BHUTAN IN SPACE

UN/AUSTRIA SYMPOSIUM
ACCESS TO SPACE: HOLISTIC CAPACITY BUILDING FOR THE
21ST CENTURY
7TH SEPTEMBER, 2017

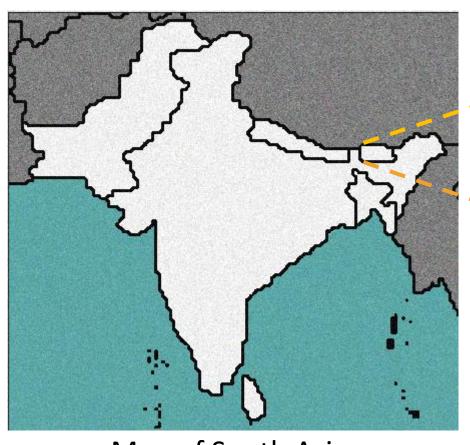


PRESENTED BY: YESHEY CHODEN

- KYUSHU INSTITUTE OF TECHNOLOGY, JAPAN
- MINISTRY OF INFORMATION AND COMMUNICATIONS, ROYAL GOVERNMENT OF BHUTAN



BHUTAN

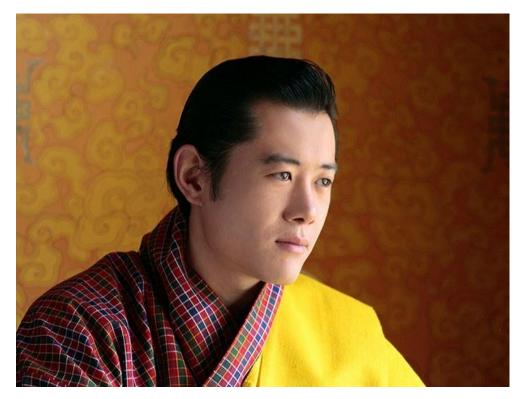


Map of South Asia



- Area: 38,390 sq.km
- Population: 0.8 Million
- Government: Constitutional Monarchy

THE BEGINNING OF SPACE IN BHUTAN



His Majesty *Jigme Khesar Namgyel Wangchuck*, 5th King of Bhutan

- A vision of His Majesty the King of Bhutan
- Started in 2016
- Government taking the lead:
 Division of Telecom and Space,
 Ministry of Information and
 Communications

CAPACITY BUILDING using BIRDS Project

- Joint Global Multi-Nations BIRDS Project
- •BIRDS-1 : Japan, Ghana, Mongolia, Nigeria, Bangladesh (5 countries)
- •BIRDS-2: Japan, Bhutan, Malaysia, Philippines (4 countries)
- Design, develop, test and launch 1U CubeSat at Kyushu Institute of Technology, Japan
- Hands-on experience and learning at low cost



Official logo of BIRDS Project



Example of 1U CubeSat

BHUTAN'S FIRST SATELLITE PROJECT

Objectives

- To enhance socio-economic development by using space science and technology
- To develop first satellite of Bhutan
- To develop capability in space science and technology



Members of BIRDS-2 project with faculty of Kyushu Institute of Technology, Japan

WAY FORWARD

Explore innovative approaches:

- Space governance : the changing role of government
- Facilitate participation of private entities
- Cost sharing/reducing mechanism
- Realise new market potentials using space applications
- •Build capacity in multiple disciplines : Holistic
- •Foster international cooperation: international organizations, countries
- Fulfill my role as the first space engineer/ first female space engineer

Thank you

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