



The United Arab Emirates

Investing in Global Industry Champions

I. Introduction

The United Arab Emirates consists of seven independent city-states: Abu Dhabi, Dubai, Sharjah, Umm al-Qaiwain, Fujairah, Ajman and Ra's al-Khaimah.

The UAE has one of the most open economies in the world. This tradition of welcoming business and trade goes back to early Gulf history, when ships sailed to India and along the coast of East Africa as far south as Mozambique.

The UAE continues to be a strategic hub, with business-friendly free zones and a quickly growing economy. The country has experienced significant economic growth. Average GDP growth over 2000 to 2006 in the UAE was about 8.4 percent—the highest in the Gulf Cooperation Council, which averaged 6.5 percent.

The demographics of the UAE are extremely diverse. In 2010, the UAE's population was estimated at 8,264,070, of whom only 13% were UAE nationals or Emiratis, while the majority of the population were expatriates. The country's net migration rate stands at 21.71, the world's highest.

The nominal GDP for 2007 was \$192 billion. This reflects the rich natural resources in the UAE, which has 10 percent of the total world supply of oil reserves and the world's fifth largest natural gas reserves.

Abu Dhabi

As the nation's capital, Abu Dhabi works to diversity its economy away from carbon-dependence and towards knowledge-based industries able to support long-term development. Through Mubadala, an investment and development company supporting the diversification of the UAE, the Emirate works to create globally-integrated industry sectors including healthcare, semiconductors, telecommunications, aerospace and defense.

II. Chip Design and EDA Presence

The Advanced Technology Investment Company (ATIC) was created in 2008 to position Abu Dhabi as a global force in the advanced technology industry. A Mubadala company, ATIC invests domestically and internationally to

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build industry-leading companies and create leading-edge technologies delivering targeted socioeconomic returns to Abu Dhabi. Today, ATIC wholly owns GLOBALFOUNDRIES, the world's second largest semiconductor foundry company, while working to cultivate strategic R&D and Human Capital development within Abu Dhabi.

In this vein, ATIC and the state of Saxony, Germany, collaborate on joint research labs working in tandem on areas of interest to the semiconductor industry. Masdar Institute of Science and Technology hosts the Abu Dhabi research center, while Technische Universität Dresden hosts the Saxony lab. Research focuses primarily on three-dimensional chip stacking, a potentially faster and more energy efficient semiconductor technology that follows ATIC's broader emphasis on minimum electronic energy systems, or MEES.

ATIC also backs MEES research through grants organized in partnership with the Semiconductor Research Corporation (SRC), the world's leading university-research consortium for semiconductors and related technologies, ATIC will currently supports 14 research initiatives spanning Khalifa University, UAE University, American University of Sharjah, Masdar Institute and New York University Abu Dhabi.

The UAE has utilized international partnerships to rapidly build globally-competitive higher education offerings with strong STEM programs. New York University and the Sorbonne have campuses in Abu Dhabi, while the Massachusetts Institute of Technology works in collaboration with Abu Dhabi's Masdar Institute.

Additional UAE universities include Zayed University, Higher Colleges of Technology, American University of Sharjah, UAE University and Khalifa University, each with strong industry ties underpinning research across a broad range of technology sectors.

To empower the UAE's next generation, ATIC is driving a diverse portfolio of human capital initiatives giving Emiratis the opportunity to gain industry-leading experience with the world's leading technology companies and educational institutions. To date, 872 Emiratis have been through ATIC's internship, scholarship and broader youth outreach programs.

III. Academia

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Nada Al Karimi joined ATIC as a senior associate from First Gulf Bank where she was the Head of Corporate Communications and Marketing. Nada has more than eight years of experience in marketing, public relations and communications with different organizations including the Department of Finance - Dubai, Meraas Holding and Zayed University. She has extensive knowledge in branding, creating corporate identities and campaigns. In her spare time, Nada is an accomplished film producer and director and has won several awards for her documentaries.



Alden is currently a Vice President within ATIC (a Mubadala Company), focusing on the creation of a technology ecosystem in Abu Dhabi, global partnerships and strategic R&D alliances. Within Abu Dhabi, prior to joining ATIC, Alden was employed by Abu Dhabi's largest development company followed by a Private Family Office. Alden's previous roles have focused on portfolio management, international acquisitions and the delivery of complex capital projects. With experience of building and operating successful start-up companies Alden originated from the UK, is post graduate qualified, a Chartered professional and has experience of working across Europe, Asia, the Middle East and the US.

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