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Academy of Scientific Research  
And Technology  
أكاديمية البحث العلمي والتكنولوجيا



مركز دراسات وإستشارات علوم الفضاء  
CAIRO UNIVERSITY

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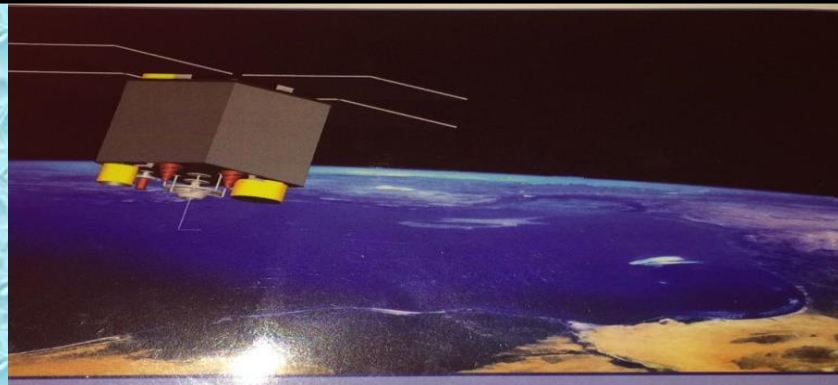
100 YEARS: UNDER ONE SKY



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# Egyptian Space Strategy



**Osama M. Shalabiea**

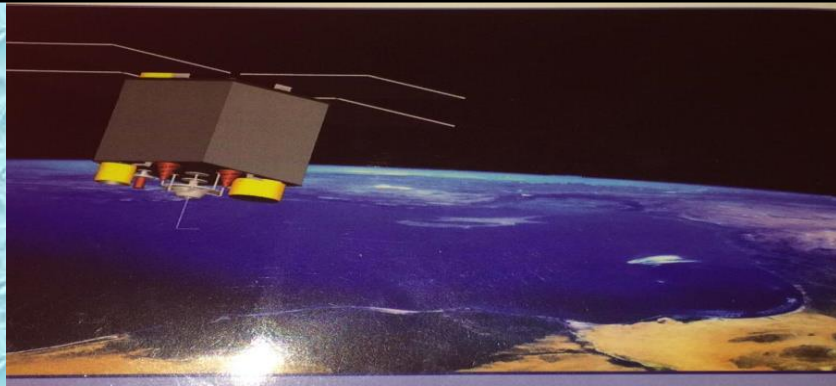
Dept. of Astronomy, Space Science and Meteorology, Cairo University, Egypt



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# 100 years under one Space Civilization 2119



**Osama M. Shalabiea**

Dept. of Astronomy, Space Science and Meteorology, Cairo University, Egypt



(UN) Earth's  
Space Civilization

for

Outer Space  
Civilization's



# Space is not only Science & Technology



Space is **CIVILIZATION**  
**2119**

Dr. Ali Sadek

# JOURNEY TO ASTROBIOLOGY

## SPACE EXPLORATION FOR LIFE ...!

National Aeronautics and Space Administration



### Journey to Astrobiology

By student : *Sherif Shallal*  
under supervision of

*Prof. Osama M. Shalabiea*

Astronomy & Space science and Meteorology  
Department

Cairo University

19/3/2019  
12:30 PM



# Egyptian Space Agency

## AIM

5000 yrs BC Egyptian ancient Civilization starts !!  
Nowadays Space is not just Science and Technology but it is a transfer age to a new Space Civilization that the momentum for such recognition starts in Egypt in Egyptian Scientific communities and some Arab countries

In January 2018, President Abdel-Fattah al-Sisi passed Law No. 3 of 2018 establishing the Egyptian Space Agency, after the House of Representatives approved the law with the aim to develop and transfer space science and technology into Egypt to build satellites and launch them from Egyptian territories.

# Egyptian Space Agency

## Vision

Egyptian National Space Agency vision is to contribute to the development of space technology to serve humanity.

## Strategic Goals



# Specific Objectives

## 1. Addressing User Needs, This includes:

- (a) Developing products and services using earth observation data for societal benefits
- (b) Improving Egypt's economy and the quality of life of its people

## 2. Building Space Infrastructure

- Appropriate infrastructure is the cornerstone of an effective space program, enabling technology transfer and human capacity development initiatives.

# Specific Objectives

## 3. Governance and management structure

This includes the following:

- (a) Establishing an organizational framework belongs directly to the president of Egypt.
- (b) Supporting the Egyptian space program financially with economic and sustainability plan.
- (d) Promoting knowledge sharing among all national users and partners.
- (e) Monitoring and evaluation of space activities to ensure achieving goals and objectives

## 4. Fostering Regional and International Cooperation

The strategy is to promote a well-coordinated and strengthened cooperation strategy with regional and international partners that will reinforce the collaboration in space technology, research and development, service providing, and space industry.

## 5. Capacity Development

This includes human capital development in space technology, research and development and commercialization.

This will focus on:

- 1-In-house training and education.
- 2-Collaboration with Egyptian Universities.
- 3-Collaboration with external institutions.

6. Space Awareness

7. Industrial Participation

8. Developing the National and the Regional Market





# Faculty of Navigation Science & Space Technology (NSST)



Dean Prof. Mervat Awad (Space Dynamics )  
Cairo University

# \*. MOST RECENT 2018



## Faculty of Navigation Science & Space Technology



- The first college specialized in space technology in Middle East & Africa.
- The first class in space navigation science is planned for academic year 2018-2019.
- First Graduation project shall be design & implementation of university cube satellite.



5 years Bachelor Degree from Governmental BSU University

Study includes Space science, technology and Engineering

Alliance Protocols with Russia & Germany Space Agencies & Universities

Protocols with Production Facilities for students hands on experience and competency transfer programs

### Departments & Academic programs of the faculty include:

- Department of Space Navigation
- Department of Space Science
- Department of Space Communications
- Space Navigation Program (credit program)
- Space Science Program (credit program)

### Potential Job Opportunities

Remote Sensing Agencies  
(e.g. NARSS)

Communications Companies  
(e.g. Nokia, Siemens, Huawei,...etc.)

Satellite Earth Stations  
(e.g. Nilesat)

Space Agencies  
(e.g. NASA)

Airports Navigation  
(e.g. Cairo Airport)

Electronics Manufacturing  
(e.g. Samsung)

Telecom Operators  
(e.g. Vodafone)

Thank you  
My colleagues

Prof. Mervat Awad ( CU & BSU )

Prof. Eslam Abo Elmagd (NARSS)

Egyptian Space Science and Astronomy  
Council



Thanks you