Ministry of Communications and Information Technology

Information Technology Institute

25
+Years of ICT Talent Development

People Develop Countries.
WE DEVELOP PEOPLE

CHAIRPERSON'S MESSAGE

ITI has a long journey that spans more than 25 years in the field of ICT capacity development. It aims at preparing highly skilled and well-trained cadres who are able to effectively contribute to our country's development and humanity's progress and to acquire their deserved share of tomorrow's career opportunities.
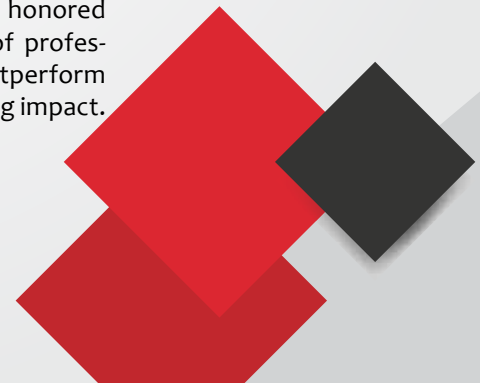
Keeping an eye on the accelerated market needs and continuously reflecting these changes on the design of our programs are the secret ingredients behind the sustainable growth of ITI role. Orchestrating the delivery of our programs with the industry's leading partners and the academic sector and embedding the new technologies in the institution's learning services, allow the ITI to offer non-classical, experience-based programs. A solid approach that leads to achieving a high employment percentage to the ITI's thousands of graduates and helps us scaling up our services to reach more of the young talents thriving throughout Egypt.

Dear passionate learners,
As you join our learning community, I invite you to a joyful learning journey and urge you, while thinking of your future opportunity, to also ponder the deep impact you can realize on your country, humanity and for the best of two worlds.

Dear community partners,
We are always keen to cooperate in opening new doors of opportunity for the new talents and your business growth.

Finally, I am extremely proud and honored to be part of a dedicated team of professionals who are always eager to outperform themselves and leave an ever-lasting impact.

Heba Saleh, PhD.

iTi

25 + Years of
ICT Talent Development

Values

People Develop Countries.
We Develop PEOPLE

Professionalism   **O**penness   **L**oyalty
Extra Mile   **P**assion   **E**lation

Smart Village Headquarter

Alexandria

Mansoura

Branches

Monofeya   Ismaielia   Minia   Assiut   Sohag   Qena   Aswan

A Reference Hub in Developing ICT Professional Talents.
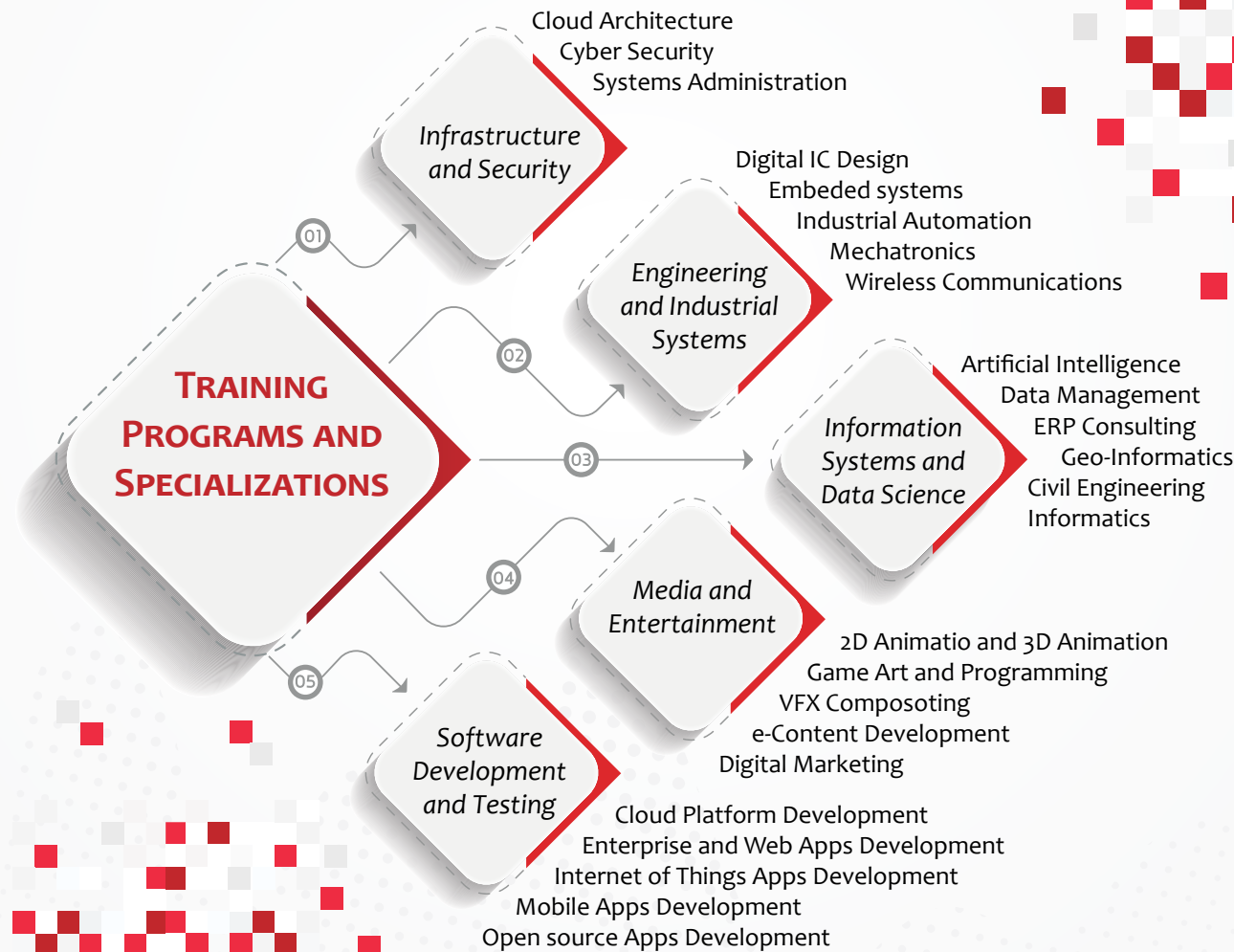
Vision
Mission

Supporting Egyptian youth to improve their career opportunities by developing their skills and preparing them for highly in-demand jobs, and related vast technologies to fulfill today's needs, and tomorrow's forecast.
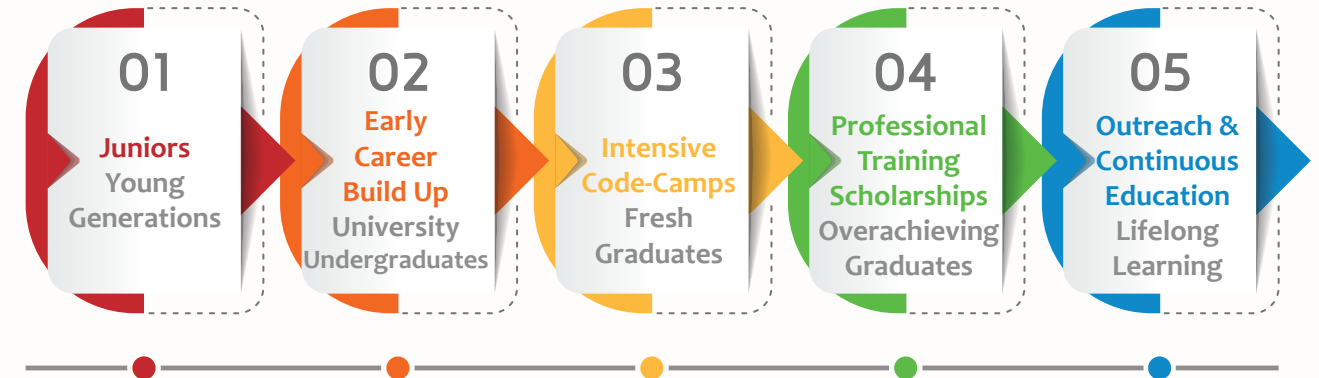
Methodology

Studying Market Demand

Continuous task forces are working with industry leaders and recruiting platforms to better understand existing and future market demand, thus designing the training portfolio to meet this demand.

Reflecting Egypt's National Strategy

Studying Egypt's and MCIT strategies and seeing how to design initiatives and programs lead to contribute in achieving these directions with the required skills and talents.

Studying New Technology Trends

The programs always reflect the latest developments and the rapid technological progress in the global technology industry. We keep continuous monitoring of future trends to avail it to interns, learners, and community.

Programs

Studying the technological trends, the market demand and the national initiative reflect program's continuous update. Our programs span for around 30 ICT disciplines including for example Artificial Intelligence, Data Science, Game Development, Digital Marketing, and many more that are related to highly demanded job profiles.

Training Programs and Specializations

01 Infrastructure and Security
- Cloud Architecture
- Cyber Security
- Systems Administration

02 Engineering and Industrial Systems
- Digital IC Design
- Embeded systems
- Industrial Automation
- Mechatronics
- Wireless Communications

03 Information Systems and Data Science
- Artificial Intelligence
- Data Management
- ERP Consulting
- Geo-Informatics
- Civil Engineering Informatics

04 Media and Entertainment
- 2D Animatio and 3D Animation
- Game Art and Programming
- VFX Composoting
- e-Content Development
- Digital Marketing

05 Software Development and Testing
- Cloud Platform Development
- Enterprise and Web Apps Development
- Internet of Things Apps Development
- Mobile Apps Development
- Open source Apps Development

What we offer

"Targeting passionate learners from 9 to 99 years old"

Our services target every passionate learner who is looking for creating his/her opportunity. These services include different initiatives and scholarships through different delivery models.

01 Juniors Young Generations

02 Early Career Build Up University Undergraduates

03 Intensive Code-Camps Fresh Graduates

04 Professional Training Scholarships Overachieving Graduates

05 Outreach & Continuous Education Lifelong Learning

01- Juniors: Young Generations

"Hobbies of today, are tomorrow's Opportunities"

Nowadays, juniors are deeply in love with technology, either to play a game or to crack a system, we are developing on this passion to empower them with the required skills to raise their awareness about new concepts, tools and technologies, such as Embedded Systems, Cyber Security, Game Development, Digital Art and Film Making through a set of placements, projects and certifications.

Online Career Talks
maharatech.gov.eg

Data Analytics Career Roadmap

Cyber Security Career Roadmap

02- Early Career Build Up: University Undergraduates

"Raising level of readiness for university students prior to their graduation"

Career Talks

University students remain confused from where to start in order to seize the right job opportunity. For this reason, and with the need to raise their awareness about the existing career path, we have launched **Career Talks** initiative, through different university visits and provided digital learning nuggets on ITI online platform in cooperation with the leading industry experts.

Summer Code-Camps

In order to also empower the students' skills, we conducted **intensive camps during their mid-year and summer vacation** in highly demanded skills to increase their readiness prior their graduation.

ITEgypt101 Initiative

Delivering a practical curriculum within their undergraduate program is another way to enrich our interns' experience and early introducing them into the job market implications.

ITEgypt101 initiative introduces undergraduate elective topics for freshman students from different disciplines to the wide realm of information technology through hands on experience and keynote speakers from their domain. Other topics could be introduced during their third and fourth academic year in collaboration with the universities. Students learn as well how it can affect their career perspective and open up new possibilities for them.

Summer Code-Camps

03- Intensive Code-Camps: Fresh Graduates

"Learning with Flavors"

Intensive Code Camp (ICC) program provides a wide range of different tracks that are aligned with the Egyptian governorates' local identity as well as the relative market needs such as Textile Design in Mahalla, 3D Furniture Design in Damietta, Solar Power in Siwa, Web Development for Tourism in Aswan, Digital Marketing and e-Content in Hurghada and many more.

ICC is implemented in collaboration with the governorates training centers to capitalize on the existing infrastructure and reach out youth in rural areas.

Solar Power Program in Siwa

Textile Design Program in Mahalla

Web Development for Tourism Program in Aswan

3D Furniture Design Program in Damietta

04- Professional Training Scholarships: Overachieving Graduates

"Shaping technical and interpersonal skills for employability"

The program is offered as a full-fledged scholarship for selected Egyptian university graduates within five calendar years of their graduation. It acts as a catalyst to bridge the gap between the talent supply skills and the domestic, regional, and international market demands.
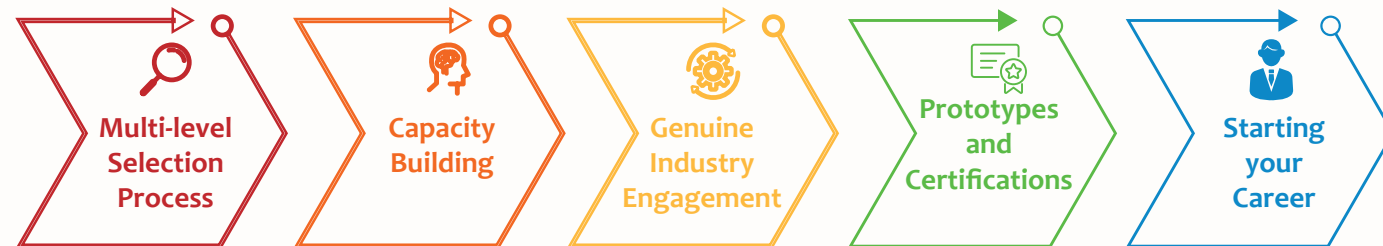
Collaborating with a rich network of industry partners, more than 32 various tracks; in which candidates join after a rigorous screening process for 8 weeks and 10% acceptance rate; were designed and updated in terms of target job profiles and ICT market competencies and serious, committed and passionate learners.

The program is delivered in a hybrid model that guarantees to create interns deeply passionate, committed and eager to become the best resilient leaders in their business bottom line.

Our close relationship with the industry helps securing our target of fulfilling the employment percentage for more than 95%. We are always keen to encourage them for acquiring relevant certificates, real freelancing jobs and solving one of the community problems.

9-Months Scholarship Learning Journey

Multi-level Selection Process	Capacity Building	Genuine Industry Engagement	Prototypes and Certifications	Starting your Career
Background criteria	Interns gain knowledge in:	Interns participate in:	Graduates are encouraged to practice what they learn through prototypes or real freelancing jobs and to acquire relevant certificates prior their graduations.	Starting your career in freelancing, remote working or classical jobs.
Self-based pre-work	Business knowledge	Workshops		
Aptitude & language	Technical knowledge	International hackthons		
Technical interviews	Life skills	Ideation camps		
Soft skills interviews	Language skills	Hiring Interviews		

AI TALENTS ACADEMY

https://ai.iti.gov.eg/

ITI started to empower interns through different initiatives with the needed skills to prepare the future AI specialists, programmers and developers. This is why we have launched the AI Talents Academy in partnership with industry key players to provide different training levels.

1 Google

In collaboration with google in a blended way from three levels, ITI started this initiative to solve real-life problems using machine learning at the beginner, intermediate and advanced levels to equip the next generation of Egyptian youth by the skills required to graduate professional ML developers.

2 EPITA
ÉCOLE D'INGÉNIEURS EN INFORMATIQUE

In cooperation with the French Graduate School of Computer Science and Advanced Technologies (EPITA), The ITI provides an online program in Artificial Intelligence (AI) for the Train the Trainers (TTT) in a flavor that mixes between theory and practices of AI in NLP and Computer Vision areas. This program is conducted remotely by AI experts from EPITA to certify qualified instructors that are engaged to deliver later the program for a duration of nine months to 1000 Egyptian fresh calibers.
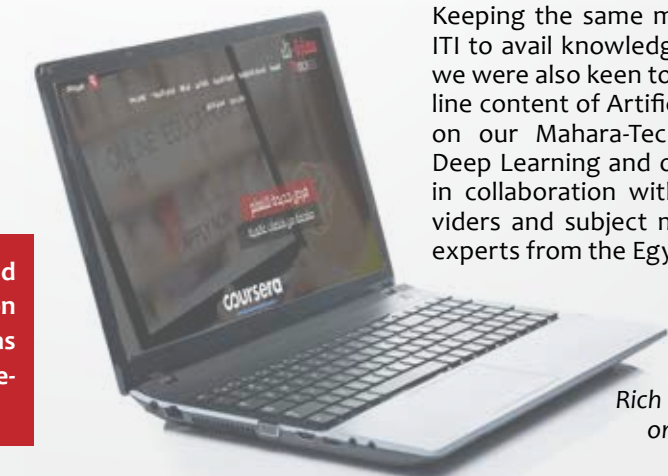
That was just a start and ITI will keep more and more to empower its network of collaboration with industry key players and to correlate AI as a discipline with different programs like Cybersecurity, Embedded Systems.

3 coursera

Keeping the same methodology of ITI to avail knowledge to everyone, we were also keen to provide an online content of Artificial Intelligence on our Mahara-Tech platform as Deep Learning and other programs in collaboration with content providers and subject matters leading experts from the Egyptian Industry.

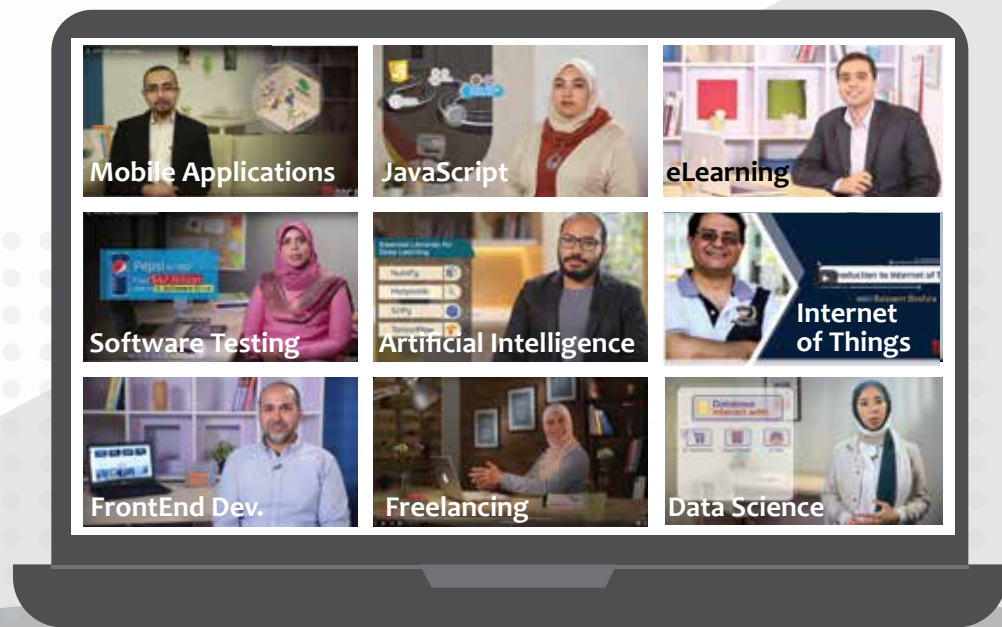*Rich repository of AI online content*

05- Outreach and Continuous Education
Lifelong Learning

Empowered by the digital revolution and transcending geographic boundaries, Mahara-Tech is a digital online platform for different learners and experts learning virtually anywhere anytime.

It provides a rich repository of content reaching out 100,000 learners after 2 months platform launching.

Mahara-Tech
maharatech.gov.eg

Latest **IT Trends** *at the tips of your fingers*

Mobile Applications | JavaScript | eLearning

Software Testing | Artificial Intelligence | Internet of Things

FrontEnd Dev. | Freelancing | Data Science

Expert Talks

Eng. M. Elrefaie
Artificial Intelligence

Dr. Amr Wassal
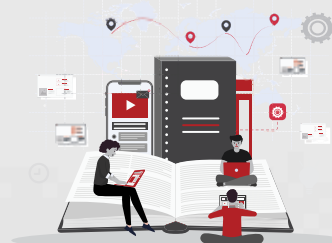Electronics

Eng. Ramy Eldamaty
CyberSecurity

Career Talks in collaboration with industry experts to raise awareness about different career specializations.

Arabic content empowering Arab and Egyptian youth to start their technical career.

Mahara-Tech
maharatech.gov.eg

2 | 1
3 | 4

Collaboration with **international content providers** to widen access to further rich content, like Coursera, Pluralsight, and others.

Collaboration with Industry players to avail **job opportunities** to young professionals in classical jobs , freelancing and remote working like Wuzzuf, Khamssaya, Mostakel , Vodafone Begin and others.

Casual Learning

"Connect, learn and showcase

Casual Learning through hackathons, competitions, workshops and events is a very vibrant channel and platform that empowers ITI to connect industry experts and different learners from the community to exchange their knowledge and expertise in a diversity of technological disciplines such as Gaming, Embedded Systems and Mobile Applications Development. This is why ITI is keen to conduct annually different types of casual learning in a way to spread an edutainment learning approach in an interesting and amusing way.

Game Development Academy

ITI established the Game Development Academy to position Egypt at the forefront of leading countries in Game Development industry worldwide by availing its knowledge to the community through conducting two annual hackathons and share gaming experiences and success stories.

Annual Game Hackathons

Annual Game Jam Hackathon

The ITI hosts this annual Hackathon, on the last weekend in January through the participation of all game developers in Egypt.

Received two Guinness World Records (2016, 2018)

Annual Run Double Jump Hackathon

This is a one-day event in which the best game in the showcase is selected by a jury and the team is nominated to showcase in one of international Indie Prizes- Game Daily Connect.

Annual Embedded and Electronics Hackathons

Annual Maker-Hackathon

Fabrication, Mechatronics and Embedded Systems Hackathon

Annually In February, ITI hosts the "Maker Hackathon" event, providing the best working space and cutting edge digital fabrication tools in ITI Maker Space lab under the guidance of ITI's technical team and technology experts. Winners of the best prototypes are offered prizes and additional support to turn their ideas into business.

Annual RoboCUP Junior Egypt

Embedded Systems and Engineering Junior Professionals Hackathon

Sponsored by MCIT and in collaboration with the Arab Academy for Science Technology and Maritime Transport (AASTMT), the Bibliotheca Alexandrina (BA) and Valeo, ITI hosts annually in March, RoboCup Junior Egypt hackathon that aimed to create the first robot football team to win the World Cup 2050.

Annual All Egypt Robot Sumo Tournament

International Robotics Tournament Worldwide

It is the official qualifier for the international All Japan Robot Sumo Tournament held by FUJITSO-Certified "NASA Robot Alliance". This tournament is organized at ITI headquarter, in Smart Village, Egypt where winning teams were qualified to participate in the international tournament held annually at Tokyo.

Annual Development Hackathons in Mobile and Data Science

Annual Mobile Developer Weekend

Mobile Development Hackathon

The event sheds the light on the latest applications, products, technologies, startups, business and opportunities in the mobile world. It provides the attendees with the opportunities to enroll in different hands-on interactive workshops and hackathons, join competitions, and win prizes.

Annual Data Science and Big Data Hackathon

Creating solutions for our nation's growing challenges using Egypt's wealth of big data

Using real data provided by the public sector, the participants with the mentorship of the private sector's technology gurus and pioneers and the feedback of the academic society representatives formulate dashboards and conclude results for every day's challenges.

Partnerships

We are always open to conduct partnership with Academia, Industry or with partners seeking to benefit from our experience in order to add values to our programs and community, exchange knowledge, keep ourselves always updated.

Industry Partnerships

Our relationship with the industry is a real partner relationship, not only a recruiting one. This partnership goes along interns' learning journey, starting from the preparation of different programs' design, passing by the interns' selection process, continuous update of the training programs' content and even during the training delivery by availing new initiatives design, contributing in continuous workshops and hackathons and ending by recruiting interns. This long lasting relation contributes to crowning our efforts in preparing better talents and achieving higher employability percentage.

Industry role has been encouraged and empowered through the newly designed initiative called "Wazeefa-Tech".

ITI in cooperation with National Telecommunications Institute (NTI) and the Ministry of Social Solidarity (MoSS) launched "Wazeefa - Tech" initiative, a mechanism to empower scaling of training services in which companies will be able to fulfill the youth hiring needs with a flow of qualified calibers at annual quarters.

Companies are responsible for selecting interns, providing the technical design of the program and recruiting interns at the end of the program with a one-year minimum duration of employment contracts.

The National Social Bank provides the cost of the training program that varies according to the track of choice through an interest-free loan, whereas the trainees shall pay the loan after their employment in installments up to three years with zero interest or extra fees.

UNIVERSITÄT PADERBORN

Academic Partnerships

ITI established a cooperation agreement with the prominent international Paderborn University, for the Professional Training Program (PTP) graduates in Embedded Systems and Mechatronics to achieve a Master degree in Computer Engineering .ITI also established cooperation along with various network with supreme council and faculties of Egyptian universities in private and governmental sectors.
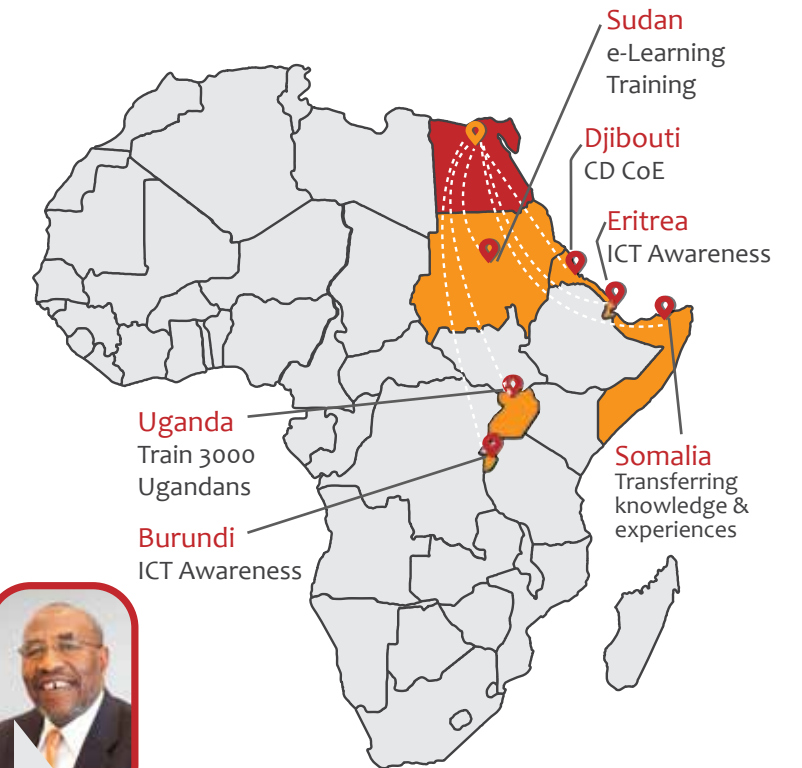
UBISOFT · vodafone · IBM · SAP
esri · SYNOPSYS · vmware · BARQ SYSTEMS
DELL EMC · teradata · Allianz ⑪
tableau · CIB · Valeo · iTS

Wazeefa Tech
Learn More, Pay Later

Neighborhood Partnerships

South to South Collaboration

Sharing our knowledge with partners in the African Continent is very important. Collaboration is done through the twining of one or more of our initiatives, customizing programs designed for trainers (TTT programs), providing consultation and building capacity initiative with specific KPIs relevant to the industry needs.

South-to-South cooperation profile involves extensive cooperation with several African countries including the **Republics of Somalia, Uganda, Djibouti, Eritrea, Sudan and Burundi.**

Sudan e-Learning Training
Djibouti CD CoE
Eritrea ICT Awareness
Uganda Train 3000 Ugandans
Burundi ICT Awareness
Somalia Transferring knowledge & experiences

"The fruitful cooperation with ITI emphasizes the strong historical ties between Egypt and Uganda. I wish to thank ITI for its successful role in the field of HCB for BPO cadres in Uganda."

Dr. Ruhakana Rugunda, Prime Minister of Uganda

Collaboration between ITI in Egypt and National Telecom Institute in Somalia through:

- Transferring knowledge and experiences in building capacities and gaining required ICT skills for better Somalia improvement areas .
- Exploring the opportunities of learning for jointly extending learning services through joint promotion of participation in experience sharing and staff exchange.

"ITI has a great role in the Egyptian human capacity building and development."

Dr. Ali H. Bahdon, Minister of Communication and Culture, Djibouti

IMPACT

Institutional Asset of Knowledge

Employability

Our accumulative experience for more than 25 years; reflected in our rich portfolio of programs, and empowered by the maturity of our different academies and platforms; enables us to build more and more community connections with the international, middle East and the African countries and mingling with different mentors to benefit from this valuable experience.

We are always open to keep dialogue with community to keep an eye on our learners' needs by providing technical and employment skills training, coaching and availing continuous consultation for the sustainable employment optimization through availing our content as a service through our programs, initiatives, hackathons and events.

Moreover, our assets are availed as a service represented in:

• **Content as a service:** a rich Arabic content through our online learning platform "mahara-Tech" and ;

• **Infrastructure as a service:** specialized learning environment through different supportive labs to leverage the value of development through availing infrastructure to be used by wider segment of people.

85% Annual Employment Rate

Behind thousands of our annual graduates, there are great success stories. It is not only limited to reach this annual employment rate but also reflecting this rate on great technological opportunities in local and international markets and creating more and more learners' hopes.
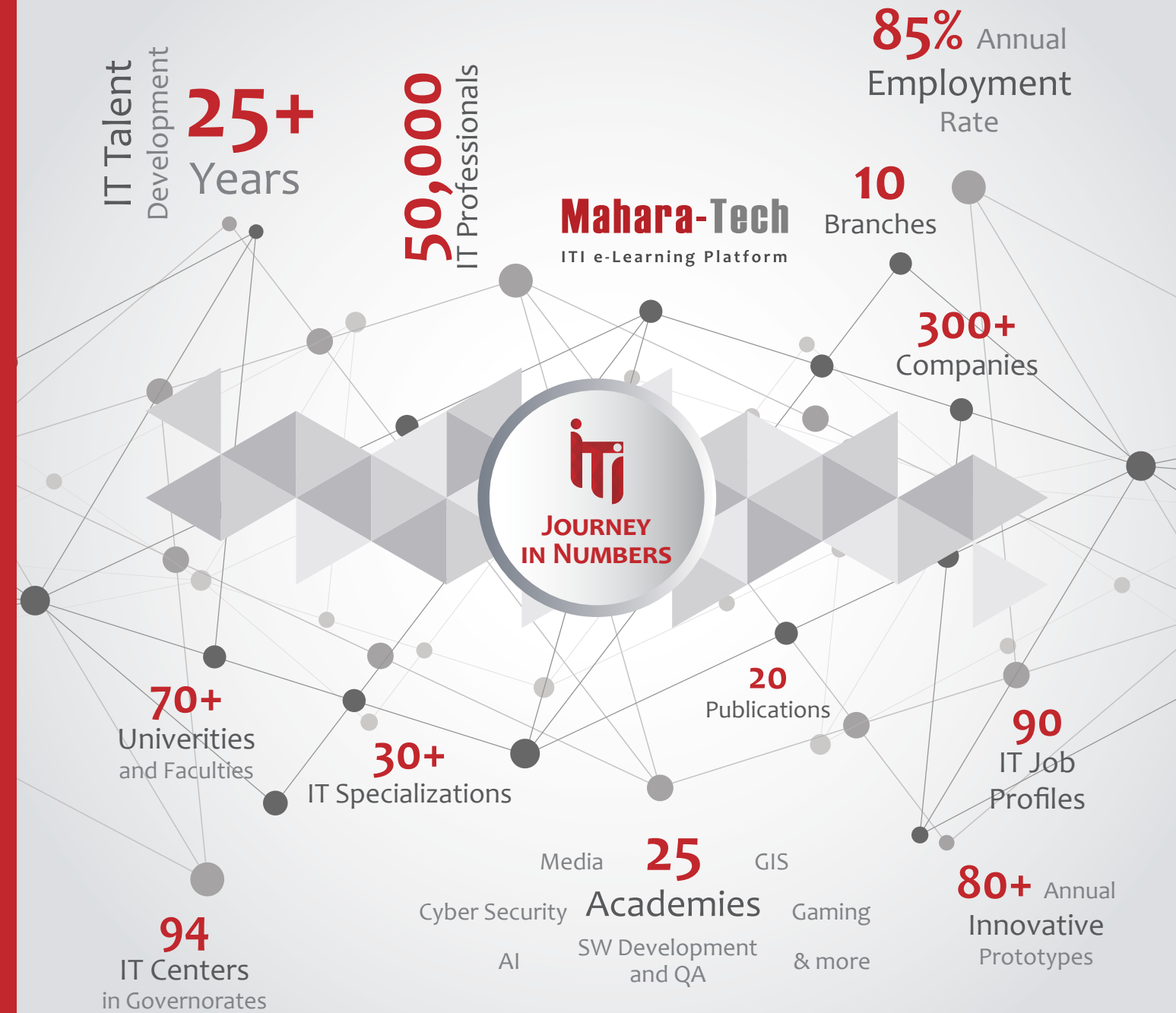
ITI Learning Environment

Content as a service

Infrastructure as a service

IT Talent Development

25+ Years

50,000 IT Professionals

Mahara-Tech
ITI e-Learning Platform

10 Branches

85% Annual Employment Rate

300+ Companies

iTi

JOURNEY IN NUMBERS

20 Publications

70+ Univerities and Faculties

30+ IT Specializations

90 IT Job Profiles

Media   **25**   GIS

Cyber Security   **Academies**   Gaming

94 IT Centers in Governorates

AI   SW Development and QA   & more

80+ Annual Innovative Prototypes

TESTIMONIALS

"The fruitful cooperation with ITI emphasizes the strong historical ties between Egypt and Uganda. I wish to thank ITI for its successful role in the field of HCB for BPO cadres in Uganda."

Dr. Ruhakana Rugunda, Prime Minister of Uganda

"I had the opportunity to talk to the ITI students; I can assure you that you have the most talented and well educated calibers, there is no doubt that your country will have a bright future."

Dr. John Kelly, Vice President Research, IBM

"Through your over two decades of experience, ITI has accumulated and developed significant experience and expertise in producing high quality development capacity programs. ITI is an institute that not only plays a critical role ICT capacity building in Egypt, that it carries over this mission very well, but also has the potential to do so much more in the future."

Dr. Howard Armitage, University of Waterloo

في لقائي مع مجموعة من الشباب الذين يمثلون عصب جهاز التدريس والبحث بمعهد تكنولوجيا المعلومات، كان بوسعي رصد العلاقة الرفيعة بين أساتذة وعميدتهم،الزمالة القائمة على التكامل وليس الرئيس والمرؤوسين،العمل الجماعي العلمي الذي يطبق ويطور أحدث علوم العصر، بل ويزيد الثقة بالمستقبل وبإمكانيات مصر، حيث تضيف العقول المصرية إلى العلم الحديث ولا تكتفي باستهلاكه . ومن هنا يبدأ التقدم العلمي .

الأستاذ جمال الغيطاني
الكاتب والروائي المصري العالمي

"The day to day cooperation between the ITI and the University of Paderborn works very smoothly and successfully. I'm very proud of our joint protocol that I consider the best we have in the region, I deeply appreciate your visionary power and your straight ahead mentality."

Prof. Dr. Jurgen Gausemeier, Paderborn University

معهد تكنولوجيا المعلومات مصر اللى عايزينها وبنحلم بيها

الريس أحمد
صياد وصاحب مركب

أكتر مكان هتحس إن كل الناس اللي فيه خايفة عليك وعلى مصلحتك وعايزاك أحسن من الأول

آلاء محمود
خريجة المعهد دفعة ٣٧

رحلة بنتعلم فيها أحدث التقنيات مش بس على يد أساتذة أجلاء متمكنين ، إنما أيضاً من أخطائك في المعامل والمشاريع . فرصة ذهبية لتكوين روابط قوية مع قيادات ورواد المستقبل في تقنية المعلومات .

تامر التونسي
مؤسس ومدير شركة التونسي
للإستثمارات

TESTIMONIALS

FOUNDERS

Dr. Nabil Elnady

Dr. Hisham Elsherif

Dr. Mohamed Salem

Dr. Nabil Said

The story of ITI is an **accumulative institutionalized knowledge story.**

The support of all founders and mentors was a huge push to reach its continuous story of success.

MENTORS AND SUPPORTERS

MINISTERS OF COMMUNICATIONS & INFORMATION TECHNOLOGY

Dr. Ahmed Nazif   Dr. Tarek Kamel   Dr. Magued Osman   Dr. Mohamed Salem

Dr. Hani Mahmoud   Dr. Atef Kamel   Dr. Yasser Elkady   Dr. Amr Talaat

"We are Growing
Younger"

✉ ITIinfo@iti.gov.eg
☎ +202 - 35355656
📍 28 Km Cairo / Alexandria Desert Road,
B148 smart village, Egypt