Capacity Development Need Geodetic Field - Fiji

Sanjesh Kumar Ministry of Lands & Mineral Resources

Workshop on GNSS Application on GNSS





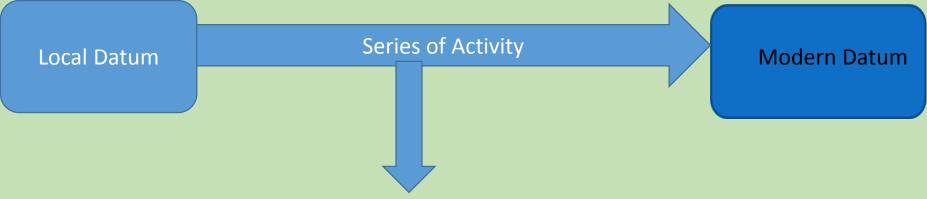








Capacity Development Need



- Understanding of GNSS
- GNSS CORS Network Management
- Reference Frame (Horizontal and Vertical Datum)
- GNSS Processing, Computation and Adjustment





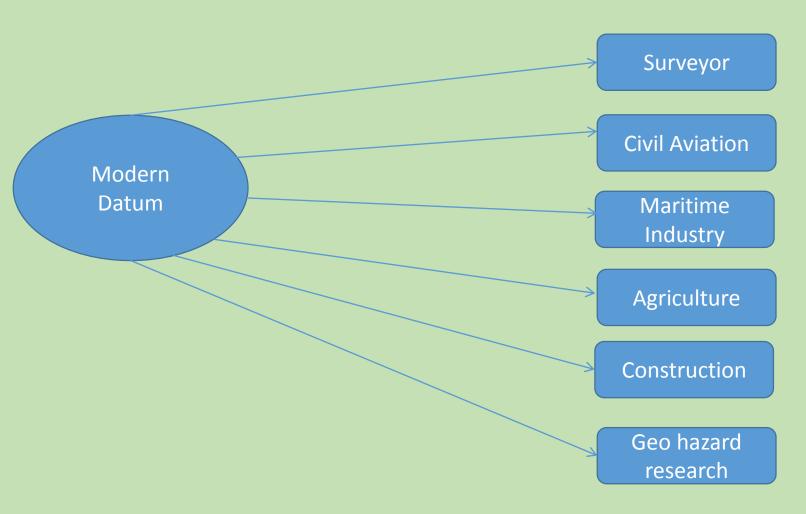








Capacity Development Need







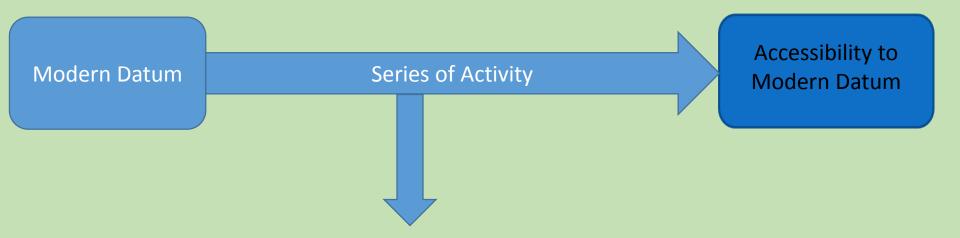








Capacity Development Need



- Updating existing Legislation
- Development of Policy and legal framework
- Understanding HOW modern datum contribute to country's economy
- How modern datum address emerging issues (Climate Change & Sea Level Rise)
- Sustainability of the datum (Experience and qualified Personnel)
- > Transforming of existing geospatial information to new datum
- > Formulate new Policy and Guideline
- Managing Geodetic Infrastructure







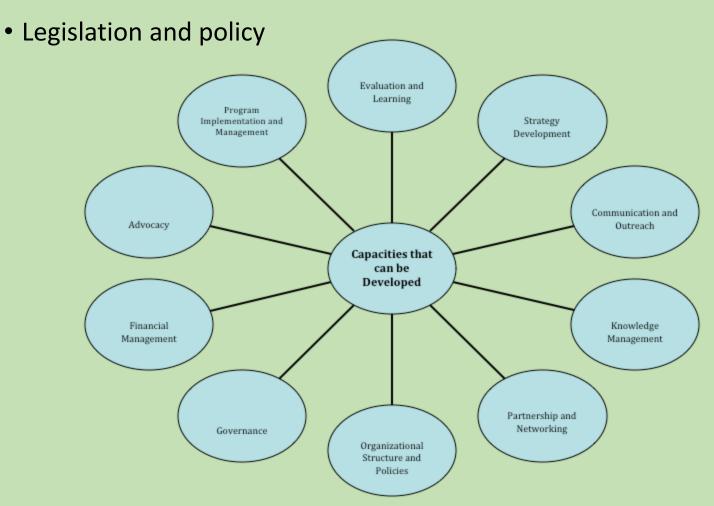






Implement a Capacity Development Plan

• Lack of Relevant Professional and Technical Skills:



IMPLEMENTATION PLAN

Datum Project GNSS Survey Campaign

May 2019



PROJECT SPECIFICATIONS & IMPLEMENTATION PLAN

MODERNIZING FIJI'S GEODETIC DATUM PROJECT

MAY - DECEMBER 2019

TABLE OF CONTENTS

1.0	General Overview5
2.0	Participating Institutions7
3.0	Campaign Objectives
4.0	Campaign Time Frame7
4.1	Base Station Receiver7
4.2	All Other Receivers8
5.0	Survey Station Details for the GNSS Survey Campaign10
6.0	Site Documentation Instructions14
6.1	GPS Site Occupation Forms14
6.2	Receiver Software/Firmware Version Number14
6.3	Antenna Height Measurement14
6.4	Site Identifiers
7.0	Instrumentation and Observation Instructions
7.1	Instrumentation
7.2	Observation Period and Data Downloading Schedule16
7.3	Data Sampling Interval
7.4	Minimum Elevation Angle16
7.5	Minimum Number of Satellites Tracked16
7.6	Satellite Health and Tracking16
7.7	Antenna Alignment17
7.8	Meteorological Records17
8.0	Data Collection, Collation and Dissemination
8.1	General
8.2	File Naming Conventions
8.2.	1 Receiver Raw Data Files18
8.2.	2 RINEX Data Files
9.0	Campaign Communications Network
10.	0 Budget19-20
8.3.	2 DVD Disk Labels19

Fiji Geodetic Strategy Model

