

“National Aerial Acquisition”

Mr. Joseva Racaca (Ministry of Land and Mineral Resources)

The Presentation Statement

“There is a need for High resolution Aerial images to produce highly accurate data through analysis which collaborates with each other in Fiji”

Satellite vs Aerial Photos

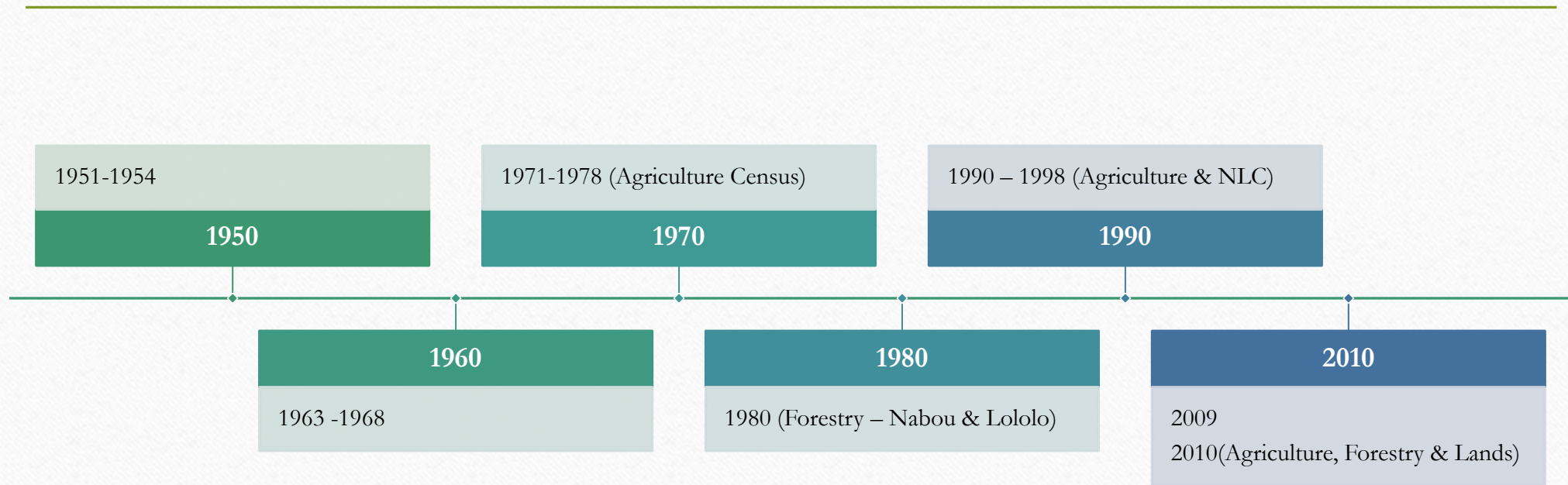


SATELLITE HAS METER
RESOLUTION



AERIAL IMAGE HAS
CENTIMETER
RESOLUTION

Fiji's Historical Aerial Images;



THE IMPORTANCE OF AERIAL IMAGERY AT NATIONAL LEVEL

National Aerial data is a sovereign asset which should be employed for a country's own development.

High quality development data is the foundation for meaningful policy-making, efficient resource allocation, and effective public service delivery.

It helps in the implementation, execution, and monitoring process of the plans towards achieving national development.

THE USE OF AERIAL IMAGERY AT NATIONAL LEVEL



Data Collection: Aerial imagery and data are essential for mapping, land use planning, and environmental monitoring.



Emergency Response: Aerial surveys aid in disaster response and recovery by providing real-time information about affected areas.



Infrastructure Management: Regular aerial assessments help in monitoring and maintaining critical infrastructure like roads, bridges, and utilities.



Agriculture: Aerial data supports precision agriculture, allowing farmers to optimize resources and improve crop yields.



Research and Conservation: It facilitates environmental research, wildlife monitoring, and conservation efforts.



National Security: Aerial surveillance is vital for national defense and security assessments.

The Benefits of National Aerial Acquisition



Aerial photography has many benefits, including capturing hard-to-reach angles and locations, getting a new perspective on familiar subjects, and surveying large areas quickly.



High-resolution imagery: Aerial images offer a high level of detail as they can be captured from lower altitudes than satellites. This is especially useful for applications that require detailed inspection.



Collections of historical images allow comparing the present and the past to detect changes, make predictions, and mitigate losses.

The Byproducts of Aerial Imagery



Forestry - aids in classifying land into cover types, in measuring the area in each classification, help to perform relative biomass analysis, drought stress, irrigation scheduling, predicting agricultural production, monitoring nutrition, and in preparing forest type maps.



Mineral - allows geologists to analyze the distinguishing geological features and structures, plant cover, past history of the site, soil properties, and topography of the study area.



Agriculture - This product can help to perform relative biomass analysis, drought stress, irrigation scheduling, predicting agricultural production, monitoring nutrition, pests and diseases that are affecting the photographed crop.



Disaster Management - Photogrammetry has been used for various types of natural disasters, such as earthquakes, volcanoes, landslides, floods, hurricanes, and wildfires.



Urban Planning - gives urban planners a clear overview of large areas of land, making road planning, real estate management, and land use calculations quick and easy



Lands - helps in obtaining important information about the physical objects and environment through the process of recording, interpreting, and measuring the photographic images

CONCLUSION

To conclude byproducts of Aerial Images enhances decision-making across various sectors by providing accurate, up-to-date information.

Having a common base data set ensures collaboration of data from various agency.

National Aerial Acquisition program would save resources and ensures data sustainability.

RECOMMENDATION



Agree on National Aerial
Acquisition Program



To establish a Committee
under the FGIMC.

The End

Any Question?



Discussion Question

- Does your Ministry / Organization use Aerial Imagery?
- In your Ministry / Organisation, do you need High resolution imagery?
- Would you approve the FGTAC Committee to continue its research on National Aerial Acquisition??