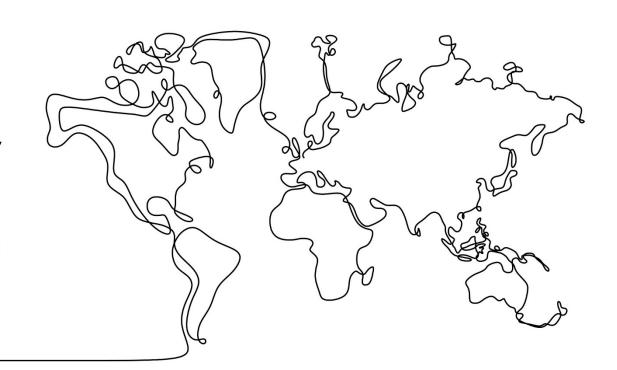




A Presentation by Nicholas ALLO PhD FRGS

GEOGRAPHY, STRATEGY AND DECISION MAKING

Enabling Subnational IGR Growth, Facilitating Social Inclusion and Underpinning Community Cohesion



Enabling Subnational IGR Growth, Facilitating Social Inclusion and Underpinning Community Cohesior

Introduction

THEMATIC: Geography as a catalyst for economic growth and social cohesion

PLACE HOLDERS:

- The administration of Internally Generated Revenue (IGR) is delineated by geography
- Population distributions and their socio-economic traits are better depicted using geography
- We can better understand income constraints and citizen expenditure patterns, also with geography

MISCONCEPTIONS

- Geography and positive financial performance, have no correlation
- Geography is mostly about maps
- Geography and its derivatives need complex technical expertise

UNBUNDLING RELEVANCE

- Every sphere of life and profession intersects geography
- Geography is mostly about the recognition of patterns and their distribution
- Technology, if used to interpret geography, does not make one an expert

THIS PRESENTATION

- Present a geography walkthrough, context and relationships
- Offers a geography led strategy bias and its impact on decision making
- Builds up from a series of connected contexts to explore the IGR dynamics of a state
- Use demonstrations and use-case to contextualize opportunities

NOTES

SOME THOUGHTS:

- Every day geography Landmarks or Point of interest references
- Interactive geography Directional navigation and street references
- Contextual geography Cultural origins, language and ethnic references





Enabling Subnational IGR Growth, Facilitating Social Inclusion and Underpinning Community Cohesion

Attributions

NOTES

REMINDERS:

- Geospatial data repositories should be reviewed every 3 months or earlier
- Administrative boundaries are managed by state and federal institutions
- Geographic data needs to be collected based on defined use case and accuracies



https://bit.ly/3JKSPqZ

DEMONSTRATION RESOURCES: Building footprints and digital base-map service



https://bit.ly/3PgV9XU



https://bit.ly/3dopPJA



Time and scheduling reference



Geography and spatial data reference



Technology resource reference



SOURCE:









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The Building Blocks

THEMATIC: Enabling Subnational IGR Growth

OVERVIEW:

- Our ad hoc approach to evaluating IGR opportunities limits its effectiveness and derived value
- Data should ideally not be examined for IGR prospects, devoid of location and population traits

SPATIAL CONCEPTS

- Modifiable Unit Area Problems (MAUP)
- Dasymetric Mapping
- Feature Class, Layers and Geometry
- Unit Areal Geography or Postcode

DATA INTERACTIONS

- Network and Spatial Analysis
- Point in Polygon
- Address Gazetteer Framework
- Spatial/Geospatial Database
- Projection Coordinate System

TECHNOLOGY

- Global Navigation Satellite System (GNSS) Infrastructure
- Geospatial Map Services (base map)
- Mobile and Digital Mapping

NOTES

POPULAR GEOGRAPHY TERMS:

- Geographic Information Systems/ Science
- Geographic Positioning Systems (GPS)
- Geospatial Envelope

REFERENCES:

- MAUP https://bit.ly/3Q9JOKm
- Dasymetric Mapping https://bit.ly/3BOVQon
- Postcode https://bit.ly/3bJV15k







Public Sector Engagement

PROJECT: National Infrastructure Advisory Facility (NIAF) National Economic Modelling

SUMMARY:

Lead the team tasked with producing an infrastructure map for the country and leveraging the regional insights it offered, to develop a national economic model on behalf of the federal government of Nigeria







Private Sector Engagement

PROJECT: The Imo Economic Mapping and Competitiveness Study

SUMMARY:

Partner the academia, private and public sector to explore and develop a state socio economic model for targeting investments and interventions that improves prosperity across Imo state, on behalf of the Chief Economic Advisers' office







IGR Relevance

OPPORTUNITY: Sub-National Economic Modelling

IMMEDIATE CHALLENGES:

- No definitive source of geographic data available or leveraged in economic model building
- Multiple debates persist on what data sources are viable to model Nigeria's economic contexts
- Organizations and institutions continue to fail at collaborating to produce data ecosystems
- States are yet to evolve a holistic framework to assess regional economic prospects and banding

SCENARIO DEMONSTRATION:

- Examine how geographic components help model IGR
- Explore components within unit geographic clusters
- Review the influence of MAUP on socio-economic data

NOTES

SOME ACTION POINTS:

- Data standardization and centralization
- Define a unified unit area of geography
- Refine geospatial data projection frame
- Feature transformation and translation
- Establish a geodata and storage standard





STRATEGY







Reflecting and Forecasting

THEMATIC: Facilitating Social Inclusion

OVERVIEW:

- Understanding how households are clustered into groups helps better localize interventions
- It is important to know that Nigeria's biggest spenders are mostly 'aspirational buyers'
- Categorizing regions based on visual traits can obstruct the identification of hidden opportunities

DATA CONNECTEDNESS	GEOGRAPHIC DISPERSAL	DERIVED INSIGHTS
Street name and referencingAdministrative extents	Service coverage or areaUnit geographic area or postcode	Economic and social clustersDistribution and circulation patterns



TERMS TO REMEMBER:

- Geodemography and pen portraits
- Geomarketing and target marketing
- Customer/ consumer segmentation
- Catchment regions





Heirlooms & Silver Spoons Accumulated Wealth New Money Struggling Urbanites Decent Income Living Day to Day Average Lifestyle Well Paid Executives Closed Off Families Brink of Poverty SHOMOLU LGA **VISUAL EARTH**

Strategy

Public Sector Engagement

PROJECT: Operate an Institutional Service Management (ISM) Strategy with geomatics and geospatial communities in Nigeria

SUMMARY:

Coordinate strategies focused on aiding professionals, organisations and institutions to commodify geospatial infrastructure and resources, whilst developing a collaborative support network across the community







Private Sector Engagement

PROJECT: WEY Consumer Targeting Strategy and Service Framework

SUMMARY:

Coordinating the development and delivery of dynamic consumer targeting services and its digital repositories (e.g. WEY Job; WEY Rewards etc.)







IGR Relevance

OPPORTUNITY: Understanding Communal Dynamics and it Economic Influences

IMMEDIATE CHALLENGES:

- Typical economic and market assessments are based on large and inconsistent areal contexts
- Market segmentation and consumer profile development still incapable of household targeting
- Service providers still adopt fuzzy customer differentiation models rich/ middle income/ poor
- Several service providers are unaware aspirational buyers are the bulk of their customers

SCENARIO DEMONSTRATION:

- Visualizing pen portraits and their geographic distribution
- Market sizing using geodemographic profiles

NOTES

SOME ACTION POINTS:

- Focus on desired outcome not tech use
- Think tech agnostic, leverage on context
- Visualize thematic spatial distributions
- Keep in mind, maps are static. Data is not





DECISION MAKING







Objective Milestone-Pathways

THEMATIC: Underpinning Community Cohesion

OVERVIEW:

- Building and safeguarding communal continuity requires understanding everyone is different but yet similar
- Citizenry access to and payment for public and consumer services should be better thought through

THEMATIC VS. COHORT

- Distributing utilities and services
- Accessing healthcare services
- Engaging in consumer marketing

THE LEAKY BUCKET

- Present individuals an alternative
- Understand individual transaction patterns
- Avoid a one-size fit all approach
- Objectively associate cohorts

TENURE VS. OUTCOMES

- Health phenomena intervention
- Public services, e.g. bin collection

NOTES

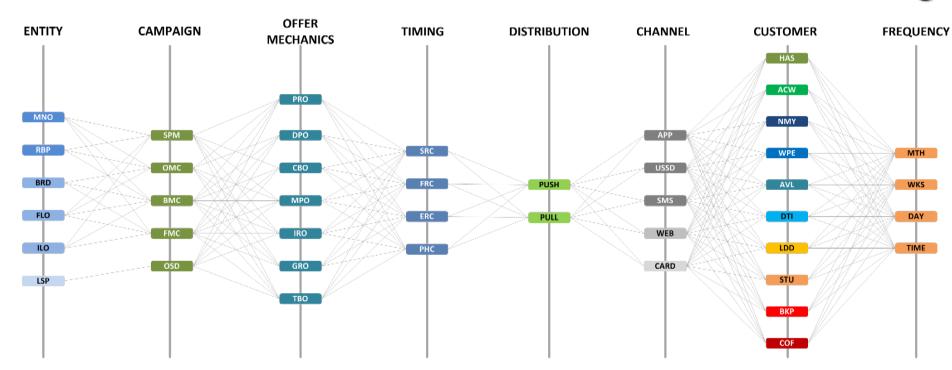
TECHNICAL TERMS:

- Data indexing and decision trees
- Adjacency and spatial auto-correlation
- Origin destination matrices
- Point in polygon and geo-fence routines





Decision Making



ACRONYMS

ENTITY	MNO RBP BRD FLP ILP LSP	Mobile Network Operator Retail Banking Provider Brand Enterprise/ FMCG Formal Lifestyle-Service Provider Informal Lifestyle-Service Provider Lifestyle Support Provider
CAMPAIGN	SPC OMC BMC FMC OSD	Service Provider Marketing Own Marketing Campaign Brand Marketing Campaign Fulfilment Marketing Campaign One-Off Service Delivery
FREQUENCY	MTH WKS DAY TIME	Calendar Month, 4 weeks Calendar Week, 7 Days Calendar Day, 24 Hours Period within a Day

LEGEND



OFFER MECHANICS	PRO DPO CBO MPO IRO GRO TBO	Points & Rewards Offering Discounted Product Offering Cash Back Offering Multi-Purchase Offers Instant Rewards Offering Gamification Reward Offers Time Based Offers
TIMING	SRC FRC ERC PHC	Season Related Calendar Faith Related Calendar Event Related Calendar Public Holiday Calendar
DISTRIBUTION	PUSH PULL	Service Delivered via Network Service Requested by Consumer

ENTITY/Individual Service Providers

CHANNEL/ Card Linked Marketing

CATEGORY	ACW NMY WPE AVL	Accumulated Wealth New Money Well Paid Executives Average Lifestyle
CUSTOMER CATEGORY	DTI LDD STU BKP COF	Decent Income Living Day-to-Day Struggling Urbanites Brink of Poverty Closed Off Families
CHANNELS	APP USSD SMS WEB CARD	Mobile Application Service Short Code Messaging Service Text Messaging Service Web API Services Card Linked Services

Public Sector Engagement

PROJECT: Text Based Incident Reporting, Dispatch and Positioning for LASAMBUS

SUMMARY:

Engineered the geo-locating of USSD callers and reduced ambulance dispatch times for emergency call out to well under 5 minutes, from over 20 minutes.







Private Sector Engagement

PROJECT: Supporting Start-ups Build and Operate Intuitive Market Strategies

SUMMARY:

Empowering start-up founders review the appeal and prospect of their propositions, whilst identifying their most likely cohort of patrons, their patterns and its impact on their expected earnings.







IGR Relevance

OPPORTUNITIES: Geography Led Policy Formulation and Execution

IMMEDIATE CHALLENGES:

- Policy efforts are mostly devoid of knowledge about where prospective beneficiaries reside or who they are
- The interdependency of lost or reduced earnings and public works is rarely examined
- Data and service partnerships between States and the private sector can be difficult to negotiate
- State engagements with its economic sectors needs to be better directed and not based on rule of thumb

SCENARIO DEMONSTRATION:

- Service pricing based on catchments
- Modelling prospective state earnings
- Impact of public works on state income

NOTES

KEY ACTION POINTS:

- Avoid quick-wins not tied to your long term goal
- Explore data partnerships, reducing cost to deepen insights and expand context
- Adopt process flexibilities in structure
- Be aware largest transaction count will originate from aspirational buyer cohorts





Conclusion

CONSIDERATION: Leverage Location as an Anchor for Prosperity and Development

OPPORTUNITIES AHEAD:

- State economic efficiencies are easier to achieve where geography is utilized
- Productivity monitoring of public services are easier to track using geography
- Policy success is easier to measure, realign if needed and visualize with geography
- A robust view of IGR prospects, requirements and operational context can be laid out with geography

NOTES

LAST THOUGHTS:

- Put less focus on the technology but pay more attention to underlying contexts
- Data creation may be easy but ensuring its continued maintenance can be hard
- Develop data partnerships, leveraging data and geospatial contexts





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THANK YOU



