



DIGITALIZATION OF LAND ADMINISTRATION IN GHANA

TRANSFORMING LANDS COMMISSION

Presentation by:

BEN ARTHUR

DEPUTY EXECUTIVE SECRETARY, LANDS COMMISSION



"To provide high quality, reliable and efficient services in geographic information, guaranteed tenure, property valuation, surveying and mapping through teamwork and modern technology to our stakeholders"

VISION

"To become a Center of Excellence for Land Services Delivery"

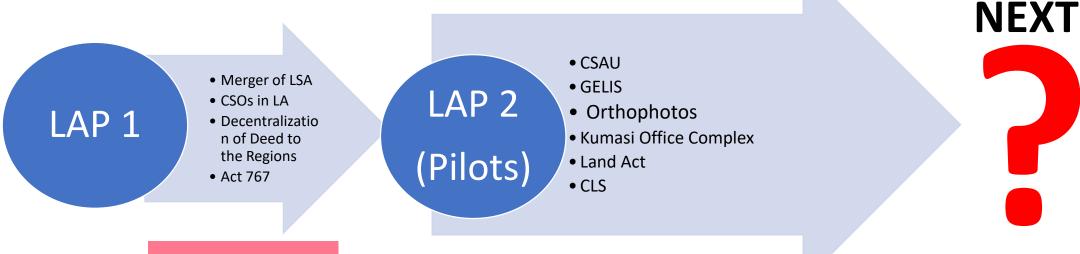
GOAL

"Customer satisfaction is our goal"

Our target

•"To efficiently maintain up-to-date land records, provide reliable land information, equitably and effectively deliver land administration services to improve tenure security & unlock DEAD CAPITAL in land, in order to increase the contribution of land to socio-economic development for the BENEFIT OF THE GHANAIAN PEOPLE and the country."

BRIEF BACKGROUND OF INTERVENTIONS





MARKET SOUNDING - 2018

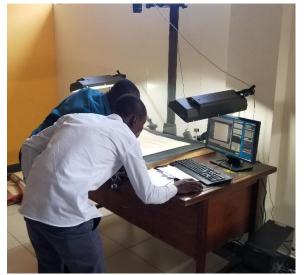
Wholistic Transformation agenda anchored on the successes and gaps identified from previous interventions

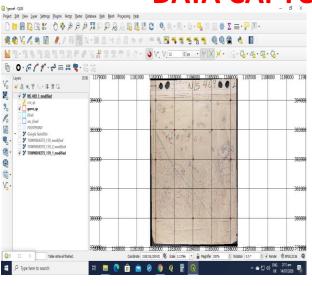
"It is unacceptable that some sections if the country's land administration were still in a manual environment in the age of technology"

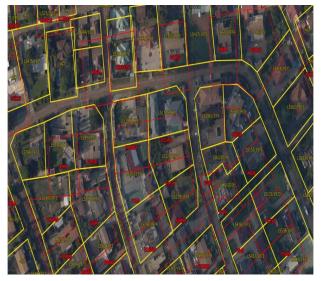
HIS EXCELLENCY NANA ADDO DANKWA AKUFO-ADDO PRESIDENT OF REPUBLIC OF GHANA

EFFORTS SO FAR

DATA CAPTURE & CONVERSION





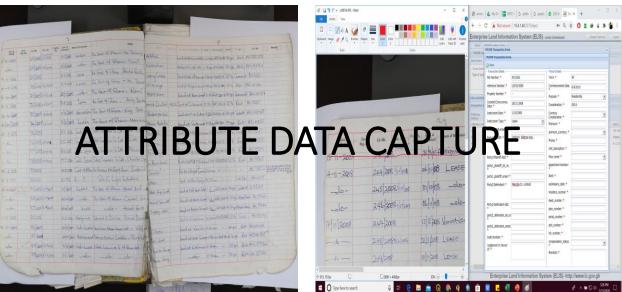




Scanning

Geo-referencing

Digitizing & Integrating



Archiving



FILE MANAGEMENT & ARCHIVING









DIGITALIZED BUSINESS PROCESS

GELIS

ELIS (IN-HOUSE)

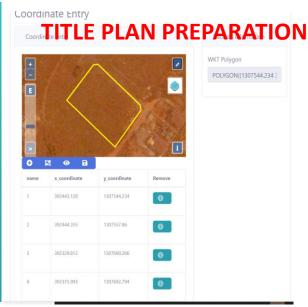
- Case Management system
- Digital records information/ consolidated searches
- Performance Monitoring & Management (Delivery & Compliance Dashboard)
- Data Analysis and Reporting
- Online Services & Tracking for selected applications
- Online payment through Ghana.gov platform

PILOT DIGITALIZED BUSINESS PROCESSES



Fax: 0302 761840 Email: info@lc.gov.gh Web: www.lc.gov.gh





PUBLICATION MGT BILLING MGT Sent for Publication LANDS COMMISSION SERVICE BILL Date: 13 Feb 2021 18:50:11 GMT Service Type: APPLICATION FOR REGIONAL NUMBER Ref Number: 10617169 Client Name: RHODEN DOGBE (CGREACY/TREESONS APPLICATION FOR FRST RESISTRATION ENSTAINS RECORD Surveyor's Client Name: Benjamin Armah Quave ICCURSO/NET/ERRORS AREA CARLON AND ERKY REGISTRATION ENGINE RELIGIO SAME ANTW FAMES (CGARGACN/FARTITITIE 4 LEGASTER MES BROSET ASIE LCGARGACVA5812019 APPLICATION FOR PAST REGISTRATION S/N Bill Number Description Amount (GHS) Regional Number Bill 16.0 5 UIDGASSISSIS ROBERT COARTE! LAWFT . LCGARGACNT4608212818 ARRICATION FOR FIRST REGISTRATION Service Charge (CGARGAPOVESADALEDE) Client Service Officer: BENJAMIN ARMAH QUAYE

ELIS SUPPORTED SERVICES

Regional Number Plan **Approval**

Searches **Stamping** Concurrence

&

Consent

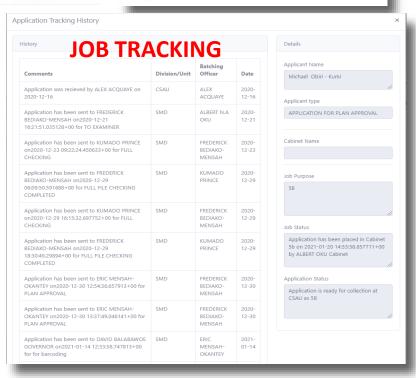
- Assign
- Sublet
- Mortgage

Title Registrati on

- (First Registration,
- Transfer (Whole or Part),
- Object

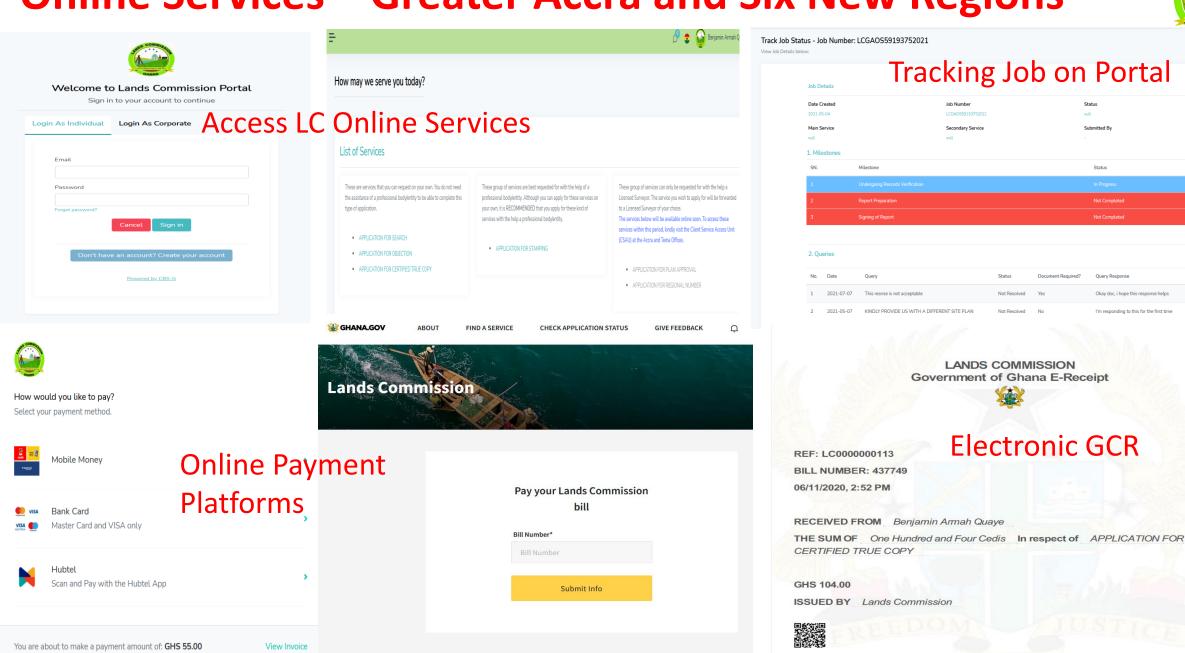
Deeds Registrati on

LOGARGIACHTZZERITZE

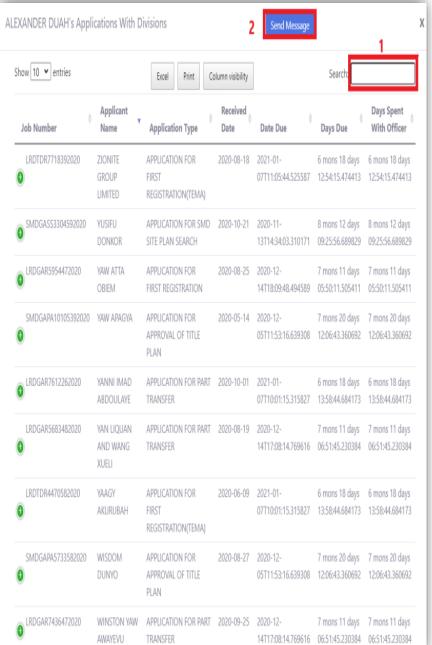


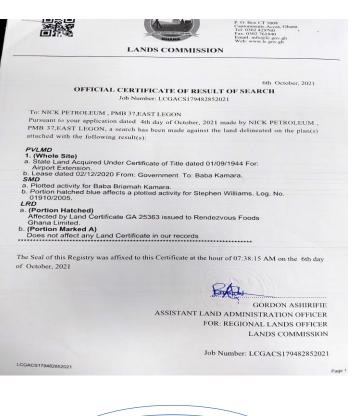
For: Regional Lands Officer

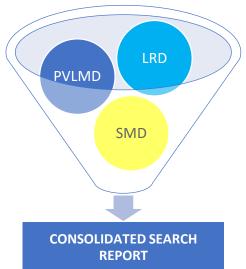
Online Services – Greater Accra and Six New Regions









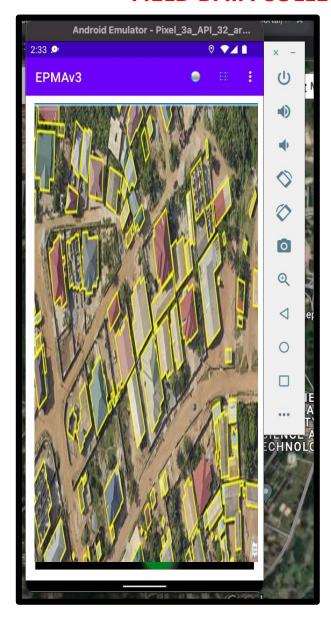


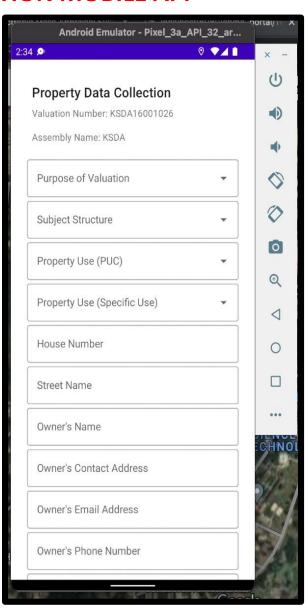
SOP & TECHNICAL OPERATIONAL MANUAL

DELIVERY & COMPLIANCE DASHBOARD

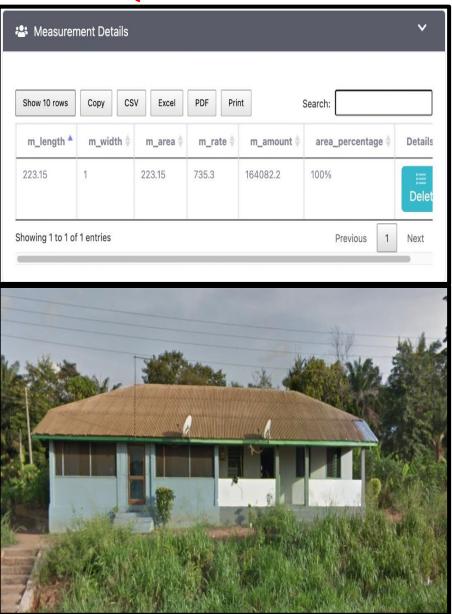
DIGITAL PROPERTY MASS VALUATION

FIELD DATA COLLECTION MOBILE APP





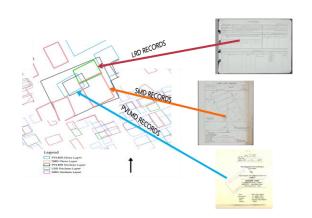
QUALITY ASSURANCE



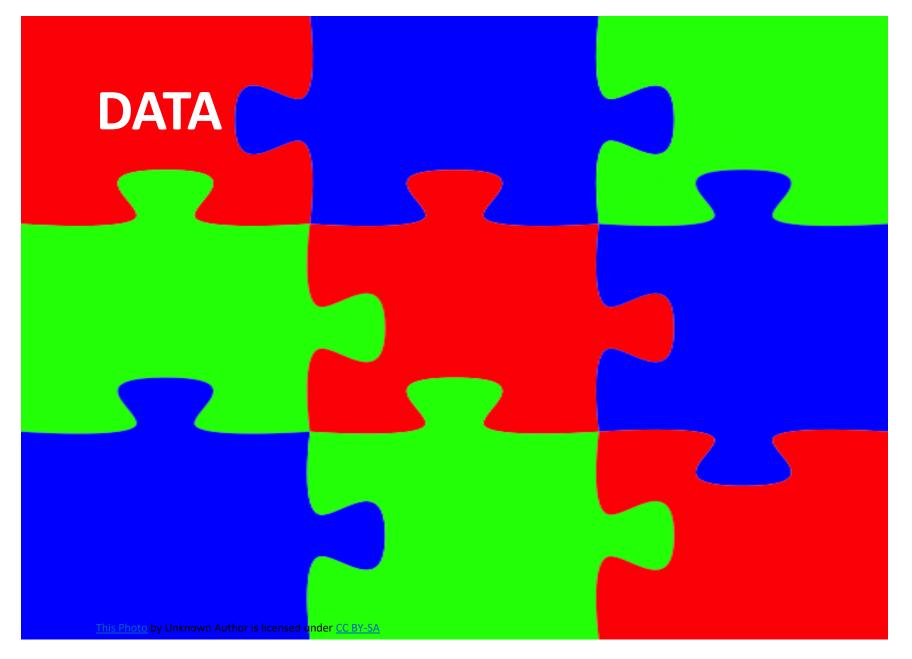
GAPS/CHALLENGES & KEY CONSIDERATIONS

Overlaps in spatial data across Divisions

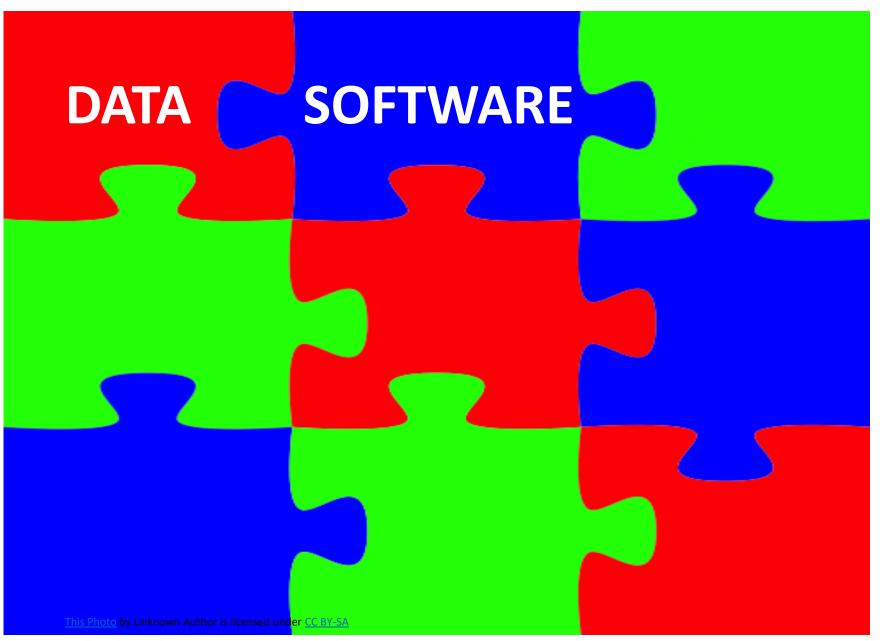




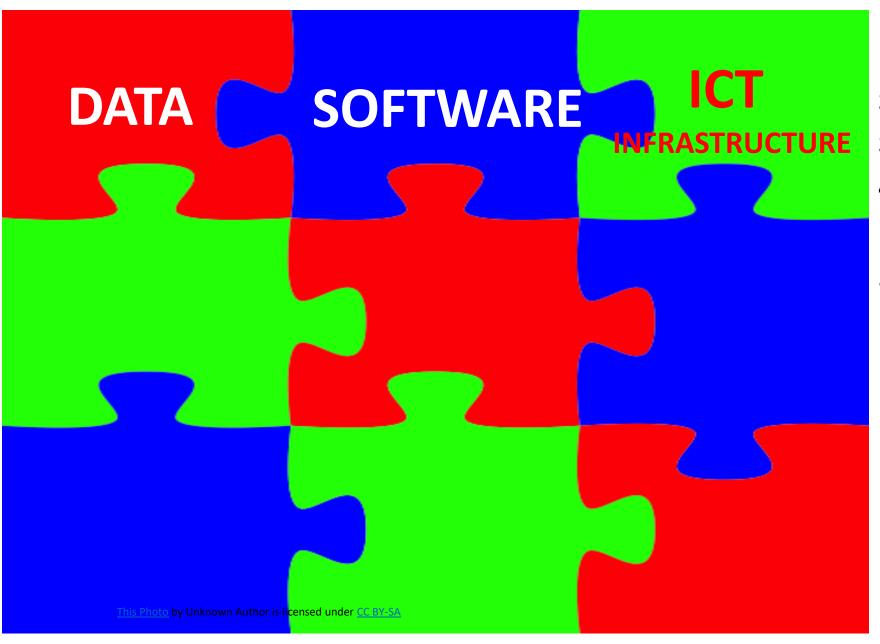
- Limited digitization coverage & data gabs manual and digital working side-by-side
- Generation of Final output from data captured during processes
- IT infrastructure limitations Data Centre, Network infrastructure,
- Inadequate HR Capacity (In-house software team)
- Office layout and poor working environment



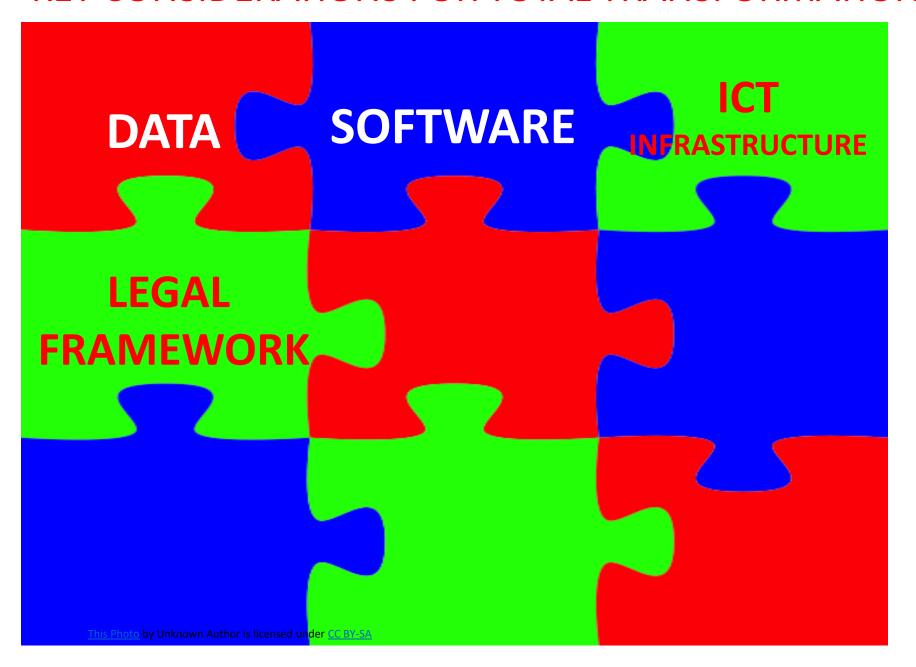
- L. DIGITAL BASE MAPS
 WITH LIDAR
- 2. SURVEY DATA (CORS & GRN)
- 3. FIT-FOR-PURPOSE SURVEYING TECHNIQUES
- 4. DIGITAL DATA (MANUAL TO DIGITAL DATA)
- 5. SYSTEMATIC
 RECONCILIATION OF LC
 RECORDS WITH
 GROUND SITUATION
- 4. DATA CREDIBILITY



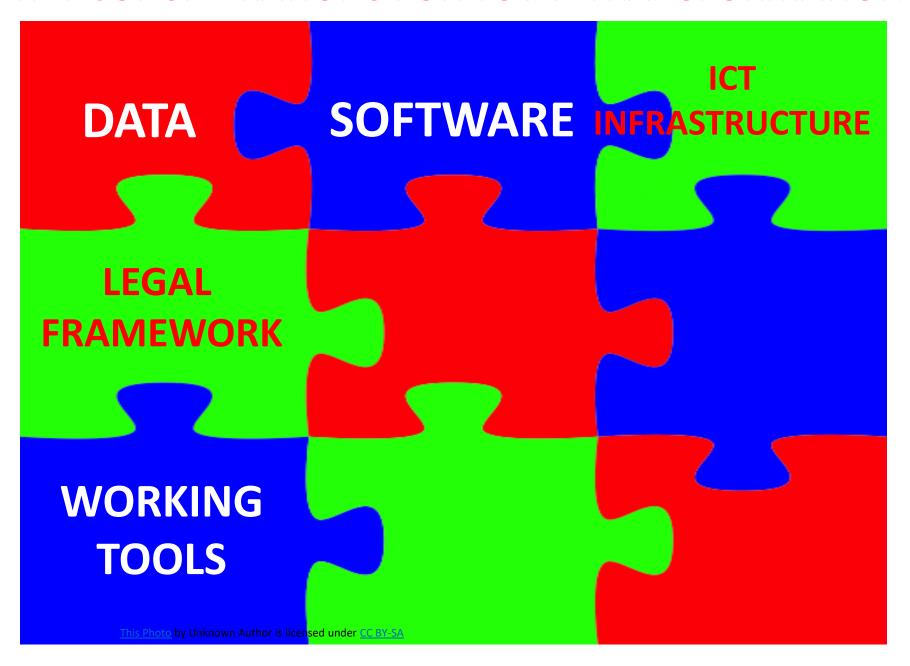
- 1. LIS UPGRADE OF GELIS/ELIS
 (COVERAGE & ADDITIONAL FUNCTIONALITIES)
- 2. BUSINESS PROCESS (REENGINEERING) & AUTOMATION
- 3. EFFICIENCT DATA
 CAPTURE,
 RETRIEVAL AND USE
 IN GENERATING
 FINAL OUTPUTS
- 4. STATISTICS AND REPORTS



- 1. RELIABLE SERVICE AVAILABILITY
- 2. NETWORK INFRASTRUCTURE
- 3. DATA SECURITY
- 4. HARDWARE (SERVERS, STORAGE, POWER ETC)
- 5. CLOUD COMPUTING, DR SITE, BACKUP SITE

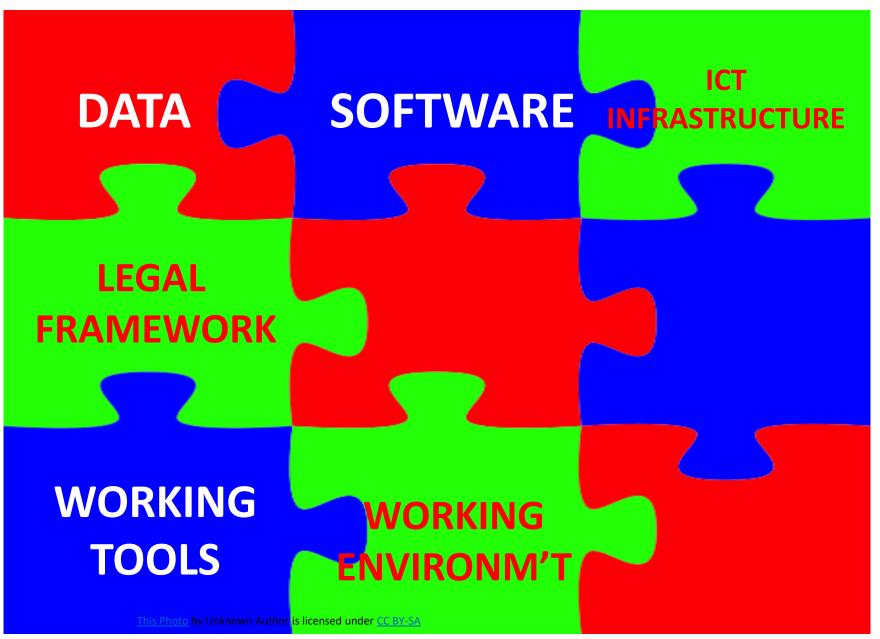


- 1. REVIEW OF EXISTING LEGAL FRAMEWORK
- 2. WORKING WITHIN LEGAL FRAMEWORK (LAND ACT)
- 1. LIS TO
 OPERATIONALIZE LC
 AND LAND ACT
- 2. JUDICIARY DATA SHARING & TRAINING

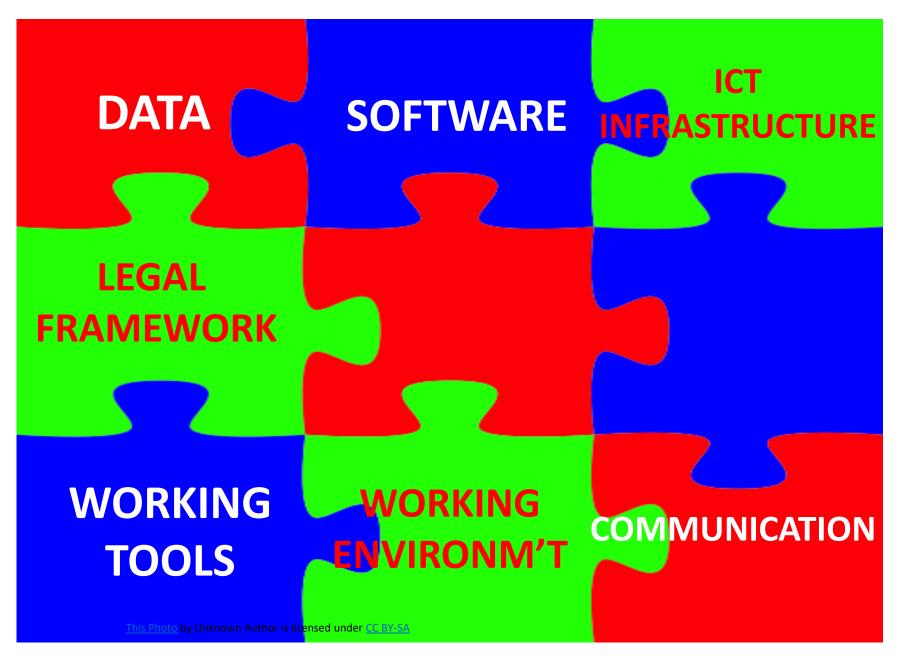


1. COMPREHENSIVE TOOLING & RETOOLING LC

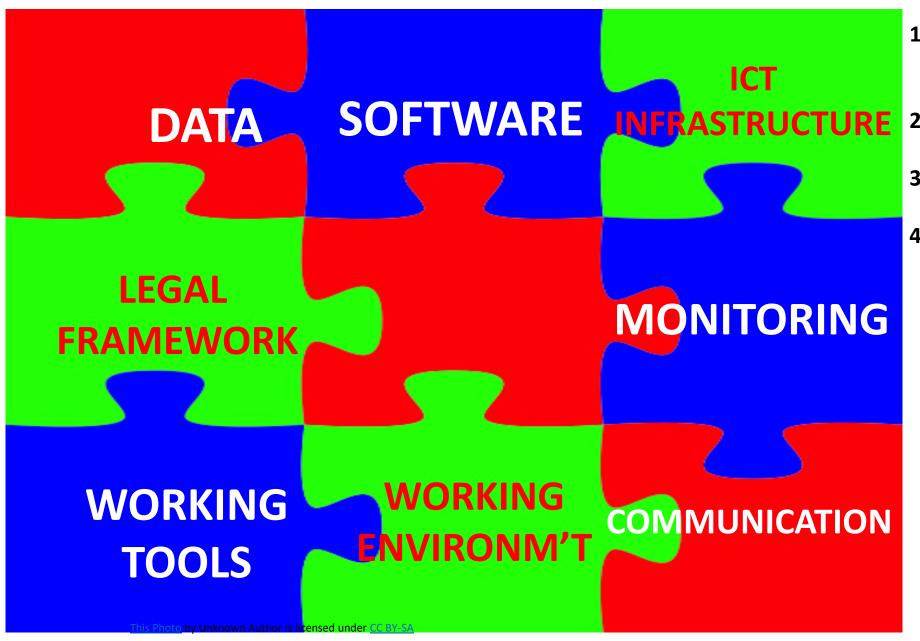
VEHICLES, COMPUTERS, ASSESSORIES, PRINTERS SCANNERS, SURVEY, EQUIPMENT ETC.



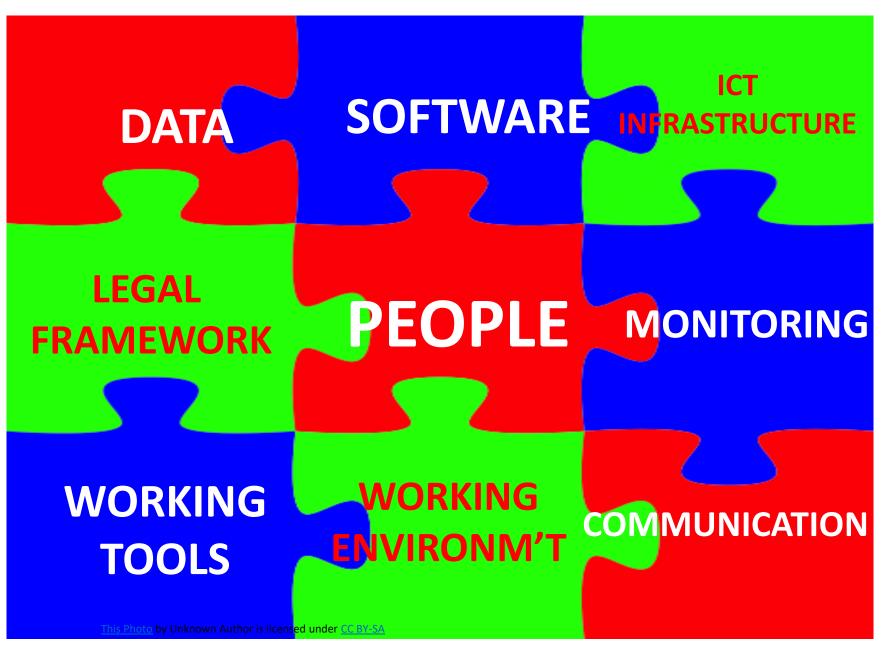
- 1. PHYSICAL INFRASTRUCTURE.
- 2. DECENTRALIZED OFFICES
- 3. 13 MODEL REGIONAL OFFICES
- 4. 10 MODEL SATELLITE CSAUS
- **5. LC STAFF TRAINING CENTRE**



- 1. INTERNAL
- 2. EXTERNAL
- 3. STAKEHOLDERS (CORPORATE/PROFESSIONAL)
- 4. PORTALS & DIGITAL ACCESS TO LAND SERVICE DELIVERY INFORMATION

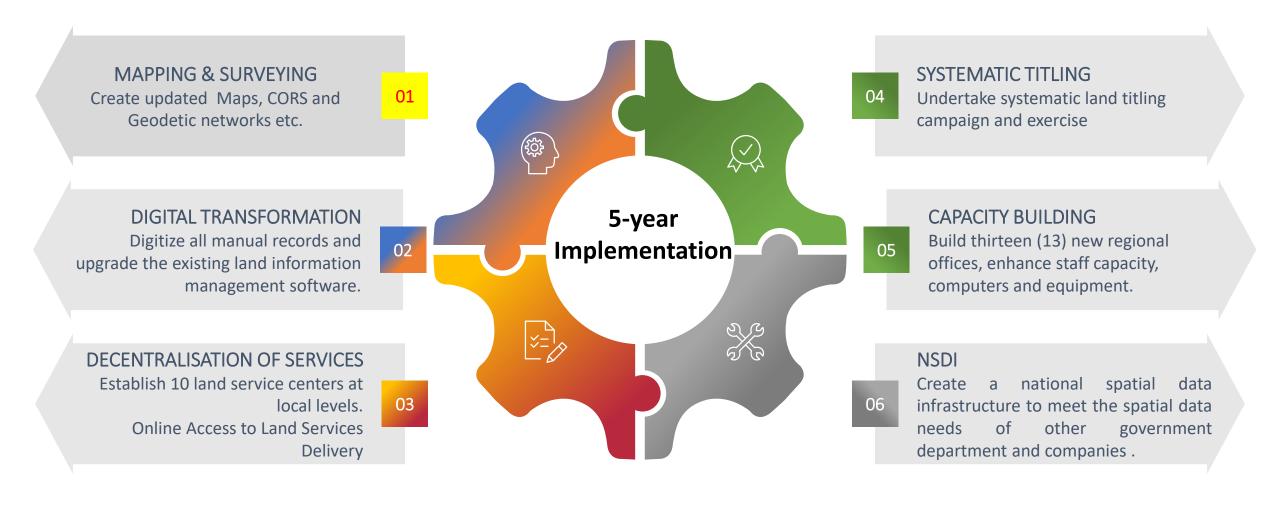


- 1. REVIEW OF SOP & OPERATING MANUALS
- 2. COMPLIANCE STANDARDS
- 3. DELIVERY TARGETS
- 4. WORK CULTURE CHANGE



- 1. RATIONALIZATION,
 RE-ALLIGHNMENT &
 INTEGRATION
- 2. CAPACITY BUILDING
- 3. RETRAINING
- 4. MOTIVATION /
 CONDITIONS OF SERVICE &
 REWARD SYSTEMS (IGF)
- 5. CHANGE MANAGEMENT

PROJECT COMPONENTS



IMPROVED MAPS AND SPATIAL DATA

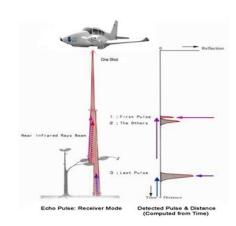
National Digital Base Maps

Line Maps 1:2500





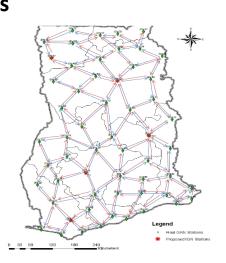
High Resolution (10Cm/4pnt.)



Lidar Products



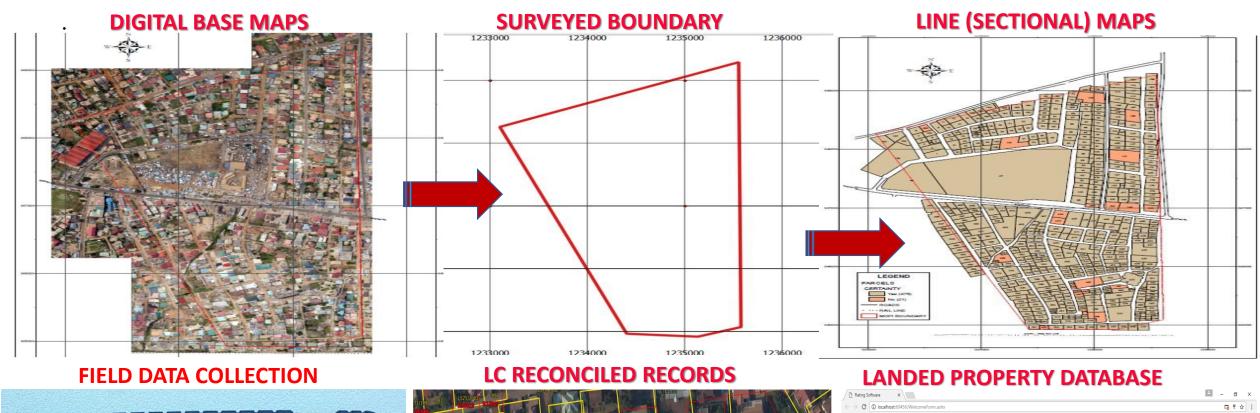
IMPROVED MAPS AND SPATIAL DATA

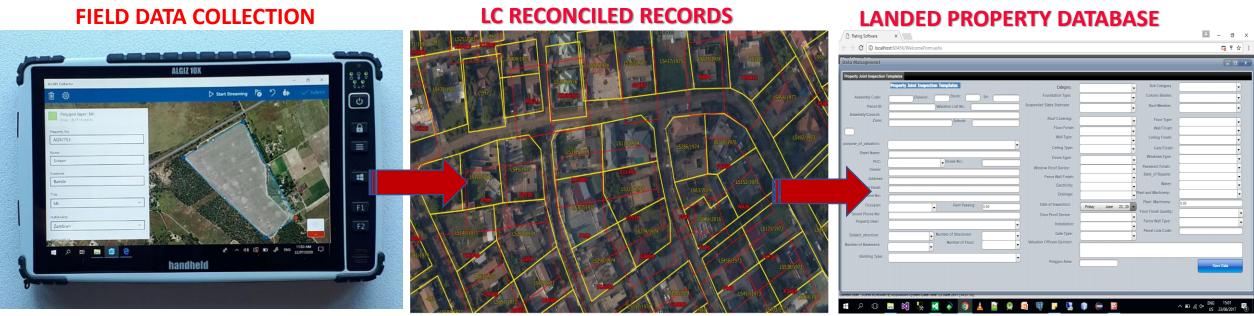


Establishment of CORs (Nationwide)

Establishment of GRN

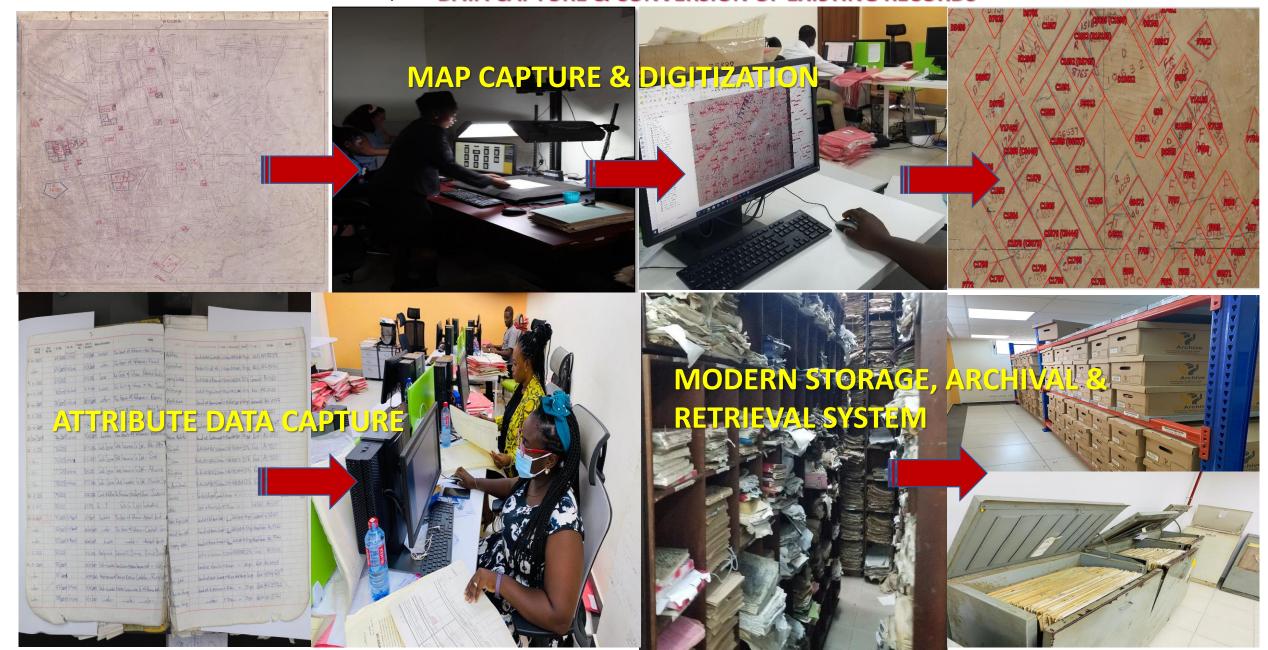
SYSTEMATIC CREATION OF NATIONAL CADASTRE – (LUSPA, GhIS, LISAG, MMDAs, CLSs, CICOL)



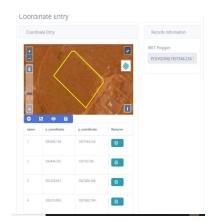


DIGITAL TRANSFORMATION OF LAND SERVICES DELIVERY

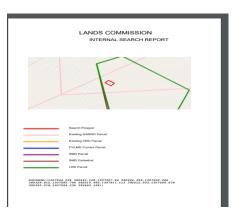
DATA CAPTURE & CONVERSION OF EXISTING RECORDS



DIGITAL TRANSFORMATION – BUSINESS PROCESS AUTOMATION



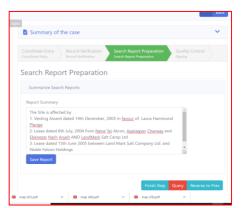
PLAND APPROVAL &
TITLE PLAN PREPARATION



ACCESS RECORDS
SEARCHES



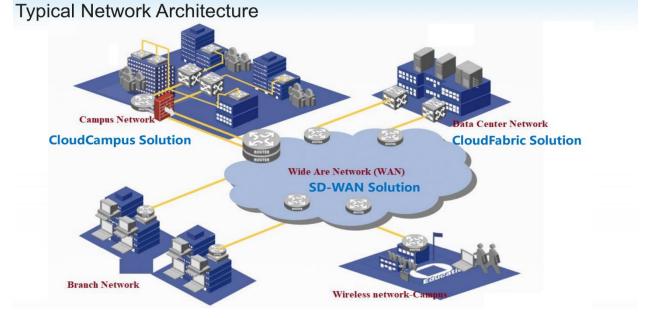
JOB ALLOCATION & TRACKING





FINAL REPORTS & OUTPUTS

Lands Commission
Accra Data Center HLD



NETWORK INFRASTUCTURE

COMBINATION OF ON-PREM & CLOUD DATA CENTRES

DCENTRALIZATION OF LAND SERVICES DELIVERY

IMPROVED WORKING ENVIRONMENT (CONSTRUCTION OF 13 MODEL REGIONAL OFFICES)

TAMALE KOFORIDUA SEKONDI CAPE COAST BOLGATANGA HO **TEMA**



6 NEW REGIONS OTI **BONO EAST NORTH EAST SAVANNAH** WESTERN NORTH **AHAFO**

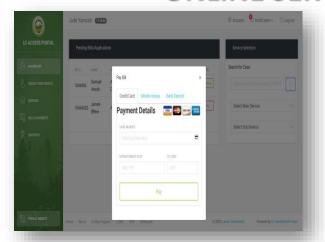


10 MODEL DISTRICT **CLIENT SERVICE CENTRES** (DISTRICT CSAUs)

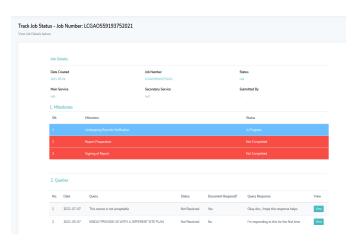
MODEL REGIONAL OFFICES

ONLINE SERVICES NATIONWIDE









PAYMENTS -GHANA.GOV

E-GCR RECIEPTS (CAGD)

TRACKING OF APPLICATION

CAPACITY DEVELOPMENT & IMPROVED WORK CULTURE

STAFF RATIONALIZATION, RETRAINING AND REDISTRIBUTION – CHANGE MANAGEMENT

CONTINUOUS TRAINING AND CAPACITY DEVELOPMENT

COMMUNICATION & PUBLIC ENGAGEMENTS

RETOOLING THE LANDS COMMISSION

- COMPUTERS AND ACCESSORIES, PRINTERS ETC
- SCANNERS
- OPERATIONAL VEHICLES
- FURNITURE
- SURVEY EQUIPMENT









WHERE ARE WE?

ALL TECHNICAL PROCESSES COMPLETED

FINANCING MODEL UNDER DISCUSSION WITH MoF

• DRAFT LEGAL AGREEMENT CONCLUDED WITH ATTORNEY GENERAL'S OFFICE

PROJECT EXPECTED TO COMMENCE IN 2023

CONCLUSIONKey Expected Outcomes

- Introduce innovative fit-for-purpose technologies for survey to reduce time and cost of surveys
- Possibility of conducting searches with "plot numbers" as well as plans extracted from layouts, etc
- Opportunity for conducting instant searches online
- Provide reliable and updated digital map data for use by ALL Map once and Use by ALL
- Establish and share credible and reliable land records with land holding groups, CLSs, LUSPA, MMDAs and the general public to improve service delivery and security of tenure
- Operate almost completely digital and Improve turnaround time for delivering all land services
- Build a land Administration Institution manned by well trained and qualified professionals
- Create a conducive working environment for staff and client of Lands Commission
- Ultimately create a new client focused Lands Commission as a "Center of Excellence for Land Services Delivery"

THANK YOU FOR YOUR ATTENTION

KEY PROJECT INTERVENTION AREAS

Project Components

1. Improved Maps and Spatial Data

- a. Production of Digital Base Map
- b. Establishment of GRN and CORS & Transformation parameters)
- c. National Spatial Data Infrastructure (NSDI)

2. Digital Transformation of Lands Commission

- a. Data Conversion and Integration
- b. Business Process Reengineering & Automation
- c. Land Information System
- d. System Operation & Maintenance
- e. Augmentation of ICT Base

3. Decentralization of Land Service Delivery

- a. Construction, Equipping & Establishing 10 satellite CSAUs
- b. Construction, Equipping & Establishing 13 Regional Offices
- c. Development & Management of Online Platforms Services & New Business Models
- 4. Systematic Recording/Titling, Verification and Creation of National Cadastre
 - a. Design of Strategy for creation of National Cadastre
- b. Preparation of Sectional Maps & collection of field data for National Cadastre, Property Taxation etc, in selected urban areas
- 5. Capacity Development, Improved Work Culture and Corporate Governance
 - a. Transforming Culture by Standards
 - b. Human Resource Development
 - c. Augmentation of Logistical Base (Vehicles & Equipment)
- **6. Project Management**