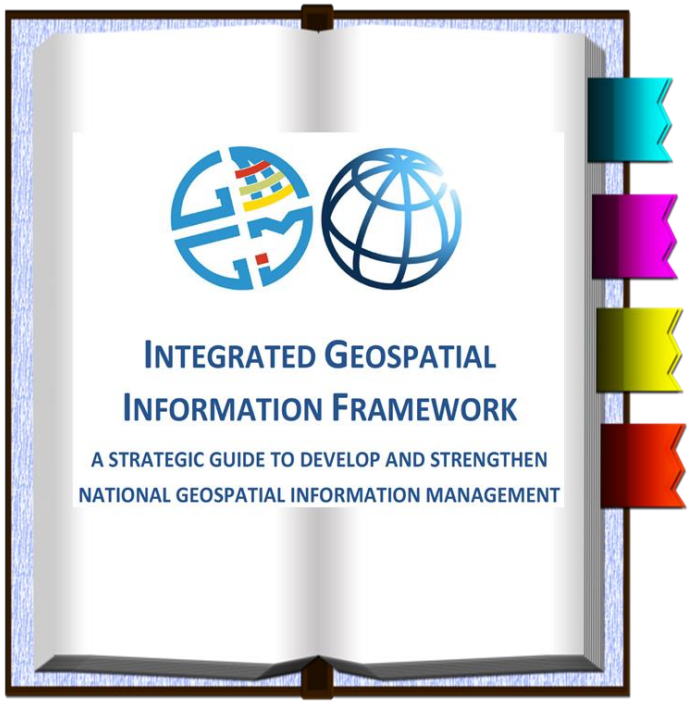
Session “Strengthening National Geospatial Information Management in the Americas“

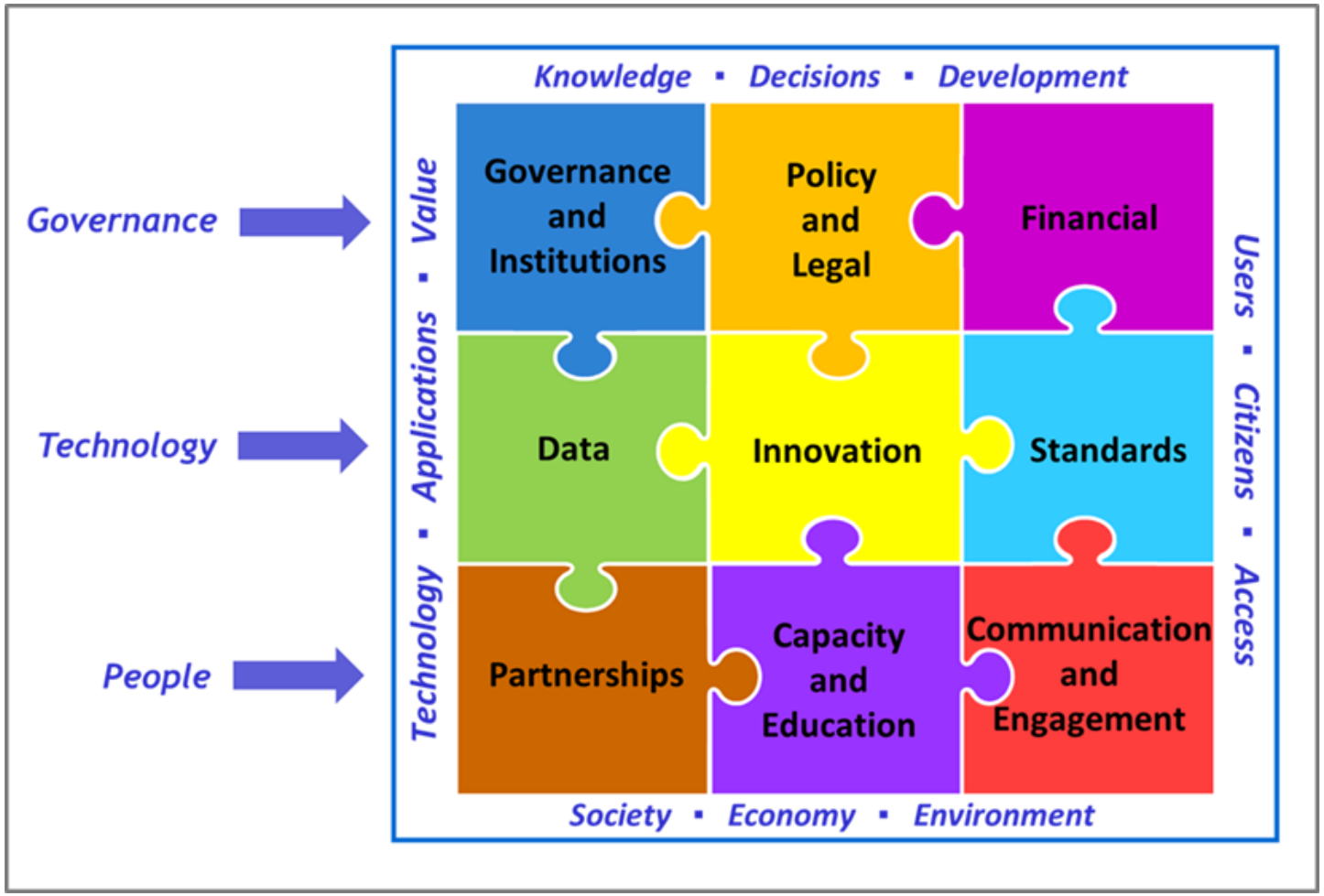
The Private Sector: Supporting & Strengthening National Geospatial Information Systems Development in The Americas

Wednesday, 21 November 2018

Initial Thoughts….

- Collaborate to innovate
- Governments want to be more efficient, transparent and make wise decisions
- Geospatial is part of any countries overall infrastructure development. It is aiding economic development
- With Governments operating on razor thin budgets Public-Private Partnership can provide an economical, long-term solution





Source: IGIF Strategic Framework, 2018

SDI…. A different approach

- Focusing on the actual near to medium term work to be accomplished and achieving real results is key to effective NSDI establishment and sustainability
- Country Priorities that leads to real outcomes
- Clarity in roles and responsibilities evolving systematically as organizations mature
- Effective connectivity among related activities and systems
- These SDIs must be initiative Driven – focused on common mission
- There are changing policy requirements by government

Introducing SDI+

Core Proposition

SUPPLY

Spatial Data Infrastructure (SDI)

Largely technical program based on supply-side geospatial data development and sharing

SUPPLY/ DEMAND

SDI +

Smart Development Infrastructure for Sustainable Development and Investment

Source: Mark Sorenson

The Case of the Caribbean

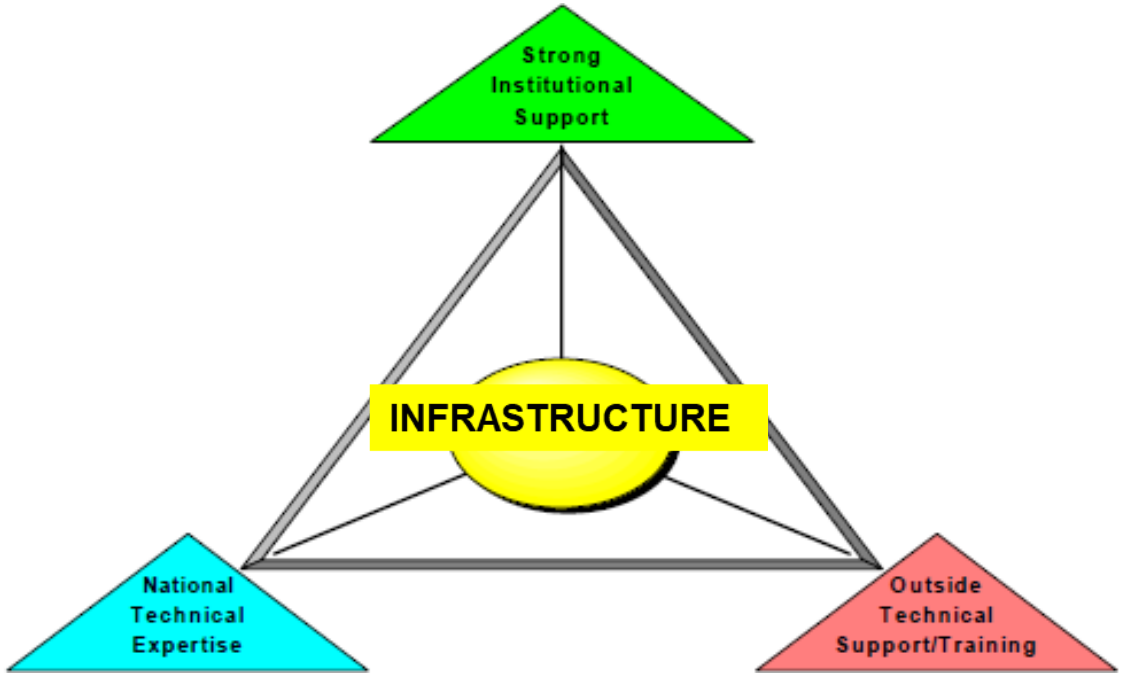
- Governance
  - There is need to insolate from Political/Administrative Changes
    - Policy, Legislation, Executive Orders?
    - Institutional Arrangements
- The need for Authoritative Data
    - Accuracy – positional, attribute,
    - Logical consistency
    - Metadata
- Technology Infrastructure
- Human Resources
- Investment
- There must be a platform to easily share geospatial information and allow organizations to **collaborate**.

Collaboration

“No true efficiencies can be gained in Isolation”

VISION BASED ON THREE TIER APPROACH

BUILDING BLOCK APPROACH



Strategic Partners
User groups
Private Sector

•Consultancy Services
•Donor Support
•Regional Bodies

Corporation

Consultation

Team Work , Plan

Coordination

Policies, Procedures

Projects ,Programs

Trinidad As An Example

Collaborators

UWI
ST. AUGUSTINE CAMPUS

GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO
MINISTRY OF FINANCE
VALUATION DIVISION

GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO
MINISTRY OF AGRICULTURE, LAND AND FISHERIES
G.I.S

COUVA/TABAQUITE/TALPARO REGIONAL CORPORATION
PERFORMANCE • PERSEVERANCE • PROSPERITY

giri GROUP

TTPOST
Trinidad and Tobago Postal Corporation

TSTT

CaribAnalytix Consultancy

GISSTT
Geographic Information Systems Society of Trinidad and Tobago

MINISTRY OF NATIONAL SECURITY

T&TEC

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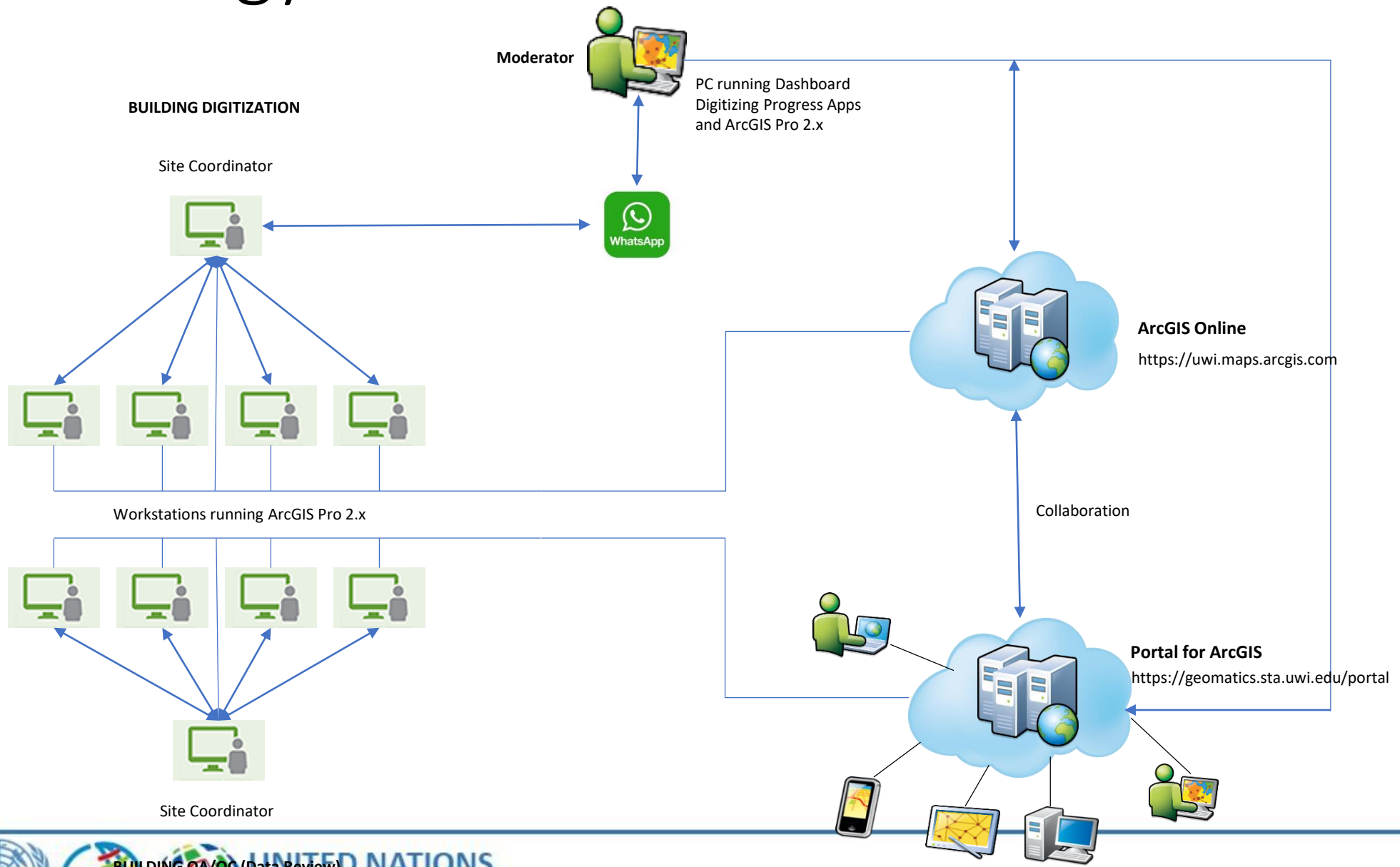
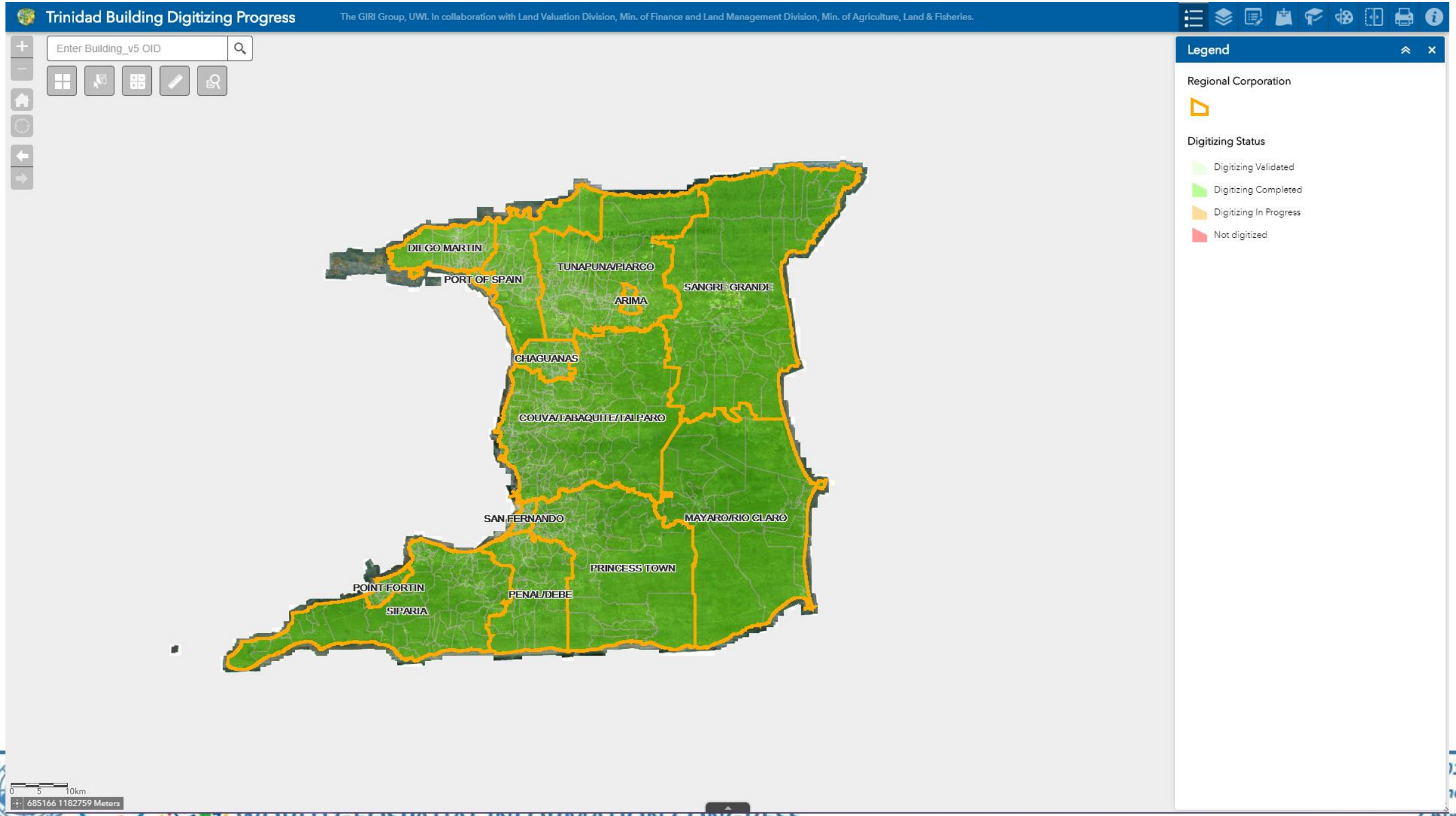
Technology Architecture




Trinidad Building Digitizing Progress
The GIRI Group, UWI. In collaboration with Land Valuation Division, Min. of Finance and Land Management Division, Min. of Agriculture, Land & Fisheries.
Enter Building_v5 OID
Legend
Regional Corporation
Digitizing Status
Digitizing Validated
Digitizing Completed
Digitizing In Progress
Not digitized
DIEGO MARTIN
PORT OF SPAIN
TUNAPUNA/PIARCO
ARIMA
SANGRE GRANDE
CHAGUANAS
COUVA/TABAQUITE/TALPARO
SAN FERNANDO
MAYARO/RIO CLARO
PRINCESS TOWN
POINT FORTIN
PENAL/DEBE
SIPARIA
0 5 10km
685166 1182759 Meters

Spatial Data Infrastructure for Trinidad and Tobago

Progress Report on the Acquisition of the Buildings Fundamental Dataset

Regional Corporation: None

Total Buildings Collected

518,650

Last update: a few seconds ago

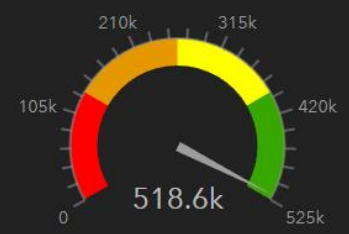
Buildings Digitized This Week

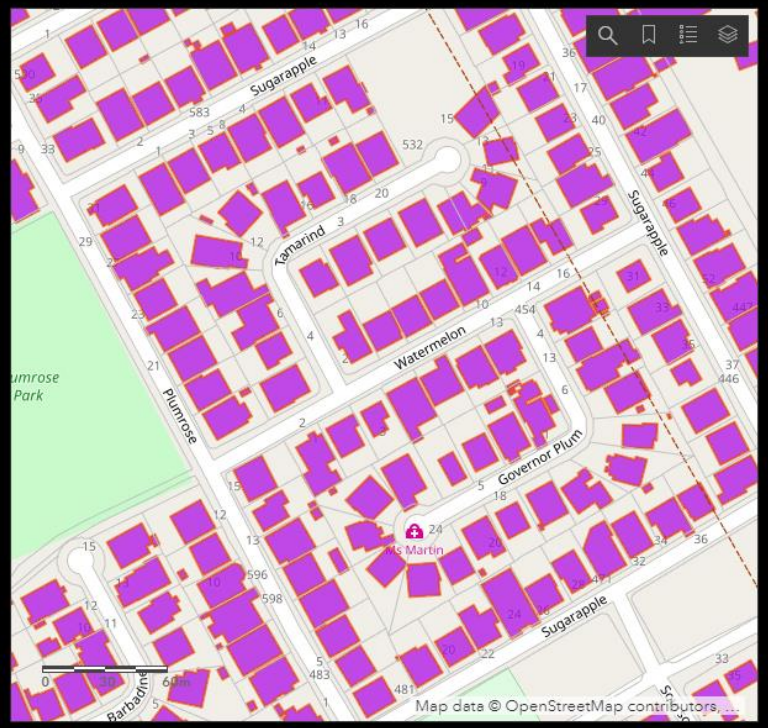
28,340

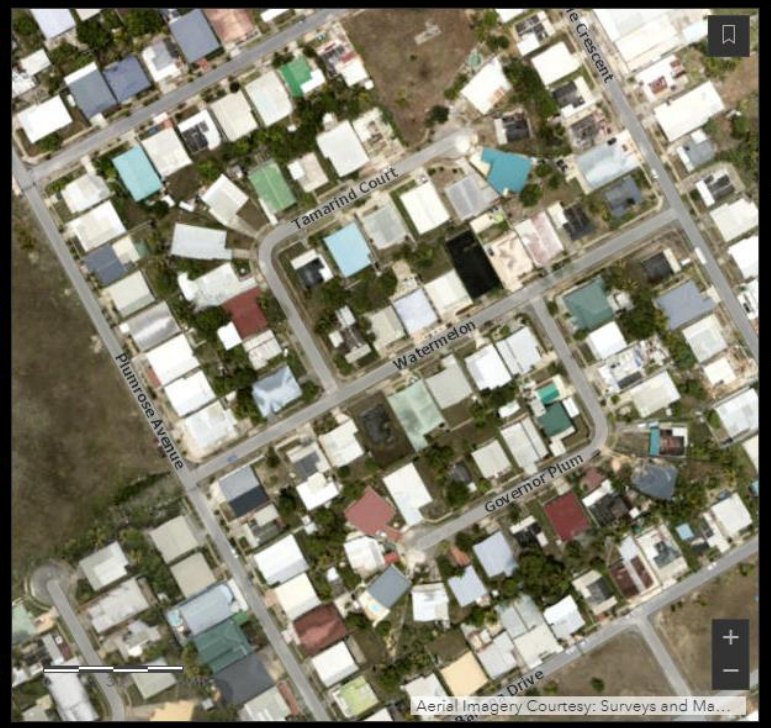
This Week | Last Week

Yesterday	Today
3,975	130

Progress Achieving Target







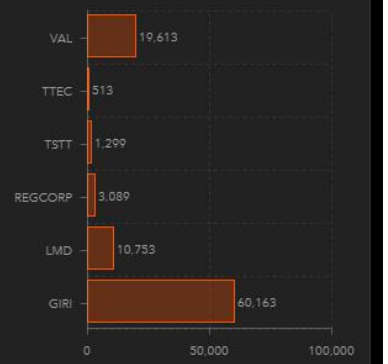
Communities Remaining

0

Goal: Complete 534 Communities

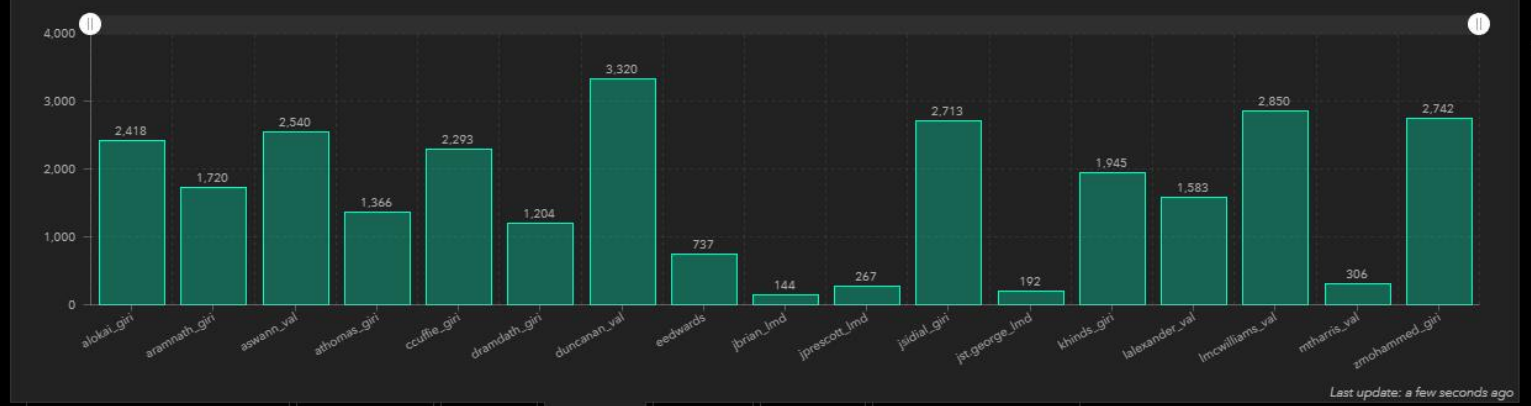
In Progress	Completed
0	534

Buildings Digitized by Organization



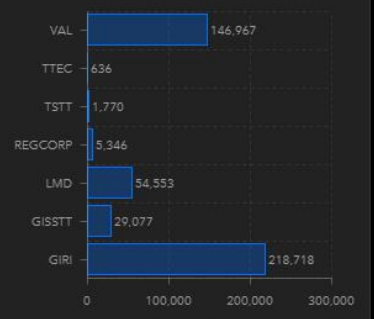
For Last Month

Community of Professional Mappers (CPM) Progress This Week



Last update: a few seconds ago

Buildings in Regional Corporation | Digitized Today | Yesterday | This Week | Last Week | Last Month | Since Start of the Initiative

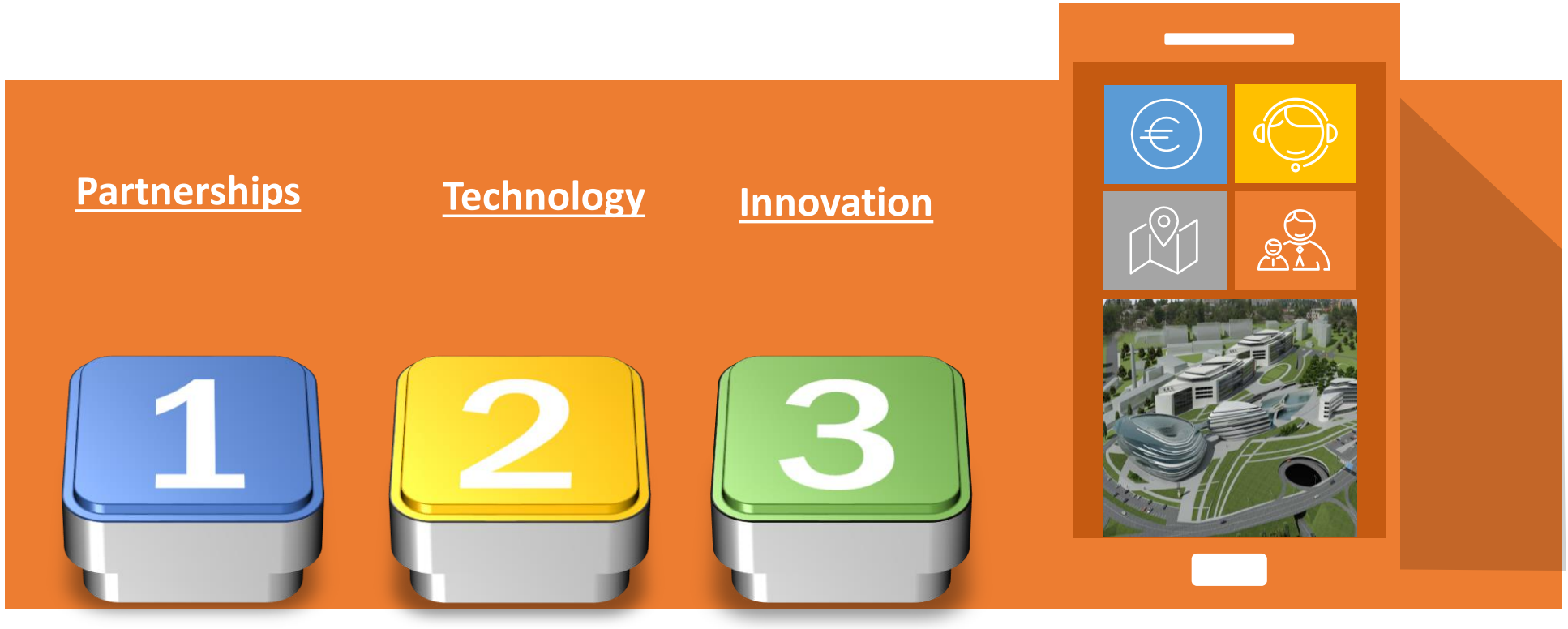


Based on Total Buildings Collected

Digital Transformation is Cultural Transformation

- Technology is a driver, but really it's main role is an enabler.
- The transformation has to occur in our organizational culture, our people and processes– everything that touches the customer and their interaction with the brand

Pillars of Growth



Transforming The Organization Requires

1. Moving Outside your Comfort Zone
2. Culture of Innovation
3. The Right Talent
4. Meeting User Needs
5. Starting Small

Engagement model for Success!

1. Discuss incorporating Specific Technology
2. Explore customer business model
3. Show Application demo

1. Understand Technology concepts e.g AR/VR, IOT, Blockchain
2. Get Hands on with Technology
3. Standard demo customization

1. Design Thinking workshop to define business challenge
2. Agile iterations incrementally build project functionality
3. Enterprise integration

1. Scale up pilot
2. Expand with value added services
3. Business Process Re-engineering
4. Systems Integration

Start small, grow quickly

Engage the Challenges of Change

- The Challenge is to Go Far beyond What we do today
- The future is DIGITAL
- We’re on the verge of something special – there are opportunities galore
- Move from selling products to solutions
- Creating real value to our customers
- Growth lies in Syncing with industry trends
- Understanding the value of location
- Create a company culture & DNA that constantly push for innovation
- Recognize data as the new global currency- democratization
- New ways to find answers to Old problems
- Democratizing Technology
- Managing Human Interoperability

My Hope…

- A national Geospatial Infrastructure
- Reliable Geodetic Infrastructure
- Open Standards and open data policy
- Aligned to global initiatives
- Human capital development
    - The relevant certification
- Opportunities for entrepreneurial innovation
- Public-private partnerships
- An enabling environment for effective sustainable development and investment

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