

Final Closure Report

2017 - 2021

EITESAL



Content

- About the cluster
 - Cluster Formation & overall objectives,
 - who are the members, target customers. etc...
 - > The infra structure put together (cowork space Fablab -...)
- Activities done over 5 years
 - Entrepreneurship Incubation
 - Venture Capital fund
 - > IOT & AI Challenge, including its evolution
 - Robotics
 - > Fanni Mobtaker
 - R&D Projects
- 5-Years in Numbers
 - Expenditure VS Budget
 - Contractual KPI's status
 - Community Reach



Content

- Assessment of cluster performance
 - ➤ GAP Analysis (over achievement vs failure) reasons and recommendation
 - ➤ Define business model (Management, governance, Budget sharing scheme, etc.
 - Business model drawbacks (risk analysis etc..)
- Recommendations how to move forward
 - New Business model structure
 - New activities if applicable
 - Proposed budget and sharing scheme.



Cluster Overview



Borg Al Arab cluster Closure Report



Historical Milestones

July 2016

ITIDA announced tender to establish Innovation Clusters in Borg Al Arab & New assuit

Nov. 2016 EiTESAL leading a consortium of 17 entities submitted a proposal finalized.

- 4 academin members
- 7 ICT companies
- 2 investment companies
- 4 innovation & consulting companies

2017

February 2017

Contract dated Jan. 1st was signed

April 2017

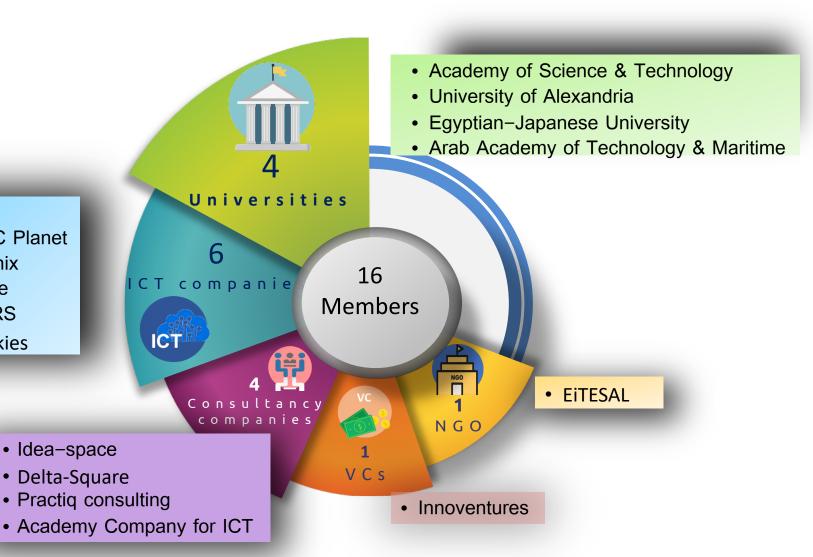
The Cluster started operation

2018 2019

4 companies left & 2 other participated



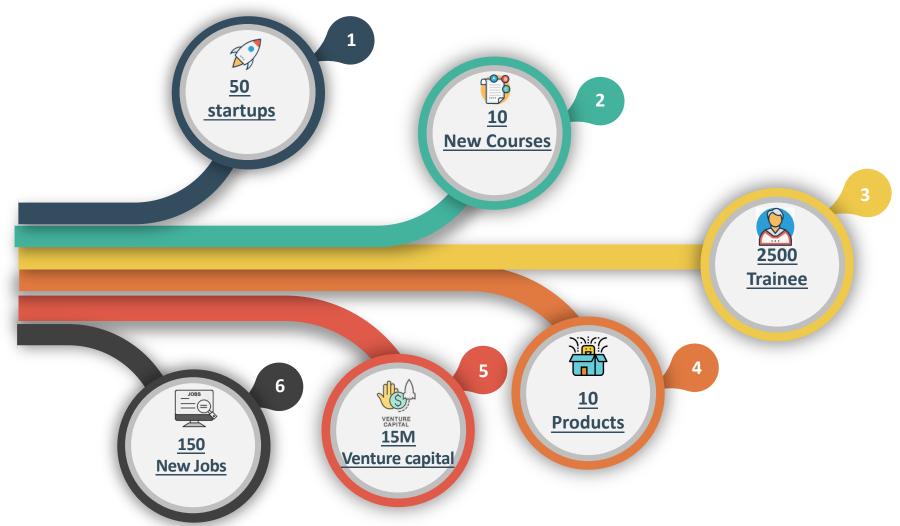
Current Cluster Members



- ITQAN
- New PC Planet
- Mentronix
- Si–Ware
- SMACRS
- Brightskies

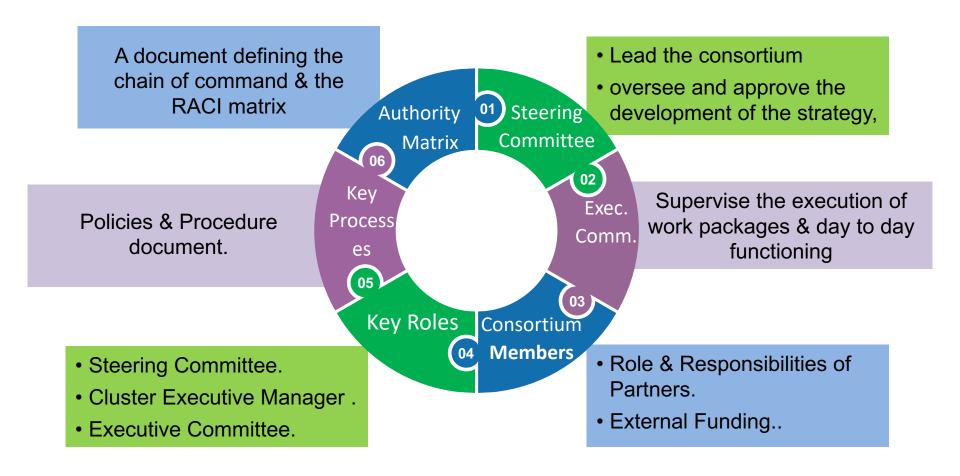


Contractual KPI's



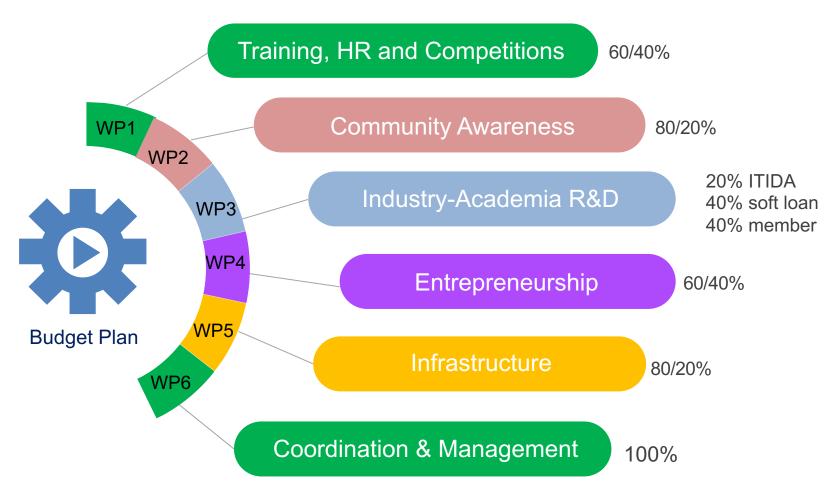


Cluster Governance Model



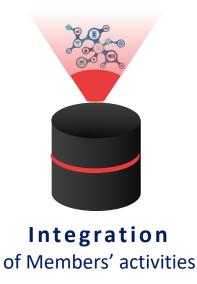


Work Packages & Cost Sharing





Cluster Methodology & Values





Implementing1-2 main projects including all members



Reaching
out to industrial & business
associations who are
interested in innovation



success stories that position the cluster & inspire others



Cluster Strategy Pillars

SOCIO ECONOMIC DEVELOPMENT

Attracting investments of the business sector of the cluster's geographical region

HUMAN DEVELOPMENT

Introducing new curricula for IOT education in the universities..



BUSINESS DEVELOPMENT

Establishment of labs for development, calibration, standardization and certification of products.

ENTREPRENEURSHIP DEVELOPMENT

Establish an incubator with a capacity of 10 companies, aiming to incubate 50 new startups companies within 5 years.



Cluster Facility Structure

2.23 M Infrastructure

437,000 Furniture

1.8 M Fab Lab





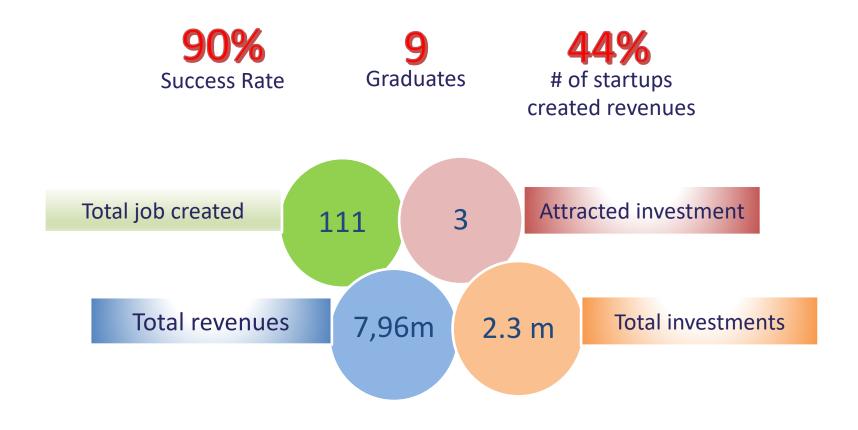


Entrepreneurship





Intake 1 Results





Startups Training Courses

Management Courses

- Business model canvas
- The Lean Startup
- Management for start-up
- Financial planning and Finance for Non-financials
- Customer Validation and personas mapping
- Market Validation and Research
- Sales Management + Auditing
- Marketing + Digital Marketing
- Legal Term Sheets & Contracts
- Strategic Management (2)
- Dealing with Investors

Technical Courses

- Product Design
- Software development life cycle + UI/UX essentials
- Digital Fabrication
- Design For Manufacturing
- Product Design Tips
- Pitching for entrepreneurs
- Dealing with Investors
- BCP Designs Tips



Incubation Success Stories







smart home solutions technology develops UX centric products. SEAVO provides green water entertainment and rescue.

Rafahia Tech smart home system to raise home luxury level.



Incubation Success Stories







iSchool is providing tech education for students ages 6 to 16 years

Renile provides
effective solutions
for environmental
services

city brain enables remote control of the public lighting power panels



Incubation Success Stories







QEYE improves
production quality in
agriculture, Food,
Textile industries

Lino is smart queue machine connected to mobile application.

S-WAT is a pioneer Solar and Wind technology company

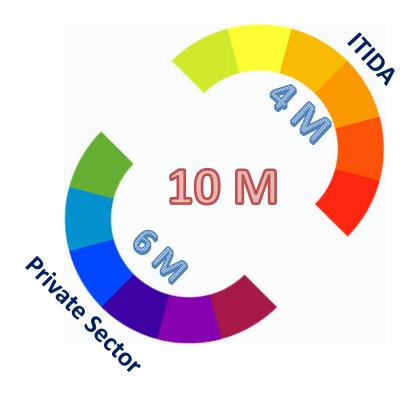


Startups Categories



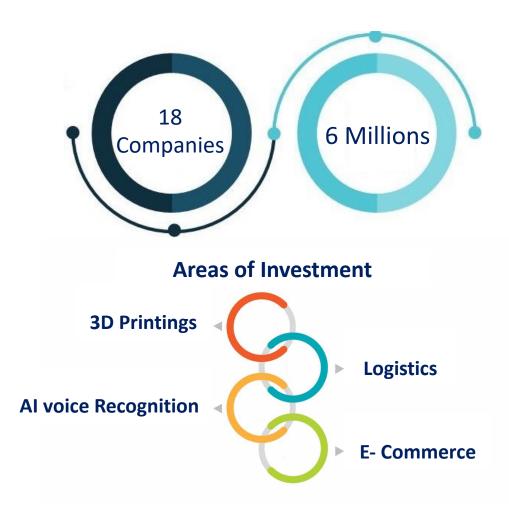


Innoventures Fund, SAE





Innoventures Fund, SAE





IoT Challenge















Part of the Africa IoT & AI Challenge.







2021



Egypt IoT Challenge & Al 5 Years outcome



266 Projects738 Students



303 Projects1060 Graduate Students



106 Startups381 Participants

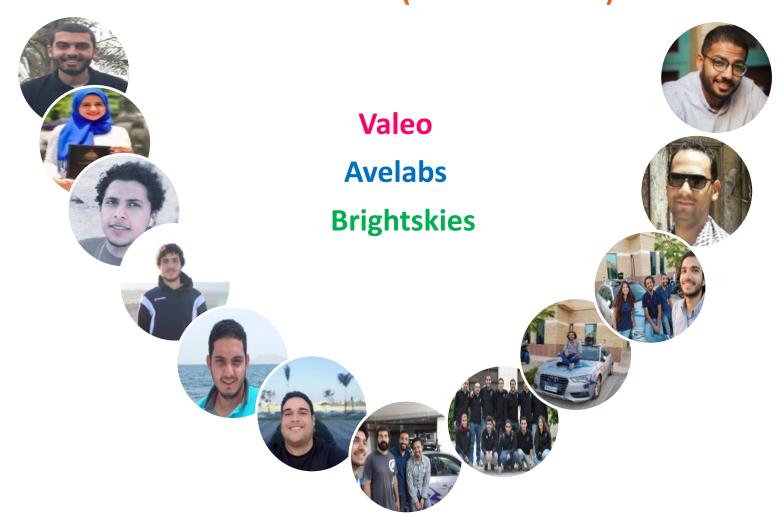


Egypt IoT Challenge

	16 -17	17-18	18-19	19-20	20-21
Graduation Projects		111	102	78	213
Startups	60	15	10	14	
High Schools			112	140	210
Governorates		17	14	16	21
Stem Schools					15
					د ح



New Jobs Created Success Stories (more than 750)



10/6/21



New Jobs Created Success Stories (more than 750)



Abd El Rahman Abo El kiher Dortmund University, Germany



Ahmed Hady, University of L'Aquila, Italy



Samer Abaza, Ruhr University, Germany



Ahmed Altawil Shenzhen, China



Ziad Hassan, Torino University, ItalyE



Mohamed elnahas Siemens Healthineers



Abdelhamid Kassem, Denemark



Mohanad Hamad Continental Company, Germany



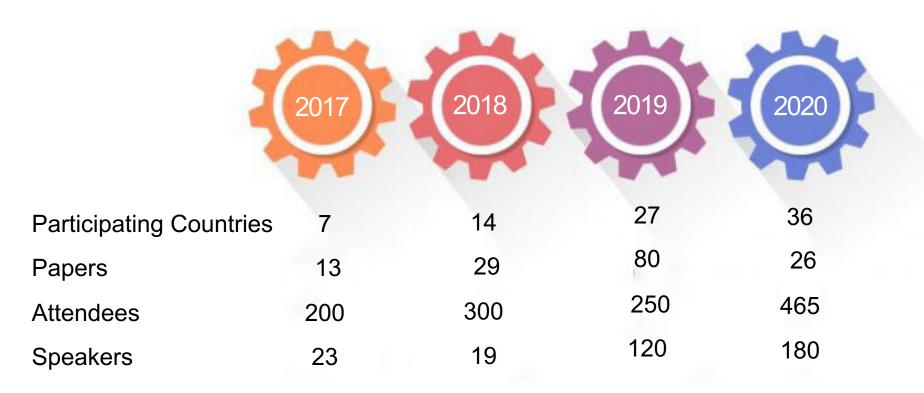
Ahmed El-Sayad ASML, Netherlands



Karim Yehya, University of L'Aquila, Italy

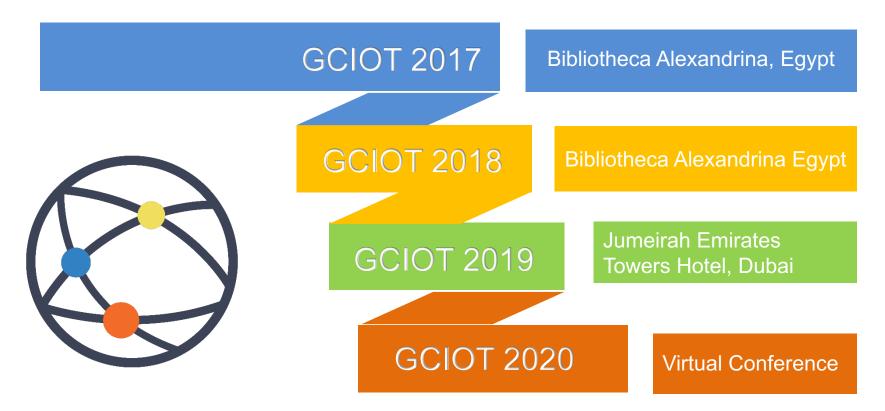


GCIOT Facts & Statistics













Organizing Partners









Strategic Partners











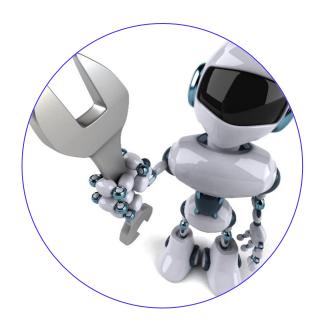


Global Conference on IoT & Al





Robotics



Borg Al Arab cluster Closure Report



Egypt ROV Competitions



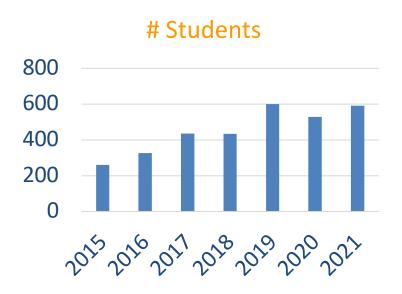
67 Teams
465 Students

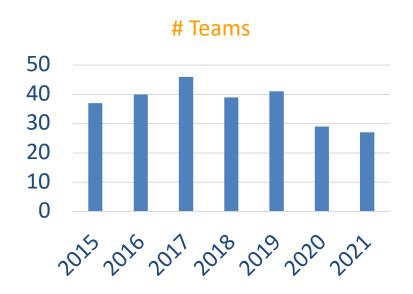


146 Teams1168 Students



Robotics Statistics









Excite, Educate, Empower: Students Engineering Solutions to Global Problems

3100

115

6

Participants

Universities & Schools

Countries

Egyptian Teams awarded





2021

1st & 3rd places

2nd & 3rd places



2nd place



AQUA PHOTON



Organizers & Partners









Alamein Robotics Championship



Organizers









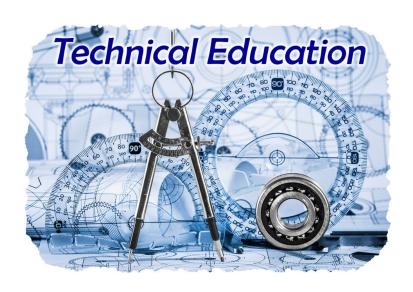
Competitions













This is the first time that the technical education was integrated in the innovation & entrpreneurship ecosystem



Fanni Mobtaker is a national competition covering 12 governorates



Started in Borg Al Arab Innovation Cluster in 2019





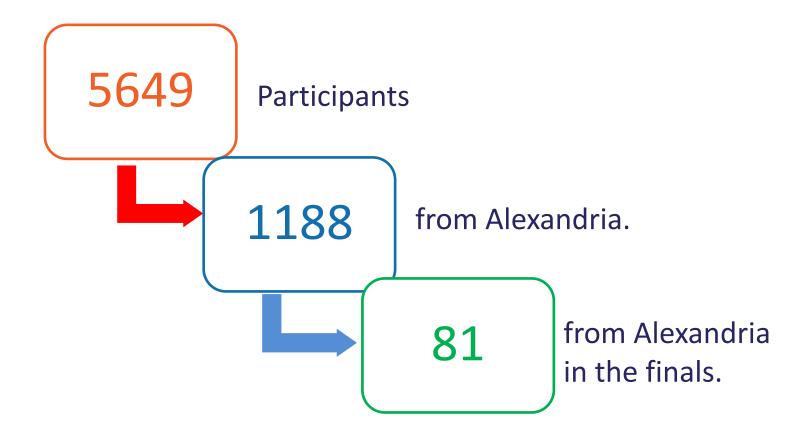






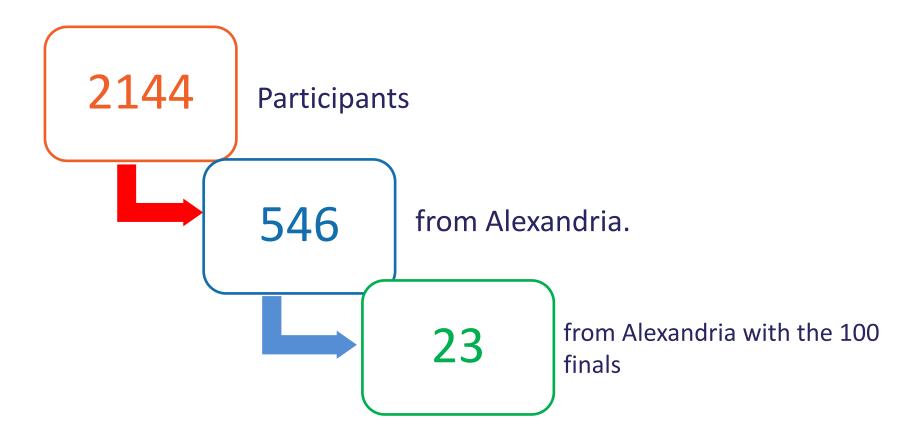


Students' statistics

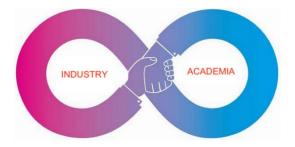




Projects' statistics









CANTrack Tool

CANTrack is a Windows-based development and testing software tool for automotive manufacturers.







IoT based- Infection Prevention System

Reducing HealthCare-associated Infection by enforcing Hand Sanitization as The Main Cause of HAI is the Hand Pollution









❖ Si Ware - NeoSpectra Food Analyzer

Design and implement a working prototype for a food analyzer, Focus on a major food item: Milk.







❖ SMERTEGE Adaptive Learning Management System

SMERTEGE uses the Bio sensors, machine learning, and cognitive science customize course content presentation to each learner's profile and real time status.









Augmented reality human 3D pose estimation for e-commerce applications.

R&D project for automated machine-made construction of an object's 3D model out of one or more images and/or videos of the object







❖ IoT based- Infection Prevention System

Improve on an existing prototype with filed patent technology to enhance its real time localization ability (RTLS)









❖ Construction of 3D models of objects out of its 2D images and videos

Automated machine-made construction of an object's 3D model out of one
or more images and/or videos of the object.









5-Years in Numbers





WPs' Expenditure

		Planned	Actual	Percentage	Member's Share
WP1	Training, HR and Competitions	4.5 M	4.5 M	100%	3.4M
WP2	Building Community Awareness	1.8 M	1.8 M	99%	94M
WP3	Industry-Academia R&D	7.2 M	4.5 M	63%	3.7M
WP4	Entrepreneurship	5.4 M	5.4 M	100%	4.8M
WP5	Infrastructure	3.6 M	3.6 M	100%	1.M
WP6	Coordination and Management	2.2 M	1.6 M	72%	====
	Total	25 M	21.6 M	86%	14M



Contractual KPI's





Community Reach



10/6/21



Performance Analysis





Analysis of the performance

- ❖ The Cluster was designed on 2016 for EGP25m funding, but with the currency floating the purchase power was decreased about 60%. That affected the dream.
- The Cluster took the first year to establish the premises, design the policies & procedures. It was not effective in performance.
- The business concept was that cluster partners will use ITIDA fund in growing their business delivering activities they are excelling. Members were obliged to share 40% of the budget from their own money. In fact business growth is not a matter of fund only.
- Activities were suggested based on the members' business interests rather than within strategic frame.
- The funding mechanism of startups seed fund was hindering progress, bearing in mind it is was governmental money



Analysis of the performance

- The R&D didn't succeed for two reasons:
 - ➤ The allocated budget was not enough to create new product unless the industrial partner has already started development.
 - ➤ The Cluster didn't have enough marketing power to promote new products
 - New products need enough time to be reached
 - > ITAC funding is more appealing to the industry
- The management framework was based on the concept of group control. The members who benefit are those who deliver the service and decide the plan.
- Management cost paid the coordinator was not properly calculated.
- ❖ The settlement of fund was a complicated process for EITESAL since the members are SME's whose internal administration is not rigorious.



Thank you