



ກະຊວງ ທີ່ກຳໄລ້ຊີ ແລະ ການສື່ສານ  
Ministry of Technology and Communications

# Satellite Communications in Lao PDR

United Nations/Philippines Workshop on the Applications of Global  
Navigation Satellite Systems  
Manila, Philippines. 22-26 April 2024



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# ກະຊວງເຕັກໂນໂລຊີ ແລະ ການສື່ສານ

## Ministry of Technology and Communications

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- **Ministry of Technology and Communications (MTC)**
- **Satellite Project Development**
- **Satellite Business Operation**
- **DRF Cooperation on Training Space Technology**



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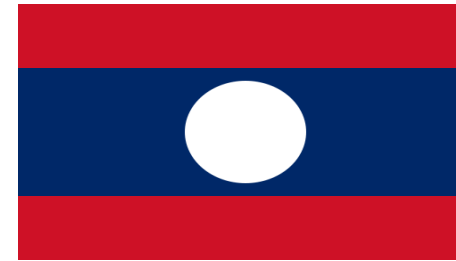
## Ministry of Technology and Communications

## About Lao PDR

Laos officially the Lao People's Democratic Republic (Lao PDR) is a Landlocked country in Southeast Asia.

Lao PDR has shared the border by China to the North, Myanmar to the Northwest, Vietnam to the East, Cambodia to the South, and Thailand to the West.

Capital is Vientiane.



**236,800 Km<sup>2</sup>**

LandArea



**7.58M**

Population



**Laotian**

Official Language



**UTC+7**

Time zone



**VIENTIANE**

Capital



**17 Provinces**

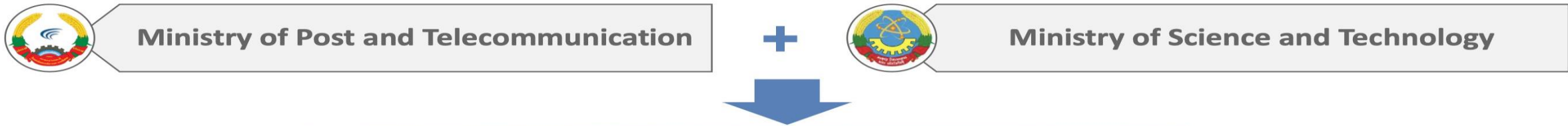
Province





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The MTC functions as a policymaker and regulator in charge of Posts, Telecommunications, and ICT-related development.



➤ PM's Decree on Structure and Responsibilities of Ministry of Technology and communications No. 625/PM dated 22/10/2021.





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### Legislation

- Decree on Satellite Communications, No.: 471/PM, dated 27<sup>th</sup> December 2019;
- Ministerial Agreement on VSAT, No.: 2322/MPT, dated 17<sup>th</sup> December 2020;
- Ministerial on Earth Station, No.: 980/MTC, dated 26<sup>th</sup> April 2022;
- LAOSAT-1 has been registered in the United Nations Committee on the Peaceful Uses of Outer Space (UNCOPUOS) as an object launched into outer space since early 2017.

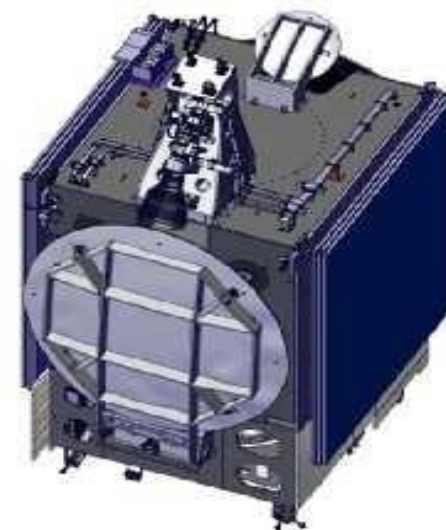
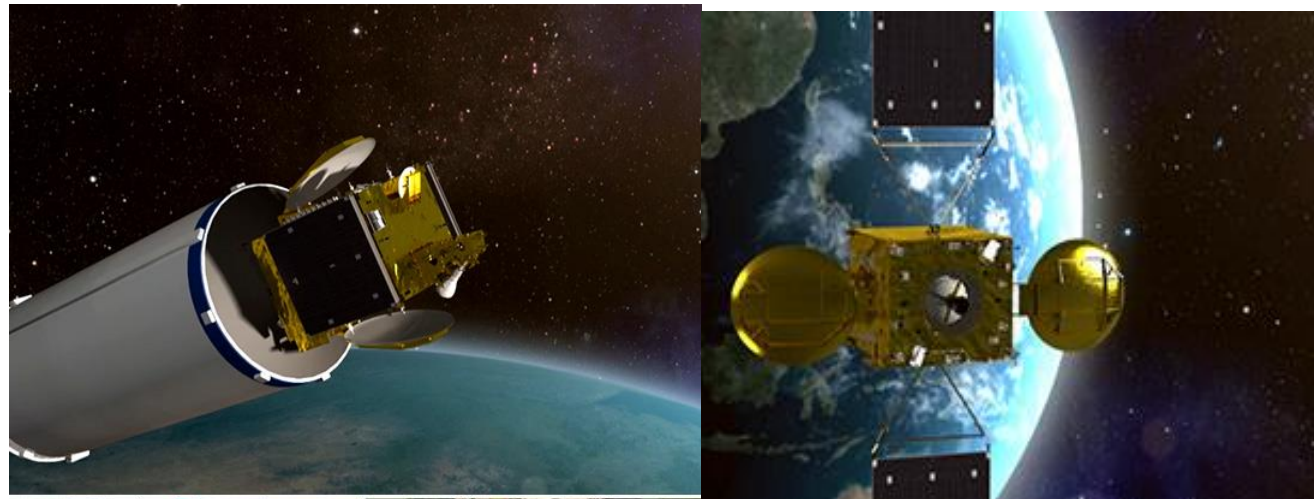


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### Lao Satellite Development

- ❑ Satellite name: LAOSAT-1
- ❑ Orbit location: 128.5° E
- ❑ Transponders: 14 C-band and 8 Ku-band
- ❑ Launched time: 21 November 2015





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### Satellite Business Operation

The Joint Venture Company (JVC) had been established by Lao Government namely **Lao Satellite Asia–Pacific Company Limited (LAOSAT)** which this company will operate the Satellite Services.





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## Ministry of Technology and Communications

### **SATELLITE COMMUNICATION SERVICE:**

#### **1. TRANSPONDER LEASING**

Whether you are a TV broadcaster, VSAT operator or a government organization, our Full Time Services will offer you an advanced and flexible capacity solution, with guaranteed transponder capacity on 24 hours a day, 7 days a week basis for an extended leasing. Services and available on LAOSAT satellite, in both C-band and Ku-band, subject to availability.

- Long-term leasing service
- Temporary leasing service





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## Ministry of Technology and Communications

### **SATELLITE COMMUNICATION SERVICE:**

#### **2. TRANSPONDER LEASING**

#### **TELEPORT & NETWORK SERVICES**

LAOSAT has highly sophisticated terrestrial facility, and through the linkage to fiber cable provided by all major local Fixed Carrier Operators at Hong Kong, enable us to offer market-leading telecom solution to suit the challenging requirement of a wide variety of customers.

#### **•Hub-based service**

iDirec Hub-based service or Advantech Hub-based service, in Extend C-Band or Ku-Band, to reach any remote fields.

#### **•SCPC Service**

Single Channel per Carrier (SCPC) service offers a dedicated point-to-point satellite circuit for various applications including IP, private data line, corporate connectivity, etc.



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## Ministry of Technology and Communications

### **SATELLITE COMMUNICATION SERVICES:**

#### **3. BROADCAST SERVICES**

LAOSAT is able to provide a range of services and solutions to both domestic and international broadcasters at the Southeast peninsula

#### **MCPC Platform Services**

Our MCPC platform provide cost-effective solution for both regional and international broadcaster to distribute their content to cable head-end or provide Direct-to-Home (DTH) services across different countries



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## Ministry of Technology and Communications

### **SATTELITE CONTROL AND APPLICATION:**

- 1. VSAT BUSINESS APPLICATION**
- 2. NECN BUSINESS APPLICATION**
- 3. DTH BUSINESS APPLICATION**
- 4. INTERNATIONAL GATEWAY STATION(IGS ) APPLICATION**
- 5. TV PROGRAM CENTER (TVPC) APPLICATION**



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### **DRF Cooperation on Training Space Technology:**

- 1. Seminar on New Technology of Satellite Navigation in Wuhan, China. During dated 27 June to 17 July 2023.**

Seminar on New Technology of Satellite Navigation





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## 2. Seminar Course on Use of Meteorology Products and Remote Sensing Satellite at Nanjing University of Information Science & Technology, China, on 28 May to 17 June 2019.





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### 3. Training on “Geospatial Information Technology for Disaster Risk Management” between 02 and 06 September 2019, Vientiane, Lao PDR. Conducted by UNOSAT







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### 4. Seminar on Beidou Satellite Navigation System in Wuhan, China on 9 -29 October 2018





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### 5. Seminar on Small Multi-mission Satellite Technology and Application in Wuhan, China on 29 September to 12 October 2017





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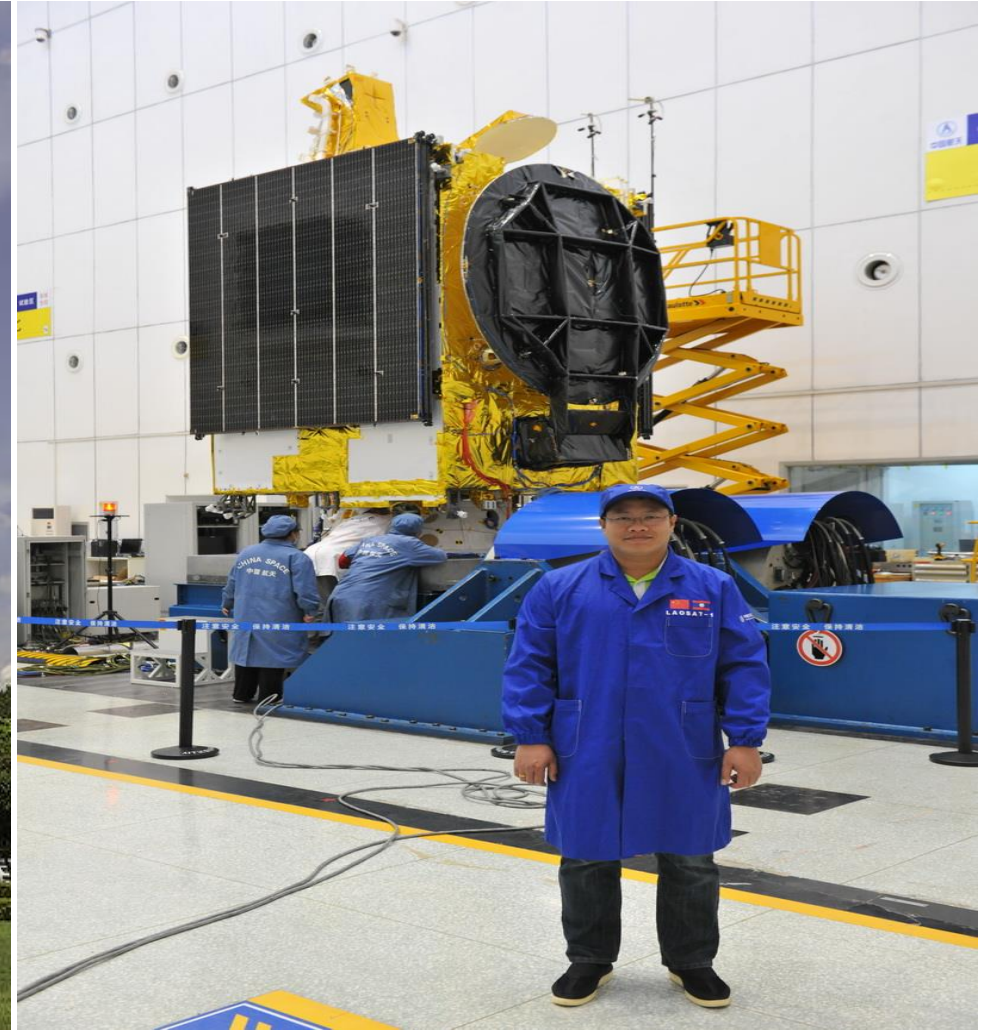


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### 6. The International Training Course on “Small Satellite and Satellite Engineering” at Bangaluru, India on 21 November to 2 December 2016.





*Thank you for your attention.*