

# **Business incubators at Ministry of Youth and Sports and their impact on Entrepreneurial Projects to support the National Economy Regarding Egypt Vision 2030**

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## **Research Problem and Importance:**

Under the current economic dynamism witnessed by the world, and the increasing attitude towards economic and social development, business incubators represent the environment supporting establishment and growth of entrepreneurial projects,

**Alaa Elgharabawy et al (2018)** indicate that the Egyptian trial of incubators began by establishing business incubators Egyptian association via a businessmen gentry, some former ministers and experts of establishing and managing successful companies. (4: 329, 344)

Under the current economic dynamism witnessed by the world, and the increasing attitude towards economic and social development, business incubators represent the environment supporting establishment and growth of entrepreneurial projects,

**Mark long (2019), Joffy George (2017), Adnan Hussein, Raed Khedr Abbas (2014), Amr Alaa Zidan (2007)** agreed upon defining business incubators as an entity hosts new projects till reaching maturity and stability stage, as well as rendering all services, facilities, consultations and financial support to these incubators related persons. (32: 10), (29: 7), (2: 62), (5: 110)

**Ahmed Ibn Abdelrahman Elshamimry, Sorour Aly Ibrahim Sorour (2014), Corinne Colbert (2010)** agreed upon that incubators establishment objectives are as follows:

- Availing business environment suitable for new business growth in the first stages.
- Assisting graduates to find job opportunities.
- Converting scientific researches to marketable economic products.
- Achieving the principle of social development via community's members economic development (26 : 47), (3 : 21)

**Louis G Tornatzky et al (2003)** Indicate stages of developing business incubators as per support rendered to the incubated projects:

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**First generation:** Focuses on infrastructure and capital of incubated projects.

**Second generation:** Focuses on invention and employing technology for projects.

**Third generation:** Focuses on consultation services and entrepreneurs' technical course. (31: 40)

**Osama Ibn Sadik et al (2006)** indicate that business incubators are an important tool for supporting entrepreneurial projects. (18: 3)

**George Watt (2018), Otto Chui (2018) Sameer Khandekar (2017)** define entrepreneurial project as producing new creative ideas whose creative, independent values, and sharp Vision enabling to select market available opportunities to activate their ideas and establish their projects. (28 : 34), (33 : 136), (34 : 23)

**Dieter Bögenhold et al (2016), Jobe Leonard (2014) identify the entrepreneurial project's dimensions:**

Proactive procedures, bearing risks, creation and innovation, seizing opportunities (27: 117), (30: 36)

Minister of planning and economic development confirms the importance of establishing more business incubators, also minister of youth and sports indicates that business incubators projects represent a new starting point in the field of entrepreneurship to enable youth to make entrepreneurial projects useful for executing permanent development plan mechanisms 2030.

(35: 1), (36: 2), (37: 1), (38: 4), (24: 7)

The researcher reached the research problem depending on world youth forums activities under the president's sponsorship, and his support to project "Rowad 2030" aiming at promoting the idea of self employment of entrepreneurship among youth.

Also the researcher held **an open interVision** with consultant of minister of youth and sports for entrepreneurship to identify the fact of the ministry's business incubators, as the answer was that (10) business incubators related to ministry of youth and sports will be established.

And also through looking into results of many literature such as results of study of **Hassan Ahmed Elshafaey et al (2017) (8), Mahmoud Nehmedo Aly (2016) (16), Abdelmawgoud Abdalla, Kossay Sary Aref (2016) (1), Hussein Farag Elshtewy (2015) (11), Soha Hamzawy (2008) (25)** confirming that entrepreneurial projects are able to develop Egyptian economy and increase rates of economic development.

As study of **Ghada Ibrahim Hanafy (2017) (13)** recommends using local competences through establishing entrepreneurial projects contributing to developing permanent development.

As this made the researcher carry out this research titled:

**Business Incubators at Ministry of Youth and Sports and their Effect on Entrepreneurial Projects to Support National Economy in the Light of Egypt's Vision 2030**

**Research Objective:**

**The research aims at identifying:**

- The fact of business incubators at ministry of youth and sports.
- Characteristics of entrepreneurial projects in enhancing entrepreneurship culture.
- The role business incubators and entrepreneurial projects in supporting national economy.

**Research Procedures:**

**Research Method:** using survey descriptive method as suitable for the research nature.

**Research Community and Sample:**

The research community was selected deliberately for consultant of minister of youth and sports for entrepreneurship; assistant and adjutants of minister of youth and sports; members of technical office and all members of central department of projects and youth training.

**Table (1) Numerical Description of the Research Total Sample and Sample of Codifying the Questionnaire Form and the Main Sample**

Administrative Levels	Total Sample		Sample of Codifying the Questionnaire Form		The Main Sample	
	Number	Percentage %	Number	Percentage %	Number	Percentage %
Supreme and Middle Department	17	42.5 %	3	17.64 %	14	82.35 %
Executive Department	23	57.5 %	5	21.73 %	18	78.26 %
<b>Total</b>	<b>40</b>	<b>100</b>	<b>8</b>	<b>20 %</b>	<b>32</b>	<b>80 %</b>

From table number (1) it is clear that the total main research sample (32) subjects of the total research sample totaling (40) subjects with percentage (80%) of the total sample.

**Data collection Tools:**

- Questionnaire form compiled by the researcher.

**Scientific coefficient of questionnaire form:**

**1- Validity of internal consistency of questionnaire form statements.**

**Table (2) Coefficients of Correlation between every Statement and its Dimensions and the First Factor's Degree and every Statement and the Total Degree of the Questionnaire**

(N=8)

Coefficients of correlation of the first factor's statement: the fact of business incubators at ministry of youth and sports							
Coefficients of correlation of the first factor statements: motives of establishing business incubators				Coefficients of correlation of the second dimension statement: business incubators mechanisms			
S	With the first dimension	With the second factor	With the whole degree	S	With the second dimension	With the second factor	With the whole degree
1	0.787	0.752	0.787	14/4	0.752	0.804	0.812
2	0.852	0.768	0.812	15/1	0.785	0.759	0.845
3	0.767	0.822	0.787	15/2	0.755	0.809	0.795
4	0.800	0.800	0.760	16	0.787	0.797	0.787
5	0.899	0.832	0.859	17	0.861	0.789	0.821
6/1	0.746	0.835	0.794	18/1	0.804	0.804	0.864
6/2	0.847	0.792	0.807	18/2	0.840	0.879	0.790
6/3	0.772	0.828	0.782	18/3	0.871	0.847	0.831
6/4	0.853	0.770	0.813	18/4	0.804	0.796	0.864
7	0.868	0.825	0.828	19/1	0.855	0.882	0.815
Coefficients of correlation of the second dimension statements: business incubators mechanisms				19/2	0.796	0.811	0.796
8	0.825	0.877	0.885	20	0.750	0.791	0.810
9	0.828	0.801	0.788	21	0.875	0.765	0.835
10	0.837	0.791	0.797	22	0.792	0.892	0.782
11	0.850	0.877	0.810	23	0.898	0.843	0.858
12/1	0.791	0.890	0.771	24	0.774	0.797	0.794
12/2	0.808	0.866	0.868	25	0.719	0.813	0.791
12/3	0.825	0.877	0.885	26	0.891	0.816	0.851
13/1	0.867	0.824	0.827	27/1	0.867	0.779	0.827
13/2	0.754	0.775	0.814	27/2	0.823	0.792	0.783
14/1	0.775	0.852	0.835	27/3	0.797	0.814	0.797
14/2	0.849	0.775	0.799	27/4	0.822	0.779	0.782
14/3	0.867	0.784	0.797	28	0.857	0.800	0.817

Spearman tabular correlation coefficient = 0.738

**Table (3) Coefficient of Correlation between the Statements and the Second and the Third Factors and the Total Degree and every Statement and the Whole Questionnaire Degree**

(N=8)

Coefficients of correlation of the second factor's statement: the role of ministry of youth and sports in enhancing culture of entrepreneurship			Coefficients of correlation of the third factor's statement: the role of business incubators and entrepreneurial projects in supporting national economy in the light of Egypt's Vision 2030		
S	With the second factor	With the whole degree	S	With the second factor	With the whole degree
29/1	0.784	0.794	31/1	0.846	0.881
29/2	0.809	0.780	31/2	0.859	0.857
29/3	0.777	0.861	32/3	0.822	0.813
29/4	0.856	0.794	32	0.844	0.787
29/5	0.812	0.845	33/1	0.809	0.812
29/6	0.841	0.786	33/2	0.830	0.787
30/1	0.841	0.790	33/3	0.822	0.796
30/2	0.795	0.865	33/4	0.831	0.793
30/3	0.792	0.812	44/5	0.805	0.810
30/4	0.873	0.788	33/6	0.817	0.776
30/5	0.827	0.764			
30/6	0.793	0.781			

Spearman tabular correlation coefficient = 0.738

From table (2), (3) there is a statistical significant correlation at significance level (0.05) between the degree of every statement and the total degree of the questionnaire to confirm the questionnaire internal consistency validity.

### **Second: Reliability**

**Table (4) Questionnaire Reliability by Half Split and Chorombach's Alpha Method**

Factors and Dimensions	Half Split		Cronbach's Alpha
	Spearman Brown	Gitman	
First factor: the fact of business incubators at ministry of youth and sports	0.781	0.722	0.798
First dimension: motives of establishing business incubators.	0.725	0.785	0.741
Second dimension: business incubators mechanisms	0.828	0.792	0.785
Second factor: the role of ministry of youth and sports in enhancing culture of entrepreneurship	0.720	0.747	0.864
Third factor: the role of business incubators and entrepreneurial projects in supporting national economy in the light of Egypt's Vision 2030	0.880	0.801	0.840
Total questionnaire degree	0.771	0.847	0.871

From table (4) it is clear that reliability coefficient by half split ranged between (0.720) and (0.880) and Chorombach's Alpha reliability coefficient ranged between (0.741) and (0.871) to prove that the researched questionnaire has a high reliability coefficient

### **Statistical Treatments:**

Repetition and percentage, Pearson order correlation coefficient, spear brown and Gitman half split, Chorombach's Alpha reliability coefficient, outweighed percentage, outweighed arithmetic mean,  $\chi^2$  for independent samples (Cross Tabulation),  $\chi^2$  for one sample (Chi Square Goodness of Fit Test)

### **Research Results Discussion:**

**Table (5) Results of Repetitions, Percentages and ( $Ca^2$ ) on the First Factor:  
The Fact of Business Incubators at Ministry of Sports and Youth – the First  
Dimension: Motives of Establishing Business Incubators**

**(Supreme and Middle Department=14) (Executive Department =18)(Total Sample = 32)**

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
1	Promoting culture of entrepreneurship, self employment and developing youth skills for managing projects of the sports field	Supreme and middle	12	2	92.86	4	1.86	Agreeing	0.84
		Executive	13	5	86.11	4	1.72	Agreeing	
		Total sample	25	7	89.06	4	1.78	Agreeing	
2	Incubating projects to invest creative ideas in the sports field and applying the same in conformity with the market requirement	Supreme and middle	11	3	89.29	6	1.79	Agreeing	0.17
		Executive	13	5	86.11	4	1.72	Agreeing	
		Total sample	24	8	87.5	5	1.75	Agreeing	
3	Availing an investment work Environment to facilitate administrative, financial and consultative works for entrepreneurs	Supreme and middle	14	0	100	1	2	Agreeing	2.57
		Executive	15	3	91.67	1	1.83	Agreeing	
		Total sample	29	3	95.31	1	1.91	Agreeing	
4	Investing new projects for an enough period which may exceed the establishment stage	Supreme and middle	13	1	96.43	2	1.93	Agreeing	1.36
		Executive	14	4	88.89	2	1.78	Agreeing	
		Total sample	27	5	92.19	2	1.84	Agreeing	
5	Investing in scientific research to encourage researchers to focus on applied researches and converting them to practical stage to contribute to economic development.	Supreme and middle	12	2	92.86	4	1.86	Agreeing	3.33
		Executive	10	8	77.78	10	1.56	Agreeing	
		Total sample	22	10	84.38	8	1.69	Agreeing	
6	<b>Availing networks to link research organizations to other sectors to support incubated projects:</b>								
6/1	Industrial and service companies	Supreme and middle	9	5	82.14	10	1.64	Agreeing	0.02
		Executive	12	6	83.33	7	1.67	Agreeing	
		Total sample	21	11	82.81	9	1.66	Agreeing	
6/2	Business men and investors	Supreme and middle	10	4	85.71	9	1.71	Agreeing	0.37
		Executive	11	7	80.56	9	1.61	Agreeing	
		Total sample	21	11	82.81	9	1.66	Agreeing	
6/3	Banks and economic organizations	Supreme and middle	11	3	89.29	6	1.79	Agreeing	0.17
		Executive	13	5	86.11	4	1.72	Agreeing	
		Total sample	24	8	87.5	5	1.75	Agreeing	
6/4	Ministries and governmental authorities	Supreme and middle	13	1	96.43	2	1.93	Agreeing	1.36
		Executive	14	4	88.89	2	1.78	Agreeing	
		Total sample	27	5	92.19	2	1.84	Agreeing	
7	Corresponding media , organizing seminars and conferences to identify incubators and their objectives	Supreme and middle	11	3	89.29	6	1.79	Agreeing	0.55
		Executive	12	6	83.33	7	1.67	Agreeing	
		Total sample	23	9	85.94	7	1.72	Agreeing	

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$ , outweighed arithmetic mean: disagreeing (1: 1.5), agreeing (2: 1.6)

From table number (5) , there are no statistical significant difference between both research sample groups about all statements of the first dimensions as the value of the calculated  $Ca^2$  was less than its tabular value at level (0.05) and ranged between (0.02 : 3.33) with an outweighed percentage between (82.81: 95.31) in the agreement direction.

According to the total research sample's opinion, statements number (3 , 4 , 6/4 , 1) topped their opinions with an outweighed percentage between (89.06 : 95.31) indicating

availability of an investment environment setting to facilitate administrative work for entrepreneurs, investing new projects, availing networks to link research organization to other sectors to support incubated projects.

Results of study of **Hussein Alian Elharamsha (2014) (10)** indicate that business incubator provide more services and facilities and that business incubators play a role in finding and develop entrepreneurial projects.

As statements number (5, 6/1, 6/2) took the last place with an outweighed percentage (84.38, 82.81) that investment in scientific research encourages researchers to carry out applied researches and converting them to a practical application stage to contribute to economic development.

Results of study of **Khalid Salah Hanafy Mahmoud (2016) (14), Anwar Ahmed Elazam (2009) (6)** agreed upon that business incubators are units of scientific and technological support in cooperation with universities and research centers aiming at profiting from scientific research and technological inventions and converting the same to successful projects.

**Table (6) Results of Repetitions, Percentages and (Ca<sup>2</sup>) on the First Factor: The Fact of Business Incubators at Ministry of Youth and Sports - Second Dimension: Mechanisms of Making Business Incubators (1- Administrative Aspects)**

(Supreme and Middle Department = 14) (Executive Department =18) (Total Sample = 32)

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
8	Establishing a qualified administrative and technical team to provide advice and guide	Supreme and middle	13	1	96.43	2	1.93	Agreeing	0.65
		Executive	15	3	91.67	2	1.83	Agreeing	
		Total sample	28	4	93.75	1	1.88	Agreeing	
9	Compiling strategic plans for the incubated entrepreneurial project and enforcing them	Supreme and middle	14	0	100	1	2	Agreeing	3.56
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	28	4	93.75	1	1.88	Agreeing	
10	Providing effective programs to promote culture of entrepreneurship via holding exhibitions and seminars to discuss some entrepreneurs' experiences	Supreme and middle	10	4	85.71	12	1.71	Agreeing	0.08
		Executive	12	6	83.33	13	1.67	Agreeing	
		Total sample	22	10	84.38	13	1.69	Agreeing	
11	Availing technical and financial support to accelerate entrepreneurial projects beginning	Supreme and middle	12	2	92.86	6	1.86	Agreeing	0.07
		Executive	16	2	94.44	1	1.89	Agreeing	
		Total sample	28	4	93.75	1	1.88	Agreeing	
12	Compiling norms of accepting entrepreneurial projects in terms of								
12/1	Creating new job opportunities	Supreme and middle	10	4	85.71	12	1.71	Agreeing	0.17
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	24	8	87.5	11	1.75	Agreeing	
12/2	Employers' financial return	Supreme and middle	11	3	89.29	10	1.79	Agreeing	0.17
		Executive	13	5	86.11	11	1.72	Agreeing	
		Total sample	24	8	87.5	11	1.75	Agreeing	
12/3	The project's contribution to increase the state national income	Supreme and middle	12	2	92.86	6	1.86	Agreeing	0.03
		Executive	15	3	91.67	2	1.83	Agreeing	
		Total sample	27	5	92.19	5	1.84	Agreeing	
13	Assisting the incubated projects to:								
13/1	Developing and evaluating and identifying training needs of their employees	Supreme and middle	13	1	96.43	2	1.93	Agreeing	0.65
		Executive	15	3	91.67	2	1.83	Agreeing	
		Total sample	28	4	93.75	1	1.88	Agreeing	
13/2	Improving and developing their productive operations and evaluating their organizational performance completely	Supreme and middle	12	2	92.86	6	1.86	Agreeing	0.84
		Executive	13	5	86.11	11	1.72	Agreeing	
		Total sample	25	7	89.06	9	1.78	Agreeing	
14	Designing an informational system for								
14/1	Employees	Supreme and middle	13	1	96.43	2	1.93	Agreeing	1.36
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	27	5	92.19	5	1.84	Agreeing	
14/2	Suppliers	Supreme and middle	9	5	82.14	16	1.64	Agreeing	1.24
		Executive	8	10	72.22	17	1.44	Agreeing	
		Total sample	17	15	76.56	17	1.53	Agreeing	
14/3	Beneficiaries	Supreme and middle	10	4	85.71	12	1.71	Agreeing	0.85
		Executive	10	8	77.78	15	1.56	Agreeing	
		Total sample	20	12	81.25	14	1.63	Agreeing	
14/4	Competitive projects	Supreme and middle	10	4	85.71	12	1.71	Agreeing	1.5
		Executive	9	9	75	16	1.5	Agreeing	
		Total sample	19	13	79.69	16	1.59	Agreeing	
15	Following up and evaluating the incubated projects								
15/1	Regularly	Supreme and middle	13	1	96.43	2	1.93	Agreeing	1.36
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	27	5	92.19	5	1.84	Agreeing	

15/2	After incubation	Supreme and middle	9	5	82.14	16	1.64	Agreeing	0.03
		Executive	11	7	80.56	14	1.61	Agreeing	
		Total sample	20	12	81.25	14	1.63	Agreeing	2
16	Taking the incubated project's corrective procedures as per evaluation results	Supreme and middle	11	3	89.29	10	1.79	Agreeing	0
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	25	7	89.06	9	1.78	Agreeing	10.13
17	Identifying strong points of the incubated projects to support, and weak points to overcome	Supreme and middle	12	2	92.86	6	1.86	Agreeing	0.33
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	26	6	90.63	8	1.81	Agreeing	12.5

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Weights outweighed arithmetic mean: disagreeing (1: 1.5), agreeing (2: 1.6)

From table number (6), there are no statistical significant difference between the responses of the research samples groups, as the calculated  $Ca^2$  was less than its tabular value at level (0.05) and ranged between (0 : 3.56), with outweighed percentage between (76.56 : 93.56) in the agreement direction.

According to the total research sample opinions, statements number (8, 9, 11, and 13/1) topped their opinions with an outweighed percentage (93.75) indicating establishing a high qualified administrative and technical team to provide advice and guide, compiling strategies of the incubated entrepreneurial project.

**Results of study of Khalid Salah (2016) (14), Mona Radwan Elnakhala (2012) (19)** indicate that business incubators avail the suitable environment of establishing and executing entrepreneurial projects, as statements number (14/2 / 14/4 , 15/2) took the last place with an outweighed percentage (76.56, 81.25) upon that designing an information system, following up and evaluating the incubated project after incubation. Results of study of **Hayat Bakirat (2017) (9), Rima Mohamed (2005) (22)** indicate that business incubators contributes to preparing programs of evaluating and following up the incubated project.

**Table (7) Results of Repetitions, Percentages and ( $Ca^2$ ) on the First Factor: The Fact of Business Incubators, Ministry of Youth and Sports – the Second Factor: Business Incubators Mechanism (B– Legal Aspects)**

**(Supreme and Middle Department = 14) (Executive Department= 18)(Total Sample = 32)**

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
<b>18</b>	<b>Business incubators provide legal support to incubated projects via availing the following:</b>								
18/1	Legal services for establishing and managing incubated projects	Supreme and middle	12	2	92.86	1	1.86	Agreeing	0.03
		Executive	15	3	91.67	1	1.83	Agreeing	
		Total sample	27	5	92.19	1	1.84	Agreeing	15.13
18/2	Information about tax laws to which the incubated projects are subject	Supreme and middle	9	5	82.14	2	1.64	Agreeing	0.02
		Executive	12	6	83.33	2	1.67	Agreeing	
		Total sample	21	11	82.81	2	1.66	Agreeing	3.13
18/3	Programs of awareness of legal updates	Supreme and middle	8	6	78.57	3	1.57	Agreeing	0.3
		Executive	12	6	83.33	2	1.67	Agreeing	
		Total sample	20	12	81.25	3	1.63	Agreeing	2
18/4	Intellectual property rights protection mechanisms	Supreme and middle	7	7	75	4	1.5	Agreeing	0.1
		Executive	10	8	77.78	4	1.56	Agreeing	
		Total sample	17	15	76.56	4	1.53	Agreeing	0.13

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Arithmetic mean outweighed by weight: disagreeing (1: 1.5), agreeing (2: 1.6)

From table number(7), there are no statistical significant difference between responses of the research sample groups, as the calculated ( $Ca^2$ ) is less than its tabular value at level (0.05) and ranged between (0.02 : 0.30), with an outweighed percentage between (76.56 : 92.19) in the agreement direction.

According to the total research sample's opinion, the statements order were as follows (18/1 , 18/2 , 18/3, 18/4) to indicate that business incubators provide legal support to the incubated projects, information about tax laws to which the incubated projects are subject and legal updates awareness programs.

**Results of study of Malden Elkayal (2017) (17), Rond Khalid (2015) (23) prove that business incubators play an important role in informing about legal requirements related to establishing the project as well as tax legislations related to the incubated project.**

**Table (8) Results of Repetitions, Percentages and ( $Ca^2$ ) on the First Factor: The Fact of Business Incubators at Ministry of Youth and Sports – The Second Dimension: Business Incubators Mechanisms (C – Financial Aspects) (Supreme and Middle Department = 14) (Executive Department= 18)(Total = 32)**

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
19	<b>Verifying the feasibility of incubating the project and evaluating its success possibility through:</b>								
19/1	Carrying out the project's feasibility study	Supreme and middle	13	1	96.43	1	1.93	Agreeing	2.2
		Executive	13	5	86.11	2	1.72	Agreeing	
		Total sample	26	6	90.63	1	1.81	Agreeing	
19/2	Accounting and legal consultation of establishing the new project	Supreme and middle	11	3	89.29	3	1.79	Agreeing	0.55
		Executive	12	6	83.33	4	1.67	Agreeing	
		Total sample	23	9	85.94	4	1.72	Agreeing	
20	Playing the role of mediator between businessmen and entrepreneurial ideas compilers	Supreme and middle	10	4	85.71	5	1.71	Agreeing	0.85
		Executive	10	8	77.78	7	1.56	Agreeing	
		Total sample	20	12	81.25	7	1.63	Agreeing	
21	Effective coordination with governmental authorities and ministry of planning to obtain financial support for entrepreneurial projects.	Supreme and middle	12	2	92.86	2	1.86	Agreeing	0.33
		Executive	14	4	88.89	1	1.78	Agreeing	
		Total sample	26	6	90.63	1	1.81	Agreeing	
22	Concluding agreements with international authorities to avail foreign finance	Supreme and middle	8	6	78.57	8	1.57	Agreeing	0.16
		Executive	9	9	75	8	1.5	Agreeing	
		Total sample	17	15	76.56	8	1.53	Agreeing	
23	Providing advice and experience to reduce expenses and operating costs via experience center and knowledge sources	Supreme and middle	9	5	82.14		1.64	Agreeing	0.02
		Executive	12	6	83.33	4	1.67	Agreeing	
		Total sample	21	11	82.81	5	1.66	Agreeing	
24	Making market studies to identify demand level and beneficiaries' needs	Supreme and middle	10	4	85.71	5	1.71	Agreeing	0.37
		Executive	11	7	80.56	6	1.61	Agreeing	
		Total sample	21	11	82.81	5	1.66	Agreeing	
25	Preparing marketing programs to promote the incubated projects' products and service	Supreme and middle	11	3	89.29	3	1.79	Agreeing	0.17
		Executive	13	5	86.11	2	1.72	Agreeing	
		Total sample	24	8	87.5	3	1.75	Agreeing	

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Arithmetic mean outweighed by weight: disagreeing (1: 1.5), agreeing (2: 1.6)

**From table number (8)** there are no statistical significant differences between responses of the research sample's group about all statement of the second dimension ( C – financial aspects ) as the calculated (  $Ca^2$  ) was less than its tabular value at level (0.05) and ranged between (0.02 : 2.20), with an outweighed percentage between (76.56 : 90.63) in the agreement direction.

According to the whole research sample's opinion, statements number (19/1 , 21 , 25) topped their opinions with an outweighed percentage between (87.5 : 90.63) to verify the feasibility of incubating the project and evaluate its success possibility via carrying out the project's feasibility study.

**Results of study of Mona Radwan Elnakhala (2012) (19)** indicates that there should be more financial and market services for small size incubated projects, dealing with the problem of financing incubators by allocating sums needed for their establishment and permanency.

As statements number (20, 22) took the last place with an outweighed percentage (81.25, 76.56) respectively to indicate that incubators play the role of mediator between businessmen and entrepreneurial ideas compilers.

**Results of study of Magda Soliman Artima (2012) (15)** indicates carrying out an economic feasibility study for the incubated project's activity and directing financial support in conformity with the project's nature.

**Table (9) Results of Repetitions, Percentages and ( $Ca^2$ ) on the First Factor: The Fact Business Incubators at Ministry of Youth and Sports - The Second Factor: Business**

**Incubators Mechanisms (D – Financial Aspects)**

**(Supreme and Middle Department = 14) (Executive Department= 18) (Total = 32)**

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
26	The incubator allocates the suitable surface area in conformity with the incubated project's activity.	Supreme and middle	12	2	92.86	1	1.86	Agreeing	0.03
		Executive	15	3	91.67	1	1.83	Agreeing	
		Total sample	27	5	92.19	1	1.84	Agreeing	
27	The incubator avails all facilities and services needed by the project such as:								
27/1	Modern means of communication" phone, fax and internet"	Supreme and middle	11	3	89.29	2	1.79	Agreeing	0.55
		Executive	12	6	83.33	4	1.67	Agreeing	
		Total sample	23	9	85.94	4	1.72	Agreeing	
27/2	Appliances suitable for the project	Supreme and middle	11	3	89.29	2	1.79	Agreeing	0
		Executive	14	4	88.89	2	1.78	Agreeing	
		Total sample	25	7	89.06	2	1.78	Agreeing	
27/3	Meeting and training hall	Supreme and middle	9	5	82.14	6	1.64	Agreeing	0.25
		Executive	10	8	77.78	6	1.56	Agreeing	
		Total sample	19	13	79.69	6	1.59	Agreeing	
27/4	High quality infrastructure	Supreme and middle	11	3	89.29	2	1.79	Agreeing	0.17
		Executive	13	5	86.11	3	1.72	Agreeing	
		Total sample	24	8	87.5	3	1.75	Agreeing	
28	Regular follow up and maintenance of the project's infrastructure.	Supreme and middle	10	4	85.71	5	1.71	Agreeing	0.37
		Executive	11	7	80.56	5	1.61	Agreeing	
		Total sample	21	11	82.81	5	1.66	Agreeing	

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Arithmetic mean outweighed by weight: disagreeing (1: 1.5), agreeing (2: 1.6)

**From table number (9)**, it is clear that there are no statistical significant differences between responses of the research sample's groups as the value of the calculated ( $Ca^2$ ) was less than its tabular value at level (0.05) and ranged between (0.00 : 0.55), with an outweighed percentage between (79.69 : 92.19) in the agreement direction.

According to the whole research sample, it was found that statements number (26 , 27/2 , 27/4) topped the research sample's opinion with an outweighed percentage between

(87.5 : 92.19) indicating that the incubator allocates a suitable surface area in conformity with the incubated project's activity, the incubator avails all facilities and services needed by the project.

**Omran Mohamed Elfawaz (2014) (20)**, in his study recommends the importance of motivating entrepreneurs to work in a technical environment provided with the best techniques and equipments to enable them to convert their ideas to products and services serving community and national economy.

As statements number (28, 27/3) took the last place indicating regular follow up and maintenance of the project infrastructure, incubators avail all facilities and services needed by the project.

Results of study of **Malden Mosleh Elkayal (2017) (17)**, proves that the incubating organization avails a suitable infrastructure and all services needed by the incubated project.

**Table (10) Results of Repetitions, Percentages and (Ca<sup>2</sup>) on the Second Factor: The Role of Ministry of Youth and Sports in Enhancing Culture of Entrepreneurship. (Supreme& Middle Department = 14) (Executive Department= 18) (Total = 32)**

S	Statement Content	Departments	Agreeing	Disagreeing	Outweighed Percentage	Order	Average	Common Attitude	Ca 2
29	Ministry of youth and sports directions towards establishing business incubators to adopt entrepreneurial projects via:								
29/1	Ministry of youth and sports keenness to clarify the role of business incubators for entrepreneurial ideas compilers	Supreme and middle	12	2	92.86	2	1.86	Agreeing	0.07
		Executive	16	2	94.44	1	1.89	Agreeing	
		Total sample	28	4	93.75	2	1.88	Agreeing	
29/2	Adopting and supporting entrepreneurial culture	Supreme and middle	14	0	100	1	2	Agreeing	2.57
		Executive	15	3	91.67	3	1.83	Agreeing	
		Total sample	29	3	95.31	1	1.91	Agreeing	
29/3	Developing an entrepreneurial culture via courses, seminars and meetings	Supreme and middle	11	3	89.29	3	1.79	Agreeing	0.55
		Executive	12	6	83.33	7	1.67	Agreeing	
		Total sample	23	9	85.94	4	1.72	Agreeing	
29/4	Cooperation with the private sector to support entrepreneurship at sports sector	Supreme and middle	8	6	78.57	9	1.57	Agreeing	0.05
		Executive	11	7	80.56	9	1.61	Agreeing	
		Total sample	19	13	79.69	10	1.59	Agreeing	
29/5	Clarifying conditions and requirements admittance for entrepreneurial projects at business incubators	Supreme and middle	10	4	85.71	4	1.71	Agreeing	0.17
		Executive	14	4	88.89	4	1.78	Agreeing	
		Total sample	24	8	87.5	3	1.75	Agreeing	
29/6	Evaluating entrepreneurial projects to assist in incubators admittance	Supreme and middle	9	5	82.14	5	1.64	Agreeing	0.02
		Executive	12	6	83.33	7	1.67	Agreeing	
		Total sample	21	11	82.81	7	1.66	Agreeing	
30	Ministry of youth and sports faces some restrictions related to developing culture of entrepreneurship represented in								
30/1	The ministry's late concern about entrepreneurship compared to other ministries and authorities	Supreme and middle	4	10	64.29	12	1.29	Agreeing	12.22
		Executive	16	2	94.44	1	1.89	Agreeing	
		Total sample	20	12	81.25	9	1.63	Agreeing	
30/2	Some persons have inherited cultures of cleaving to governmental jobs	Supreme and middle	9	5	82.14	5	1.64	Agreeing	0.03
		Executive	11	7	80.56	9	1.61	Agreeing	
		Total sample	20	12	81.25	9	1.63	Agreeing	
30/3	Lack of technical coordinators of discovering entrepreneurial ideas people	Supreme and middle	8	6	78.57	9	1.57	Agreeing	1.56
		Executive	14	4	88.89	44	1.78	Agreeing	
		Total sample	22	10	84.38	5	1.69	Agreeing	
30/4	Lack of entrepreneurial projects compilers' confidence in ministry of youth and sports support	Supreme and middle	9	5	82.14	5	1.64	Agreeing	0.23
		Executive	13	5	86.11	6	1.72	Agreeing	
		Total sample	22	10	84.38	5	1.69	Agreeing	
30/5	Lack of perfect data base and statistics about market requirements	Supreme and middle	9	5	82.14	5	1.64	Agreeing	0.65
		Executive	9	9	75	11	1.5	Agreeing	
		Total sample	18	14	78.13	11	1.56	Agreeing	
30/6	Non updating business incubators with all new activities and norms	Supreme and middle	7	7	75	11	1.5	Agreeing	0.4
		Executive	7	11	69.44	12	1.39	Agreeing	
		Total sample	14	18	71.88	12	1.44	Agreeing	

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Arithmetic mean outweighed by weight: disagreeing (1: 1.5), agreeing (2: 1.6)

**From table number (10)**, there are no statistical significant difference between responses of the research sample groups about the factor's statements as calculated



31/1	Enabling youth to carry out small projects	Supreme and middle	13	1	96.43	4	1.93	Agreeing	2.2
		Executive	13	5	86.11	7	1.72	Agreeing	
		Total sample	26	6	90.63	5	1.81	Agreeing	12.5
31/2	Encouraging them to join labor market	Supreme and middle	12	2	82.86	6	1.86	Agreeing	0.33
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	26	6	90.63	5	1.81	Agreeing	12.5
31/3	Creating new jobs and encouraging stagnant sectors	Supreme and middle	10	4	85.71	9	1.71	Agreeing	1.58
		Executive	16	2	94.44	2	1.89	Agreeing	
		Total sample	26	6	90.63	5	1.81	Agreeing	12.5
32	Carrying out new entrepreneurial projects used in executing permanent development mechanisms.	Supreme and middle	14	0	100	1	2	Agreeing	0.8
		Executive	17	1	97.22	1	1.91	Agreeing	
		Total sample	31	1	98.44	1	1.97	Agreeing	28.13
33	Entrepreneurial projects' contribution to								
33/1	Increasing individual's income	Supreme and middle	13	1	96.43		1.93	Agreeing	1.65
		Executive	15	3	91.67		1.83	Agreeing	
		Total sample	28	4	93.75	3	1.88	Agreeing	18
33/2	Increasing the total state national product	Supreme and middle	14	0	100	1	2	Agreeing	1.66
		Executive	16	2	94.44	2	1.89	Agreeing	
		Total sample	30	2	96.88	2	1.94	Agreeing	24.5
33/3	Enabling all groups, specially youth in economic movement in conformity with anti deviated behaviors in community	Supreme and middle	12	2	92.86	6	1.86	Agreeing	0.84
		Executive	13	5	86.11	7	1.72	Agreeing	
		Total sample	25	7	89.06	8	1.78	Agreeing	10.13
33/4	Availing new opportunities for entrepreneurship internationally and locally to know other countries requirements in entrepreneurship	Supreme and middle	9	5	82.14	10	1.64	Agreeing	0.03
		Executive	11	7	80.56	10	1.61	Agreeing	
		Total sample	20	12	81.25	10	1.63	Agreeing	2
33/5	Providing economic and social safety and security to the next generation according to the Egyptian Vision 2030	Supreme and middle	14	0	100	1	2	Agreeing	3.56
		Executive	14	4	88.89	5	1.78	Agreeing	
		Total sample	28	4	93.75	3	1.88	Agreeing	18
33/6	Investing investment projects' returns in creating the state infra structure	Supreme and middle	11	3	89.29	8	1.79	Agreeing	0.17
		Executive	13	5	86.11	7	1.72	Agreeing	
		Total sample	24	8	87.5	9	1.75	Agreeing	8

Value of  $Ca^2(1, 0.05) = 3.841$ ,  $Ca^2(2, 0.05) = 5.991$

Arithmetic mean: disagreeing (1: 1.5), agreeing (2: 1.6)

**From table number (11)**, there are no statistical significant differences between the research sample's responses about the third factor's statement as value of the calculated ( $Ca^2$ ) was less than its tabular value at level (0.05) and ranged between (0.03 : 3.56) with an outweighed percentage between (81.25 : 98.44)

According to the whole research sample's opinion, statements number (32, 33/2, 33/1) topped their opinions with an outweighed percentage between (93.75 : 98.44) indicating

reaching new entrepreneurial projects useful for executing the permanent development mechanisms.

**Results of study of Khalid Salah (2016) (14), Mohamed Ibrahim Elmadhoun, Mona Radwan Elnakhala (2017) (18)** agreed upon that business incubators play a great role in availing permanent projects and researches for researchers, increasing job opportunities and dealing with unemployment, developing community.

As statements number (33/3, 33/6, 33/4) took the last place with an outweighed percentage (81.25 : 89.09) on that entrepreneurial projects enable different groups specially youth to join economic development.

**Results of study of Ibrahim Soliman Elmasry (2019) (12)** show a relationship between entrepreneurial projects and business incubators as incubators are a prepared place of hosting entrepreneurs' projects.

#### **Conclusions:**

- Availing an investment work environment to facilitate administrative, financial and consultative works for entrepreneurs.
- Investing in scientific research by encouraging researchers on focusing on applied research and converting them to practical application stage to contribute to economic development.
- Business incubators provide legal support to incubated projects via availing legal services to establish and manage incubated projects.
- Verifying the feasibility of incubating the project and evaluating its success potential via carrying out the project' feasibility study.
- Effective coordination with governmental authorities and ministry of planning to obtain financial support for entrepreneurial projects.
- The incubators avail all facilities and services needed by the project.
- Ministry of youth and sports are directed towards establishing business incubators to adopt entrepreneurial projects via adopting and supporting culture of entrepreneurship.
- Entrepreneurial projects contribute to increasing the total state national projects' product and increasing the individual's income.

#### **Recommendations:**

**Under the research conclusions, the researcher recommends taking the following procedures by ministry of youth and sports:**

- Establishing business incubators related to ministry of youth and sports and assigning them as unique experts to appoint individuals and human cadres able to promoting entrepreneurship and provide advice to entrepreneurial projects compilers.
- Concluding a cooperation protocol between ministry of youth and sports and research organization to link the ministry to the university as well as industrial and service companies and businessmen.
- Establishing an information bank and surveying small projects completely and knowing their products and market shares to create a supporting environment for these projects.
- Following a scientific methodology to select creative ideas and converting them to incubated projects.
- Creating new administrative unit competent for following up the incubated projects to understand their nature as well as difficulties they may face and how to overcome.

## **Bibliography**

### **First: Arab Bibliography:**

- 1 Abdelmawgoud Abdalla, Kossay Sary Aref (2016) : The Role of Business Incubators in Supporting Marketing Knowledge for Small and Middle Size Projects at Tabok, a thesis published on the magazine, Saleh Abdalla Center for Islamic Economy, AL Azhar University, volume (19), issue (59).

- 2 Adnan Hussein, Raed Khedr Abbas (2014) : The Role of Business Incubators in Developing Small Projects, Al Ayam Publishing House, Oman.
- 3 Ahmed Ibn Abdelrahman Elshamimry, Sorour Aly Ibrahim Sorour (2014) : Business Incubators: Concepts and Applications in Cognitive Economics, King Saud University, Riyadh
- 4 Alaa Elgharabawy, Mohmaed Mounir, Mohamed Elsalamy, Aliaa Mahmoud (2018) : Entrepreneurship and Small Projects, University Education House, Alexandria.
- 5 Amr Alaa Zidan (2007) : Entrepreneurship: Motive Force of National Economies, Arab Organization for Administrative Development, Cairo
- 6 Anwar Ahmed Elazzam (2009) : The Effect of Using Business Incubators in Entrepreneurial Projects Success in Jordon, an un published doctorate thesis, Faculty of Administrative Studies, Amman Arab university, Jordon
- 7 Bassem Tarek Eldilimy (2019) : The Effect of Transitional Leadership on Achieving Entrepreneurship, a field study at national Iraqi faculties, an un published master thesis, Faculty of Economics and Administrative Sciences, Al al-Bay University, Jordon.
- 8 Hassan Ahmed Elshafaey, Mohamed Khalil Aly, Marwa Farghaly Gaber (2017) : Factors Affecting Creative Entrepreneurial Investment Projects at Sports Organization, a thesis published on Faculty of Applications of Sports sciences, issue( ), volume ( ), December, Faculty of Physical Education for Boys, Alexandria.
- 9 Hayat Bakirat (2017) : The Role of Business Incubators in Small Organizations Growth, a case study, a non published master thesis, Faculty of Economic and Commercial Sciences, Kasidi Mirbah University, Algeria.
- 10 Hussein Alian Elharamsha (2014) : The Role of Business Incubators in Finding and Developing Entrepreneurial Technological Projects in Jordon , a thesis published on Al Zarkaa Magazine for Human Research and Studies, volume (14), issue (2), Jordon.
- 11 Hussein Farag Elshtewy (2015) : The Role of Technological Incubators in Achieving Cognitive Economics via Transferring Creative Ideas to Wealth, the Arab Forum of Enhancing the Role of Industrial and Technological Incubators in Industrial Development, Ministry of Industry, Tripoli.
- 12 Ibrahim Soliman Elmasry (2019) : The Most Important Roles Affecting the Ability of Emerging Companies to Administrative Creation in Business Incubators,

- and Technology, Islamic University, Gaza, a non published master thesis, Faculty of Economics and Administrative Sciences, Islamic University, Palestine.
- 13 Ghada Ibrahim Hanafy (2017) : A Suggested Frame for Developing Small Size Projects Incubators Experience in Egypt: An Analytical Study Compared to Successful Experiences for Some Countries, a research published on Commercial Research Magazine, Faculty of Commerce, Zagazig University, issue 2, volume 39
  - 14 Khalid Salah Hanafy Mahmoud (2016) : Technological Incubators as Mechanisms of Linking Universities to Production Sectors in the Field of Scientific Research and Community Service : an Analytical Study of Opinions of Teaching Staff Members at Egyptian Universities, a thesis published on Arab Universities Union Magazine for High Education Research, issue (1), volume ( 36), the country
  - 15 Magda Soliman Artima (2012) : Business Incubators and their Role in Creating Competitive Capacities for Small Projects, an unpublished doctorate thesis, Faculty of Business, Oman Arab University, Jordon.
  - 16 Mahmoud Nehmedo Aly (2016) : The Role of Small and Middle Projects in Egyptian Economy 2015, a research published on magazine of economics and political science, issue (2), volume (7), July, Cairo university.
  - 17 Malden Mosleh Elkayal (2017) : The Role of Business Incubators in Achieving Permanent Capacities – a Field Study in Small Projects in Civil Community Organizations in Jordanian Nomadic Life, an unpublished master thesis, Faculty of Finance and Business Administration, Al al-Bayet University , Jordon.
  - 18 Mohamed Ibrahim Elmadhoun, Mona Radwan Elnakhala (2017) : The Fact of Technological Incubators and their Role in Developing Projects in Gaza, a Comparative Study between Technology Incubator in Islamic University and University Faculty, a thesis published on Islamic University Magazine, issue (3), volume (25), Gaza.
  - 19 Mona Radwan Elnakhala (2012) : The Fact of Business Incubators and their Role in Supporting Small Projects for Youth in Gaza, a thesis published at Conference of Youth and Development in Palestine, Fourth Conference, Islamic University, Palestine.
  - 20 Omran Mohamed Elfawaz (2014) : The Fact of Business Incubators and their Role in Supporting Small Projects for Youth of Gaza, an unpublished master

- thesis, Faculty of Economics and Administrative Sciences, Yarmouk University, Jordan
- 21 Osama Ibn Sadik Taib, Mohamed Nour Ibn Yassin, Essam Ibn Yahia Elfalaly (2006) : Towards Cognitive Community: Business Incubators, Research and Consultation Institute, King Fahd National Publishing House.
- 22 Rima Mohamed Aly Masoud (2005) : The Effect of Business Incubators in Employers' Forum for Women's Productive Projects, an unpublished master thesis, Faculty of Post Graduate Studies, Jordanian University, Jordan.
- 23 Rond Khalid Elmallah (2015) : The Critical Factors of Incubated Projects Success in Jordan – a field study, an unpublished master thesis, Faculty of Economics and Administrative Sciences, Yarmok University, Jordan.
- 24 Rowad 2030 (2019) : Ministry of Planning and Administrative Reform, first issue, January.
- 25 Soha Hamzawy (2008) : Initiations of Cooperation between Organizations and Universities to Create Technological Potentials under Economy Depending on Knowledge, a thesis published on Al Basira Centre Magazine for Educational Research, Consultation and Service, issue (10), Algeria.

### **Second: Foreign references**

- 26 Corinne Colbert (2010), : Best practices in action: guidelines for implementing first-class business incubation programs, Publisher: Saline, MI: NBIA Publications
- 27 Dieter Bögenhold, Jean Bonnet, Marcus Dejardin, Domingo Garcia Pérez de Lema (2016), Contemporary Entrepreneurship: Multidisciplinary Perspectives on Innovation and Growth, Springer; 1st Edition
- 28 George Watt, Howard Abrams (2018) : Lean Entrepreneurship: Innovation in the Modern Enterprise, Apress; 1st Edition

- 29 Joffy George (2017) : CORPORATE INCUBATORS: EMERGING TREND FOR ENTREPRENEURSHIP, MASTERS; 1 edition
- 30 Jobe Leonard (2014), Startup Incubators and Business Accelerators: The Easy Way to Create a Startup Incubation and Business Acceleration Center, Books 180 pages
- 31 Louis G Tornatzky; Hugh Sherman; Dinah Adkins (2003) : Incubating technology business: a national benchmarking study, Publisher: Athens (OH) : NBIA Publications, cop
- 32 Mark Long (2019), : Facilities Management for Business Incubators, Independently published
- 33 Otto Chui Chau Lin (2018), : Innovation and Entrepreneurship: Choice and Challenge, World Scientific Publishing Company
- 34 Sameer Khandekar ,B. V. Phani (2017) : Innovation, Incubation and Entrepreneurship: Case Studies from IIT Kanpur, Springer; 1st ed. 71 pages

### Third: Internet Web Sites

- 35 <https://www.youm7.com/story/2019/4/9/4200549/-/في-2030-المستدامة-التنمية-محور-الشباب-الرياضة-الشباب-مصر>
- 36 <https://akhbarelyom.com/news/newdetails/2875560/1/الأعمال-جديدة-لمبادرة-ريادة-الأعمال>
- 37 <https://www.dostor.org/3000451/الناشئة-الشركات-بنشاط-التخطيط-مصر-تشهد-زخماً-بنشاط-الشركات-الناشئة>
- 38 <https://alwafd.news/2437341-وزير-الشباب-يلتقي-بممثلي-المؤسسات-المالية-لدراسة-إطلاق-مبادرة-جديدة-لريادة-الأعمال>