



# Satellite Application in Agriculture in Bhutan

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# Outline

- Agriculture in Bhutan
- Use of Satellite technology in Agriculture
- Use of Satellite technology in Agriculture - Future Plans
- Existing Satellite Services in Bhutan

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# Bhutan



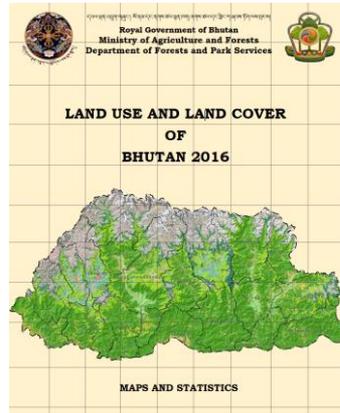


# Agriculture in Bhutan

- Around 8% of total land area is arable
- Only about 2.89% of total land area is under cultivation
- Agriculture engages about 59% of the total population - mostly subsistence farming

# Use of Satellite technology in Agriculture

- LandSAT imagery and data used to study change in land use and land cover mapping and monitoring in Agriculture and Forestry sector - Land Use and Land Cover (LULC) publications
- Weather forecast data used to provide Agriculture advisory to Farmers – Pilot phase





## Future Plans

- Yield Analysis and Forecasting for various agriculture commodities
- Water Resources Monitoring (Irrigation)
- Land degradation and Management
- Road Networks (Rural Access)
- Human and Animal Settlement & Migration trends (Rural-Urban Migration)



# Existing Satellite Services in other sectors

1. TV and Radio broadcasting
2. Radio broadcasting
3. Emergency communications
4. Weather forecasting
5. GLOF monitoring
6. Internet services
7. Telecommunication backhauling



**Thank You**