



INTERNATIONAL
SPACE DEFENCE
WORKSHOP

"FOR A SUSTAINABLE PEACE
IN SPACE"

*Multi-Orbit Satellite and Space Technologies
in Space Defence*

15 MAY 2024 • **ISTANBUL**



ABOUT TUYAD

TUYAD (Telecommunication Satellite and Electronic Industrialists Business People Association)

- **Founded in 2001** in Istanbul with the status of **non-profit associations**.
- With the encouragement of the **Ministry of Industry and Trade**, **16 founding** members took part in the establishment with the initiative of the representatives of the Electronic Industry organisations in Turkey and the electronics-related faculty members of our universities.
- It promotes **space and satellite studies** and projects in **Turkey and organises trainings, events and projects on space technologies**, satellite communications, remote sensing and similar subjects.
- **It supports** Turkish companies that produce the technology, products and equipment required for **satellite TV, internet, content and service provision** in cooperation with globally recognised companies and brands.
- It works for our country to reach the development speed of **telecommunication technologies** and to get the share it deserves.
- It represents the sector by taking part in **nearly 40 fairs** and conferences held worldwide.

ABOUT TUYAD





TELECOMMUNICATION SATELLITE AND ELECTRONIC INDUSTRIALISTS BUSINESS PEOPLE ASSOCIATION

MEMBERS OF TUYAD



INSTITUTIONAL MEMBERS



FOREIGN MEMBERS



TELECOMMUNICATION SATELLITE AND ELECTRONIC INDUSTRIALISTS BUSINESS PEOPLE ASSOCIATION

ABOUT CUBESAT VISION

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA

Cubesat Vision Low Earth Orbit Cubesat and Small Satellite Conference and Seminar,

- It was held in Ankara on **14-15 December 2023** under the auspices of the **Ministry of Transport and Infrastructure, the Ministry of Industry and Technology and the Ministry of Trade** with the support of **Information and Communication Technologies Authority (ICT)**.
- While **25 speakers** took part in the conference programme consisting of **4 sessions, 8 trainers** shared their knowledge and experiences in the seminar programme.
- Organised under the slogan "**Small Satellite, Big Task**", this conference was attended by professionals and academicians working in the national and international arena in the field of small satellites/cubic satellites, where current projects, experiences and technologies were evaluated.
- Within the scope of the seminar, **VSAT installation, commissioning and communication courses** were given to sector professionals and relevant department students, taking into account the importance of providing uninterrupted communication via satellite in case of disaster.
- A total of **824 people** from **29 countries** participated in the event.
- A total of **52 B2B meetings** were organised between the participating and visiting companies, enabling new business collaborations.

ABOUT CUBESAT VISION

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA

Cubesat Vision Low Earth Orbit Cubesat and Small Satellite Conference and Seminar,



CUBESAT VISION SPEAKER PROFILE

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA



WHO SPOKE AT CUBESAT VISION?

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA

WELCOME & OPENING



MODERATOR
Zafer Küçükateş.
*Partner of Hedef
Koc Consultancy*



Hayrettin Özyayın.
Chairman of TUÇAD



Ömer Abdullah Karağözoğlu.
Chairman of BTK



Dr. Selman Demirel
*Deputy General Manager
of Türksat*



Dr. R. Ruşen Kömürcü
*Secretary General
of SASAD*

SESSION 1 SMALLSAT EXPERIENCES AND ACTIVITIES



Murat Çavuz
INTELSAT

Transformation of the
Satellite Industry



Prof. Shinichi Nakasuka
University of Tokyo

Space Commercialization
and Cubesat's at LEO**



Dmitriy Vetluğın
Eutelsat Oneweb

Smallsat and
Usage Areas



Prof. Dr. Alim Rüstem Aslan
Istanbul Technical University

Cubesat in
Türkiye

WHO SPOKE AT CUBESAT VISION?

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA

SESSION 2 SMALLSAT AND NEW PERSPECTIVES



Cem Bilsel
Hedef Kaç Consultancy

Too Small in Size,
Too Big in Space



Gurvinder Chohan
QSTC

Small Smart Intelligent
Cubesats



Muzaffer Duysal
Hello Space

A New Era
in Satellite IoT



Emre İcen
TUA

National Space Program and
Turkish CubeSat Missions



Philipp Wertz
TESAT

Laser Communication Terminals
for Small Satellites**

SESSION 3 SMALLSAT AND NEW HORIZONS



A.Gürkan Sencar
Profen Satellite Services

Multi-Orbit
Satellite Services



Charlie Young
Plastron

Risk Mitigation of
Cubesat Production**



Florian Leschka
Fraunhofer IIS

Fraunhofer's Contribution
to Next Gen SatCom Systems



Marco Mirante
Hughes Echostar

GEO/MEO/LEO Multi-Orbit
Multi Transport Technology



Guy Limouzin
Airbus

Arrow Platform**

WHO SPOKE AT CUBESAT VISION?

14-15 DECEMBER 2023 | BTK (ICT) CONFERENCE HALL - ANKARA

SESSION 4 ECOSYTEM OF SMALLSAT, OPPORTUNITIES AND THREATS



Ali Yazıcı
*Informatics Association
of Türkiye*

Cyber Security
at Smallsats



Patrick Trinkler
CYSEC

The Best Ways to Protect
LEO Satellite Communications**



Ondrej Farkas
Spacemanic

Slovak Satellites
in Space



Dr. Bülent Alıcıoğlu
Asartech

Minituarization of Passive
Microwave Components
for LEO Payloads



Pablo Gallego Sanmiquel
PLD Space

Successful MIURA 1
Maiden Launch and
Next!**



Barış Dinç
TAMSAT

Achieving Two-Way Voic
and Data Communication
Through LEO Satellites,



Dr. Fahri Öztürk
Tübitak Uzay

The Achievements of the AKUP
CubeSat and the capabilities of
TÜBİTAK UZAY

CUBESAT VISION HIGHLIGHTS

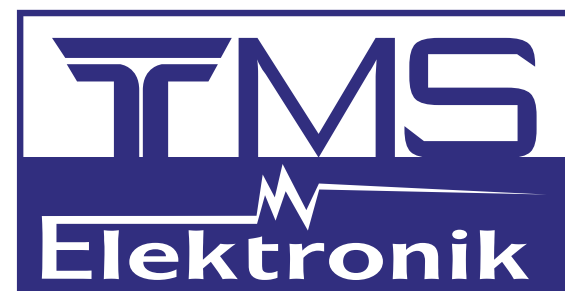
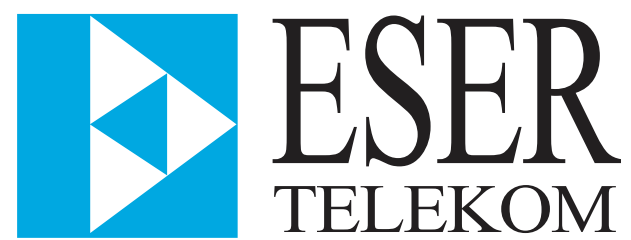


Click for the event video

Conference

Seminar

CUBESAT VISION SPONSORS



CUBESAT VISION SUPPORTERS AND PARTICIPANTS



REPUBLIC OF TÜRKİYE
MINISTRY OF TRANSPORT
AND INFRASTRUCTURE



REPUBLIC OF TÜRKİYE
MINISTRY OF TRADE



REPUBLIC OF TÜRKİYE
MINISTRY OF INDUSTRY
AND TECHNOLOGY



ASSOCIATION PARTNERS



MEDIA PARTNERS



TELECOMMUNICATION SATELLITE
AND ELECTRONIC INDUSTRIALISTS
BUSINESS PEOPLE ASSOCIATION

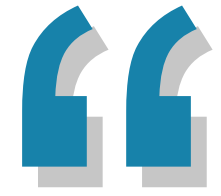


WHY IS IT IMPORTANT?

To say
"WE ARE IN SPACE!"...

**FIRST DEFENCE IN SPACE WORKSHOP
IN TURKIYE**

WHY IS CUBESAT VISION DEFENCE IMPORTANT?



We must be ready
for space wars!



General, **John Reymond**
1st US Space Force Commander

From cold war to hot!

While the developing technology accelerates the studies in the field of space, it also increases the dangerous competition between countries and companies that want to dominate in space.

In the space race led by the USA, China, Russia and India, the officials of the countries concerned have repeatedly stated that they see "Space as a new battlefield".

The USA, China, Russia and India have already established the Space Forces Command...

**Turkey should turn its direction to space
without wasting any time!**

WHY IS CUBESAT VISION DEFENCE IMPORTANT?



The race for existence in space!

While all countries that want to have a say in the future of the world have turned their eyes to space, Turkey, which has made great progress especially in the defence industry, should not fall behind this race.

By strengthening the defence industry side, which has developed as a result of the domestic and national technology move, our production industry must increase its space and defence competencies.

Our production industry must develop space and defence competencies!

WHY IS CUBESAT VISION DEFENCE IMPORTANT?



Protection of space assets!

Access to space has become easier with the inclusion of constellation satellites, small satellites and cubesats in the game, along with advancing technology, the increase in space-oriented commercial initiatives and developments in launch technologies.

This situation has led to a great increase in the number of satellites in space and countries have endeavoured to protect their presence in space and their sovereign rights (allocated frequencies).

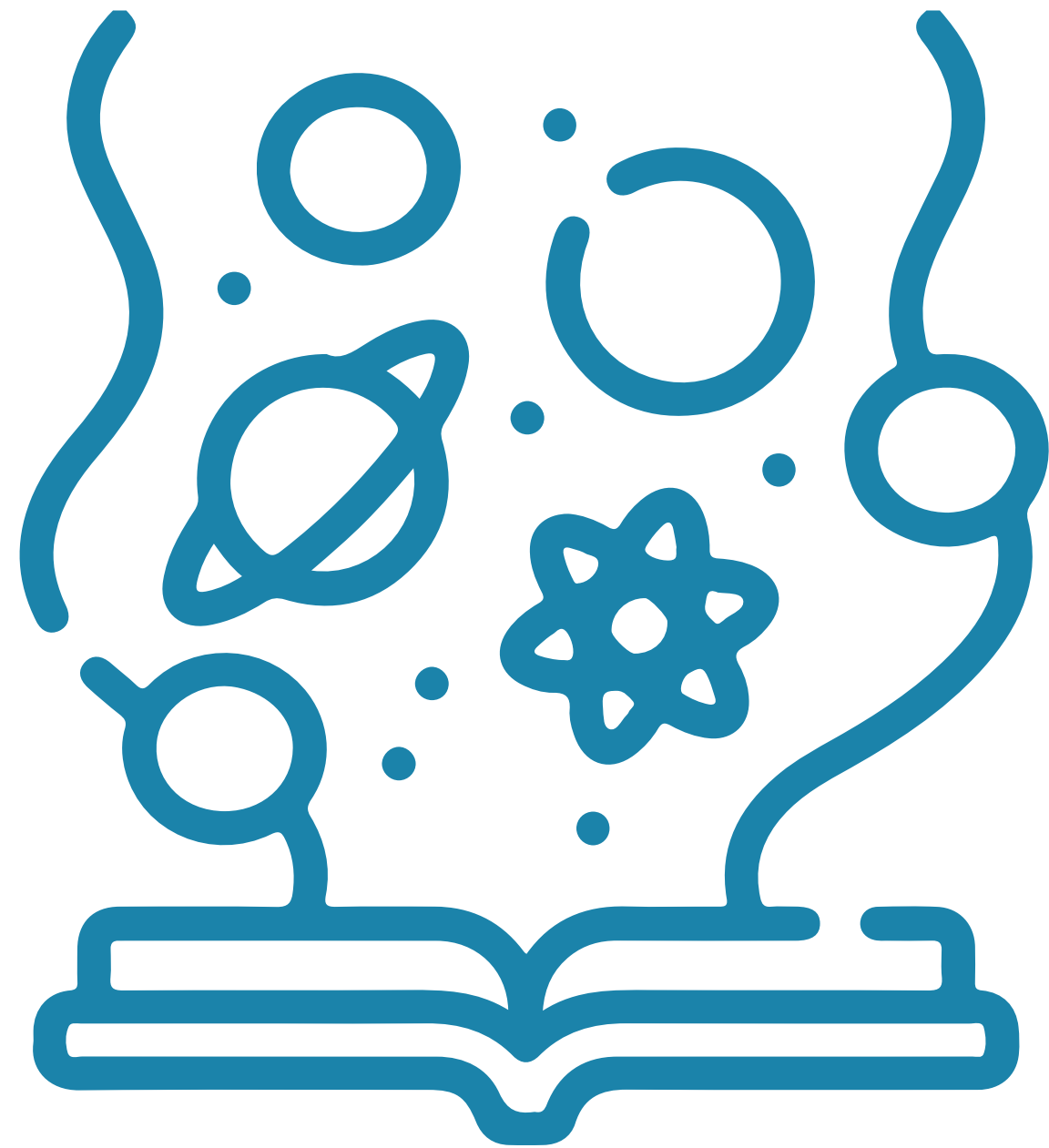
To draw attention to Turkey's sovereign rights!

WHY IS CUBESAT VISION DEFENCE IMPORTANT?

To learn together!

We will discuss "Space defence technologies", "Secure and sustainable satellite communications", "Protection of national assets in space" and "Future of satellite defence technologies" with expert scientists and business people, academics, defence officials and public authorities.

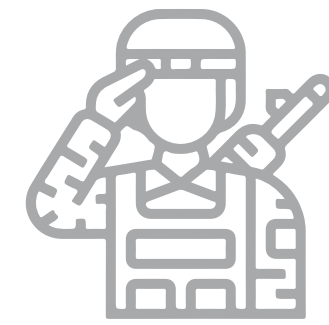
**Discuss space defence
in all its details!**



WHO IS PARTICIPATING IN CUBESAT VISION DEFENCE?



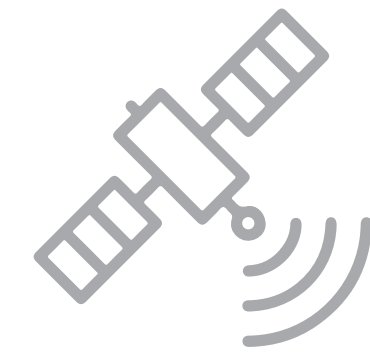
National and international senior government officials



Defence industry officials



Companies that manufacture, develop and sell national and international satellite technology



Satellite Operators



Cyber security, communication, observation, sensor software and hardware developers



Regulators



Ecosystem-based initiatives



Telecom operators



Academics working in relevant departments of universities and technoparks



Non-Governmental Organizations

WHAT WILL BE DISCUSSED AT CUBESAT VISION DEFENCE?

WELCOME & OPENING SPEECHES

Hayrettin Özaydın, Chairman of TUYAD
Prof. Dr. Kemal Yüksek, Chairman of Turksat
Ömer Fatih Sayan, Deputy Minister of Transport and Infrastructure (to be determined)

KEYNOTE SPEECHES

Building Resilience in Space with Multi-Orbit Solutions, Murat Yavuz, Intelsat, USA
Full Vertical Chain for GSaaS and Satellite Image Analytic Service on Downstream, Dr. Sunghee Lee, Contec, S.KOREA
Speech title is awaited, Uğur Ünsal, Skytech, TURKIYE

BREAK

ENHANCING SPACE SITUATIONAL AWARENESS AND MILITARY SPACE TECHNOLOGY

10:15 - 11:15

MODERATOR: **Halit Mirahmetoğlu**, GUHEM, TURKIYE

Leveraging Cube and/or Small Satellites for Military Operations, Prof. Dr. Alim Rüstem Aslan, Istanbul Technical University, TURKIYE
Speech title is awaited, Rory Fitzpatrick, National Space Center, IRELAND
Hybrid Threats and Dual - Use Space Technologies, Ali Baygeldi, Turkish Space Agency, TURKIYE
Speech title is awaited, Jauma Sanpera, Sateliot, SPAIN
Lunar Research Program (AYAP), Doç. Dr. Arif Karabeyoğlu, Fergani & DeltaV, TURKIYE

BREAK

ENSURING SECURE AND SUSTAINABLE SATELLITE COMMUNICATIONS

11:30 - 12:30

MODERATOR: **Mehmet Nefes**, Tübitak Uzay & TUA, TURKIYE

Cyberattacks and Cybersecurity at Space, Ali Yazıcı, Informatics Association of Türkiye, TURKIYE
Advantages of Laser Communications and Quantum Cryptography, Gurrinder Chohan, QSTC, CANADA
Satellite and Phone Communications, Dr. R. Ruşen Kömürcü, Ulak Communication, TURKIYE
The Application of Space Data/Technology for Maritime Surveillance, Kenneth Olafsson, Ksat, NORWAY
AIS / Warship AIS Payloads, Ejder Varol, I-Marine, TURKIYE

LUNCH

EXPLORING THE FUTURE OF SATELLITE DEFENCE TECHNOLOGIES AND SECURITY STRATEGIES

14:00 - 15:00

MODERATOR: **Dr. Umut Yıldız**, Plan-S & INFINIA, TURKIYE

Satellite Defence Technologies, Opportunities and Challenges, Dr. Sunghee Lee, Contec, SOUTH KOREA
Suborbital ISR Capability, Gennaro Russo, Distretto Aerospaziale Della Campania, ITALY
Scientific Research in Space and Their Possible Effects, Chaos Theories, Philippe Boissat, 3i3 Signature LLC, SPAIN
Analyzing Current Conflicts in Space and the Sovereign Rights of Nations, Yalçın Yılmazkaya, Aerospace Cluster Asso., TURKIYE
Speech title is awaited, Anete Kaulina, Gom Space, DENMARK

BREAK

SPACE DEFENCE ECOSYSTEMS

15:15 - 16:25

MODERATOR: **Prof. Dr. Alim Rüstem Aslan**, ITU, TURKIYE

Pioneering the Future of Space Defense through Technology and Collaboration, Shelli Brunswick, SB Global LLC, USA*
Generative AI's Potential as a Force Multiplier in Defense, Hajar El Haddaoui, Circular Economy Company, SWITZERLAND*
Swarm-Driven Multi-layered Satellite Defence Architectures, Basuti Gerty Bolo, GoToSpace, SOUTH AFRICA*
Cutting-edge perspectives on future space conflict and its implications for geopolitical trends, Victoria Valdivia, ESPI, CHILE*
Militarization Of In-Space Manufacturing For Cislunar Development, Madison C. Feehan, Space Copy & Moon Trades, CANADA*
Advancing Human-Centric Space Situational Awareness, Jason Michaud, Stardust, CANADA*

WRAP UP

16:25 - 16:40

Zafer Küçükateş, Partner of Hedef Electronics

SPONSORSHIP

GOLD

- ✔ Exhibition booth (20 sqm)
- ✔ Opening speech
- ✔ 1 Panelist
- ✔ Brand usage in all main saloon coverings
- ✔ Brand usage in all visual works
- ✔ Social media post announcing your sponsorship
- ✔ Brand usage at brochure covers

SILVER

- ✔ Exhibition booth (16 sqm)
- ✔ 1 Panelist
- ✔ Brand usage in main saloon coverings (2/3)
- ✔ Brand usage in all visual works
- ✔ Social media post announcing your sponsorship
- ✔ Brand usage at brochure covers

BRONZE

- ✔ Exhibition booth (12 sqm)
- ✔ 1 Panelist
- ✔ Brand usage in main saloon coverings (1/3)
- ✔ Brand usage in all visual works
- ✔ Social media post announcing your sponsorship
- ✔ Brand usage at brochure covers

SESSION

- ✔ 1 Keynote speech
- ✔ Brand usage in session screen
- ✔ Brand usage in all visual works
- ✔ Social media post announcing your sponsorship

LUNCH

- ✔ Exhibition booth (9 sqm)
- ✔ Brand usage in lunch saloon coverings
- ✔ Brand usage in all visual works
- ✔ Brand usage at dinner table with desk flag
- ✔ Social media post announcing your sponsorship

COFFEE BREAK

- ✔ Brand usage in coffee break area coverings
- ✔ Brand usage in all visual works
- ✔ Brand usage at bistro table with desk flag
- ✔ Social media post announcing your sponsorship

STAND (9 sqm)

- ✔ Exhibition booth (9 sqm)
- ✔ Social media post announcing your sponsorship

THANK YOU!


CUBESAT
VISION DEFENCE
15 MAY 2024 - ISTANBUL
GREENPARK | BOSTANCI

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www.cubesatvision.com

   [cubesatvision](#)



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