Digital Smart Cadastre

Derick Tan
UN-GGIM-AP Working Group 2 Parallel Meeting
Digital Transformation: Are you ready?
The Regulatory Eco-System

Who
Registered Surveyors

What
Compliance to Boundaries and Survey Maps Act, Rules and Directives

When
Beginning till end of development

How
Inspection of plans, data submitted

Why
Trust in land registration regime
Fundamental data for land & infrastructure development
Basis for land transactions
Pillars of Cadastral Survey Eco-System

Stable Property Market Enabling Confident Property Transactions

Legislation (Boundaries & Survey Maps Act)
Geodetic Infrastructure
Regulator (Chief Surveyor)
Service Providers (Registered Surveyors)
Users (Public Agencies and General Public)

Modern Cadastral Survey System Serving Internal and External Users
National Positioning Infrastructure

Precise GNSS Infrastructure

Horizontal and Vertical Control Infrastructure
Our Transformation Journey

before 2004
Paper Plan

2004
Image Plan

Now
Smart Digital Plan

Pain points!

Common errors

Many Forms Submitted

Non-machine processable formats

Laborious check lists for officers
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- Professional RS Portal for surveyors to make submissions
- Online request for survey data
- Dedicated surveyor workspace
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- Digital workflow from submission to approval
- Online digital plan generation
- Instant update of submission information upon approval
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- Errors spotted immediately at RS Portal for immediate action
- Automated validation tools
- Adopted widely-used open LandXML exchange format
Reduction of Regulatory Burden & Cost

Driving to the core of what matters to customers

Forms required

Turnaround time for customers

Self-service DIY approach
Online request for survey data
Risk Management

_Identify, Manage, Collaborate_

A community-centered methodology

3
Software vendors develop software

4
Months of trial submission phase for RS

On-boarding programs to help the RS during transition period

- Training for SLA staff
- Roadshows for Vendors
- Pilot submission with selected RS
- Personalized clinics

Quarterly updates at Tea Session
Training for RS
Technical workshops for RS
Launch of Trial Submission Phase
Launch of Hotline
Thank you