





JOBS OF THE FUTURE



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EXECUTIVE SUMMARY



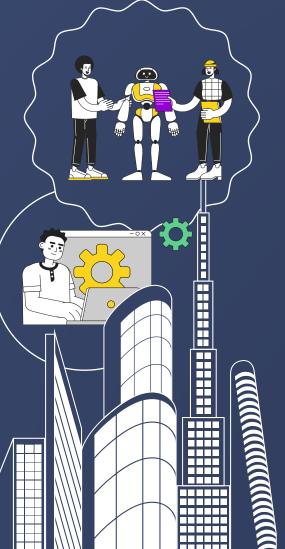
MARKET SHIFTS

The global job market is undergoing rapid shifts driven by technological advancements, automation, and sustainability trends. These changes necessitate a transformation in education systems to equip future generations with the skills needed to thrive in emerging industries



DUBAI'S EDUCATION SYSTEM

Dubai's diverse education system is well-positioned to adapt to these global shifts. With a growing focus on vocational training, STEM education, and interdisciplinary learning, there are significant opportunities to prepare students for future roles, particularly in the green economy and digital sectors





AI, ROBOTICS, GREEN ENERGY

As industries evolve, new roles in AI, robotics, green energy, and data analytics are emerging. These roles demand a blend of technical and soft skills, including problem-solving, emotional intelligence, and adaptability, which are critical for future success



FUTURE-READY LEARNING STRATEGIES

Building the future workforce requires innovative learning methods, including personalized and tech-enabled education. Schools must integrate hands-on experience, digital learning, and interdisciplinary approaches to cultivate a lifelong learning mentality and ensure students are prepared for a rapidly changing job market

THE OBJECTIVE OF THIS REPORT IS TO



AWARENESS of future job trends and the critical role of collaboration among education

collaboration among education
stakeholders to ensure Dubai's workforce is
equipped for emerging industries

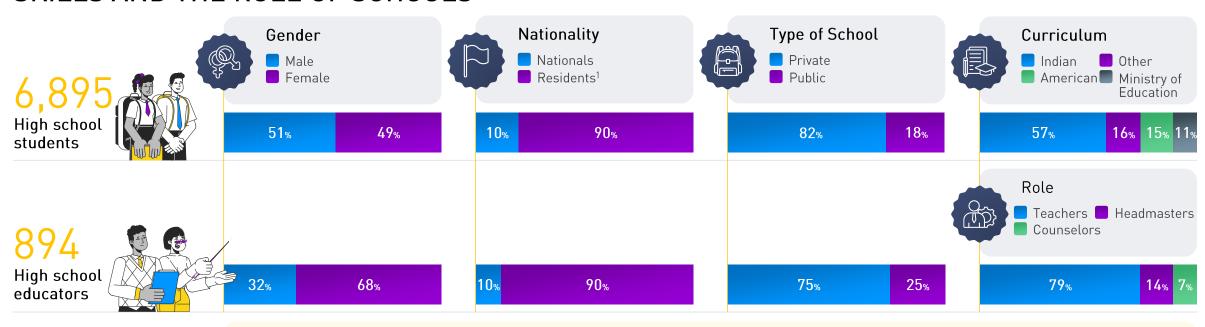


ENCOURAGE CHANGES

Within Dubai's education system to proactively address future workforce needs. This includes advocating for policy reforms, curriculum alignment with industry demands, and embedding career counselling and interdisciplinary learning to build a resilient, adaptable workforce for the future

GLOBAL JOB MARKET TRANSFORMATION AND FUTURE INDUSTRIES	01
DUBAI'S EDUCATIONAL LANDSCAPE – CURRENT STATE AND FUTURE NEEDS	02
EMERGING JOB ROLES AND ESSENTIAL SKILLS FOR SUCCESS	03
BUILDING BRIGHTER FUTURES: EDUCATIONAL PATHWAYS AND INNOVATIVE LEARNING	04

AS A KEY INPUT TO THE REPORT, A PROPRIETARY DUBAI FUTURE OF JOBS SURVEY WAS CONDUCTED AMONG ~7,800 STUDENTS AND EDUCATORS TO GATHER INSIGHTS ON FUTURE SKILLS AND THE ROLE OF SCHOOLS





Other key inputs include reports from World Economic Forum, Dubai Future Foundation, and Subject Matter Experts in the education sector

World Economic Forum
 Future of Jobs Report
 (period 2025-2030)

Brings perspective of 1,000 leading global employers - collectively representing more than 14 million workers - across 22 industry clusters and 55 economies from all world regions

Dubai Future FoundationThe Global 50

 Key Insights from Subject Matter Experts





01.

GLOBAL JOB MARKET TRANSFORMATION AND FUTURE INDUSTRIES

CASE FOR CHANGE: UNPRECEDENTED SHIFTS ARE SHAPING THE FUTURE OF LEARNING AND JOBS



TRENDS FOR THE NEXT ~10 YEARS

Science of learning and art of pedagogy

With increased emphasis on individualized learning, student collaboration and diverse assessment strategies, future pedagogy will become more student-centered



The next frontier

Cutting-edge realms (e.g., metaverse and space) will blur the boundaries between the real and virtual, and provide a new playground for businesses (certain industries already making the move)



The global centre of gravity is shifting East

Market and population scale, rising incomes, technological advances and sheer size of government pockets will fuel the shift of the economic centre east

Local issues, global responses – Climate change, pandemics and wars

National solidarity and coordinated responses will be tested and strengthened by global challenges, and increased interconnectedness will invigorate global mindsets



The new face of work

Longer life span, talent migration and the graduation of Gen Z into the workforce will introduce new work dynamics geared towards wellbeing and lifestyle and will require collaborative and inclusive work styles. Entrepreneurship and intrapreneurship will continue to accelerate



Man and the Machine

Al and automation will become increasingly fundamental to workplaces, accelerating the importance of social-emotional and cognitive skills



Race to Net zero

Countries and companies alike will continue to make pledges for sustainability, and a globalized political and technological collaboration will fuel the race towards net zero



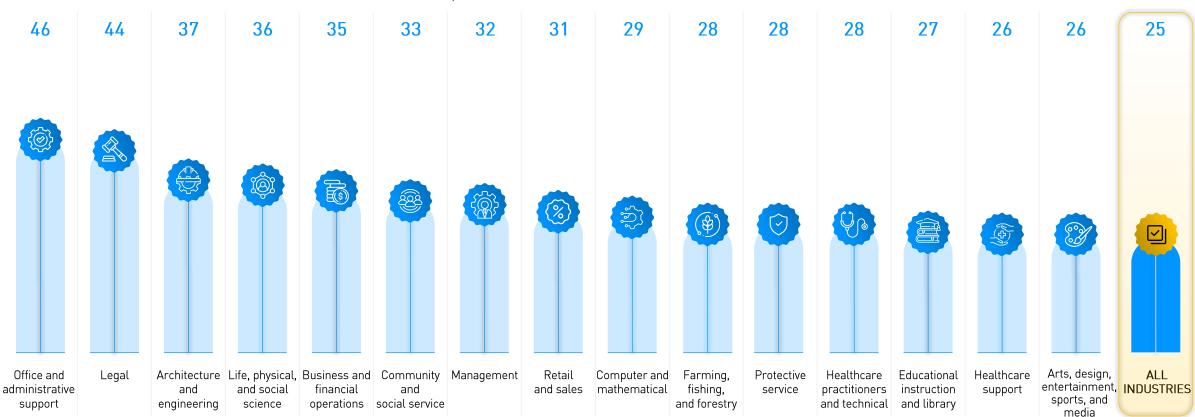
Source: World Economic Forum

FOR EXAMPLE, RESEARCH SUGGESTS ONE-QUARTER OF CURRENT WORK TASKS COULD BE AUTOMATED BY AI, WITH CERTAIN SECTORS REACHING AUTOMATION LEVELS AS HIGH AS 50%



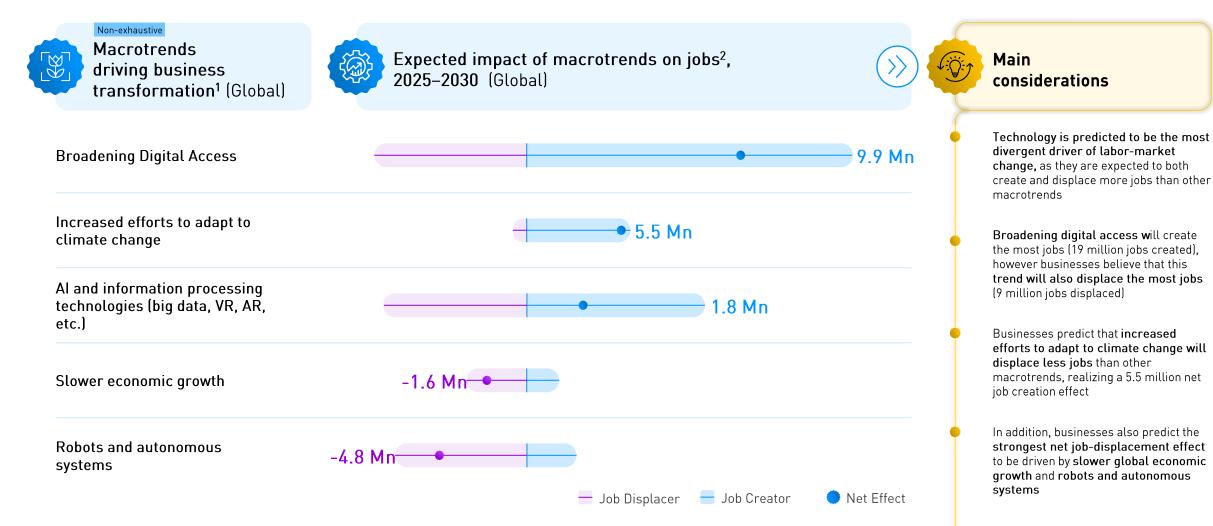
SHARE OF INDUSTRY EMPLOYMENT EXPOSED TO AUTOMATION BY AI -

NON-EXHAUSTIVE LIST OF ABOVE-AVERAGE INDUSTRIES, CATEGORIZED BY SECTOR ACTIVITIES:



Source: Goldman Sachs Global Investment Research, 2022-2023

THE WORLD ECONOMIC FORUM REVEALS KEY MACROTRENDS DRIVING EMPLOYMENT GROWTH, WITH TECHNOLOGY TRENDS BOTH CREATING AND DISPLACING MOST JOBS



^{1.} Trend that was identified as likely to drive transformation in surveyed organization

^{2.} Share of organizations surveyed that expect each trend to create or displace jobs, ordered by job creation net effect Source: World Economic Forum, Future of Jobs Report 2025

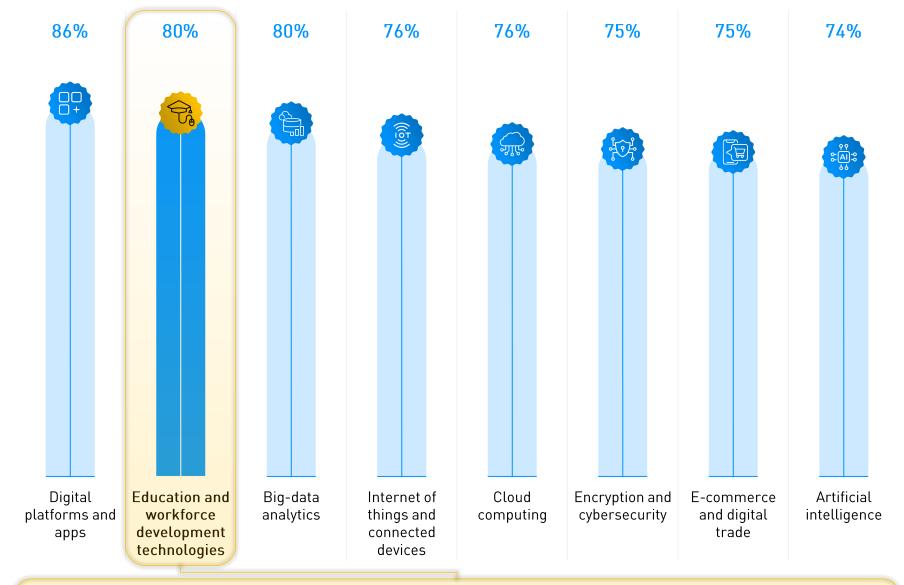
AT LEAST 75%

OF SURVEYED

BUSINESSES ARE
LOOKING TO
ADOPT DIFFERENT
TECHNOLOGIES
BY 2027...



Adopted technologies over the next 5 years by at least 75% of surveyed organizations



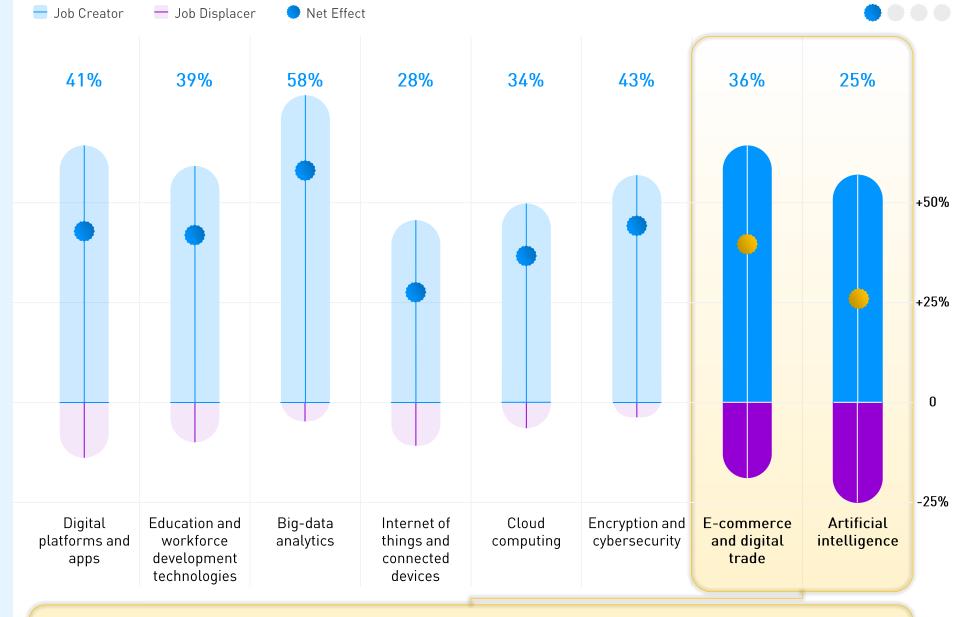
Education and workforce development technologies is expected to be the second highest adopted technology, inferring the importance of technology in advancing the education sector (e.g., self-paced learning, augmented technologies, virtual learning experience, digitized student progress, etc.)

Source: World Economic Forum

...WHICH ARE EXPECTED TO BE NET JOB CREATORS



Share of organizations surveyed that expect each technology to create or displace jobs



Al and e-commerce and digital trade are expected to result in significant labor market disruption, with substantial proportions of companies forecasting job displacement in their organizations, offset by job growth in other businesses to result in a net positive job creation

Source: World Economic Forum

GLOBAL RESEARCH INDICATES THAT EMERGING INDUSTRIES OF THE FUTURE WILL DRIVE DEMAND FOR INNOVATIVE DISRUPTIONS AND ADVANCED TECHNOLOGICAL BREAKTHROUGHS ACROSS FIELDS

01

HEALTH

HEALTH 4.0

Leverage technology (Medical devices, big data, AI/ML, Electronic Health Records, telemedicine etc.) with minimal human intervention

GENETIC ENGINEERING

Use technology to develop vaccines, precision medicines, and treat specific diseases via gene therapy, biosensors, etc.

3D BIOPRINTING

Develop biological structures including 3D printing skin, bones, implants, prosthetics and some tissues

02

REAL ESTATE

PROPTECH

Technology-driven innovations and solutions including acquiring, owning, managing, renting and selling various types of properties

CONSTRUCTIONTECH

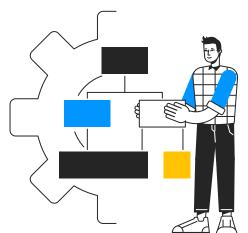
Cutting-edge technologies are reshaping the approach to designing, planning, constructing, and renovating residential, commercial, and industrial buildings, as well as infrastructure

03

CLEAN ENERGY (NET ZERO)

CLEANTECH

IndustrialTech and business model use cases towards developing new age clean energy solutions



04

PAYMENTS

CROSS-BORDER PAYMENTS

Rapid transformation through technology and innovation with advancements in seamless payments (e.g., IoT, APIs) and alternative payment mechanisms like blockchain and digital currencies

DOMESTIC PAYMENTS

Enhanced risk and fraud detection (through AI, tokenization, and biometric authentication) and advancements in seamless payments (e.g., digital wallets, instant payment systems) 05

TRADE AND MOBILITY

TRADE FINANCE

Various products and services to finance trade transactions/working capital that help facilitate and mitigate trade risks

NEXT-GEN TRANSPORT

New and emerging mobility options across all modes (land, air, water) used to move people or goods (e.g., Robo-taxis, hyperloops)

SMART LOGISTICS

Smart, digitally-driven logistics solutions (e.g., smart port solutions, blockchain managed supply chain, autonomous ships)

ALL THESE DISRUPTIONS ARE SET TO TRANSFORM THE GLOBAL JOB MARKET WITHIN THE NEXT THREE YEARS, WHERE TRADITIONAL ROLES AND GROWTH ROLES REQUIRE A DIFFERENT SET OF SKILLS

JOBS WITH INCREASING



AI/ML specialists



Sustainability specialists



Autonomous and EV Specialists



Data analysts and scientists



Robotics engineers

DEMAND



Information security analysts



Fintech engineers



Big data specialists



Digital transformation specialists

MAINTAINED CORE/ TRADITIONAL JOBS

rely on accumulated skills and require upskilling



Teachers



Nurses



Lawyers



Skilled **Technicians**



Mental health professionals



Doctors



Traditional engineers



Pharmacists



Security personnel

JOBS WITH DECREASING DEMAND



Bank tellers and related clerks



Data entry clerks



Postal service clerks



Material-recording/ stock-keeping clerks



Admin and executive secretaries



Legal officials



Cashiers and ticket clerks



Telemarketers



Accounting, bookkeeping, and payroll clerks

Source: World Economic Forum, Secondary Research



THERE IS AN OPPORTUNITY TO PRIORITIZE UPSKILLING/RESKILLING STRATEGIES AND ALIGN WITH JOB MARKET NEEDS, REQUIRING IMMEDIATE CHANGES IN THE EDUCATION SECTOR



THE QUICK PACE OF **TECHNOLOGICAL ADVANCEMENTS ARE** IMPACTING CURRENT **SKILLSETS**



200 - 350Million people

Are estimated to require upskilling/reskilling in the next 5 years



15 to 6

The average skill shelf life is projected to shrink from 15 years to just 6 years, underscoring the increasing need for continuous learning and agility in adapting to evolving industry demands



ADAPTABILITY AND HIGHER FREQUENCIES OF **RESKILLING IS REQUIRED** TO MATCH PACE WITH NEW JOB MARKET NEEDS



LIFELONG **LEARNING**

Adapting a lifelong learning mentality is essential for keeping up with emerging trends



EMERGING SKILLSETS

Taking the opportunity to proactively prepare students with emerging skillsets will not only help students be ready to enter the job market with relevant skills but also ensure they are well-prepared to adapt with the job market as it changes



02.

DUBAI'S EDUCATIONAL
LANDSCAPE – CURRENT STATE
AND FUTURE NEEDS

DUBAI OFFERS A DIVERSE AND HIGH-QUALITY EDUCATION SYSTEM THAT MEETS THE NEEDS OF A GLOBAL COMMUNITY AND SUPPORTS PATHWAYS TO FUTURE SUCCESS



K-12 EDUCATION SYSTEM

60K

Nationals

370K

Residents

71

Public Schools 226

Private Schools



Dubai's schools compete well vs. OECD and MENA, but are behind well renowned educational institutions



During the pandemic, performance showed only a marginal decline across the three domains of the Programme for International Student Assessment (PISA) in Dubai, faring better than global peers



Diverse system of curricula and price points catering to all segments of the population



Private and public schools are subject to transparent inspection processes driving better outcomes and parent choice



SNAPSHOT OF DUBAI'S EDUCATION SECTOR



VOCATIONAL EDUCATION PROGRAMS ARE GAINING TRACTION TO MEET MARKET DEMANDS



SNAPSHOT OF DUBAI'S EDUCATION SECTOR



TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING (TVET)

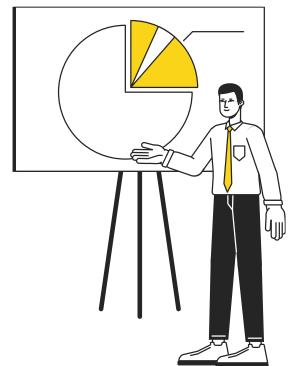
More than 800 approved training institutes



TVET in Dubai plays a crucial role in equipping the workforce with practical skills to support the emirate's economic diversification goals



With a strong focus on industryrelevant skills and hands-on training, TVET in Dubai is evolving rapidly to meet the demands of a knowledgebased, future-focused economy





In recent years, there has been a steady increase in student enrolment in TVET programs, with over 60,000 students enrolled in vocational and technical education across the UAE as of 2022, a significant portion of which is concentrated in Dubai

DUBAI'S HIGHER
EDUCATION
ECOSYSTEM
SUPPORTS A
GLOBAL COMMUNITY
WITH DIVERSE,
HIGH-QUALITY
PROGRAMS ALIGNED
WITH INTERNATIONAL
STANDARDS



SNAPSHOT OF DUBAI'S EDUCATION SECTOR



HIGHER EDUCATION¹

18K

Nationals

35K

Residents

30+

Р

Public Universities

Private Universities



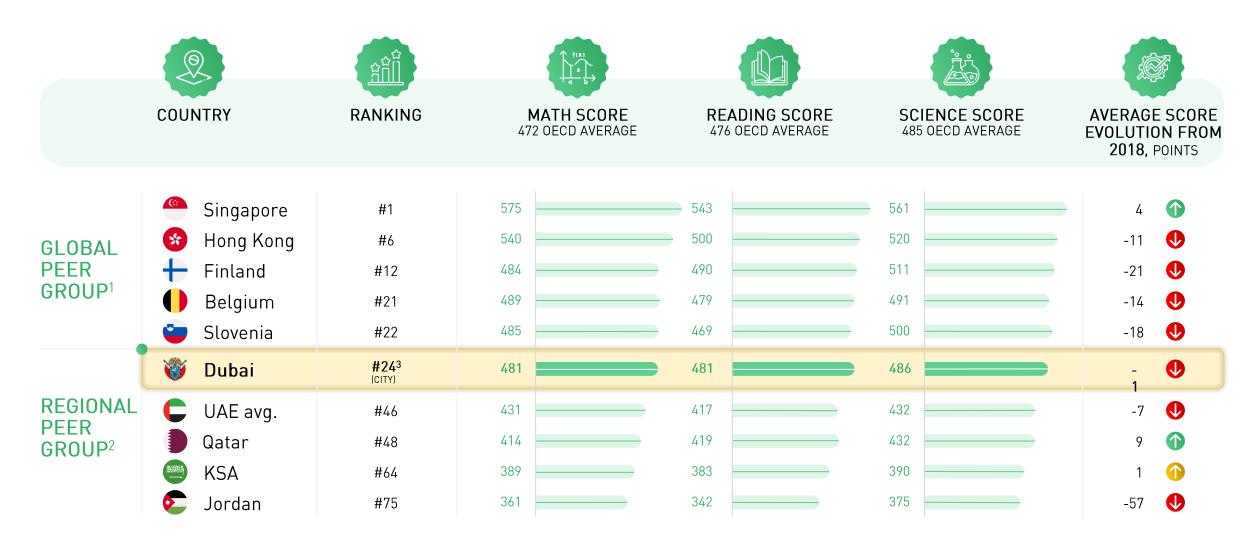
While Dubai hosts several hosts several international branch campuses of globally recognized institutions, the city is aiming to attract top 200 universities to raise its global education profile



Satellite and branch campuses offer curricula from their main campuses, which may not currently align with the demands of the global workforce market



DUBAI IS A TOP PERFORMER AMONGST ITS REGIONAL PEER GROUP, WHILE STILL HAVING THE OPPORTUNITY TO FURTHER PROGRESS AND MATCH GLOBAL PEERS



^{1.} Higher and lower bound of OECD countries chosen to give direct comparison to UAE, where it ranks above OECD average, chosen due to population size, GDP/capita and comparable PISA ranking

PISA results 2022 - (Age: 15 years old)



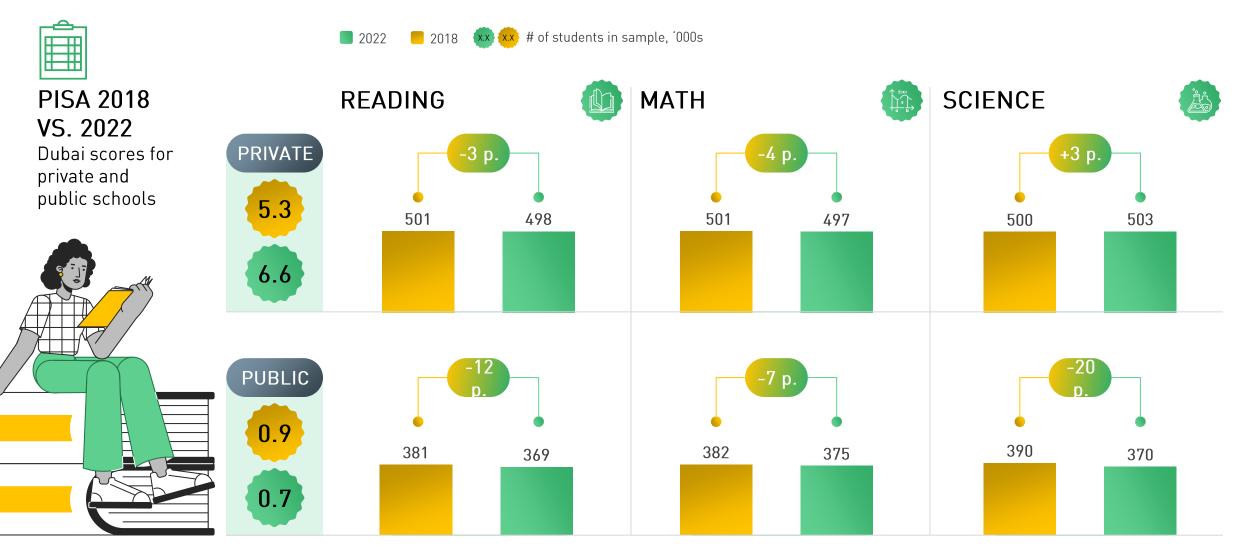




^{2.} Selected for best performing PISA countries in the region

^{3.} If Dubai's score was treated as an independent country ranked compared to countries, it would tie with Germany and exceed scores of the Netherlands and France. Otherwise, UAE ranks #46 Source: OECD PISA results 2022 (Program for International Student Assessment – OECD's global study measuring 15-year-old school pupils' performance on mathematics, science, and reading)

NONETHELESS, DUBAI'S AVERAGE PERFORMANCE IN PRIVATE AND PUBLIC SCHOOLS DROPPED POST-COVID ACROSS ALL DOMAINS





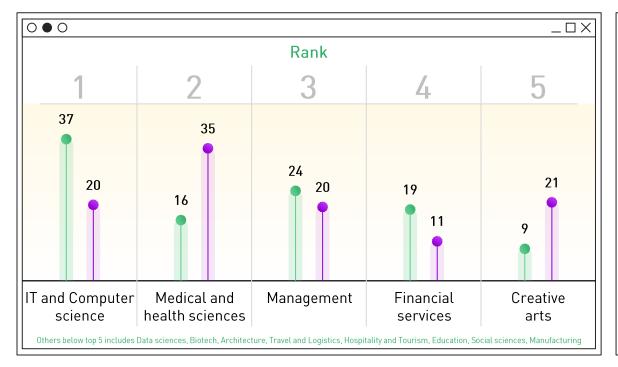


WHAT IS YOUR PREFERRED CAREER FIELD? (%, Top 5)

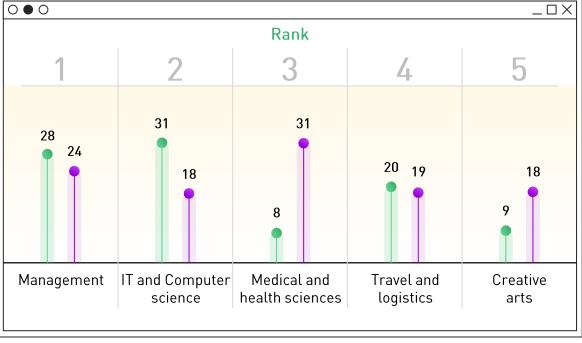
Male Female

- while nationals show a higher interest in travel and logistics within the same metric
- For residents, finance ranks in the top 5, Females in both segments prefer medicine and creative fields more than males

RESIDENTS



NATIONALS



Source: The Dubai Future of Jobs Survey 2023 21

... EVEN THOUGH IT IS A GLOBAL PRIORITY TO INCREASE INTEREST OF FEMALE STUDENTS ON STEM CAREERS



STEM NATIONAL **ORGANIZATION**

The Women in STEM campaign is a government-led initiative that aims to increase the participation of women in science, technology, engineering, and mathematics (STEM) careers



K-12 STEM **PROGRAMS**

NYU Tandon School of Engineering hosts six NYCbased programs and summer courses that provide access to in-depth STEM studies for students at different ages. The programs focus on teaching the creative side of STEM and coding to all age levels



PARTNERSHIP WITH TECH COMPANIES

QubitxQubit has partnered with IBM to offer an introduction to quantum computing course targeting high school students. The initiative has fueled interest in the domain within the youth, while also enabling pre-college and college internships at IBM





SUMMER IMMERSION **PROGRAMS**



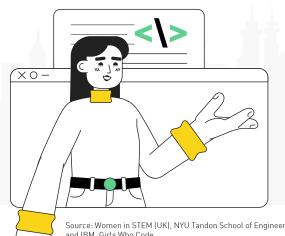
The Girls Who Code Summer Immersion Program is a seven-week program that introduces high school girls to computer science and technology. Students learn



coding skills, participate in team projects, and visit tech companies to gain firsthand experience in the industry

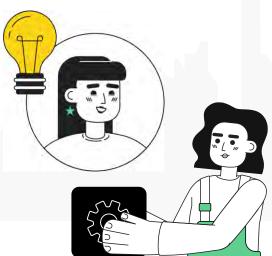








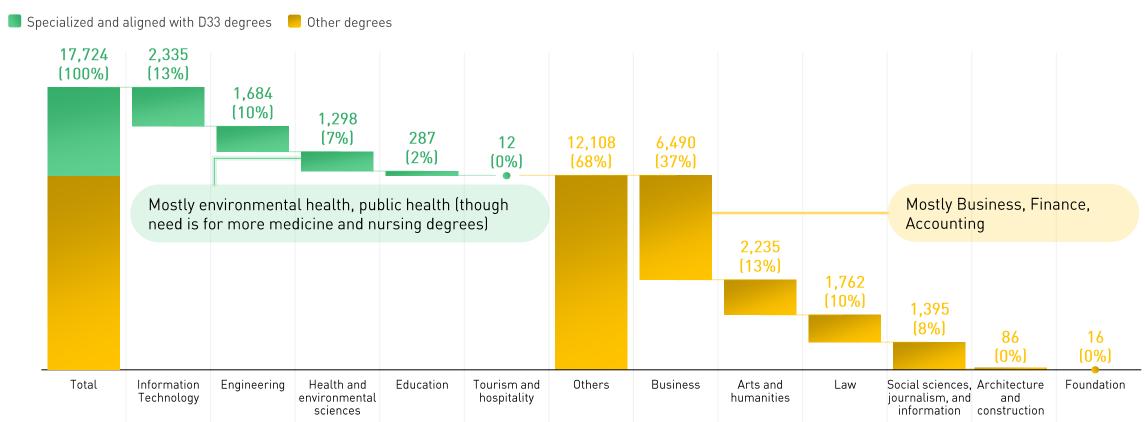




IN ADDITION, DATA SHOWS THAT MAJORITY OF EMIRATIS IN TERTIARY EDUCATION ARE SPECIALIZING IN DEGREES THAT DO NOT ALIGN WITH EMERGING JOB ROLES



ENROLLED EMIRATI STUDENTS IN TERTIARY EDUCATION BY FIELD OF STUDY - Emirate of Dubai2



^{1.} Examples of majors: Business: Accounting, Finance and Banking; Education: Education, Early Childhood Education, Educational Technology; Engineering: Smart Grid System, Architecture, Telecommunication Engineering: Architecture and construction: Interior Design, Architecture; Health and Environmental Sciences: Environmental Health, Pharmacy, Public Health, and Nutrition; Information Technology: Cybersecurity, Network Security, Cloud Computing; Law: Security and Criminal Sciences, Iaw and political sciences; Psychology, International Studies, Crisis Management; Social sciences: Journalism and Information: International Tourism Management Sciences: Technology; Cybersecurity, Biology; Tourism and Hospitality: Hospitality and Events Management
Source: DDSE, "Enrolled Students in Tertiary Education by Type of Institution, Nationality, and Gender; 2020"

WITH REGARDS TO SKILLS BUILDING, EDUCATORS BELIEVE THAT STUDENTS ARE NOT ADEQUATELY EQUIPPED FOR THE FUTURE IMPACT OF TECHNOLOGY



% OF STUDENTS BELIEVING THAT TECHNOLOGY WILL HAVE AN IMPACT ON THEIR FUTURE IN THE COMING 10 YEARS



of students agree and/or strongly agree that technology will have an impact on their future in the coming 10 years...



% OF STUDENTS AWARE OF THE SKILLS REQUIRED TO BE SUCCESSFUL IN THE FUTURE



of Counsellors and Headmasters believe that more than **80%** of their students are aware of what future jobs require

Source: The Dubai Future of Jobs Survey 2023

THIS PRESENTS AN OPPORTUNITY FOR DUBAI'S K-12 EDUCATION SYSTEM...

Non-exhaustive



OPPORTUNITIES IN SKILLS BUILDING

01

Incorporate more hands-on experimentation and real-world applications to provide students with valuable practical exposure and mentoring

04

Invest in the necessary tools, resources, and teacher training to enable the adoption of innovative learning methods and drive educational progress

02

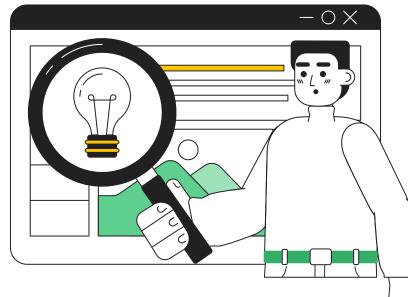
Integrate subjects across disciplines to deepen understanding and apply knowledge more holistically, preparing students for multifaceted challenges

05

Shift the focus from just academic achievements to also cultivating essential foundational skills for future success

03

Increase focus global communication and multicultural awareness to better equip students to thrive in an interconnected world



... TO INCREASE FOCUS ON DEVELOPING FOUNDATIONAL SKILLS

Non-exhaustiv



FOUNDATIONAL SKILLS

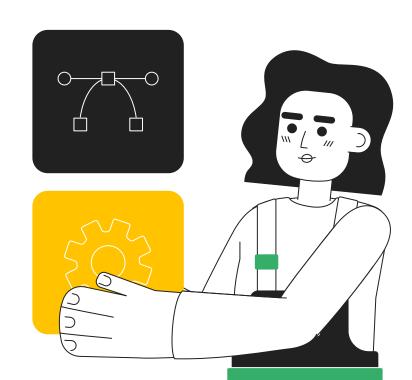
HARD SKILLS

- Technological literacy
- Data analysis and statistics
- Basic digital competencies
- Networks and cybersecurity

02

SOFT SKILLS

- Creative thinkingTeamwork
- CommunicationTime management
- Problem solving
- Decision making



IN ADDITION, DUBALIS WELL POSITIONED TO BE AT THE FOREFRONT OF BUILDING FUTURE SPECIALIZED SKILLS SUCH AS BIONIC SKILLS AND EMOTIONAL INTELLIGENCE



DUBAI KEY HIGHLIGHTS

World's Best Cities

#2 Globally in World's best cities (ahead of London and NYC), 2022¹

Destination for Holidays

#1 World's most popular destination for holidays, 2023

TalentCompetitiveness

#2 in MENA Global Talent competitiveness index



60+ Universities

60+ Universities, growth of ~2.2x in15 years

17 Diverse Curricula

17 diverse curricula offered in Dubai K-12 education



FUTURE SPECIALIZED SKILLS

Bionic skills

Proficiency in AI, robotics, data-driven decision making, AI-enhanced creativity, and navigating virtual realities like the metaverse will be essential

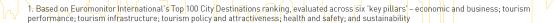
Existential capabilities, mindsets, and habits

Success will require mindfulness, self-regulation, adaptability, grit, decisiveness, and optimism, applicable in both personal and professional contexts

Human-to-human, team-focused, and community-focused skills

Effective interaction and emotional intelligence are crucial for organizational success





THEREFORE, IT IS ESSENTIAL TO ALIGN THE FUTURE JOB MARKET AND ESSENTIAL SKILLS FOR SUCCESS, AND FOCUS ON THE REQUIRED EDUCATIONAL PATHWAYS TO SUPPORT THESE SKILLS



- Provide stronger push to close the gap in future foundational skills
- Support students to understand the future specialized skills required for a future heavily impacted by technology
- Increase focus on "non-traditional" skill building such as meta skills and technology skills



THE ROLE OF SCHOOLS IN SKILLS DEVELOPMENT

Increase focus on integrating skill building as part of the curricula





- Increase STEM excitement especially for female students
- Increase career exploration activities through immersive and interactive initiatives
- Strengthen attractiveness of Dubai university education to retain residents and better equip nationals



03.

EMERGING JOB ROLES AND ESSENTIAL SKILLS FOR SUCCESS

DUBAI GOVERNMENT AND SUPPORTING ENTITIES ARE ADOPTING TECHNOLOGY ADVANCEMENTS AND DIGITAL TRENDS, NATURALLY INCREASING DEMAND FOR STEM FIELD ROLES

Non-exhaustive











EMERGING STEM JOBS

DIGITAL DUBAL STRATEGY



Aviation-specific innovation lab launched by Emirates Group focusing on futuristic aviation technologies



DUBAI 3D **PRINTING** STRATEGY 2030



Green Hydrogen project at Mohammed bin Rashid Al Maktoum Solar Park



DUBALALLAB STRATEGY

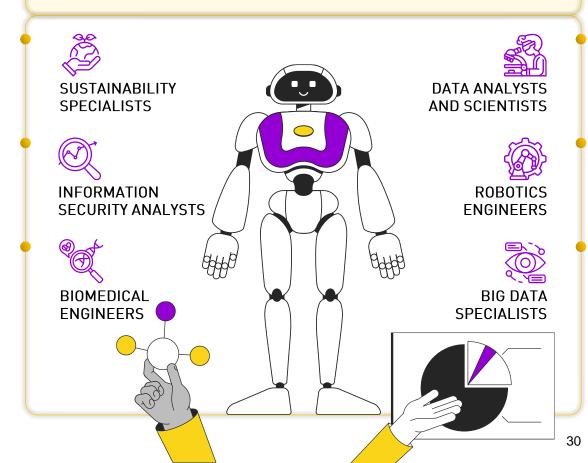


Global business community supporting entrepreneurs, SMEs and MNCs in the sciences, energy and environmental sectors



Established to empower Dubai's cyber-workforce and nurture the growth of an innovation ecosystem



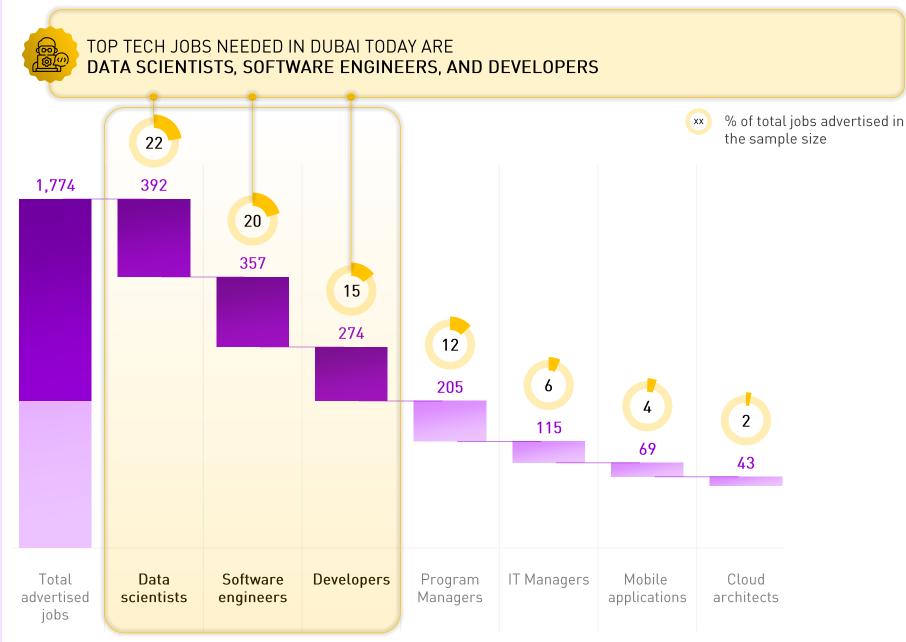


FOR EXAMPLE, ~1,800
TECH JOBS WERE
ADVERTISED IN
DUBAI WITHIN 1
MONTH, WITH
HIGHEST DEMAND FOR
DATA SCIENTISTS,
SOFTWARE
ENGINEERS, AND
DEVELOPERS



BREAKDOWN OF TOP JOBS ADVERTISED IN DUBAI IN THE TECH SECTOR¹

Sample of ~1,800 jobs advertised on LinkedIn



MOREOVER, GREEN JOBS RELATED TO SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT WILL CONTINUE TO EMERGE FROM RELATED STRATEGIES AND INITIATIVES IN DUBAI

Non-exhaustive





ENTITY-LEVEL INITIATIVES









Sustainability and Innovation Centre at Mohammed bin Rashid Al Maktoum Solar Park by DEWA



 DUBAI GREEN MOBILITY STRATEGY 2030



 Empowering the tourism sector to achieve its sustainability goals



DUBAI 2040
 URBAN
 MASTER PLAN

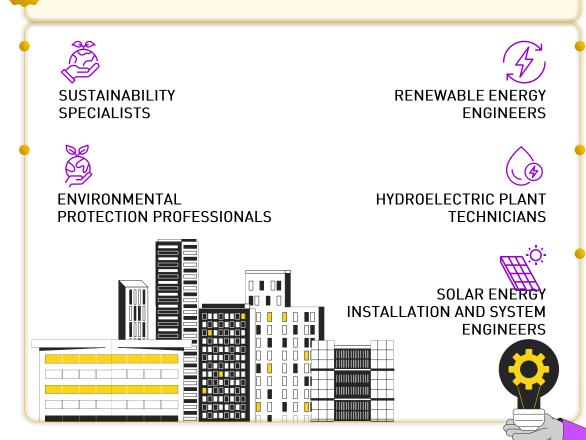


Sustainability Strategy "Our World, Our Future"



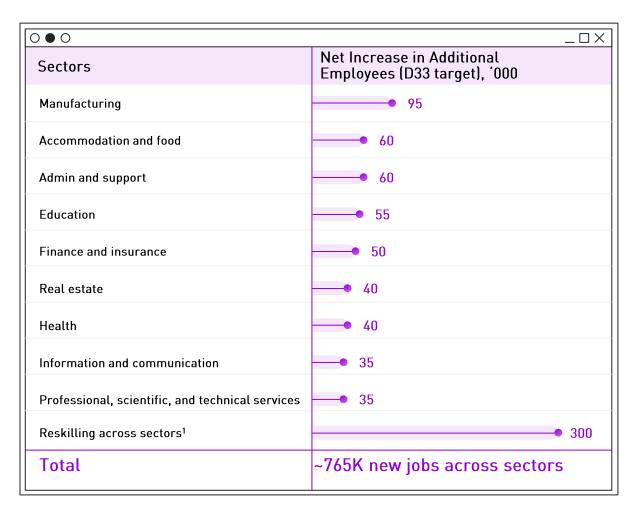
 Expand green cover by 100% and increase the area of protected areas and natural reserves by 60% by 2040

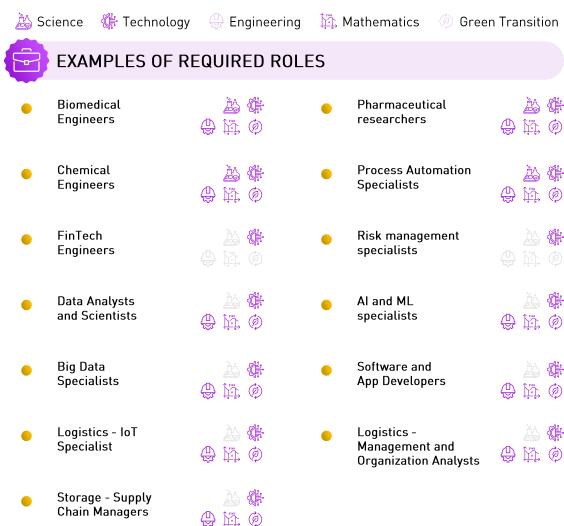






THESE EMERGING ROLES ARE WELL-ALIGNED WITH THE JOBS THAT DUBAI REQUIRES TO ACHIEVE ITS D33 TARGETS...



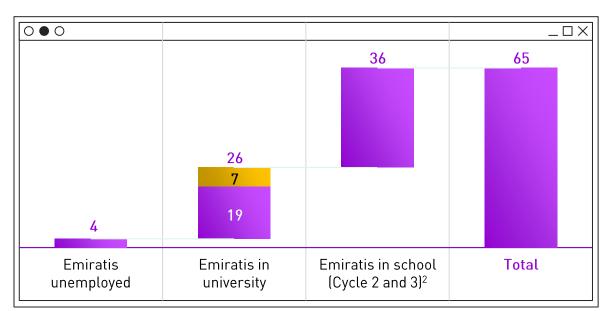


...AND WILL BE SUPPORTED BY THE INTEGRATION OF 65K EMIRATIS IN THE PRIVATE SECTOR



Projected Emirati talent joining Dubai workforce by 2033, by their current stage, '0001

Emiratis studying abroad



Of the D33 target to integrate 65,000 Emiratis into the workforce, 95% of those expected to enter the private sector are currently engaged within the education ecosystem



Emiratis to be integrated in private sector, with focus on

Mission-critical sectors

Healthcare

Education





Strategic/priority sectors





⇒ Manufacturing



ICI



Wholesale and retail

^{1.} Reflect data is based on 2020/21 academic year

^{3.} Accounting for Emiratis studying in other Emirates that will join Dubai workforce and Dubai students that will not join Dubai workforce

IN TURN, THIS WOULD BRING DUBAI CLOSER TO ACHIEVING ITS ECONOMIC AGENDA ACROSS PRIORITY THEMES



ECONOMIC AGENDA PRIORITY THEMES

INCREASE PRODUCTIVITY

Increase economic productivity by 50% through innovation and digital adoption

BUSINESS-FRIENDLY ENVIRONMENT

Provide a world-leading business-friendly and sustainable environment (ease of doing business, regulatory environment, ESG agenda)

NATIONAL TALENT

Integrate the next generation of Emiratis into the private sector and attract 1Mn long-term residents to grow our highly skilled workforce

COST COMPETITIVENESS

Create a globally competitive cost environment to facilitate business set-up and operation

ADVANCED MANUFACTURING

Scale manufacturing value add and exports by focusing on advanced modes of production

GLOBAL BUSINESS HUB

Become the fastest growing and most attractive global business hub and operations centre for MNCs, SMEs and local champions

QUALITY OF LIFE

Preserve and advance Dubai's quality of lifestyle, tolerance and safety and security for all

TOP 5 LOGISTICS HUB

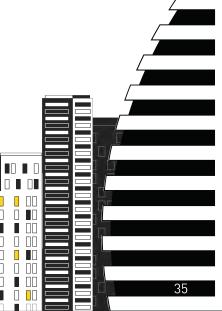
Become a **Top 5 global logistics hub**, across connectivity, services and operations

A TOP 3 DESTINATION

Become a Top 3 global destination for visitors across leisure, business, and specialized services (e.g., wellness)

TOP 4 FINANCIAL HUB

Become a Top 4 global financial hub and a preferred capital market in MEASA



WHILE EMERGING JOBS EMPHASIZE STEM FIELDS AND GREEN TRANSITIONS, **SOME INDIVIDUALS WILL STILL PURSUE CAREERS IN HUMANITIES AND SOCIAL SERVICES** SUCH AS ART, MUSIC, AND NURSING



CAREER PATH BALANCE

Societal Importance

Careers in the humanities and social services remain essential for culture, well-being, and societal growth

Skill advantage

Not everyone is suited for a tech-centric career path, and they can have unique skills and passions that will add value to society. Humanities and social sciences are better for teaching some emerging skills mentioned such as creative thinking, multilingualism, critical thinking, interpersonal skills, leadership and social influence

However, preparing for careers in humanities and social services requires the development of both soft skills and technological skills



SOFT SKILLS

Soft Skills

Communication and storytelling; critical thinking and analysis, creativity and innovation, collaboration and interpersonal skills, cultural competence/awareness, adaptability and lifelong learning



TECH SKILLS FOR HUMANITIES AND SOCIAL SERVICES

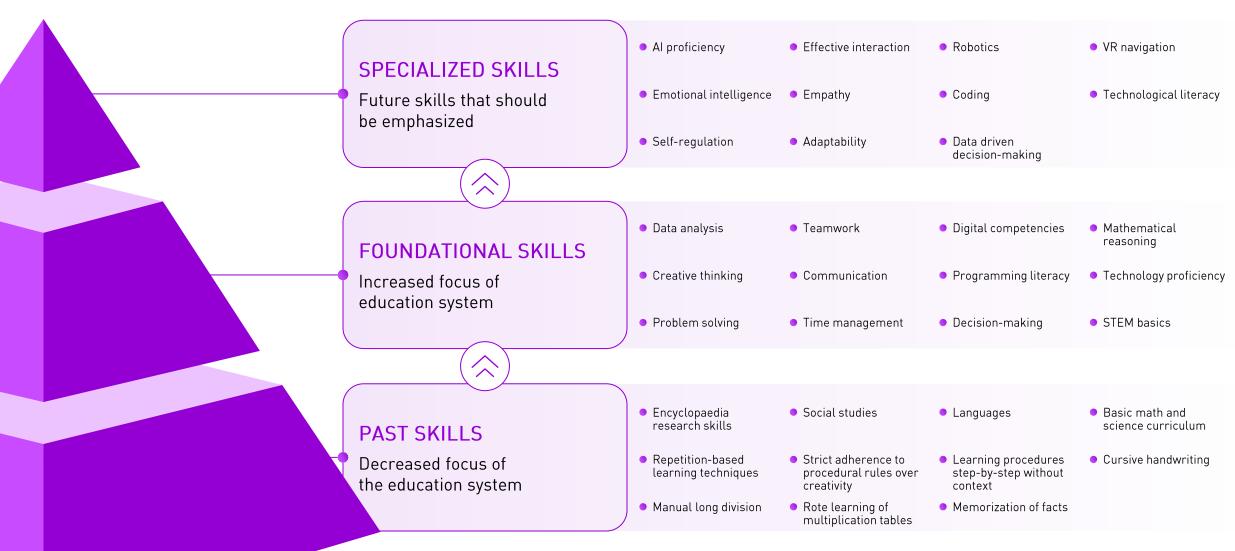
Technological Incorporation

Non-tech focused careers all incorporate technology to a certain extent, requiring a level of digital proficiency [e.g. Digital art, media editing, music production]

Tech Skills

Digital literacy, data analysis and visualization, content creation and multimedia skills, social media/digital marketing

TO MAXIMIZE SUCCESS IN EMERGING ROLES, IT IS ESSENTIAL TO EMPHASIZE FUTURE SKILLS AROUND ADAPTABILITY, CONTINUOUS LEARNING, AND INTEGRATION OF TECHNOLOGY WITH HUMAN SKILLS





04.

BUILDING BRIGHTER
FUTURES: EDUCATIONAL
PATHWAYS AND
INNOVATIVE LEARNING

IN LINE WITH OUR PRIMARY RESEARCH, STUDENTS BELIEVE THAT INTEGRATING SKILL BUILDING INTO CURRICULA IS THE PREFERRED METHOD TO STRENGTHEN FUTURE SKILLS...



HOW CAN YOUR SCHOOL BETTER PREPARE YOU MOVING FORWARD?



Skills integrated into curricula



External workshops and one-off events



Online skill building courses



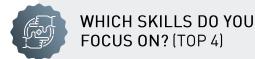
Extra-curricular classes

Source: The Dubai Future of Jobs Survey 2023

...AND SEE DIGITAL LEARNING AS ESSENTIAL FOR DEVELOPING SKILLS BEYOND SCHOOL, ESPECIALLY IN CODING, SOFTWARE DEVELOPMENT, AI, AND MACHINE LEARNING – KEY AREAS ALIGNED WITH FUTURE WORKPLACE PRIORITIES

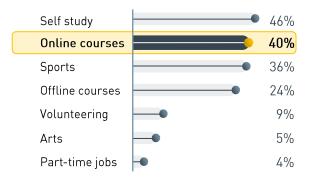








57% MALE



Sports

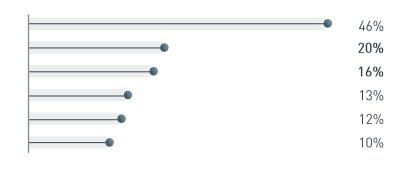
Coding and Software dev.

Al and Machine Learning

Creative skills

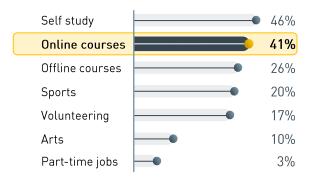
Communication

Finance and Accounting

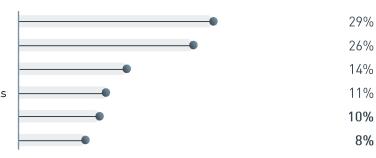




46% FEMALE



Sports
Creative skills
Communication
Leadership and interpersonal skills
Coding and Software dev.
Al and Machine Learning



^{1.} Responses are not exclusive, as participants could select multiple answers Source: The Dubai Future of Jobs Survey 2023

EVIDENCE OF NEW INNOVATION ADOPTION SHOWS A POSITIVE IMPACT ON THE EDUCATION SECTOR

01

PERSONALIZED, VISUALIZED AND CROWDSOURCED LEARNING

Truly adaptive learning solutions, e.g.,
Powered by AI technology/AR/VR, curating
materials from multiple sources

26%

estimated decrease in the average price of VR headsets

0



TECH-ENABLEMENT AND SEAMLESS LEARNING JOURNEYS

Proliferation of tech-enabled classrooms, new tools and systems ("offline digital", blended learning)



50%

of teachers feel their ability to effectively use EdTech has "improved a lot"

03

GAMIFICATION



TRANSPARENCY ON LEARNING EFFICACY AND OUTCOMES



Increasing attention to student outcomes with data and analytics enabling improved decision making



16%

retention boost via data enabled student support ecosystems

Emergence of new engaging ways of learning driven by technology (apps, immersion)



58%

increase in completion rates through achievement badges and competition

CASE STUDY: FINLAND'S EDUCATION SYSTEM FOCUSES ON INTERDISCIPLINARY LEARNING WHERE STUDENTS EXPLORE REAL-WORLD PHENOMENA TO SUPPLEMENT TRADITIONAL CLASSES



Finland's National Core Curriculum (2016) mandated Phenomenonbased Learning (PhenoBL) which focuses on interdisciplinary learning where students explore real-world phenomena rather than isolated subjects like math or history. This model encourages a holistic, cross-curricular view of education



PHENOMENON-BASED LEARNING

Interdisciplinary Focus

Students aged 7-16 participate in at least one multidisciplinary module per year, integrating knowledge from various subjects to analyze a phenomenon from different perspectives. The PhenoBL aims to supplement rather than replace traditional classes

Teacher Collaboration

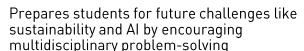
The reforms mandate 'study periods' during which teachers from multiple disciplines come together to teach one multidisciplinary module per year

Application in Classrooms

Teachers and students collaborate to choose relevant phenomena, often using local issues or global challenges as starting points. Problem-based and inquiry-based learning methods guide investigations, often requiring cross-subject collaboration among teachers

Benefits

01





02

Promotes creativity, critical thinking, openmindedness and empathy by exposing students to diverse perspectives on complex topics







IN THE SHORT TERM, DUBAI CAN FOCUS ON 6 KEY AREAS TO ADDRESS THE SKILLS GAP IN THE WORKPLACE...



SHORT-TERM FOCUS



Increase excitement of stem education, especially for female students



PROMOTE INTERDISCIPLINARY STUDIES

Integrate knowledge from multiple fields to equip students with the diverse skills and adaptability needed for emerging roles in the future job market



INTEGRATE SKILLS INTO CURRICULA

Incorporate niche and specialized skills building into school curricula that can be adopted by students



Leverage online tools (e.g., Myers-briggs type indicator) to help students gain insight into their skills, talents, aptitudes, values, personal potential, and interests to choose suitable professions



RECOGNIZE INDUSTRY ENABLED EDUCATION

Allow learners to opt for a more applied education through experiential learning, corporate training, dual education, private sectors certificates, etc.



ADVOCATE FOR LIFELONG LEARNING

Encourage flexible upskilling and reskilling education offerings to keep pace with technological advancements and evolving job requirements

...LOOKING AHEAD, DUBAI CAN EMBRACE NEW LEARNING METHODS TO ALIGN WITH FUTURE JOBS AND MARKET DEMANDS



MID-TERM FOCUS



ADOPT PERSONALIZED LEARNING

Implement self-paced, continuous lifelong learning journeys tailored to individual student needs and interests by giving them the option to decide what, when, and how to learn



INTEGRATE HUMAN-CENTRIC EDUCATION

Focus on interpersonal skills, emotional wellbeing, and health by aligning learning schedules with students' biological clocks and embedding these aspects into the curriculum



LEVERAGE AUGMENTED EDUCATION TECHNOLOGIES

Provide each learner with adaptive learning experience through progressive roll out of new technology. Utilize AI and virtual environments to provide competency-based assessments and immersive learning experiences that make concepts easier to grasp



Integrate new learning modes within education system to increase flexibility on how and where to learn. Make education location-independent by using blended learning and virtual worlds



PRIORITIZE VOCATIONAL CURRICULUM

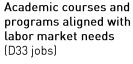
Partner with industry experts to co-develop vocational curricula, and introduce a national modular curriculum that is continuously updated to integrate technological advancements and address shifting market demands

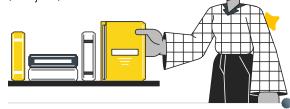
BY DOING SO, THE FUTURE OF DUBAI'S EDUCATION SECTOR WOULD ALIGN WITH FUTURE JOBS AND MARKET DEMANDS



TARGET STATE

D33 J0BS





SKILLS THAT MATCH DEMANDS

Graduates equipped with skills that match the demands of future industries, including STEM and green economy roles



EMIRATIS ARE WELL-PREPARED

Emiratis are
well-prepared and
integrated into the private
sector, contributing to a
diverse and competitive
workforce



GLOBAL CAREER COUNSELING LEADER

Dubai becomes
globally recognized
as a leader in
career counselling
and lifelong
learning, with
career guidance
embedded in the
education system



STRONG PUBLIC-PRIVATE PARTNERSHIPS

Strong public-private partnerships driving reskilling and upskilling initiatives to ensure continuous adaptability to market shifts



INTERDISCIPLINARY STUDIES

Increased focus on interdisciplinary studies and real-world applications, enhancing student readiness for emerging roles



LIFELONG LEARNING

Lifelong learning becomes a cornerstone of the education system, with flexible pathways supporting continuous skills development



INNOVATIVE LEARNING METHODS

Enhanced use of technology and innovative learning methods to provide personalized and immersive learning experiences



About The Department of Economy and Tourism

The Department of Economy and Tourism (DET) is the principal authority for the supervision and development of Dubai's economy and tourism sectors, with the ultimate vision of positioning Dubai as the world's leading business hub and tourism destination.

DET is the custodian for the Dubai Economic Agenda, D33, which was announced by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. This forward-looking initiative represents Dubai's leadership aspiration for the future, aiming to drive sustainable economic growth through innovative approaches and double the GDP by 2033, making Dubai the fastest, safest, and most connected city in the world.

About Knowledge and Human Development Authority

The Knowledge and Human Development Authority (KHDA) is the government authority responsible for the growth and quality of private education in Dubai. They support students, parents, educators, early childhood centres, schools, universities, training centres, investors and government partners to co-create a global and innovative education sector.

KHDA serves as the custodian of the Education 33 mandate, announced by His Highness Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai, Deputy Prime Minister, and Chairman of The Executive Council of Dubai, marks a new milestone in Dubai's efforts to create a future-ready education system. Guided by the forward-thinking vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, this landmark strategy aims to empower future generations with the skills, knowledge, and values needed to lead in an ever-evolving global environment.











