLink Welcome Session, highlighting collaboration and sustainable growth. Dr.Albuhairan also delivered a keynote on SMEs partnerships and technological integration.

The Centre co-hosted a session on "Transforming SME with Technology," focusing on digital transformation and public-private collaborations. Additionally, they participated in "Scenario Planning: Reimagining Value Chains for 2040," discussing future technological and sustainability trends.

