WORLD ECONOMIC FORUM

Saudi Arabia
Centre for the
Fourth Industrial
Revolution

KACST
مدينة الملك عبدالعزيز
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3rd Saudi Forum for 4IR
2025: Frontiers of
Global Technology
By C4IR Saudi Arabia

Impact Report

3rd Saudi Forum for 4IR 2025: Frontiers of Global Technology

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01 Executive Summary

The 3rd Saudi Forum for 4IR 2025: Frontiers of Global Technology convened 4IR industry leaders, policymakers, innovators, and other community stakeholders from across the world.

Organized by the Centre for the Fourth Industrial Revolution (C4IR) Saudi Arabia, in collaboration with the World Economic Forum and King Abdulaziz City for Science and Technology (KACST), the Forum delivered 26 panels and private sessions from 81 contributors. These sessions highlighted the Kingdom's leadership in global tech and innovation and facilitated new strategic partnerships with key players in the advanced and frontier technology field to connect the present with the future of the 4IR economy.

These insights included calls for stakeholders across industry, academia, and government to prioritize collaborative regulatory development, human-centric ethical frameworks, and empower Small and Medium Enterprises (SMEs) for the practical and sustainable advancement of 4IR technologies. In addition, the launch of the PeerLink platform for SMEs at the Forum is the first step to connect experts and technology providers. PeerLink will aid in accelerating the digital transformation of SMEs, in line with Vision 2030, as it serves as a collaborative knowledge-sharing environment with Industry 4.0 use cases and success stories.

New publications launched during the Forum offer toolkits for policy development through real-world insights and case studies, highlighting C4IR Saudi Arabia's practical and collaborative leadership in inspiring innovation and change. These included **Deployment Pathways for Advanced Air Mobility, Lessons from Early Implementation in Saudi Arabia,** a white paper by C4IR Saudi Arabia and the World Economic Forum; **Building Communities for Impact: Lessons from the Centres for the Fourth Industrial Revolution India and Saudi Arabia**, a briefing paper by C4IR Saudi Arabia and C4IR India; and **How peer-to-peer learning can help SMEs embrace digital transformation**, an article published with the World Economic Forum.

The Forum catalyzed collaboration by providing a platform for eight new strategic partnerships to be signed between diverse public sectors, industry, and academic stakeholders. These partnerships, including a research, training, and academic program development agreement with Alfaisal University, aim to advance digital transformation, support SME growth, and expand knowledge exchange within the Kingdom, in line with C4IR Saudi Arabia's vision to enhance the development and applications of emerging technologies for the benefit of Saudi society.

Reaching a truly global audience, with 2,333 registered attendees, 5.7 million social media impressions, and a total media reach of over 83 million, the Forum builds on the success of previous events in 2023 and 2021. By driving international, multistakeholder efforts to develop, test, scale, and adopt 4IR technologies, the Forum underscores C4IR Saudi Arabia's essential contributions to the World Economic Forum's **Fourth Industrial Revolution Network.**

02 | 3rd Saudi Forum for 4IR 2025 in Numbers

Scale

2
Days

6
Stakeholder booths

26
Sessions

8
Agreements announced

Attendance

4
Excellencies

81
Speakers

2,333
Registered attendees from 48 countries

8
Sponsors

Impact

83.1M
News and social media reach

5.7M
Social media impressions

143K
Website visits

87
Traditional media mentions



03 Acknowledgments

C4IR Saudi Arabia extends its deepest gratitude to their Excellencies, distinguished speakers, participants, and to all attendees. Their contributions reflect a shared commitment to advancing human-centric innovation and global progress.

C4IR Saudi Arabia expresses its sincere appreciation to its valued partners and sponsors. These alliances have enabled C4IR Saudi Arabia to convene global expertise, foster collaboration, and complement global efforts to shape a responsible, inclusive, and sustainable 4IR ecosystem through the successful 3rd Saudi Forum for 4IR 2025.

Partners

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ألف alef

د. سليمان الحبيب DR SULAIMAN AL HABIB medical group المجموعة الطبية



04 | Program

Under the Forum's overarching theme, Frontiers of Global Technology, sessions were structured around six core thematic pillars.

Thematic Pillars

- **The Intelligent Economy**
- **The Future of Industry**
- **Beyond Digital**
- **Future Proofing Society**
- **Responsible Tech & Ethical Frontiers**
- **Strategic Resources for the 4IR Economy**

This thematic approach guided discussions across the Forum's diverse session types designed to best showcase the insights and expertise of their participants and, where appropriate, enabling greater interactivity with the audience.

Keynote speeches:

4 sessions

Saudi and global 4IR thought leaders offered insights into their areas of expertise to showcase use cases, lessons learnt, and best practices.

Panel sessions:

17 sessions

Brought together experts from across the 4IR ecosystem in both Saudi Arabia and around the world for group discussions that facilitated the sharing of ideas and different perspectives on common themes, generating fresh insights and consensus.

Fireside chats:

2 sessions

One-to-one conversations between a thought leader and a moderator enabled probing discussions, deepened by follow-up questions, into key 4IR issues, topics, and use cases.

Interactive sessions and workshops:

3 sessions

Audiences were invited to join expert speakers in exploring new 4IR technologies, tools, and ideas, offering their own insights while gaining knowledge of how advanced and frontier technologies are being applied.

05 Keynotes and Sessions

Keynote Speeches

Welcome and Opening Remarks

Main Theatre Day 1 10.00 - 10.10



> We acknowledge a very simple truth: technology is no longer simply a sector of the economy, but rather it is the operating system of modern economies themselves.

Dr. Basma AlBuhairan
Managing Director
Centre for the Fourth Industrial Revolution Saudi Arabia

Dr. Basma AlBuhairan, Managing Director of C4IR Saudi Arabia, framed the frontier of global technology as a landscape of converging technologies redefining economies, industries, and societies.

Dr. AlBuhairan emphasized that the 4IR is not marked by single breakthroughs but by the "profound" convergence of AI, quantum computing, biotechnology, and advanced manufacturing. She highlighted how automation and intelligent systems are reshaping production and human labor and highlighted the wide-ranging shift toward sustainability and decarbonization with extensive global investment. Dr. AlBuhairan emphasized that the world's industries, economies, and societies require both "long-term policy and strategic patience," highlighting the Forum as a platform for global collaboration and Saudi Arabia, supported by Vision 2030 and C4IR Saudi Arabia, as a shaper of 4IR technologies.

Dr. AlBuhairan invited all those participating to "imagine boldly, collaborate globally, and execute with purpose," to ensure that technological advancement becomes a force for inclusive and sustainable human progress.

Key facts and figures

- **162 robots per 10,000 workers** shows doubling of robot density in just seven years
- **$3 trillion+** global energy investment in 2024, with two-thirds directed toward clean energy



Keynote Address

Main Theatre Day 1 10.10 - 10.15



There are few better places in the world to explore the path toward unlocking opportunities of frontier technologies than in the Kingdom of Saudi Arabia.

Børge Brende
President and CEO
World Economic Forum

Børge Brende, President and CEO of the World Economic Forum, highlighted Saudi Arabia's global leadership in innovation and frontier technologies, bolstered by Vision 2030.

Brende noted that AI is projected to add $16 billion to the global economy and up to 12% of Saudi Arabia's national GDP by 2030. Commending C4IR Saudi Arabia for its achievements in SME digitalization, quantum technologies, and smart cities, he emphasized that as AI, quantum computing, and biotechnology advance, they also pose complex challenges. These require global collaboration, reskilling workforces, strengthening cybersecurity, and enhancing digital inclusion.

Brende concluded by urging boldness and responsibility in shaping the future, calling on participants to "create jobs and opportunity for all the young people of the Kingdom.

Key facts and figures

- **12% of national GDP** to come from AI sector in Saudi Arabia by 2030
- **$16bn** expected contribution of AI to the global economy by 2030



Keynote Address

Main Theatre Day 1 14.40 - 14.55



What once was a reactive, independent approach has been transformed into a protective, adaptive and data driven mode. Government entities now can act faster, deliver services with greater accuracy, and operate in a way that is not only efficient but more citizen centric.

H.E. Dr. Esam AlWagait
Director
Saudi National Information Center (NIC)

H.E. Dr. Esam AlWagait, Director of the Saudi National Information Center (NIC), gave insight into Saudi Arabia's approach to embedding data and AI into the heart of government, stating, "data is the new oil... and AI is the refinery."

H.E. Dr. AlWagait noted that Saudi government decision-making was once reactive and siloed, with departments separately managing their own data. This changed with the 2019 foundation of the Saudi Data and AI Authority (SDAIA), which oversaw the integration of more than 300 separate government data systems into a single NIC data bank to enable data-based decision making. This is supported by the Saudi National Data Index (NDI), the National AI Index, and Tawakalna, an overarching national "super-app" offering over 1,000 services from more than 250 government entities.

H.E. Dr. AlWegait emphasized that the mission of SDAIA and the Saudi government remains to use data "not only to make better decisions but to create better lives," and committed SDAIA to working "hand-in-hand for the betterment of all – shaping a smarter, safer, and more connected future for generations to come.

Key facts and figures

- **300** Saudi data and analysis systems integrated into the National Information Center
- **1,000** services available for citizens across 250 government entities through the Tawakalna app



Discussion Sessions

The Intelligent Economy

Theme overview

Explored how governments and industry can shape smarter, more resilient economic strategies in the age of Artificial Intelligence (AI), deep tech, and other emerging technologies.

Key takeaways

- Innovations such as AI and automation must be in service of supply chain resilience rather than cost efficiency.
- Effective technological convergence must balance collaboration with competition, innovation with regulation, and ambition with governance.
- Brain health, inclusivity, and lifelong learning must become central pillars of national economic strategies.
- Saudi Arabia can position itself as a leading global deep tech hub with an incentivized, talent-driven ecosystem that balances regulation with innovation.



Overcoming Supply Chain Challenges: AI, Automation & Localization Strategies

Main Theatre Day 1 16.00 - 16.45

The session explored how AI, automation, and localization are redefining supply chains, turning them from “operational backbones” into “strategic frontiers.” The experts emphasized that 4IR innovations are best utilized to augment human supply chain elements, rather than cutting costs.

The panel brought together Prof. Janet Godsell, Dean of Loughborough University; Dr. Fatmah Baothman, CEO of FI-Holding Saudi Arabia and Board Member of the Global Center for AI Excellence in London; and Salih AlSubai, Vice President of Technology Strategy and Architecture at stc. The session was moderated by Faisal Hamady, Managing Director and Partner at Boston Consulting Group.

Discussion

Hamady opened by noting that companies lose roughly 8% of annual revenue to supply chain disruptions, yet only 6% have end-to-end visibility. With a $20 billion AI and automation market growing at 45% CAGR, he framed technology as a “strategic imperative.”

AlSubai stressed the need to shift from reactive, linear supply chains to intelligent, adaptive networks. He highlighted Saudi Arabia’s strong positioning under Vision 2030, with several use cases already underway.

Prof. Godsell outlined the five core supply chain elements and described the next phase of transformation as proactive, end-to-end ecosystem optimization – using digitalization and visibility to enable resilience and circularity in a resource-constrained world.

Dr. Baothman showed how AI, through reasoning models, time-series forecasting, and agent-based systems, is improving accuracy, accelerating operations, and cutting costs, giving early adopters a clear competitive edge.

The panel concluded that AI and automation should ultimately strengthen supply chain resilience, not merely drive cost efficiency, which can increase vulnerability.



Converging Frontiers: How Advanced Sciences are Forging Future Economies

Main Theatre Day 1 17.00 - 18.00

The session underscored how interdisciplinary collaboration, flexible governance, and open innovation are key to translating advanced scientific discoveries into economic value and societal impact.

The panel comprised Jeremy Jurgens, Managing Director and Head of the Centre for Frontier Technologies and Innovation and Centre for Cybersecurity at the World Economic Forum; Dr. Talal AlSedairy, Senior Vice President for Research and Development at KACST; Prof. Tristan Farrow, Vice President, NEOM Education, Research, and Innovation Sector; and, Dr. Huda AlFardous, Chief Executive Officer of HealthGena. The session was moderated by Tammy Bui, Consultant at 17A.

Discussion

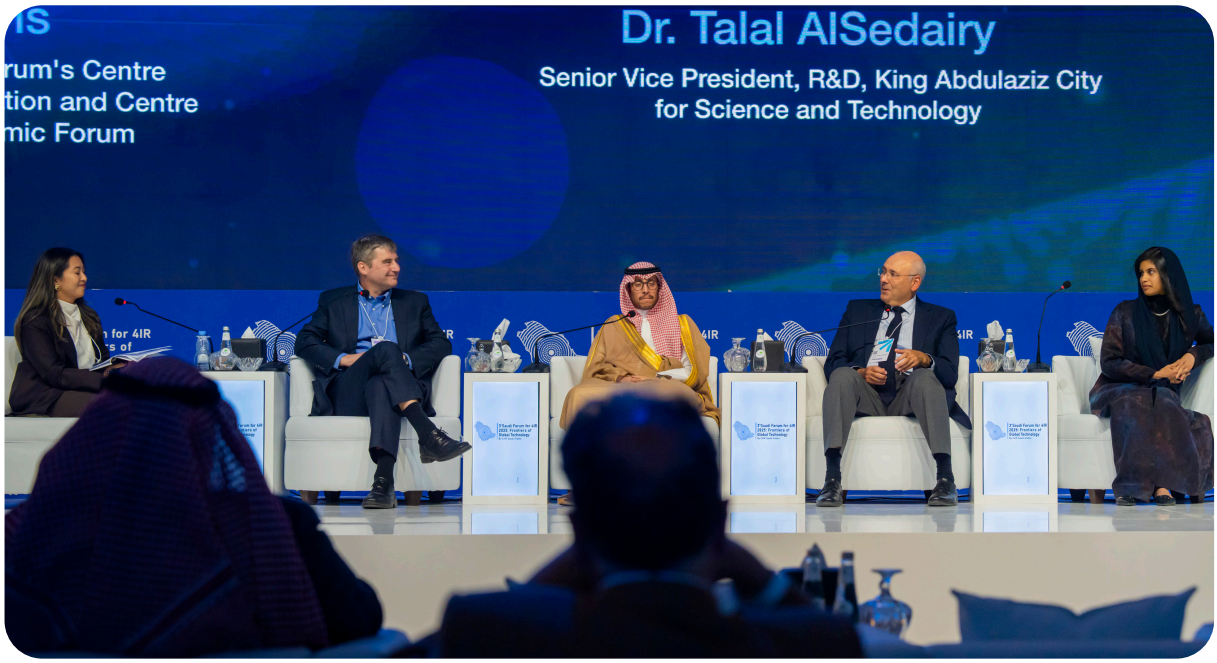
Dr. AlSedairy outlined how Saudi Arabia's R&D ecosystem enables cross-domain innovation under Vision 2030, citing examples such as AI-driven material design that cut development time from two years to two weeks and the Kingdom's first robotics-enabled heart transplant, evidence of convergence already delivering impact.

Jurgens noted that true breakthroughs emerge where technologies intersect, with AI advancing through improvements in semiconductors, sensors, and data. He highlighted Saudi Arabia's "fresh perspective" on integration as a strategic advantage in shaping new convergent industries.

Prof. Farrow emphasized that convergence is not new, but the speed of innovation in the 4IR era demands systemic support through open testbeds, interoperability standards, and early government procurement to accelerate commercialization.

Dr. AlFardous explained how convergence in fintech and data science is reshaping applied research and innovation funding. She stressed the role of regulatory sandboxes and shared data platforms in safely testing and scaling solutions, and noted that startup competition drives diverse, real-world innovations.

Speakers agreed that effective convergence requires balancing collaboration with competition, innovation with regulation, and ambition with governance, as nations reimagine their economies through interconnected systems and shared data.



The Brain Economy: Unlocking Human Potential in the Age of Cognitive Capital

Main Theatre Day 2 12.15 - 13.00

The session explored how human intelligence and well-being are becoming drivers of economic competitiveness. Speakers highlighted how investments in neuroscience, education, AI collaboration, and inclusive urban design can transform brain health into a foundation for productivity, creativity, and growth.

The panel comprised Prof. Sir Edward Byrne, President of KAUST; Dr. Mahmoud AlYamany, Sector Head for Health and Wellbeing at NEOM; and Hazleen Ahmad, Founder of Neuropower and Deputy CEO of the Institute of Neurodiversity (ION). The session was moderated by Maha Taibah, Founder and CEO of Rumman Corporate Wellness.

Discussion

Taibah positioned the “brain economy” as the next global competitive frontier, noting that brain-related diseases already account for 15% of the global disease burden and $5 trillion in annual costs – potentially tripling by 2030. She framed this as an opportunity to build brain resilience, brain reserve, and inclusive cognition.

Prof. Byrne highlighted how AI and data analytics are transforming the diagnosis, treatment, and prevention of neurodegenerative diseases. He pointed to advances such as virtual neurologists for early detection, AI-driven drug development, and data-based clinical tracking, while warning that low awareness – such as around treatable hearing loss as a dementia risk – limits adoption.

Ahmad cited research showing that cognitively diverse teams outperform homogeneous ones, with neurodivergent talent offering valuable pattern-recognition and nonlinear thinking skills. With 80-90% of neurodivergent adults under- or unemployed, she stressed the need for neuro-inclusive systems across education, workplaces, and cities. Drawing from her white paper, she called for restorative urban spaces, predictable design, and sensory balance to reduce cognitive overload for all residents.

Dr. AlYamany described NEOM’s holistic, “N=1” healthcare model, which integrates genomic, behavioral, environmental, and social data to predict and prevent disease at the individual level. He also proposed a “Brain Capital Index” to measure how many functional brains a society can activate through care, rehabilitation, and inclusion.

The panel concluded that brain health, inclusivity, and lifelong learning should be core pillars of future economic strategy.



Deep Tech and Digitalization: Catalysts for Global Competitiveness

NEOM Room Day 2 13.00 - 13.30

This session explored how deep technologies, ranging from AI to quantum computing, are redefining global competitiveness, alongside Saudi Arabia's position as a global deep tech hub.

The panel featured Dr. Ibrahim AlMojel, Founding Partner at Khwarizmi Holding, and Ali AlAsiri, Chairman and Founder of GeneEra AI. The session was moderated by Cassidy Lyon, Managing Director of Emerging Markets Intelligence and Research in Saudi Arabia.

Discussion

Lyon opened the session by framing the discussion around the role of deep technologies in redefining competitiveness, setting the context for an exchange on innovation ecosystems, regulation, and global collaboration.

The panelists covered deep tech innovation's need for a foundation of capital investment, talent development, and regulatory flexibility to drive competitiveness. This must be supported by incentive-based frameworks that reward experimentation, risk-taking, and innovation beyond immediate financial outcomes. The potential for Saudi Arabia to collaborate globally in areas such as water technology, AI, and quantum research, exporting deep tech solutions while solving national challenges was also highlighted.

Discussions explored the distinction between soft and hard regulations, drawing lessons from Singapore's hybrid blend of incentive-based guidelines with legal structures, and calling for government, academic, investor, and startup collaboration in creating a regulatory environment that fosters international collaboration and innovation. The panel also explored how strategic incentives, talent development, and supportive policies can nurture deep tech ecosystems, including how government procurement and institutional demand can enable deep tech commercialization.

Identifying Saudi Arabia's ability to position itself as a global deep tech hub, panelists called for the Kingdom to lead with an incentivized, talent-driven ecosystem that balances regulation with innovation.



The Future of Industry

Theme overview

Focused on how industries can modernize while staying competitive, including the importance of helping SMEs adopt new technologies, the role of digital sandboxes in de-risking innovation, and lessons from global leaders in smart manufacturing.

Key takeaways

- Governments must provide clear strategies and public-private collaboration frameworks; industry must open doors for pilot projects and mentorship; and SMEs must embrace community and continuous learning.
- The PeerLink platform launched at the Forum creates a collaborative environment for SMEs, enabling resource sharing and knowledge exchange to reduce costs, improve operational efficiency, and enable them to participate in the 4IR.
- Technology is the core enabler of Saudi Arabia's industrial acceleration, as the Kingdom focuses on driving future industries, rather than keeping pace with global developments.
- Effective industrial scaling requires digital transformation strategies that address clear operational challenges, test innovative ideas, and ensure sustainable adoption of new technologies.
- The next phase of industrial transformation will depend on visionary leadership, cross-sector collaboration, and the alignment of sustainability with long-term economic value.



PeerLink: Connecting SMEs for Impact

Main Theatre Day 1 11.05 - 12.05

The session explored how collaboration, peer learning, and digital connectivity can strengthen SMEs in the context of the 4IR by enhancing their ability to connect with government, corporates, regulators, and each other to share knowledge and co-create innovation.

The panel included Dr. Majid AlGwaiz, Deputy Minister at the Ministry of Energy; Ali AlKhashan, General Manager for the Eastern Sector at the Saudi Authority for Industrial Cities and Technology Zones (MODON); Dr. Rudiger Ahrend, Head of Division at the Organisation for Economic Co-operation and Development (OECD); Dr. Ammar AlNahwi, Director of Corporate Innovation at Aramco; and Memia Fendri, Lead for Resilient and Sustainable Value Chains at the World Economic Forum. The session was moderated by Cassidy Lyon, Managing Director for Saudi Arabia at Emerging Markets Intelligence & Research.

Discussion

Lyon opened the session by framing SMEs as the backbone of economies, stressing that their competitiveness depends as much on connectivity as on technology. Highlighting peer-to-peer ecosystems as vital tools for enabling SMEs to adopt new technologies, she invited the session participants to explore how structured connectivity can strengthen SME resilience and support Vision 2030 industrial goals.

Dr. AlGwaiz highlighted how the Ministry of Energy's "Taqateq" program is accelerating SME-led innovation in the Saudi energy sector by bringing in major companies to mentor startups and ensure solutions are built around market needs.

AlKhashan described how MODON connects SMEs with large manufacturers and further supports with shared insurance schemes, multi-story factories, and recognition programs that lower costs, increase collaboration, and strengthen networks.

Dr. Ahrend emphasized that SME networks are essential for innovation and resilience, yet many – especially women-led SMEs – remain isolated. He noted that global SME policies increasingly focus on supply chain integration and knowledge networks, and pointed to South Korea's Daejeon zone as a strong example of effective clustering.

Dr. AlNahwi underscored the role of large corporations in enabling SMEs through funding, visibility, and deployment opportunities. He highlighted Aramco's Lab7 and SAIL platforms as models of open innovation, and called for clusters of "entrepreneurial penguins" – startups that survive and scale by working collectively.

Fendri stressed that digital transformation is inseparable from SME growth, given SMEs represent 90% of global businesses and 70% of employment. Identifying skills, finance, sustained support, regional access, and public-private coordination as key barriers, she emphasized digital platforms as critical to supporting SME learning and innovation.

The panel agreed that governments must set clear strategies and collaboration frameworks, corporates must provide pilots and mentorship, and SMEs must engage in community networks and continuous learning.



Fireside Chat: Industrial Leadership in the Era of Convergence

Main Theatre Day 2 10.05 - 10.30

H.E. Bandar AlKhorayef, Minister of Industry and Mineral Resources in Saudi Arabia, was welcomed by moderator Dr. Basma AlBuhairan for a conversation exploring how Saudi Arabia is shaping the industries of the future amid converging technological, economic, and environmental forces.



> Saudi Arabia is willing to bet on the future rather than be comfortable with the legacy.

H.E. Bandar AlKhorayef
Minister
Ministry of Industry and Mineral Resources Saudi Arabia

Discussion

Dr. AlBuhairan highlighted the Kingdom's rapid industrial growth with non-oil exports up 30% in July to almost $9 billion and 122 new factories started production in May 2025 with investments exceeding $246 million.

H.E. Minister AlKhorayef described technology as industrial acceleration's core enabler and affirmed the Kingdom's industrial leadership's focus on driving future industries, rather than keeping pace with global developments. He emphasized that the Saudi Future Factories Program illustrates the Kingdom's scale, ambition, and commitment to embed frontier technologies into new investments, with 4,000 factories targeted for transformation and 3,900 already assessed. He underscored the role of regulation, infrastructure, and human capital, noting that generative AI has already reduced government analytical processes from "months to hours."

When asked about sustainability, the Minister framed Saudi Arabia's approach as opportunity-driven and partly in response to investor expectations to tap into competitive energy mixes. He further emphasized that sustainability – in terms of both water and energy usage - is at the core of many major Saudi projects. These include Ma'aden, which is working with international partners to develop water-efficient technologies, and NEOM with its world-leading green hydrogen plant. He concluded that Vision 2030 has redefined global perceptions, positioning Saudi Arabia as a nation investing in the future rather than being comfortable with the now.



From Oil Fields to Lighthouses: Aramco's Journey of Scaling Industrial Transformation

Paris Room Day 2 11.00 - 12.30

This discussion highlighted lessons learned in scaling industrial transformation from the World Economic Forum's Global Lighthouse Network, a group of manufacturers showing leadership in applying 4IR technologies at scale.

The panel comprised Rami AlOtaibi, Director, North Ghawar Producing Department, Aramco and Mohammad Jalaly, Manager of the Saudi Accelerated Innovation Lab (SAIL). Meshal AlMashari, Director of Corporate Venturing at Aramco Ventures, introduced the session before welcoming moderator Abdurahman Jubairy, Digital Transformation Lead, Aramco.

Discussion

Aramco and its digital affiliates, including Cyberani, outlined how business-driven digital adoption, integrated data systems, and AI-enabled solutions are improving efficiency, safety, and reliability across vast asset bases. Examples ranged from predictive flaring models to digital twins and GenAI-supported troubleshooting, supported by a clear 4IR strategy, robust KPIs, and deep collaboration with internal and external partners.

The role of SAIL (Saudi Accelerated Innovation Lab) was highlighted as a national platform enabling rapid prototyping, cross-industry collaboration, and ecosystem building. With more than 200 pilots launched, SAIL combines frontier-tech upskilling, a venture studio, and accelerator-style processes to support startups, industry players, and global partners – advancing Saudi Arabia's ambition to expand to 40 global lighthouses by 2030.

Aramco Digital and operational leaders underscored the importance of capability building, structured training, and strong stakeholder partnerships to scale industrial innovation sustainably. Cultural transformation – empowering frontline teams and cultivating digital confidence – was noted as critical to unlocking full 4IR value.

In closing, speakers pointed to the next wave of technologies shaping industrial futures: agentic AI embedded in operations, robotics for hazardous and logistics environments, adaptive digital-transformation strategies, and resilient approaches to sustaining 4IR progress.



Smart Factories and Digital Twins: AI-Driven Efficiency & Industrial Transformation

NEOM Room Day 2 12.00 - 12.45

The session explored how AI, digital twins, and automation are reshaping industrial production and driving operational efficiency across sectors.

The panel comprised Dr. Dominic Gorecky, Executive Board Member of Switzerland Innovation Park Biel/Bienne AG; Khalid Al Homoud, Executive Vice President of the Saudi National Industrial Development Center (NIDC); Manish Pant, Executive Vice President of International Operations at Schneider Electric; and Dana Kawas, CEO and Co-Founder of Thynkli. The session was moderated by Ayman AlJohani, CEO of IIoT Solutions.

Discussion

AlJohani opened the session by framing AI and digitalization as key drivers of the next phase of industrial transformation, setting the context for an exploration of how technology, data, and collaboration are reshaping industry today.

The discussion covered the convergence of AI, digitalization, and electrification in driving efficiency, sustainability, and optimized asset performance, alongside the critical role of data integration, trust, and collaboration in enabling scalable digital ecosystems.

The panel highlighted real-world applications of digital twins, such as Schneider Electric's use of the technology to improve design and operations in Saudi facilities. Panelists also noted that government initiatives, including incentives and localization programs, are accelerating smart manufacturing growth. They addressed some of the challenges facing SMEs in adopting advanced and frontier 4IR technologies, and stressed the importance of partnerships, capability centers, and workforce upskilling to overcome these challenges.

The experts concluded that the next phase of industrial transformation will depend on visionary leadership, cross-sector collaboration, and the alignment of sustainability with long-term economic value. They noted that Saudi Arabia is a frontrunner in the coming Fifth Industrial Revolution as it embeds smart factory concepts into its national industrial strategy.



From Vision to Venture: Unleashing Entrepreneurial Potential in Saudi Arabia

Paris Room, NIDLP private session Day 2 12.30 - 13.30

The session explored how Saudi Arabia is empowering entrepreneurs to scale ideas into viable ventures across the Kingdom's strategic growth sectors.

Speakers included Abdullah AlDeweesh, Portfolio Manager at NIDLP, and Meshael AlAssaf, Executive Director of Entrepreneurship and Human Capital Development at NIDLP.

Discussion

Speakers highlighted the key programs established by NIDLP to strengthen the entrepreneurial ecosystem within the sectors of mining, energy, logistics, and industry. This approach is central to Vision 2030's entrepreneurship and innovation goals, positioning Saudi Arabia as a regional leader in industrial innovation.

Abdullah AlDeweesh opened the session with an overview of the NIDLP's Daleel platform, a digital tool designed to consolidate market intelligence, licensing guidance, and operational insights for investors and founders establishing ventures in the Kingdom.

Meshael AlAssaf then introduced the audience to 1KMILE, an NIDLP initiative that enables entrepreneurs to collaborate with experts and participate in structured training programs, field visits, and pitching sessions aimed at securing investment and market entry.

The session concluded that by combining regulatory clarity, capacity building, and mentorship, NIDLP is creating an environment where Saudi entrepreneurs can transform national priorities into scalable, market-ready businesses.



Beyond Digital

Theme overview

Explored how breakthroughs in computing, biotechnology, and synthetic biology are opening new possibilities in everything from supply chains to sustainable healthcare, and materials innovation.

Key takeaways

- Collaborative governance, academic-industry partnerships, and skills development will be vital to positioning Saudi Arabia as a global biotechnology and bio-manufacturing hub.
- Governance, inclusivity, and collaboration are essential to ensuring that quantum technologies serve humanity equitably.
- Saudi Arabia's rapid progress in digital infrastructure, research ecosystems, and regulatory readiness gives it a global advantage in scaling both embodied and agentic AI.
- The greatest challenge in neurotechnology is moral stewardship with principles that uphold human dignity and agency.
- Saudi Arabia's investments in quantum education, computing infrastructure, and biotechnology R&D are paving the way for future readiness.



Convergence at Scale: Building Bio-Hubs of the Future

AlUla Room, private session Day 1 15.15 - 16.45

The session featured an interactive workshop, where participants discussed the barriers to innovation, the challenges of building self-sustaining bio-hubs, and the socioeconomic impact of biotechnology ecosystems.

Opening remarks were delivered by H.E. Dr. Munir ElDesouki, President of KACST and Board Chairman of C4IR Saudi Arabia. The session was co-chaired by Dr. Brynne Stanton, Thematic Lead for Bioeconomy at the World Economic Forum, and featured Professor Ahmed AlJedai, Vice Chairman and Managing Director at SPIMACO; Dr. Batoul Baz, Vice President of the Health Sector at KACST; and, Richard Traherne, Global Head of Next Frontiers and Engineering Biology at Capgemini.

Discussion

H.E. Dr. ElDesouki opened the session by framing biotechnology as a field of significant opportunity, while emphasizing that the central challenge lies in translating innovation into policy and regulatory systems that enable adoption and create pathways for startups.

The panelists highlighted how convergence between AI, robotics, and biotechnology is unlocking new discoveries, improving predictability, and accelerating bio-based solutions. Discussions covered the global rise of the bioeconomy and its potential to transform industries including healthcare, agriculture, and energy. In this regard, the role of public–private partnerships and collaborative governance were emphasized as vital to translating scientific discovery into scalable solutions, alongside the need to empower startups through simplified regulation and access to shared research and manufacturing infrastructure.

The session reinforced the importance of collaborative governance, academic–industry partnerships, and skills development in positioning Saudi Arabia as a leading global hub for biotechnology and bio-manufacturing.



The Quantum Advantage: Trust, Security, and Global Influence in the 4IR Era

Main Theatre Day 2 11.15 - 12.00

The session explored how quantum technologies will redefine global trust, security, and governance – profoundly shifting the foundations of digital power and innovation.

The panel comprised Arunima Sarkar, Head of Frontier Technologies at the World Economic Forum; Prof. Rosario Fazio, Head of the Condensed Matter and Statistical Physics Section at the Abdus Salam International Centre for Theoretical Physics; Kelly Richdale, Senior Advisor at SandboxAQ; and Dr. Muhamad Felemban, Assistant Professor and Director at King Fahd University of Petroleum & Minerals (KFUPM). The session was moderated by Mohammad AlSaiyari, Senior Consultant at Aramco and Chairman of the Saudi Quantum Computing Association (SQCA).

Discussion

AlSaiyari opened the session by framing quantum computing as a transformative frontier with significant implications for security, trust, and digital systems, emphasizing the need to focus not only on its potential but also on preparedness and governance.

Professor Fazio unpacked the "quantum advantage" of processing information exponentially faster than classical systems. He reflected that we are unlikely to imagine the future application with the most impact, underscoring the transformative nature of quantum.

Richdale highlighted SandboxAQ's $1 billion biotech partnership with Bahrain and collaboration with Aramco for new materials discovery as evidence of how quantum chemistry models are driving breakthroughs in drug development and carbon reduction. She also underscored the power of hybrid infrastructures combining quantum, GPU, and CPU processing with quantum sensors in healthcare and defense, enabling early cardiac diagnostics and magnetic navigation.

Turning to governance, Sarkar outlined the World Economic Forum's efforts to establish shared standards through the Quantum Economy Network and Quantum Computing Governance Principles. She emphasized that governance principles must be embedded in the design and development stages to ensure ethical, inclusive, and globally coordinated development.

Dr. Felemban highlighted Saudi Arabia's role as a regional contributor and creator in the quantum ecosystem. He cited the Kingdom's focus on education and collaboration, including national initiatives with universities and NGOs to advance quantum education, as key to achieving quantum readiness. He also emphasized the importance of investments in data centres and computer infrastructure.

Panelists agreed that governance, inclusivity, and collaboration are essential to ensuring that quantum technologies serve humanity equitably, while quantum readiness, hybrid adoption, and post-quantum security advance in parallel.



Agentic & Embodied AI: Redefining Interaction, Mobility, and Labor

Main Theatre Day 2 13.05 - 13.50

The session examined how the next wave of AI, capable of autonomous action and decision-making, is reshaping industries, redefining human-machine interaction, and creating new models of labor and mobility.

The panel comprised Meshal AlMashari, Director of Corporate Venturing at Aramco Ventures; Dr. Omaimah Bamasag, Deputy of Transportation Enablement at the Transport General Authority (TGA); and, Dr. Mazen Melibari, Founder and CEO of DEEP.SA. The session was moderated by Karan Soni, Associate Partner at McKinsey & Company.

Discussion

Soni framed agentic AI as a transformative step beyond generative AI with the ability to perceive, decide, and act independently. He noted Saudi Arabia can leverage this transition through its Vision 2030 logistics, manufacturing, and operations investments.

AlMashari stressed that mission-critical operations require AI that enhances efficiency without compromising safety. He further emphasized that Agentic AI, which is already being piloted in drilling automation and supply chain optimization, “must serve reliability, not replace human judgment.”

Dr. Bamasag showcased TGA’s use of agentic AI to enable autonomous mobility. She detailed how Saudi Arabia launched its first autonomous taxi service through a multi-phase roadmap in collaboration with WeRide, Uber, and AI Drivers. She emphasized that this process, “builds trust, value chains, and opportunities for global collaboration,” as policy and innovation converge to advance smart mobility.

Dr. Melibari highlighted how smaller, more accessible AI models are broadening access to advanced capabilities in Saudi Arabia and globally, suggesting that these smaller, more efficient systems will drive the next phase of AI innovation. Dr, Melibari also praised the rapid growth of local Saudi AI talent, driven by initiatives from KAUST, SDAIA, and DEEP.SA.

Panelists agreed that Saudi Arabia’s rapid progress in digital infrastructure, research ecosystems, and regulatory readiness gives it a global advantage in scaling embodied and agentic AI.



Fireside Chat:
Neurotechnology: From Mind to Machine

Red Sea Room Day 1 12.00 - 12.30

The discussion explored the rapidly evolving frontier of neurotechnology as brain–machine interfaces (BCIs) raise questions of ethics, privacy, and human identity.

Prof. Muhammad AlKawi, Director of the Research Ethics Monitoring Office at KACST, and Prof. Imed Gallouzi, Professor of Bioscience and Chair of the Center of Excellence for Smart Health at KAUST, took part in the discussion.

Discussion

Prof. Gallouzi highlighted how AI-powered robotics and biosensing are reshaping neurotherapy and improving quality of life, highlighting the benefits of predicting and mitigating behavioral crises in children with autism. Yet, both speakers and other participants in the audience cautioned that the same systems could have unforeseen psychological effects, reinforcing the need for rigorous human–machine interaction studies.

Panelists and audience contributors agreed that responsible innovation will depend on balancing progress with precaution – embedding ethics, transparency, and inclusivity into every stage of development. Neurotechnology's promise, Professor AlKawi emphasized, is not only in enhancing cognition and restoring function, but in doing so ethically and responsibly.

The speakers also covered the transformative potential of neural interfaces, robotics, and biosensing in restoring or enhancing cognitive and motor function. They discussed the growing importance of governance and international regulation, including emerging frameworks such as UNESCO's neurotechnology guidelines, amid considerations of the ethical and legal implications of interventions that affect emotion, autonomy, identity, and privacy.

There was consensus that the greatest challenge in neurotechnology is moral stewardship with principles that uphold dignity, agency, and trust guiding development.



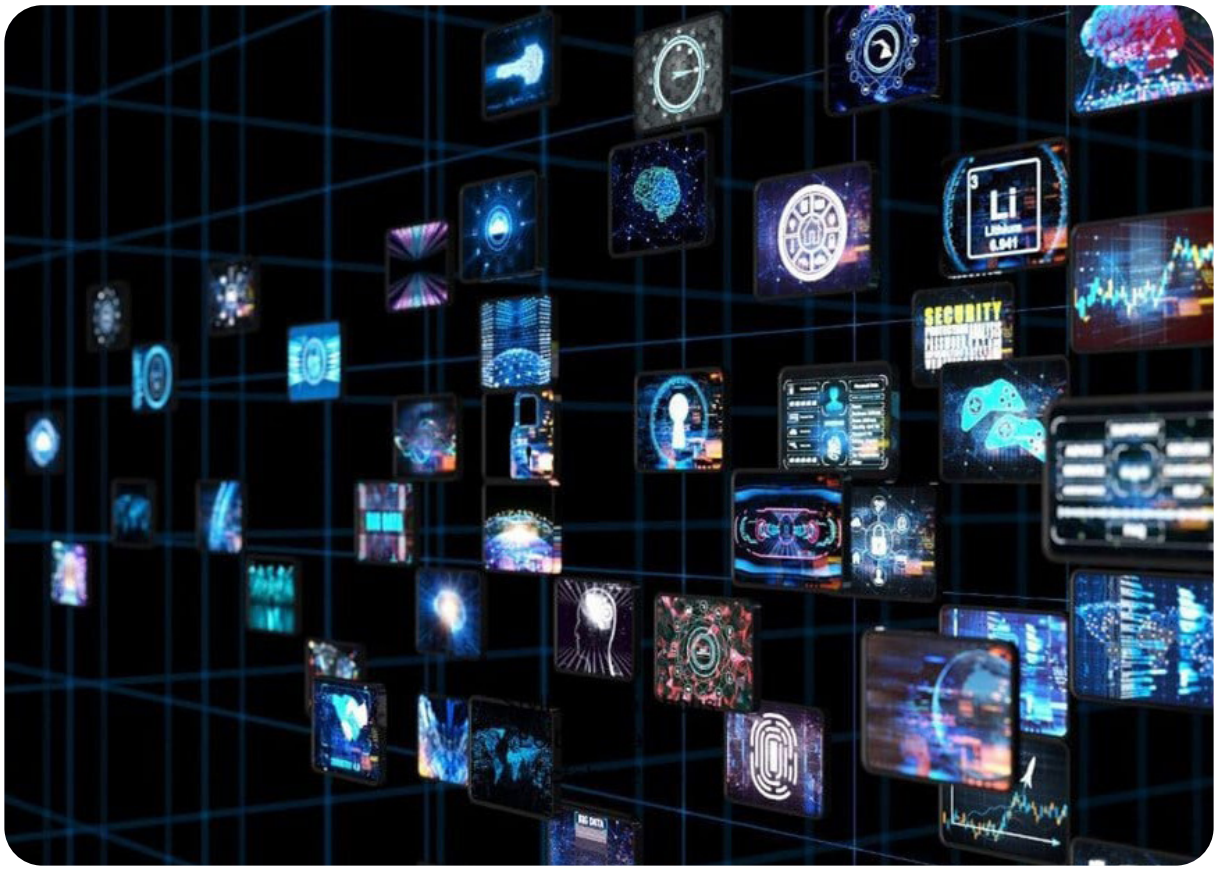
Future Proofing Society

Theme overview

Considered how to prepare people and businesses for a future shaped by intelligent technologies, focusing on the skills, education, and support systems needed to help workers and entrepreneurs adapt to rapid change.

Key takeaways

- Future-proofing education will require deeper partnerships between academia and the private sector to offer educators the technical tools to adopt and adapt to new technology, backed by national AI frameworks that empower both students and teachers.
- Gender equity must be hardwired into the development of advanced and frontier technologies through greater inclusivity in AI training and design.
- There is an urgent need for resilient infrastructure, ethical AI, and cross-border and cross-sector knowledge sharing on data governance to ensure the safe scaling of drone, satellite, and AI technologies.
- A generational shift in focus from disruption to responsibility and inclusion in innovation is emphasizing that true innovation emerges when technology solves tangible problems rather than chasing trends. This practical approach is shaping a new kind of AI product that measures success by social impact and trust.
- Saudi initiatives such as the Saudi Data and AI Authority's (SDAIA) AI education program, and NEOM's personalized healthcare model, exemplify leadership in inclusive innovation, empowering people to thrive in the Intelligent Age.



Future of Education

Main Theatre Day 1 12.15 - 13.00

The panel considered the key strategies, approaches, and priorities needed within the education sector to prepare young people for the 4IR, in particular the need to embed human values and skills.

The panel featured insights from with Prof. Andreas Cangellaris, Founding President of NEOM University; Prof. Amany AlShawi, CEO at Academy 32; and, Prof. Alina Matyukhina, Global Head of Cybersecurity at Siemens. The session was moderated by Dr. Reem Taibah, Project Lead at C4IR Saudi Arabia.

Discussion

Dr. Taibah cited World Economic Forum data projecting that 60% of employees will need to change work to adapt to accelerating technologies by 2030, yet schools are still preparing young people for jobs that may not exist within 5-10 years.

Prof. AlShawi argued that students must be equipped to use emerging technologies responsibly, especially AI, without becoming dependent. He emphasized building a resilient, agile education ecosystem, with institutions like Academy 32 helping bridge academia and industry.

Prof. Cangellaris argued that universities must ensure, “knowledge is converted into deep understanding and wisdom.” He called for coordinated academic-government-industry partnerships: universities nurturing critical thinking and curiosity, governments identifying priority skills, and employers providing job-specific training.

Highlighting a 3.2 million global cybersecurity skills gap, Prof. Matyukhina described Siemens’ work with universities to recruit talent from diverse disciplines. She urged families to foster curiosity, schools to teach learning skills, universities to offer practical exposure through industry, and governments to support lifelong learning.

For immediate action, panelists called for stronger academia-industry collaboration, better tools for educators to integrate new technologies, and a national AI framework that empowers both teachers and learners.



Inclusive by Design: Advancing Gender Equity in the Tech Economy

NEOM Room Day 1 16.30 - 17.15

The discussion explored strategies for advancing gender equity in the tech economy through inclusive design and public-private collaboration to use policy to address issues.

The panel comprised Prof. David Keyes, Professor and Founding Dean, King Abdullah University for Science and Technology; Othman AlMoamar, Co-Founder, EDAD; Zainab AlAmin, Vice-President for National Digital Transformation, Microsoft; and Alaa Abdulaal, Chief of Digital Economy Intelligence, Digital Cooperation Organization (DCO). The session was moderated by Purushottam Kaushik, Head of C4IR India.

Discussion

Kaushik opened the session by framing gender inclusivity as a structural driver of innovation and resilience in frontier technology development, emphasizing that diverse teams consistently deliver stronger outcomes and that organizations must redesign processes to embed equity and unlock productivity.

Prof. David Keyes emphasized expanding opportunities across the entire talent pipeline through clear institutional policies, visible role models, and early programs that counter misconceptions about women in computing. He also cautioned that AI systems risk reproducing bias when built on narrow demographic data.

Othman AlMoamar highlighted how Saudi Arabia's economic transformation is opening new opportunities for young women – especially in cities – while rural gaps persist. He underscored the need for access, co-design, and hands-on learning for all youth, and warned of online echo chambers that reinforce harmful stereotypes.

Alaa Abdulaal stressed that gender equity is central to global digital growth. She outlined the DCO's work to assess digital maturity and inclusion across member states and noted that excluding women from the digital economy represents a major loss in innovation and GDP. She called for inclusive data, policies, and AI systems designed to serve all communities.

Zainab AlAmin pointed to progress in Saudi Arabia and within Microsoft, noting that leadership representation, pay equity, and accountability metrics drive meaningful change. She highlighted upskilling efforts – including Microsoft's partnership with SDAIA – to help women advance into technical and leadership roles.

Across the discussion, panelists agreed that advancing gender equity demands systemic action: bias-free management practices, support for family life, bridging urban-rural divides, and embedding inclusivity into policy, data, and organizational culture. Equity, they concluded, cannot be a checkbox, it must be a core design principle of the digital economy.



The Sky Stack: Where Drones, Satellites, and AI Intersect

Red Sea Room Day 2 11.00 - 11.45

This session examined how the convergence of drones, satellites, and AI is transforming the sky into a new layer of global infrastructure, with trust, ethics, and collaboration as vital to shaping the future of the skies as engineering.

The panel comprised Raed AlFayez, Deputy Governor of the Technology Sector, Communications, Space and Technology Commission; Dr. Mariam Nouh, Vice-President for Economies of the Future Sector, KACST; and, Kimberly Washington, Co-Founder, Deep Space Biology. The session was moderated by Dr. Waleed Gowharji, General Manager for Projects & Initiatives at C4IR Saudi Arabia.

Discussion

Dr. Gowharji opened the discussion by highlighting the distinct yet complementary roles of the core components of "sky stack": drones as agile movers, satellites as the backbone of connectivity and observation, and artificial intelligence as the cognitive layer that makes the system self-aware and adaptive. Together, the sky stack is not just a technological construct but also a strategic frontier that will define global competitiveness in the decades ahead.

However, sky stack's complexities mean its success depends on unified regulation, cross-border cooperation, and an inclusive innovation pipeline that builds both human and technical capacity. Saudi Arabia's integrated approach to space, communications, and technology was highlighted as an example of coordinated governance accelerating progress responsibly.

Discussions also covered the emergence of an integrated aerial, orbital, and digital ecosystem connecting the movement of goods, people, and information, alongside the economic and societal benefits of leveraging space data for healthcare, urban planning, and climate resilience.

Panelists agreed on the urgent need for resilient infrastructure, ethical AI, and shared data governance developed through cross-border and cross-sector collaboration to ensure the safe scaling of these technologies.



Builders of the Now: Youth Voices Shaping the Age of AI

Red Sea Room Day 2 12.00 - 12.45

This session examined how young founders are building technologies deeply grounded in local realities, cultural understanding, and ethical responsibility.

The panel comprised Lolwah Binsaedan, Founder and CEO of Juthor; Tammy Bui, Consultant, 17a; and Dr. Faris AlSalamah, Founder of ResearchX. The session was moderated by Naif AlDhaban, AI Product Manager at Lite, and Curator at the Global Shapers Riyadh Hub.

Discussion

AlDhaban opened the discussion by emphasizing the importance of accelerating the translation of AI innovation and research into real-world solutions.

The discussion examined how youth innovators are using AI to tackle community-based challenges in health, education, and commerce. The role of cultural contexts in shaping innovation was also a key topic of discussion, highlighting the importance of AI localization and sensitivity to community values, language, and behavioral nuances to ensure adoption and impact.

Panelists emphasized the importance of enabling experimentation through mentorship, micro-funding, and government support in alignment with regulations, as youth-led ventures still face structural barriers. The panel highlighted Saudi Arabia's emerging innovation ecosystem, driven by Vision 2030 initiatives, as a model catalyst for youth entrepreneurship that enables experimentation within a culture of trust.

Noting a generational shift in focus away from disruption, towards responsibility and inclusion in innovation, panelists concluded that true innovation emerges when technology solves tangible problems rather than chasing trends. This practical approach is shaping a new kind of AI product that measures success by social impact and trust.



Responsible Tech & Ethical Frontiers

Theme overview

Discussions examined how we can manage the risks and protect human values. It raised critical questions about trust, transparency, consent, and accountability.

Key takeaways

- Integrated, cross-sector, convergence-fostering governance models are needed to ensure that rapid technological convergence translates into equitable societal progress.
- Clear ethical guidelines, continuous feedback, consent, and accountability are vital to navigating the ethical challenges of 4IR technologies.
- Saudi Arabia's Research, Development and Innovation Authority (RDIA) and the Digital Cooperation Organization (DCO) exemplify best practice in developing frameworks for autonomy, transparency, and trust.



From Silos to Systems: Governing Convergence Across Borders, Sectors, and Societies

Main Theatre Day 1 10.15 - 10.45

The panel explored how countries can move toward integrated, cross-sector, convergence-fostering governance models by connecting national innovation ecosystems to ensure that rapid technological convergence – from AI and quantum to biotechnology – translates into equitable societal progress.

The panel comprised H.E. Prof. Mohammed AlHayaza, President of Alfaisal University, and H.E. Dr. Munir Eldesouki, President of KACST and Board Chairman of C4IR Saudi Arabia. The session was moderated by Jeremy Jurgens, Managing Director and Head of the World Economic Forum's Centre for Frontier Technologies and Innovation and Centre for Cybersecurity.

Discussion

Framing convergence as a defining challenge, with technology now advancing through the interplay of disciplines and institutions, Jurgens called for collaboration between research, governance, and innovation to unlock 4IR technology benefits.

H.E. Prof. AlHayaza stressed that higher education must adapt to fast-changing market needs and prepare graduates for a converging economy. He highlighted Alfaisal University's integration of AI and cybersecurity into its curricula and its partnerships with leading industry and research institutions.

H.E. Dr. Munir Eldesouki outlined Saudi Arabia's innovation ecosystem reforms that link research, policy, and industry through coherent governance and shared data. He noted milestones such as the establishment of the Research, Development, and Innovation Committee and RDIA, as well as open access to publicly funded research infrastructure at KACST. Initiatives like The Garage further connect scientists, startups, and investors to accelerate deep-tech growth.

The panel also addressed trust in technology, with H.E. Prof. AlHayaza underscoring the role of modernized curricula, international accreditation, and global partnerships in maintaining public confidence. On international cooperation, H.E. Dr. Eldesouki highlighted the DCO as a model for managing technological fragmentation while preserving speed and openness.

Participants cautioned against overreliance on automation and emphasized the enduring importance of lifelong learning, adaptability, and creativity.



Navigating the Ethical Dilemmas of Frontier Technologies

NEOM Room Day 1 15.30 - 16.15

This panel addressed the ethical dilemmas posed by 4IR technologies, underscoring the importance of human dignity, responsibility, autonomy, and parallel design in creating ethical governance frameworks for emerging technologies.

The panel featured Prof. Sir Gabriele Pao-Pei Andreoli, President of the Institute for Advanced Studies and Cooperation; Dr. Akram Awad, Managing Director and Partner at Boston Consulting Group; Prof. Selwa AlHazzaa, CEO and Founder of SDM Tech; and Prof. Hoda AlKhzaimi, Associate Vice Provost for Research Translation and Entrepreneurship at NYU Abu Dhabi. The session was moderated by Hani AlHemsi, Director of Technology Development at MCIT.

Discussion

AlHemsi opened the session by framing frontier technologies as human-made systems that both serve and reshape human needs, values, and rights. Situating today's challenges within a longer arc of technological change – from language to the industrial and information revolutions – he highlighted emerging ethical questions around generative AI, large language models, and biotechnology, and emphasized the need to address consent, accountability, and global divergence to safeguard against new forms of harm.

Prof. Sir Andreoli emphasized that regulation alone cannot define ethical boundaries; shared community values and continual feedback must guide responsible innovation. He noted that meaningful progress depends on collective responsibility and a sense of interconnectedness.

Prof. AlHazzaa argued that decades of medical ethics – autonomy, dignity, responsibility, and the "do no harm" principle – offer a strong foundation for governing AI and emerging technologies. She stressed the need to keep human agency at the center by advancing innovation and ethical safeguards in parallel.

Prof. AlKhzaimi highlighted governance gaps and the need to prioritize resilience, privacy, and transparency in algorithmic design. She called for more inclusive, decentralized technology development to prevent the overconcentration of power and to protect human agency.

Describing the current moment as an inflection point, Dr. Awad emphasized that innovation and ethics must advance together. He advocated for governance-by-design, agile regulation, and aligned incentives to ensure technology enhances rather than erodes societal well-being.

The panel concluded that frontier technologies must remain human-centered, with innovation guided by intention, accountability, and a shared global commitment to safeguarding human agency.



Strategic Resources for the 4IR Economy

Theme overview

Explored how to secure critical resources for AI and semiconductors, promote circular economy models, and strengthen global cooperation for cleaner, more resilient supply chains.

Key takeaways

- Global and local partnerships, backed by systemic industrial policies and investment in human capital, are key to securing critical mineral supply chains by 2030.
- Saudi Arabia's progress in renewable energy, circular manufacturing, and sustainable resource strategies demonstrates industrial foresight and long-term economic resilience.



Strategic Minerals and Semiconductors Innovations

Main Theatre Day 1 15.00 - 15.30

This panel considered the potential role of Saudi Arabia, with its significant critical minerals reserves and strategic global location, as a leader in developing resilient, diversified, and future-ready semiconductor supply chains.

The panel comprised Dr. Saeed AlShihri, Vice President for the Energy and Industry Sector at KACST, and Dr. Fernando J. Gómez, Head of the Future of Materials Program at the World Economic Forum. The session was moderated by Nadia AlAmoudi, Executive Director for Strategy and Operational Excellence at the Saudi National Center for Environmental Compliance.

Discussion

AlAmoudi set the global context for rising critical minerals demand with semiconductors at the heart of many 4IR technologies and geopolitical shifts, trade restrictions, and sourcing bottlenecks rendering supply chains vulnerable.

Dr. AlShihri noted that the critical minerals market is expected to be valued at $125 billion by 2050, driven by the expanding value of the global semiconductor market, which is currently valued at $630 billion and expected to reach $1 trillion by 2030, with 25% of this growth driven by AI. He emphasized that Saudi Arabia is maximizing its estimated $2.5 trillion critical mineral reserves by advancing investment across the supply chain, integrating AI and digital twins and ensuring vertical integration and talent development. Dr. AlShihri further identified three breakthroughs that could elevate refining capacity: AI-analyzed geological data, combined extraction and refining at the same location, and the discovery of new or alternative materials to critical minerals through quantum technologies.

Dr. Gómez emphasized the importance of building resilient supply chains from the earliest design stages. He noted that Saudi Arabia has an opportunity to leverage its hydrocarbon supply chain experience to develop complimentary critical mineral capabilities, as well as its geographic location and global credibility to form partnerships and drive investment. Looking internationally, Dr. Gómez highlighted the importance of a “glocal” (global and local) business approach that respects both national economic priorities and global collaborations. He noted international interest in a “Global Minerals Trust,” similar to the International Energy Association (IEA), to ensure that supply chain issues do not strangle economies.

Both experts agreed that global and local partnerships, backed by industrial policies that ensure links between all supply chain elements and prioritize investment in human capital, will be key to securing critical mineral supply chains by 2030.



Interactive Sessions

Inside the Future: A Metaverse Journey through Advanced Manufacturing

Metaverse Room Day 1 11.00 - 12.00; 14.45 - 18.00
Day 2 11.00 - 14.00

Dr. Ibrahim AlShunaifi, Expert Researcher at KACST and IoT Project Lead at C4IR Saudi Arabia, invited participants to explore the Advanced Manufacturing Technologies Center (AMTC) at KACST through an immersive metaverse experience.

Participants entered a virtual recreation of the AMTC to experience the center's facilities and operations in real time. The metaverse journey guided participants through additive and subtractive manufacturing units, smart logistics systems, simulation and quality control labs, and collaborative innovation spaces.

The experience demonstrated how these technologies interconnect to enable more efficient, intelligent, and sustainable manufacturing processes. By blending immersive visualization with interactive exploration, the session allowed participants to understand how advanced technologies can accelerate design, prototyping, and production while fostering collaboration across disciplines and geographies.



Interactive Sessions

PolicyLens: Using AI to Anticipate Policy Impact

Red Sea Room Day 1 15.00 - 16.00

Dr. Sami Mahroum, Director at Oliver Wyman and Founder at SparkX, led an interactive session exploring the PolicyLens AI tool, which aims to transform how governments design, test, and refine public policy by stress-testing policy proposals, anticipating risks, and validating assumptions prior to implementation.

The conversation highlighted that many policy failures stem from flawed assumptions about implementation, administrative capacity, or human behavior, and that misjudging public sentiment or behavioral dynamics can turn sound intentions into political and economic crises. PolicyLens aims to pre-empt such risks by creating “safe sandboxes” where proposed interventions can be tested virtually.

PolicyLens is able to map complex policy systems, identify key stakeholders, and assess likely reactions through behavioral economics models. It can also provide risk-mitigation strategies and deliver comparative analysis in 60 seconds, dramatically accelerating policy evaluation cycles.

Dr. Mahroum and members of the audience discussed concerns around data privacy, model bias, and the challenge of adoption within government institutions. Dr. Mahroum emphasized that PolicyLens is designed for expert use and can be operated on localized datasets.

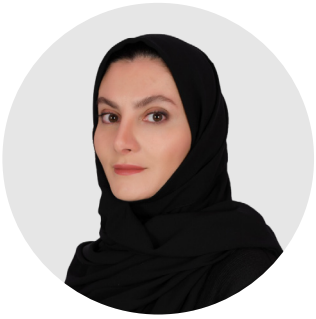
Dr. Mahroum cautioned that, due to the Anglo-centricity of current data, next steps will focus on ongoing efforts in the Middle East aimed at building more locally relevant AI models that reflect regional contexts and governance priorities.



Keynote

Closing Remarks

Main Theatre Day 2 13.55 - 14.00



If there is one message that unites our voices here and is heard across these halls, it is that intelligence – whether human, artificial, or hybrid – must always serve humanity. And so, the real measure of this Forum's success will be in the actions taken, the partnerships formed, the frameworks defined, and the mindsets inspired.

Dr. Raneem AlSelaimi
Deputy Managing Director
C4IR Saudi Arabia

Discussion

Dr. Raneem AlSelaimi, Deputy Managing Director at C4IR Saudi Arabia, reflected on the insights gained over the course of the event and emphasized that the focus of human-technology collaboration must be on trust and responsibility with quality leadership, "not measured by speed alone but by how thoughtfully and responsibly we move forward."

Based on discussions during the event, Dr. AlSelaimi suggested three "anchors" as key to ensuring that technological convergence is guided by trust, inclusion, and foresight.

She first identified, "governance in the age of intelligence," noting that responsible innovation builds trust and creates a lasting impact. The second anchor, "human capability and education," emphasized that education must teach empathy, adaptability, and curiosity, as well as hard skills. Finally, Dr. AlSelaimi named "collaboration across frontiers," calling for academia, government and industry to co-create solutions. She noted that the partnerships launched at the Forum offer a glimpse into the potential of diverse sectors coming together with shared goals.

Looking ahead, Dr. AlSelaimi called on all stakeholders to adopt the human-first principles that guided and united many of the Forum's discussions and to "move forward with the belief that the next frontier of progress will not be driven by machines alone but by human wisdom guiding us to responsible development."



06 World Economic Forum Quantum Community Meeting 2025

On the sidelines of the 3rd Saudi Forum for 4IR 2025, C4IR Saudi Arabia hosted the World Economic Forum Quantum Community Meeting 2025 for the first time in Riyadh.

The meeting convened over 50 global experts and thought leaders in quantum technologies, AI interaction, governance, security, scaling, and industry applications to advance dialogue on this vital and transformative 4IR field.

Following opening remarks by the World Economic Forum's Arunima Sarkar and Jeremy Jurgens, members of the community took part in a series of discussions on key quantum topics, opportunities, challenges, and applications.

In hosting the meeting, C4IR Saudi Arabia reinforced its position as a trusted and impactful international convenor and collaborator. The Quantum Community meeting reflected the Centre's commitment to working with partners from around the world to advance the sustainable, responsible, and equitable development of advanced and frontier technologies, while reinforcing Saudi Arabia's leadership in the sector.



07 Announcements and Publications

Announcements

Launch of PeerLink Platform

Overview

H.E. Bandar Alkhorayef, Minister of Industry and Mineral Resources; H.E. Dr. Munir Eldesouki, President of KACST and Board Chairman of C4IR Saudi Arabia; and Jeremy Jurgens, Managing Director & Head of the Centre for Frontier Technologies and Innovation and Centre for Cybersecurity at the World Economic Forum, launched the PeerLink platform.

Alignment with C4IR Saudi Arabia goals

The launch of the PeerLink platform at the Forum is the first step in connecting SMEs, experts, and technology providers. As a collaborative environment, knowledge-sharing and Industry 4.0 use cases and success stories are at the heart of the platform. PeerLink will accelerate SMEs' digital transformation and directly support C4IR Saudi Arabia's mission to foster inclusive industrial transformation in line with Vision 2030 objectives.

Impacts and next steps

- The platform will enhance the ability of SMEs to integrate advanced technologies and remain competitive in international markets.
- SMEs will gain access to digital tools and best practices in industrial transformation, accelerating the adoption of advanced technologies among smaller firms.

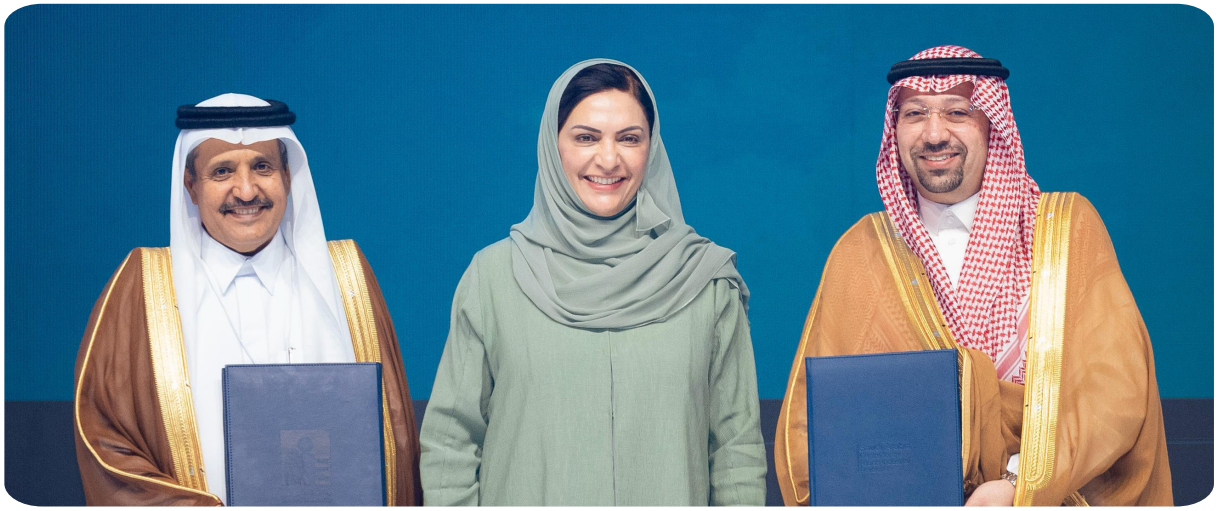


Agreements

MoU between C4IR Saudi Arabia & Alfaisal University

Overview

The Memorandum of Understanding announced between C4IR Saudi Arabia and Alfaisal University is a framework for collaboration in building national capabilities, empowering youth, supporting SMEs, and contributing to global discourse in innovation and emerging technologies.



Agreements

MoU between KACST and GlycanAge

Overview

KACST and GlycanAge announced a Memorandum of Understanding aimed at transferring and localizing advanced healthcare technologies in clinical applications for the prediction and early detection of diseases.



MoC between KACST, NIDLP, and IIoT Solutions

Overview

The Memorandum of Cooperation establishes collaboration between KACST, NIDLP, and IIoT Solutions to promote digital transformation and IIoT applications at the Industry 4.0 Capability Center. The agreement facilitates technology demonstrations, testing, and specialized training programs.



Agreements

MoC between KACST, NIDLP, and Middle East Cloud and Digital Transformation Company Ltd. (CNTXT)

Overview

KACST, NIDLP, and CNTXT announced a Memorandum of Cooperation to advance the deployment of cloud-based and AI-driven solutions at the Industry 4.0 Capability Center. The agreement enables the showcase of Google Cloud technologies, integration of smart manufacturing applications, and delivery of consultancy and training programs.



MoC Between KACST, NIDLP, and Giza Arabia Systems

Overview

KACST, NIDLP, and Giza Arabia Systems announced a Memorandum of Cooperation to advance industrial automation and smart manufacturing at the Industry 4.0 Capability Center. The partnership focuses on deploying and demonstrating advanced industrial robotics, IoT integration, and AI-enabled digital vision systems. It also enables equipment validation, live demonstrations, and specialized training to strengthen local expertise in robotics, IoT, and industrial vision technologies.



Agreements

MoU between Business Accuracy and NmoHub

Overview

Business Accuracy and NmoHub announced a Memorandum of Understanding to establish a framework for collaboration supporting startup growth and innovation. The agreement defines areas of cooperation including mentorship, workspace access, training, funding facilitation, and networking opportunities designed to accelerate entrepreneurial success.



MoU between Innovative Metal Industry Company and Future Dimensions Company

Overview

The Memorandum of Understanding establishes collaboration between Innovative Metal Industry and Future Dimensions Company to advance metal powder development, additive manufacturing applications, and metallurgical research. The agreement covers joint R&D, testing, and data sharing under confidentiality frameworks.



MoU between Ishraq Tic Company and NAFFCO

Overview

Ishraq Tic and NAFFCO announced a Memorandum of Understanding establishing a framework for collaboration in manufacturing, technology transfer, and capacity building. The agreement defines shared commitments to enhance local production, promote knowledge exchange, and localize advanced technologies.



Publications

White Paper: Deployment Pathways for Advanced Air Mobility – Lessons from Early Implementation in Saudi Arabia

Co-Branded Publication with World Economic Forum and C4IR Saudi Arabia

Overview

The white paper explores the transition from AAM pilots to scalable implementation in Saudi Arabia, positioning the Kingdom as an emerging global reference point for sustainable and connected air mobility. It identifies that barriers to AAM adoption are primarily non-technical, centering on coordination, data-sharing, and alignment of incentives rather than technology itself.

The paper proposes a neutral, community-led collaboration model that enables data exchange, shared learning, and alignment of commercial and national priorities. Drawing on precedents from other industries, such as offshore wind and agritech, the framework aims to embed transparency and collaboration into the sector's foundation – ensuring early pilots evolve into a coherent operational system.

By capturing lessons from early-stage initiatives and codifying them into scalable pathways, the report supports Vision 2030's ambition to position Saudi Arabia as a global hub for innovative and sustainable mobility.

Read and download the white paper

Key stats and findings

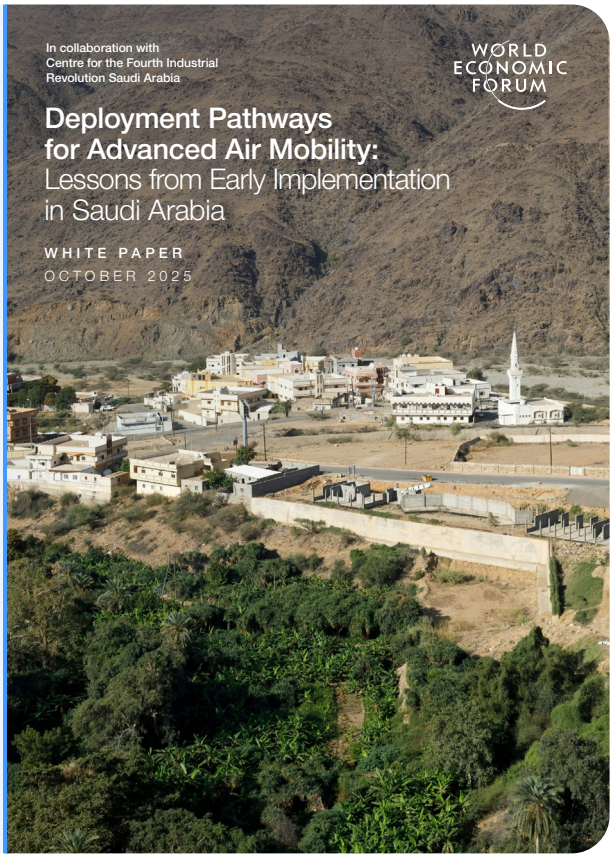
$77.03 billion – expected global AAM market value by 2033, up from $9.9 billion in 2024 (CAGR 23.6%)

$38 billion in potential value by 2040 across Saudi Arabia's infrastructure, manufacturing, and operations sectors

The **General Authority of Civil Aviation (GACA)** has established a **national AAM roadmap,** defining enablers through regulation, technology, and cross-sector collaboration

Primary barriers: Non-technical issues – including fragmented pilot projects and limited data exchange – rather than lack of innovation

Proposed model: A **community-led, neutral governance framework** to align stakeholders, facilitate anonymized data sharing, and embed continuous learning into the AAM ecosystem



Publications

Briefing Paper: Building Communities for Impact: Lessons from the Centres for the Fourth Industrial Revolution India and Saudi Arabia

Co-Branded Publication between C4IR Saudi Arabia and C4IR India

Overview

C4IR Saudi Arabia and C4IR India launched a briefing paper identifying how collaborating across stakeholders to harness frontier technologies can drive sustainable and inclusive growth. The paper presents C4IR India's Artificial Intelligence for Agriculture Innovation (AI4AI) initiative and C4IR Saudi Arabia's Peer-to-Peer Sandbox for SMEs as proven models for enabling scalable, responsible innovation.

The paper demonstrates how aligning stakeholders around a shared vision ensures motivation, coordination and focus before proposing five methods for impact: iterative engagements and dialogue; insight reports and frameworks; peer communities; global initiatives and coalitions; and local and sectoral projects. The paper recommends the "hourglass" implementation model of "think big, start small, scale fast." In a concluding call to action, the paper urges communities to lead with a unifying shared challenge; design for impact by adopting a disciplined execution framework; and, scale what works, globally and locally.

The briefing paper underscores C4IR Saudi Arabia's role and impact within the WEF Fourth Industrial Revolution Network, positioning the Kingdom as a leader in piloting and adopting advanced and frontier 4IR technologies responsibly.

Read and download the Briefing Paper

Key stats and findings

$16.4 trillion – expected global 4IR technology market size by 2033, up from $2.5 trillion in 2023

$4.8 trillion – projected value of the AI market by 2033

50,000 farmers who participated in the AI4AI project achieved 21% better yield; 9% drop in the use of pesticides; and 11% better unit price

200 SMEs took part in the Peer-to-Peer Sandbox, disseminating 200 use cases and solutions within six months



Publications

Article: How peer-to-peer learning can help SMEs embrace digital transformation

World Economic Forum Article by Dr. Ibrahim AlShunaifi

Overview

Dr. Ibrahim AlShunaifi, Project Lead at C4IR Saudi Arabia, published an article on how peer-to-peer learning platforms can enable SMEs to adopt 4IR technologies and compete globally, become more resilient, and grow sustainably. Dr. AlShunaifi showcased C4IR Saudi Arabia's PeerLink platform as a model and issued an invite for SMEs, policymakers, technology providers and academia to join the platform.

The article cautions that rapid 4IR advances in global manufacturing could leave SMEs behind – even though they are critical to achieving meaningful industrial transformation. Dr. AlShunaifi identifies fragmented networks and industry peers' isolation, limited access to 4IR technologies and infrastructure, and a lack of practical expertise as the key challenges to SME adoption of 4IR technologies. He highlights peer-to-peer collaborative platforms as vital tools to enabling SMEs to adopt 4IR technologies, with C4IR Saudi Arabia's PeerLink serving as a globally replicable and scalable model.

Dr. AlShunaifi's article was published as part of the World Economic Forum's Centre for Advanced Manufacturing and Supply Chains, demonstrating C4IR Saudi Arabia's collaborative global footprint, through thought leadership showcasing the Kingdom's responsible adoption of 4IR technologies as tools for sustainable economic growth and diversification.

Read the article online

Key stats and findings

90% of all businesses worldwide are SMEs

70% of global employment and **up to 50%** of global GDP is contributed by SMEs

$1 trillion in annual productivity lost through unplanned downtime – according to ARC Strategies – a gap that peer-to-peer collaboration and data-driven practices can significantly narrow, translating shared learning into measurable economic value



How peer-to-peer learning can help SMEs embrace digital transformation

Oct 28, 2025

08 Key Takeaways

The 3rd Saudi Forum for 4IR 2025 offered a series of clear recommendations for industry leaders, policymakers, innovators, and community members. These recommendations directly addressed the four core objectives of the Forum to highlight the future of the intelligent economy; explore policies and strategies to scale digital transformation; promote technological sovereignty; and develop smart industrial policies in key sectors: AI, semiconductors, and quantum.

There was consensus that a successful, globally competitive 4IR industrial transformation depends on visionary leadership, cross-sector collaboration, and the alignment of sustainability goals and economic value. Leadership must balance collaboration with competition, innovation with regulation, and ambition with governance to develop digital transformation strategies based on clear operational challenges.

To guide the development of resilient, technology-driven economies, ensuring that innovation serves practical applications, rather than chasing trends or focusing simply on cost-effectiveness, is key. This can be guided by global and local partnerships and backed by systemic industrial policies and investment in human capital, with success measured by social impact. There was also cross-panel consensus that brain health, inclusivity, and lifelong learning must become central pillars of national economic strategies in the 4IR.

There was broad agreement on key steps to navigating the 4IR's ethical challenges:

- Clear ethical guidelines
- Integrated, cross-sector, convergence-fostering governance models
- Greater inclusivity in AI training and design to overcome bias and ensure gender equity
- An openness to continuous feedback, consent, and accountability

In addition, education that nurtures human skills, such as problem solving, communication, and curiosity, was emphasized as vital to enabling the efficient use of technology – as was the need to realize this through deeper partnerships between academia, industry, and government.

There were also specific takeaways for Saudi Arabia regarding its potential as a leading global deep tech hub based on its digital infrastructure, research ecosystems, and regulatory readiness. These include the continued development of an incentivized, talent-driven ecosystem that balances regulation with innovation, backed by collaborative governance, academic-industry partnerships, and skills development.

Looking to the future, C4IR Saudi Arabia looks forward to building on the success of the Forum by deepening its collaboration with existing partners, and expanding its network with all those who share the Forum's goals, to "move forward with the belief that the next frontier of progress will not be driven by machines alone but by human wisdom guiding us to responsible development."

09 Around the Forum

Stakeholder Booths

The 3rd Saudi Forum for 4IR 2025 welcomed attendees to booths in the exhibition space to highlight industry leading approaches to the 4IR.

These booths showcased the Forum and C4IR Saudi Arabia's roles as convenors of 4IR stakeholders to enhance the understanding, development, and application of advanced and frontier technologies to serve people and contribute to a thriving future.

KACST
مدينة الملك عبدالعزيز للعلوم والتقنية



aramco



National Industrial Development and Logistics Program



أمانة منطقة الرياض
RIYADH REGION MUNICIPALITY



alasilacx



QUANTINUUM



Tours

On the second day of the event, C4IR Saudi Arabia offered attendees a choice of two curated offsite tours celebrating Saudi Arabia's commitment to both innovation and heritage.

Tour 1 - KACST Labs

Attendees discovered KACST's research and innovation facilities, including interactive spaces where institutes and next-generation labs demonstrated research and technology in practice. Visitors were introduced to KACST's Genome Core Lab for advanced genetic research, its Clean Room Lab for the design and manufacture of industrial applications, Future Mobility Institute where smart transport solutions are being developed for cities of tomorrow, Industry 4.0 Centre of advanced manufacturing machines, and Garage startup workspace, and had the opportunity to join activities to celebrate "Internet Day" (29 October, celebrating the sending of the first message over ARPANET in 1969).





Tour 2 - Diriyah

Attendees experienced the Saudi Arabia's heritage amid the Diriyah UNESCO World Heritage Site of beautifully restored architecture, traditional craftsmanship, and natural landscapes. Visitors had the chance to wander the vibrant AlBujairi District, where cafés and restaurants offer dining experiences infused with the charm of traditional Najdi heritage, and the At-Turaif Fortress and Diriyah Museum, which served as the seat of the First Saudi State (1727–1818) and showcases traditional mud-brick Najdi architecture.

10 Media Impact

The 3rd Saudi Forum for 4IR 2025 generated impactful media reach. Reporting focused on Saudi Arabia's progress in implementing 4IR technologies, in particular the AI-led transformation of industrial sectors, and the event's global convening power.

Key Figures

83.1M
News and social media reach

87
Media mentions

- **24** English mentions
- **63** Arabic mentions

100%
Positive or neutral sentiment

The event received 87 media mentions - 24 in English and 63 in Arabic – from both local and international outlets with a combined news and social media reach of 83.1 million. This coverage was generally positive and will serve to amplify the Kingdom's positioning as a regional hub for innovation.

The announcement by H.E. Bandar Alkhorayef, Minister of Industry and Mineral Resources, of the transformation of 4,000 factories into AI-powered smart facilities was the defining story of coverage. The tangible scale of this initiative encouraged reporting and showcased the Kingdom's tangible progress in future-proofing its industries.

Media Interviews

Asharq Business with Dr. Basma AlBuhairan

Dr. AlBuhairan focused on the **launch of PeerLink,** highlighting how C4IR Saudi Arabia convenes government entities, major industry leaders, SMEs, startups, academic institutions, and research organizations, to jointly design and test future-focused approaches.

This interview with a leading regional business outlet reinforced the Centre's mission to advance Saudi Arabia's role as an influential global contributor in shaping the future of advanced and frontier technologies by enabling their responsible adoption.



Saudi Press Agency (SPA) with Dr. Raneem AlSelaimi

In a **video interview** with SPA, Dr. AlSelaimi provided an overview of the Forum as a local and international platform convening ministers, CEOs, academics, and innovators to discuss key 4IR issues. She noted that the Forum featured 26 sessions, including the first World Economic Forum Quantum Community Meeting to be held in the Kingdom. She emphasized that C4IR Saudi Arabia serves the Kingdom first and foremost, carefully choosing all its projects to ensure they positively impact the Kingdom.



SPA with Dr. Ibrahim AlShunaifi and Dr. Reem Taibah

Dr. AlShunaifi, IoT Lead, and Dr. Taibah, Project Lead at C4IR Saudi Arabia highlighted the **Centre's role in supporting SMEs** and elevating education respectively.

Dr. AlShunaifi underscored C4IR Saudi Arabia's role as a national platform collaborating with industry stakeholders to advance the adoption of 4IR technologies, including initiatives that support SMEs in accelerating digital transformation. Dr. Taibah then explained how learning is integrating AI and advanced skills, shaping approaches for both students and teachers as education systems evolve to prepare new generations for the future, supported by C4IR Saudi Arabia's Digital Media in Education project, a partnership with the Ministry of Education.

Al Ekhbariya with Fadhel Al-Buainain

Al-Buainain, a renowned Saudi economic expert, **highlighted the significance** of the Forum to Saudi Arabia's future industrial development in line with Vision 2030. Al-Buainain highlighted three dimensions of the Forum's importance: first, its role as a national convening platform for innovators, companies, and thought leaders shaping; its contribution to strengthening Riyadh's position as a regional and global center for conferences and Forums; and, how its media and strategic visibility reinforces the Kingdom's emergence as a global investment hub and key center for advancing and leading 4IR technologies.

Media Coverage Samples

الإخبارية



ArabianBusiness

Saudi Arabia to upgrade 4,000 factories into AI-powered smart facilities

Saudi Arabia will transform 4,000 factories into smart, AI-powered facilities as part of Vision 2030, driving innovation and industry



Leaders

Saudi Arabia to Transform 4,000 Factories into AI-Powered Smart Facilities



GulfInsider

Saudi Arabia | Tech & Telecoms

Saudi Arabia To Upgrade 4,000 Factories Into AI-Powered Smart Facilities

Saudi Arabia will transform 4,000 factories into smart, AI-powered facilities as part of Vision 2030, driving innovation and industry

1 month ago | 3 minute read



Middle East Economy

Home > Sector > Industry

Saudi Arabia leads future industries with 4,000 smart factories, says industry minister

Kingdom's industrial leadership is now focused on driving future industries, rather than merely keeping pace with global developments



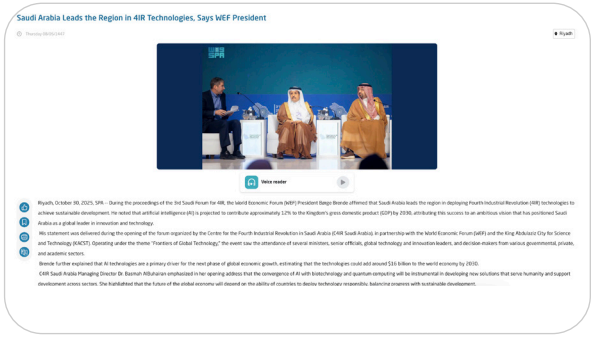
الشرق الأوسط
Asharq Al-Awsat

Riyadh to Host 3rd Saudi Forum for 4IR 2025 with Global Participation to Shape the Future of Technology



Media Coverage Samples

وكالة الأنباء السعودية SAUDI PRESS AGENCY



QUANTUM INSIDER powered by RESONANCE



الإخبارية



BusinessToday.ME



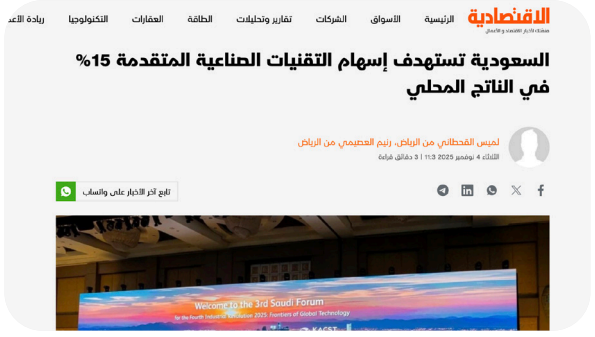
مكة Makkah Al Mukarramah • المكرمة



وكالة الأنباء السعودية SAUDI PRESS AGENCY



الاقتصادية



11 Digital Media Impact

Key Figures

5.7M
Total impressions

143K
Website visits

100%
Positive or neutral sentiment

Dynamic engagement with the event across digital platforms drove conversations on the future of industry, AI, advanced manufacturing, and global technology collaboration. Through proactive content, real-time coverage, and amplification from key partners, C4IR Saudi Arabia, further amplified its role as a leading voice advancing 4IR in the Kingdom and across the region.

LinkedIn and X saw high click-through rates, reflecting strong audience engagement and active interest in the Forum's discussions and outcomes. Sentiment was favorable or neutral, reinforcing C4IR Saudi Arabia's credibility as a trusted convenor and emphasizing support for Saudi Arabia's embrace of advanced and frontier technologies. These outcomes supported audience growth across both platforms, demonstrating the increasing recognition of C4IR Saudi Arabia's thought leadership and expanding global community.

Meanwhile, robust live stream and video performance underscored global interest, with audiences actively tuning in to follow the Forum's sessions and key discussions in real time.

Campaign Summary

The 3rd Saudi Forum for 4IR 2025 marked a significant moment in C4IR Saudi Arabia's digital presence, driving meaningful engagement and visibility across a wide range of media channels. The campaign successfully expanded public dialogue on the Kingdom's industrial transformation and leadership in emerging technologies, particularly AI, smart manufacturing, and innovation-driven policy.

The high livestream viewership and strong video performance expanded the event's reach and deepened audience engagement, while the strong amplification by partners - including KACST, MIM, NIDLP, Indian Embassy in Riyadh, Alfaisal University - reinforced C4IR Saudi Arabia's role as a global convener in the advanced and frontier technology space.

C4IR Saudi Arabia Channels



3rd Saudi Forum for 4IR 2025: Frontiers of Global Technology

C4IR KSA · 179 subscribers · Subscribe · 15 · Share · Download · Clip



3rd Saudi Forum for 4IR 2025: Frontiers of Global Technology | Day 2

C4IR KSA · 179 subscribers · Subscribe · 4 · Share · Download · Clip

Top Performing Posts


C4IR Saudi Arabia
10,331 followers
1mo ·

Here's what Dr. Basma AlBuhairan, Managing Director C4IR Saudi Arabia, shared during the Welcome and Opening Remarks at the Fourth Industrial Revolution Forum.

إليكم ما قالته الدكتورة بسمة البحيران، المدير التنفيذي لمركز الثورة الصناعية الرابعة بالسعودية، خلال كلمة الترحيب والافتتاح في منتدى الثورة الصناعية الرابعة

#3rdSaudiForum4IR
#منتدى_الصناعة_الرابعة

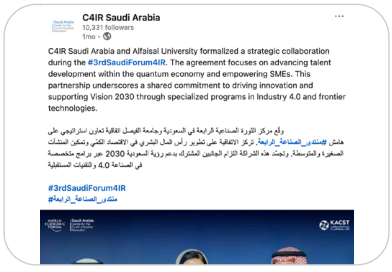
Show translation


C4IR Saudi Arabia
10,331 followers
1mo ·

Today marks the start of the second day of the Third Saudi Forum on the Fourth Industrial Revolution 2025, with the participation of H.E. Bandar Al-Khorayef, Minister of Industry and Mineral Resources, and H.E. Dr. Munir ElDesouki, Chairman of the Board of the Fourth Industrial Revolution Centre in the Kingdom of Saudi Arabia.

تنطلق اليوم أعمال اليوم الثاني من المنتدى السعودي الثالث للثورة الصناعية الرابعة 2025، بمشاركة معالي وزير الصناعة والثروة المعدنية الأستاذ بندر الخريف، ومعالي رئيس مجلس إدارة مركز الثورة الصناعية الرابعة في المملكة الدكتور منير الدسوقي

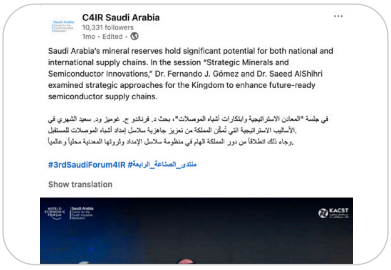
#3rdSaudiForum4IR
#منتدى_الصناعة_الرابعة


C4IR Saudi Arabia
10,331 followers
1mo ·

C4IR Saudi Arabia and Alfaisal University formalized a strategic collaboration during the #3rdSaudiForum4IR. The agreement focuses on advancing talent development within the quantum economy and empowering SMEs. This partnership underscores a shared commitment to driving innovation and supporting Vision 2030 through specialized programs in Industry 4.0 and frontier technologies.

وقع مركز الثورة الصناعية الرابعة في السعودية وجامعة الفيصل اتفاقية تعاون استراتيجي على هامش #منتدى_الصناعة_الرابعة. يركز الاتفاق على تطوير رأس المال البشري في الاقتصاد الكمي وتمكين المنشآت الصغيرة والمتوسطة. وتجسد هذه الشراكة التزام الجانبين المشترك بدعم رؤية السعودية 2030 عبر برامج متخصصة في الصناعة 4.0 والتقنيات المستقبلية

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C4IR Saudi Arabia
10,331 followers
1mo · Edited ·

Saudi Arabia's mineral reserves hold significant potential for both national and international supply chains. In the session "Strategic Minerals and Semiconductor Innovations," Dr. Fernando J. Gómez and Dr. Saeed AlShihri examined strategic approaches for the Kingdom to enhance future-ready semiconductor supply chains.

في جلسة "المعادن الاستراتيجية وابتكارات أشباه الموصلات"، بحث د. فرناندو ج. غوميز و د. سعيد الشهري في الأساليب الاستراتيجية التي تُمكّن المملكة من تعزيز جاهزية سلاسل إمداد أشباه الموصلات للمستقبل. وجاء ذلك انطلاقًا من دور المملكة الهام في منظومة سلاسل الإمداد والرؤى العالمية محليًا وعالميًا

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C4IR Saudi Arabia
10,331 followers
1mo · Edited ·

Quantum technologies are impacting digital trust and disrupting global cryptography. In the session "The Quantum Advantage: Trust, Security, and Global Influence in the 4IR Era", Prof. Rosario Fazio, Dr. Muhammad Felemban, Arunima Sarkar, and Kelly Richdale discussed the implications for global governance and cyber resilience, highlighting how Saudi Arabia is positioning itself as a key player in the quantum technology landscape.

في جلسة "مزايا الموسمية الكمية: الثقة، الأمان، وتحقيق الأثر في عصر الثورة الصناعية الرابعة"، ناقشت كارا هذه التقنيات على الحوكمة العالمية والأمن في الفضاء الثقي. شارك في الجلسة كل من أ.د. روزاريو فازيو، د. محمد فلمبان، أ. أروناما سركار، و أ. كيلي ريتشديل، حيث استعرضوا كيف تعزز المملكة موقعها كرائد في مشهد التقنيات الكمية

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Saudi Arabia is building future-ready industries by connecting its resources with advanced technologies. In the session "Industrial Leadership in the Era of Convergence", H.E. Bandar AlKhorayef Minister of Industry and Mineral Resources discussed Saudi Arabia's approach to industrialization, digitization, and sustainability, with a focus on policies that attract investment, develop skills, and partnerships.

في جلسة حوارية بعنوان "القيادة الصناعية في عصر تكامل التقنيات"، استعرض معالي وزير الصناعة والثروة المعدنية، الأستاذ بندر الخريف، استراتيجيات المملكة في مجالات التصنيع والرقمنة والاستدامة، وشرح معالم كيف تُوظف المملكة مواردها الوطنية مع أحدث التقنيات، مسلطاً الضوء على التشريعات الهادفة إلى جذب الاستثمارات، وتنمية الكفاءات، وتعزيز الشراكات.

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Top Performing Posts


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Transforming learning models to prepare for future jobs and skills, leaders from government, academia, and industry discussed technology's role as a genuine transformer of education. The session "Future of Education" featured Prof. Andreas Cangellaris, Prof. Amany AlShawi, and Prof. Alina Matyukhina.

في جلسة نقاشية حول تطوير نماذج التعليم لمواكبة وظائف ومهارات المستقبل، تباحث قادة من القطاعات الحكومية والأكاديمية والصناعية أثر التقنية ودورها في الارتقاء بالتعليم، حيث شارك في جلسة "مستقبل التعليم" كل من أ.د أندرياس كانجيلاريس، وأ.د أماني الشواي، وأ.د ألينا ماتيوخينا

#3rdSaudiForum4IR
#منتدى_الصناعة_الرابعة


C4IR Saudi Arabia
@C4IR_KSA

Here's what His Excellency Prof. Mohammad Al-Hayazaa shared during the session "From Silos to Systems: Governing Convergence Across Borders, Sectors, and Societies" at the Fourth Industrial Revolution Forum.

إليكم ما قاله معالي الأستاذ الدكتور محمد الهيازع في جلسة "من العزلة إلى التكامل: حوكمة التقنيات المتقاربة" خلال منتدى الثورة الصناعية الرابعة

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C4IR Saudi Arabia
@C4IR_KSA

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C4IR Saudi Arabia and C4IR India have collaborated to launch a new briefing paper, "Building Communities for Impact: Lessons from the Centres for the Fourth Industrial Revolution India and Saudi Arabia." The paper demonstrates how multistakeholder collaboration can harness frontier technologies, including AI, to drive sustainable and inclusive growth. Discover practical models and inspiring case studies read the full briefing paper for actionable insights.

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C4IR Saudi Arabia
@C4IR_KSA

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C4IR Saudi Arabia and Alfaisal University formalized a strategic collaboration during the #3rdSaudiForum4IR. The agreement focuses on advancing talent development within the quantum economy and empowering SMEs. This partnership underscores a shared commitment to driving innovation and supporting Vision 2030 through specialized programs in Industry 4.0 and frontier technologies.

وقع مركز الثورة الصناعية الرابعة في السعودية وجامعة الفيصل اتفاقية تعاون استراتيجي على هامش #منتدى_الصناعة_الرابعة. يركز الاتفاق على تطوير رأس المال البشري في الاقتصاد الكمي وتمكين المنشآت الصغيرة والمتوسطة. وتجسد هذه الشراكة التزام الجانبين المشترك بدعم رؤية السعودية 2030 عبر برامج متخصصة في الصناعة 4.0 والتقنيات المستقبلية

#3rdSaudiForum4IR
#منتدى_الصناعة_الرابعة


C4IR Saudi Arabia
@C4IR_KSA

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In the session "From Silos to Systems: Governing Convergence Across Borders", Sectors, and Societies, H.E. Prof. Mohammed AlHayaza and H.E. Dr. Munir ElDesouki discussed how nations are rethinking governance of frontier technologies to deliver sustainable and equitable impact.

في جلسة "من العزلة إلى التكامل: حوكمة التقنيات المتقاربة"، ناقش معالي أ.د. محمد آل هيازع، رئيس جامعة الفيصل، ومعالي د.منير الدسوقي، رئيس هيئة الملك عبد العزيز للعلوم والتقنية، آليات حوكمة التقنيات المتقاربة بما يحقق نتائج مستدامة وعادلة.

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#منتدى_الصناعة_الرابعة


C4IR Saudi Arabia
@C4IR_KSA

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Dr. Basma AlBuhairan, Managing Director of C4IR Saudi Arabia, opened the Forum, highlighting that technology has become the operating system of modern economies, where the convergence of technologies drives competitiveness, resilience, and inclusion in an increasingly knowledge-based, innovation-led world.

افتتحت د. بسمة البحيران، المدير التنفيذي لمركز الثورة الصناعية الرابعة في السعودية أعمال المنتدى، مؤكدة أن التقنية هي عصب الاقتصادات الحديثة، وشددت على أن تكامل التقنيات يمثل محركاً للتنافسية والمرونة والشمول في عالم يقوم على المعرفة ويقوده الابتكار.

#3rdSaudiForum4IR
#منتدى_الصناعة_الرابعة

Social Echo


مدينة الملك عبدالعزيز للعلوم والتقنية
@KACST
"Access to national laboratories has unlocked the doors of innovation." H.E. the President of #KACST emphasized at the #3rdSaudiForum4IR that Saudi Vision 2030 has shifted innovation toward a more interconnected approach, aligning research, governance, and national ambitions.
KACST
H.E. the President of KACST
during his participation in the 3rd Saudi Forum for 4IR 2025
Providing access to national laboratories has opened the doors of innovation.


مدينة الملك عبدالعزيز للعلوم والتقنية
@KACST
Show translation
وسط حضور لافت وتفاعل واسع من المهتمين بمستقبل الصناعة والتقنية في المملكة، استعرضت #كاكست أبرز تقنياتها وابتكاراتها في التقنيات العميقة، الذكاء الاصطناعي والروبوتات، ضمن المعرض المصاحب للمنتدى السعودي الثالث للثورة الصناعية الرابعة.
#منتدى_الصناعة_الرابعة
2:19 PM · Oct 30, 2025 · 3,181 Views


مدينة الملك عبدالعزيز للعلوم والتقنية
@KACST
Show translation
بحضور معالي وزير الصناعة والثروة المعدنية ومعالي رئيس #كاكست، انطلقت أعمال اليوم الثاني من المنتدى السعودي الثالث للثورة الصناعية، بمشاركة كبار المسؤولين وقادة التقنية والابتكار العالميين، وصنّاع القرار من مختلف القطاعات الحكومية والخاصة والأكاديمية.
#منتدى_الصناعة_الرابعة
1:57 PM · Oct 30, 2025 · 3,739 Views


برنامج تطوير الصناعة الوطنية والخدمات اللوجستية
@NIDLP2030
On the sidelines of its participation in the 3rd Saudi Forum for the 4IR, #NIDLP, in collaboration with #KACST, signed Memorandums of Understanding with leading technology companies as part of the 4IR Capabilities Center, aiming to enrich its activities, enhance research and development efforts, and empower digital transformation across industrial sectors.
Strategic Partnerships
Driving Digital Transformation and Enabling Technological Innovation
For the Fourth Industrial Capability Center
Memorandum of Understanding with iIOT Solutions Company


India in Saudi Arabia
@IndianEmbRiyadh
Ambassador Dr Suhel Khan and Counsellor Ms Manusmriti attended the opening ceremony of the 3rd Saudi Forum for the Fourth Industrial Revolution (4IR), organized by the Centre for the Fourth Industrial Revolution Saudi Arabia @C4IR_KSA, in association with the World Economic Forum @wef and King Abdulaziz City for Science and Technology @KACST.
@MEAIndia
@IndianDiplomacy
Welcome to 3rd Saudi Forum for 4IR 2025
Frontiers of Global Technology
12:14 PM · Oct 29, 2025 · 655 Views


وزارة الصناعة والثروة المعدنية
@mimgov
Minister of #Industry and Mineral Resources, HE. Bandar Alkhorayef, participated in a session titled "Industrial Leadership in the Era of Convergence," as part of the 3rd Saudi Forum for 4IR 2025. He highlighted the development of the digital infrastructure in the Kingdom, and its ambitious steps to build smart industrial cities that adopt the latest technologies.
10:08 PM · Oct 30, 2025 · 2,631 Views


Saudi Business Council
@SASPIBC
On the sidelines of the 3rd Saudi Forum for the 4IR, @NIDLP_2030 - in collaboration with @KACST, signed Memorandums of Understanding with several leading technology companies to support the 4IR Capabilities Center. These partnerships will broaden the Center's activities, strengthen R&D, and accelerate digital transformation across industrial sectors.
Proud to see Saudi institutions and industry aligning to build the capabilities our economy needs for the future.
#SaudiArabia #Technology #Industry #SaudiBusinessCouncil #SaudiVision
Strategic Partnerships
Driving Digital Transformation and Enabling Technological Innovation
For the Fourth Industrial Capability Center


Alfaisal University
@Alfaisaluniv
Show translation
#الصندوق_السعودي_للثورة_الصناعية_الرابعة
#شركاء_مع_الأفضل
Last edited 2:13 PM · Oct 30, 2025 · 878 Views


Alfaisal University
46,044 followers
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Alfaisal_University signed a Memorandum of Understanding with the Centre# for the Fourth Industrial Revolution Kingdom of Saudi Arabia during the #3rdSaudiForum4IR to strengthen collaboration in scientific research, training, and academic program development, supporting innovation and digital transformation in alignment with the strategic objectives of Saudi Vision 2030
Partnering_with_the_Best#
توقيع مذكرة تفاهم بين جامعة الفيصل و مركز الثورة الصناعية الرابعة في السعودية

12 | Annex

29 Oct | 30 Oct

10:00–10:10
Main Theatre

Welcome and Opening Remarks

Speaker



Dr. Basma AlBuhairan
Managing Director, Centre for the Fourth Industrial Revolution Saudi Arabia

10:10–10:15
Main Theatre

Keynote Speech (Pre-Recorded Video)

Speaker



Børge Brende
President and CEO, World Economic Forum

10:15–10:45
Main Theatre

Responsible Tech & Ethical Frontiers

From Silos to Systems: Governing Convergence Across Borders, Sectors, and Societies

Moderator



Jeremy Jurgens
Managing Director & Head of the Forum's Centre for Frontier Technologies and Innovation and Centre for Cybersecurity, World Economic Forum

Speakers



H.E. Prof. Mohammed AlHayaza
President, Alfaisal University



H.E. Dr. Munir Eldesouki
President, King Abdulaziz City for Science and Technology, and Board Chairman, Centre for the Fourth Industrial Revolution Saudi Arabia

10:45 - 10:55

Announcement: MoU between C4IR Saudi Arabia and Alfaisal University

Announcement: MoU between KACST and GlycanAge

29 Oct | 30 Oct

10:45 - 10:55

Announcement: MoC between KACST, NIDLP, and IIoT Solutions

Announcement: MoC between KACST, NIDLP, and Middle East Cloud and Digital Transformation Company Ltd.

Announcement: MoC between KACST, NIDLP, and Giza Arabia Systems

11:05 – 12:05

Main Theatre

The Future of Industry

PeerLink: Connecting SMEs for Impact



Cassidy Lyon

Managing Director (Saudi Arabia), Emerging Markets Intelligence & Research

Speakers



Dr. Majid AlGwaiz

Deputy Minister of Development and Project Management, Ministry of Energy, Saudi Arabia



Ali AlKhashan

General Manager of Eastern Sector, Saudi Authority for Industrial Cities and Technology Zones (MODON)



Dr. Rudiger Ahrend

Head of Division, Organization for Economic Co-operation and Development (OECD)



Dr. Ammar AlNahwi

Director of Corporate Innovation, Saudi Aramco



Memia Fendri

Lead, Resilient and Sustainable Value Chains; Content Curator, World Economic Forum

11:00 – 12:00

14:45 – 18:00

Metaverse Room

Interactive Session

Inside the Future: A Metaverse Journey Through Advanced Manufacturing

Demo Lead



Dr. Ibrahim AlShunaifi

Expert Researcher, King Abdulaziz City for Science and Technology; Project Lead, Centre for the Fourth Industrial Revolution Saudi Arabia

29 Oct | 30 Oct

12:00 – 12:30

Red Sea Room

Beyond Digital

Neurotechnology: From Mind to Machine

Speakers



Prof. Imed Gallouzi

Prof. of Bioscience & Chair of the Center of Excellence for Smart Health, King Abdullah University of Science and Technology



Prof. Mohamed AlKawi

Director, Research Ethics Monitoring Office, King Abdulaziz City for Science and Technology

12:15 – 13:00

Main Theatre

Future Proofing Society

Future of Education

Moderator



Dr. Reem Taibah

Project Lead, Centre for the Fourth Industrial Revolution Saudi Arabia

Speakers



Prof. Andreas Cangellaris

Founding President, NEOM University



Prof. Amany AlShawi

Chief Executive Officer, Academy 32



Prof. Alina Matyukhina

Global Head of Cybersecurity, Siemens

14:15 – 14.20

Announcement: MoU between Business Accuracy and NmoHub

14:25 – 14.30

Announcement: MoU between Innovative Metal Industry Company and Future Dimensions Company

14:30 – 14.35

Announcement: MoU between Ishraq Tic and NAFFCO

14:40 – 14:55

Main Theatre

Beyond Digital

Driving National Transformation Through Data and AI Keynote



H.E. Dr. Esam AlWagait

Director, National Information Center

29 Oct | 30 Oct

15:00 – 15:30

Main Theatre

Strategic Resources for the 4IR Economy

Strategic Minerals and Semiconductors Innovations

Moderator



Nadia AlAmoudi
Executive Director for Strategy and Operational Excellence, National Center for Environmental Compliance

Speakers



Dr. Saeed AlShihri
Vice President for Energy & Industry Sector, King Abdulaziz City for Science and Technology



Dr. Fernando J. Gómez
Head, Future of Materials Program, World Economic Forum

15:00 – 15:45

Metaverse Room

Interactive Session

Quantum Documentary

Demo Leads



Rebecca Krauthammer
Chief Executive Officer, QuSecure



Freeke Heijman
Vice President, European Quantum Industry Consortium

15:00 – 16:00

Red Sea Room

Interactive Session

PolicyLens: Using AI to Anticipate Policy Impact

Demo Lead



Dr. Sami Mahroum
Director, Oliver Wynman and Founder, SparkX

29 Oct | 30 Oct

15:15 – 16:45

AlUla Room

Beyond Digital

Convergence at Scale: Building Bio-Hubs of the Future

Opening Remarks



H.E. Dr. Munir Eldesouki

President, King Abdulaziz City for Science and Technology, and Board Chairman, Centre for the Fourth Industrial Revolution Saudi Arabia

Co-chair



Dr. Brynne Stanton

Thematic Lead, Bioeconomy, World Economic Forum

Speakers



Prof. Ahmed AlJedai

Vice Chairman and Managing Director, SPIMACO



Dr. Batoul Baz

Vice President of the Health Sector, King Abdulaziz City for Science and Technology



Richard Traherne

Global Head of Next Frontiers and Engineering Biology, Capgemini, United Kingdom

15:30 – 16:15

NEOM Room

Responsible Tech & Ethical Frontiers

Navigating the Ethical Dilemmas of Frontier Technologies

Moderator



Hani AlHemsi

Director of Technology Development, Ministry of Communication and Information Technology

Speakers



Sir. Prof. Gabriele Andreoli

President, Institute for Advanced Studies & Cooperation (IASC)



Prof. Selwa AlHazzaa

Chief Executive Officer and Founder, SDM Tech



Dr. Akram Awad

Managing Director and Partner, Boston Consulting Group



Prof. Hoda AlKhzaimi

Associate Vice Provost for Research Translation and Entrepreneurship, New York University Abu Dhabi

29 Oct | 30 Oct

16:00 – 16:45

Main Theatre

The Intelligent Economy

Overcoming Supply Chain Challenges: AI, Automation & Localization Strategies

Moderator



Faisal Hamady

Managing Director and Partner, Boston Consulting Group

Speakers



Prof. Janet Godsell

Dean, Loughborough University



Dr. Fatmah Baothman

CEO, FI-Holding Saudi Arabia and Board Member, Global Center for AI Excellence in London



Salih AlSubai

Vice President of Technology Strategy and Architecture, Saudi Telecom Company

16:30 – 17:15

NEOM Room

Future Proofing Society

Inclusive by Design: Advancing Gender Equity in the Tech Economy

Moderator



Purushottam Kaushik

Head, Centre for the Fourth Industrial Revolution India

Speakers



Prof. David Keyes

Professor and Founding Dean, King Abdullah University for Science and Technology



Zainab AlAmin

Vice President of National Digital Transformation, Microsoft



Othman AlMoamar

Co-Founder, EDAD



Alaa Abdulaal

Chief of Digital Economy, Digital Cooperation Organization

29 Oct | 30 Oct

17:00 - 18:00

Main Theatre

The Intelligent Economy

Converging Frontiers: How Advanced Sciences Are Forging Future Economies

Moderator



Tammy Bui

Consultant, 17a

Speakers



Jeremy Jurgens

Managing Director and Head of the Centre for Frontier Technologies and Innovation and the Centre for Cybersecurity, World Economic Forum



Dr. Talal AlSedairy

Senior Vice President for Research and Development, King Abdulaziz City for Science and Technology



Prof. Tristan Farrow

Vice President, NEOM Education, Research, and Innovation Sector



Dr. Huda AlFardous

Chief Executive Officer, HealthGena

29 Oct | **30 Oct**

9:55-10:00 Day 1 Recap



Dr. Waleed Gowharji
General Manager for Projects & Initiatives, Centre for the Fourth Industrial Revolution Saudi Arabia

10:00 – 10:05 Announcement: Launch of the PeerLink Platform

10:05 – 10:30

Main Theatre

The Future of Industry

Industrial Leadership in the Era of Convergence

Moderator



Dr. Basma AlBuhairan
Managing Director, Centre for the Fourth Industrial Revolution Saudi Arabia

Speaker



H.E. Bandar AlKhorayef
Minister, Ministry of Industry and Mineral Resources

11:00 – 11:45

Red Sea Room

Future Proofing Society

The Sky Stack: Where Drones, Satellites, and AI Intersect

Moderator



Dr. Waleed Gowharji
General Manager for Projects & Initiatives, Centre for the Fourth Industrial Revolution Saudi Arabia

Speakers



Raed AlFayez
Deputy Governor of Technology Sector, Communications, Space, and Technology Commission



Dr. Mariam Nouh
Vice President, Economies of the Future Sector, King Abdulaziz City for Science and Technology



Kimberly Washington
Co-Founder, Deep Space Biology

29 Oct | **30 Oct**

11:00 – 12:30

Paris Room

The Future of Industry

From Oil Fields to Lighthouses: Aramco's Journey of Scaling Industrial Transformation

Session Framing



Meshal AlMashari

Director, Corporate Venturing, Aramco Ventures

Moderator



Abdurahman Jubairy

Digital Transformation Lead, Aramco

Speakers



Rami AlOtaibi

Director of North Ghawar Producing, Aramco



Mohammad Jalaly

Manager, Saudi Accelerated Innovation Lab (SAIL)

11:00 – 14:00

Metaverse Room

Interactive Session

Inside the Future: A Metaverse Journey Through Advanced Manufacturing

Demo Lead



Dr. Ibrahim AlShunaifi

Expert Researcher, King Abdulaziz City for Science and Technology; Project Lead, Centre for the Fourth Industrial Revolution Saudi Arabia

11:15– 12:00

Main Theatre

Beyond Digital

The Quantum Advantage: Trust, Security, and Global Influence in the 4IR Era

Moderator



Mohammad AlSaiyari

Senior Consultant, Saudi Aramco and Chairman, Saudi Quantum Computing Association

Speakers



Arunima Sarkar

Head of Frontier Technologies, World Economic Forum



Prof. Rosario Fazio

Head of Condensed Matter and Statistical Physics Section, The Abdus Salam International Centre for Theoretical Physics



Kelly Richdale

Senior Advisor, SandboxAQ



Dr. Muhamad Felemban

Assistant Professor and Director, King Fahd University of Petroleum & Minerals

29 Oct | **30 Oct**

12:00 – 12:45

NEOM Room

The Future of Industry

Smart Factories and Digital Twins: AI-Driven Efficiency & Industrial Transformation

Moderator



Ayman AlJohani
Founder & Chief Executive Officer, IIoT Solutions

Speakers



Khalid Al Homoud
Executive Vice President, National Industrial Development Center



Dr. Dominic Gorecky
Executive Board Member, Switzerland Innovation Park Biel / Bienne AG



Manish Pant
Executive Vice President, International Operations, Schneider Electric



Dana Kawas
Co-Founder & Chief Executive Officer, Thynkli

12:00 – 12:45

Red Sea Room

Future Proofing Society

Builders of the Now: Youth Voices Shaping the Age of AI

Moderator



Naif AlDhaban
AI Product Manager, Lite, and Curator, Global Shapers Riyadh Hub

Speakers



Dr. Faris AlSalamah
Founder, ResearchX



Lolwah Binsaedan
Founder, Juthor



Tammy Bui
Consultant, 17a

29 Oct | **30 Oct**

12:15 – 13:00

Main Theatre

The Intelligent Economy

The Brain Economy: Unlocking Human Potential in the Age of Cognitive Capital

Moderator



Maha Taibah

Founder & Chief Executive Officer, Rumman Corporate Wellness

Speakers



Sir Prof. Edward Byrne

President, King Abdullah University for Science and Technology



Dr. Mahmoud AlYamany

Sector Head for Health and Well-Being, NEOM



Hazleen Ahmad

Founder, Neuropower, Deputy CEO of the Institute of Neurodiversity (ION), Chair and Founder, ION Singapore

12:30 – 13:30

Paris Room

NIDLP Private Session

From Vision to Venture: Unleashing Entrepreneurial Potential in Saudi Arabia

Speakers



Abdullah AlDeweesh

Portfolio Manager, National Industrial Development and Logistics Program



Meshael AlAssaf

Executive Director of Entrepreneurship and Human Capital Development, National Industrial Development and Logistics Program

13:00 – 13:30

NEOM Room

The Intelligent Economy

Deep Tech and Digitalization: Catalysts for Global Competitiveness

Moderator



Cassidy Lyon

Managing Director (Saudi Arabia), Emerging Markets Intelligence & Research

Speakers



Dr. Ibrahim AlMojel

Founding Partner, Khwarizmi Holding



Ali AlAsiri

Chairman & Founder, GeneEra AI

29 Oct | **30 Oct**

13:05 – 13:50

Main Theatre

Beyond Digital

Agentic & Embodied AI: Redefining Interaction, Mobility, and Labor

Moderator



Karan Soni

Associate Partner,
McKinsey & Company

Speakers



Meshal AlMashari

Director, Corporate Venturing,
Aramco Ventures



Dr. Omaimah Bamasag

Deputy of Transport Enablement,
Transport General Authority (TGA)



Dr. Mazen Melibari

Founder & CEO, DEEP.SA

13:55 – 14:00 Closing Remarks



Dr. Raneem AlSelaimi

Deputy Managing Director, Centre
for the Fourth Industrial Revolution
Saudi Arabia

Saudi Arabia
Centre for the
Fourth Industrial
Revolution

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