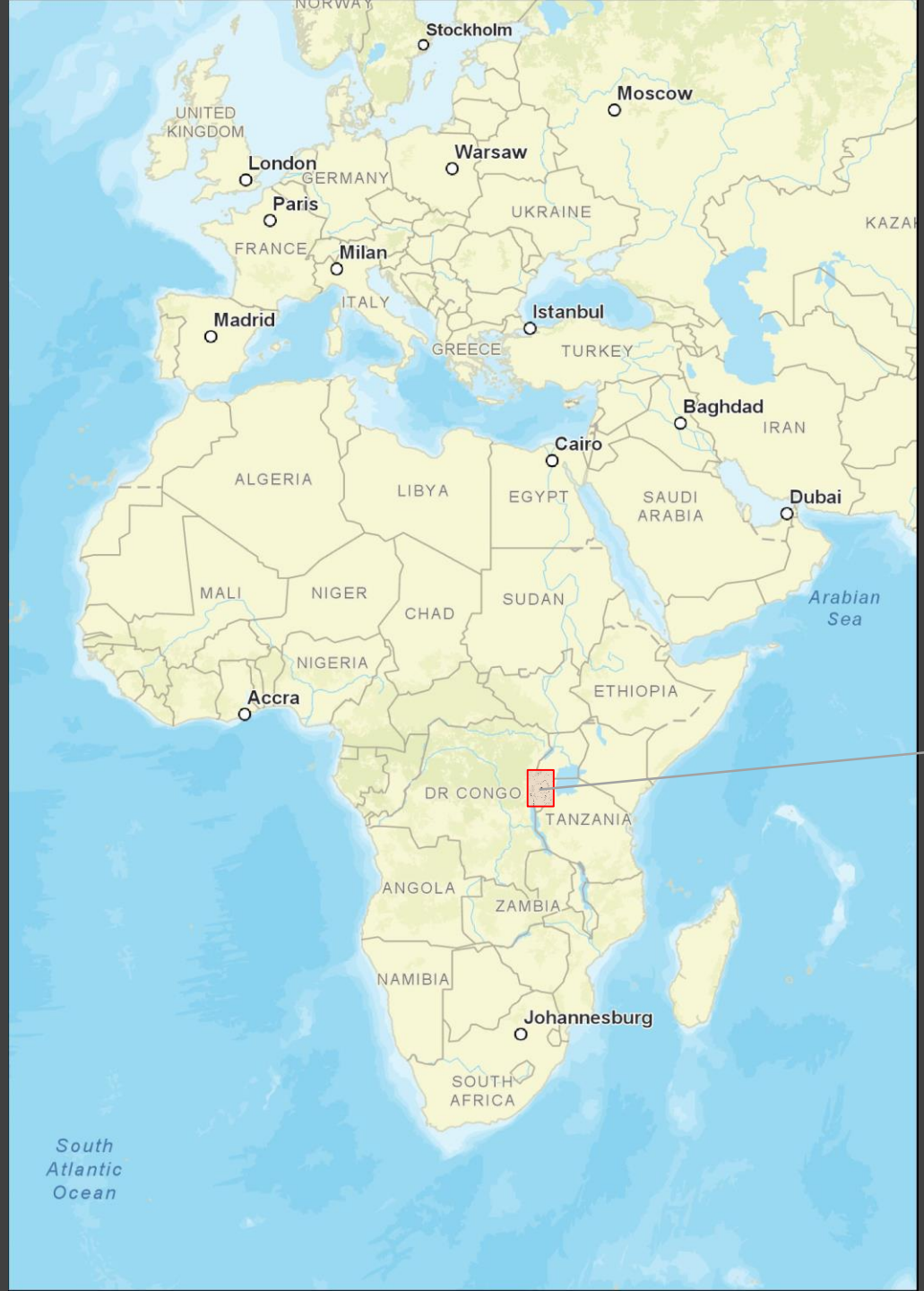
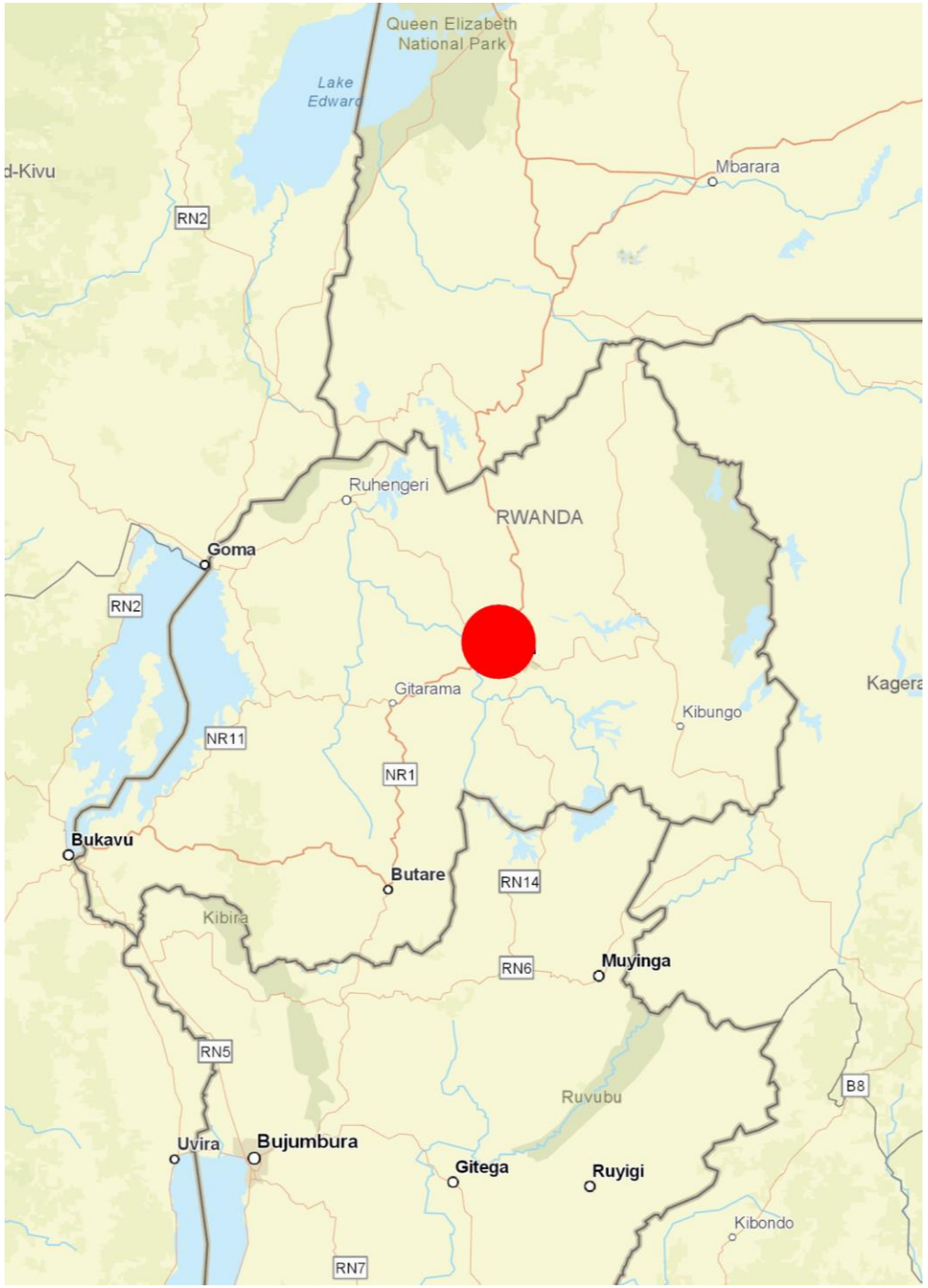
EDUCATION AND CAPACITY DEVELOPMENT

Delivering the Data Ecosystem for Sustainable Development



Rwanda

Size: 26,338 square kilometers
Population: 12 Millions+


Queen Elizabeth
National Park
Lake
Edward
d-Kivu
Mbarara
RN2
Ruhengeri
RWANDA
Goma
RN2
Gitarama
Kagera
Kibungo
NR11
NR1
Bukavu
Butare
RN14
Kibira
RN6
Muyinga
RN5
Ruvubu
B8
Uvira
Bujumbura
Gitega
Ruyigi
Kibondo
RN7

UR-CGIS

Center For Geographic Information
Science and Remote Sensing

2006

www.nur.ac.rw

GIS EDUCATION

Background

- GIS Professionals
- Data sets
- Geoportals & Systems
- CORS Network
- LAIS (Banks, Taxes, NIDA...)
- NSDI Draft Law under approval process

GEO-INFO

Current Situation

Meteo RBC NAEB
EUCL RHA RAB
Mining RTD REG/EDCL
CoK RWFA REMA
MINAGRI WASAC RLMUA
MININFRA CGIS RDB NISR

SPATIAL DATA

19 Custodians

CoK Meteo

MINAGRI MININFRA

RMB NAEB

NISR RLMUA

GEOPORTALS

AND OTHER SYSTEMS

4,500Km+

- Whole Country + 9 regional links to neighboring countries

- 4GLTE network
- Mobile penetration ~ 78%

"Without fast and affordable internet access, there are few pathways from poverty to prosperity in the 21st century."

- H.E. President Paul Kagame

TECHNOLOGY

Enabling Environment

Digital Ambassadors | 5,000+

Age : 18-35

- DAP launched in 2017
- Equip 5,000,000 Rwandans with digital skills by 2024.
- So far 41,000 trained

TECHNOLOGY

bridging the digital divide

OneWeb

27 Feb 2019

ICYERECYEZO
(Vision) Satellite

Service starts in 2020

Rocket with 5 more satellite: Alaska, Ecuador, Honduras, Kyrgyzstan & Nepal

TECHNOLOGY
bridging the digital divide

(Technology cluster)

- **Telecentre**
- **Impact Hub Kigali** Collaboration and digital excellence centers
- **Klab** (Open Space for IT Entrepreneurs)
- **Coding schools** to address in a more sustainable manner the severe shortage of high caliber software experts on Rwandan market

Students with sciences background (chemistry, computer and information technology science, engineering, geosciences, life sciences, mathematical sciences, astronomy and physics)

- e-government

irembo.gov.rw

INNOVATION
Current Status

- 3D Mapping
- Imageries acquisition
- Equipment (Strong computers)
- Surveying Equipment

NEEDS ASSESSMENT

Technical Skills, Tools...

- Base Data Updating
- National Land Use Master Plan
- NSDI Needs Assessment (+Financial Analysis)
- Mass Valuation

PLANNED & ONGOING PROJECTS

Data Improvement

Sustained **Economic growth**

Good Governance

Access to **Market** (12M)

Investor **Friendly** Climate

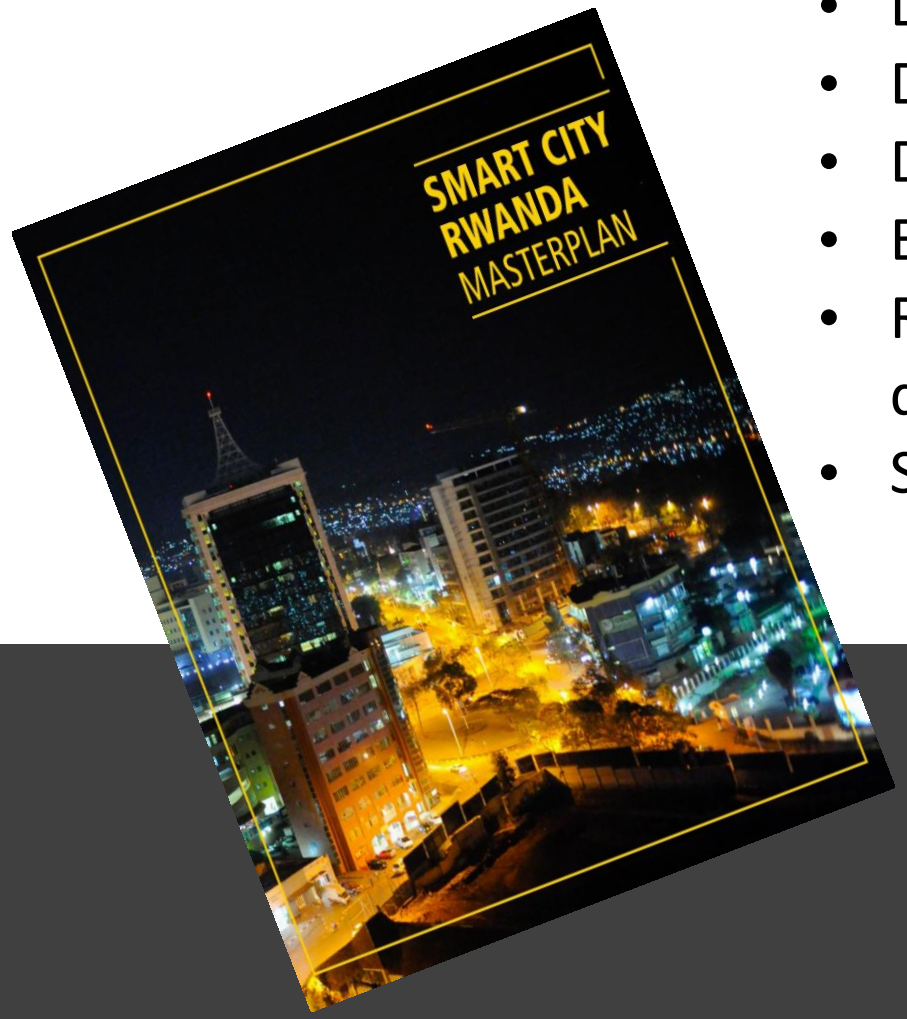
Untapped Investment Opportunities

- Infrastructure:
- Agriculture: Energy:
- Tourism:
- Information and communication Technology:
- Real estate and construction, financial services and mining

Fiscal and Non-Fiscal incentives

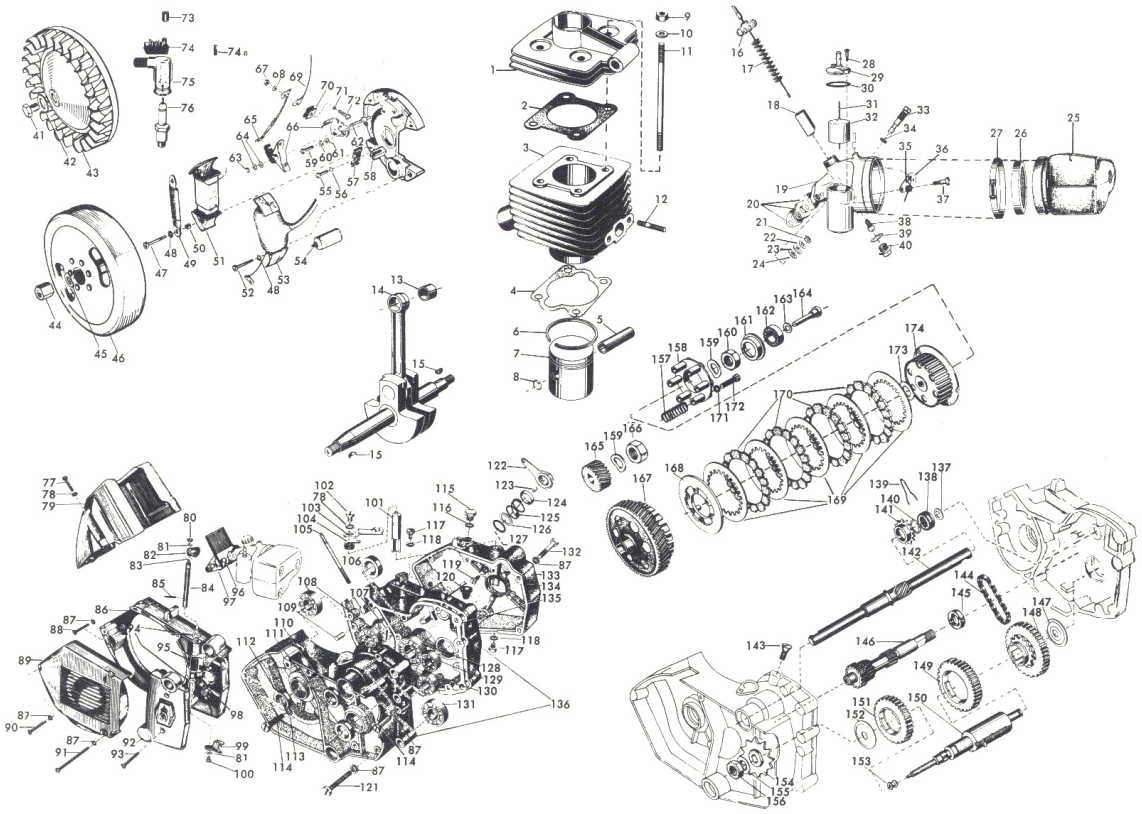
www.rdb.rw

BUSINESS
Environment



- Multi-stakeholders safer cities programm
  CCTV, Driving and fining management system, Auto-vehicle inspection system, Digital communication Command Center
- Dynamic data-supported urban master planning
- Digital citizen engagement tools
- Digitally monitor and management of utility infrastructure
- Explore smart micro grids based on the prosumer model
- Regulatory frameworks for virtual power plants and other demand-based management solutions
- Smart data-led 'door-to-door' mobility solutions

BUSINESS
Smart Project Ideas



INTEGRATION

WAY FORWARD

THANK YOU

Rwanda Land Management and Use Authority

www.rlma.rw