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GHANA-INDIA KOFI ANNAN CENTRE OF EXCELLENCE IN ICT

SADA ONE STOP SHOP

A Data Driven Approach for Sustainable Development



Savannah Accelerated
Development Authority

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Data for Sustainable Development Roadmap Forum

6 April 2017



GHANA-INDIA KOFI ANNAN CENTRE OF EXCELLENCE IN ICT

Outline

- Background
 - Vision
 - Requirements
 - Stakeholders and Partners
- Technology Solution
 - SADA OSS
 - Data Analytics
 - Economic Development Models
 - Integration
 - Data Harvesting and Quality Assurance
- Challenges
 - Data Infrastructure
 - Data Standards
 - APIs



Data allow your political judgments to be based on fact, to the extent that numbers describe realities.







The idea is to go from numbers to information to understanding

Hans Rosling

Requirements



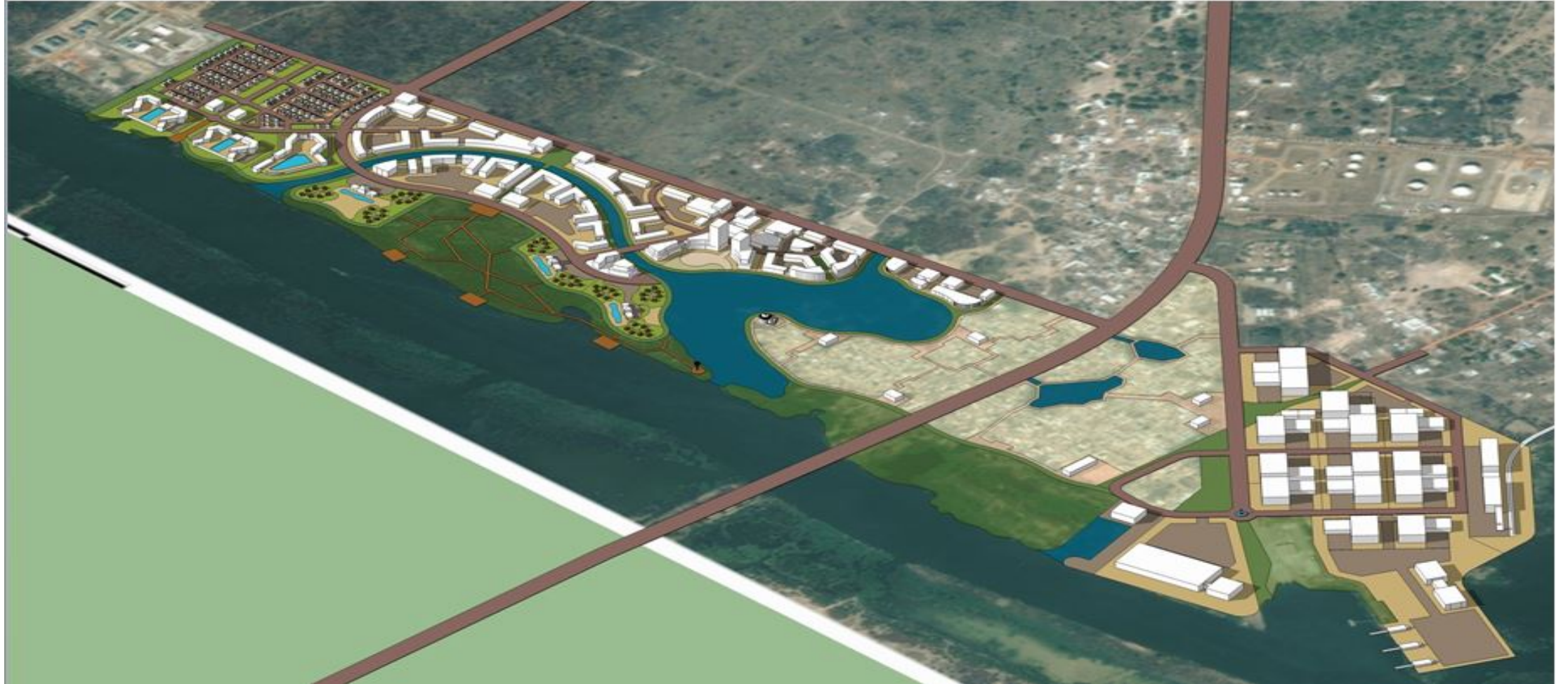
SADA Vision

GOAL 1	VIBRANT AND RESILIENT MIDDLE INCOME ECONOMY						
OBJECTIVES	<p>GDP/capita > 4000 USD</p> <p>Resilient & Diversified economy</p> <p>Unemployment > 10%</p>						
STRATEGIES	Grow agriculture sector through irrigation & mechanization	Grow agro-processing industries	Grow transport / logistic sectors serving Burkina Faso	Grow local and export oriented industries	Explore mining sector	Grow tourism sectors in NSEZ	Promote services sectors in NSEZ
PROJECTS	<p>1A. Irrigation projects (As per QG Agriculture Master Plan)</p>  <p>Source: Wiki</p> <p>1B. Commercial agriculture projects (As per QG Master Plan)</p>  <p>Source: www.c-files.com</p> <p>1C. Aquaculture (Dambal, Krachi)</p>  <p>Source: cropdevelopment.sudan.gov</p> <p>1D. Mobile Facilities for Mechanization</p>  <p>Source: meps.edsl.doe.net</p>	<p>2. Agro-processing parks (Tamale, Kintampo, Bolga, Wa, Dambal)</p>  <p>Source: LinkedIn: agro-processing</p>  <p>Source: ebgnews.gov.gh/2011/01/m-1</p>  <p>Source: www.evestnews.org</p>	<p>3A. North South Highway</p>  <p>Source: www.porbaerle.org</p> <p>3B. Buipe Port/Logistic Park</p>  <p>Source: crystone.org/</p> <p>3C. FTZ at Bolgatanga</p>  <p>Source: www.porbaerle.org</p>	<p>4. SEZ & Industrial Parks (Bolga, Tamale, Wa & Buipe)</p>  <p>Source: www.2012.gh.gov.gh</p>  <p>Source: static.wzstatic.com</p>  <p>Source: go.gh.gov</p>	<p>5A. Mining Industries & Support Services (Wa, Buipe)</p>  <p>Source: industryteq.com</p> <p>5B. Oil & Gas Exploration in Voltaian Basin</p>  <p>Source: STAN on opening up the Voltaian Basin for Oil & Gas exploration</p>  <p>Source: STAN on opening up the Voltaian Basin for Oil & Gas exploration</p>	<p>6A. Mole-Larabanga Tourism Cluster</p>  <p>Source: www.2012.gh.gov.gh</p>  <p>Source: cdn.photoshelter.com</p> <p>6B. Kintampo cluster</p>  <p>Source: everythinghst.com</p> <p>6C. Volta Cluster</p>  <p>Source: www.bentapeople.com</p> <p>6D. Bolga-Paga Cluster</p>  <p>Source: Geo.de</p>	<p>7A. Tamale New CBD</p>  <p>Source: www.bentapeople.com</p> <p>7B. Business/ICT Park (Tamale)</p>  <p>Source: www.bentapeople.com</p>  <p>Source: www.bentapeople.com</p>  <p>Source: www.bentapeople.com</p>  <p>Source: miz.lnkid.tdn.com</p>

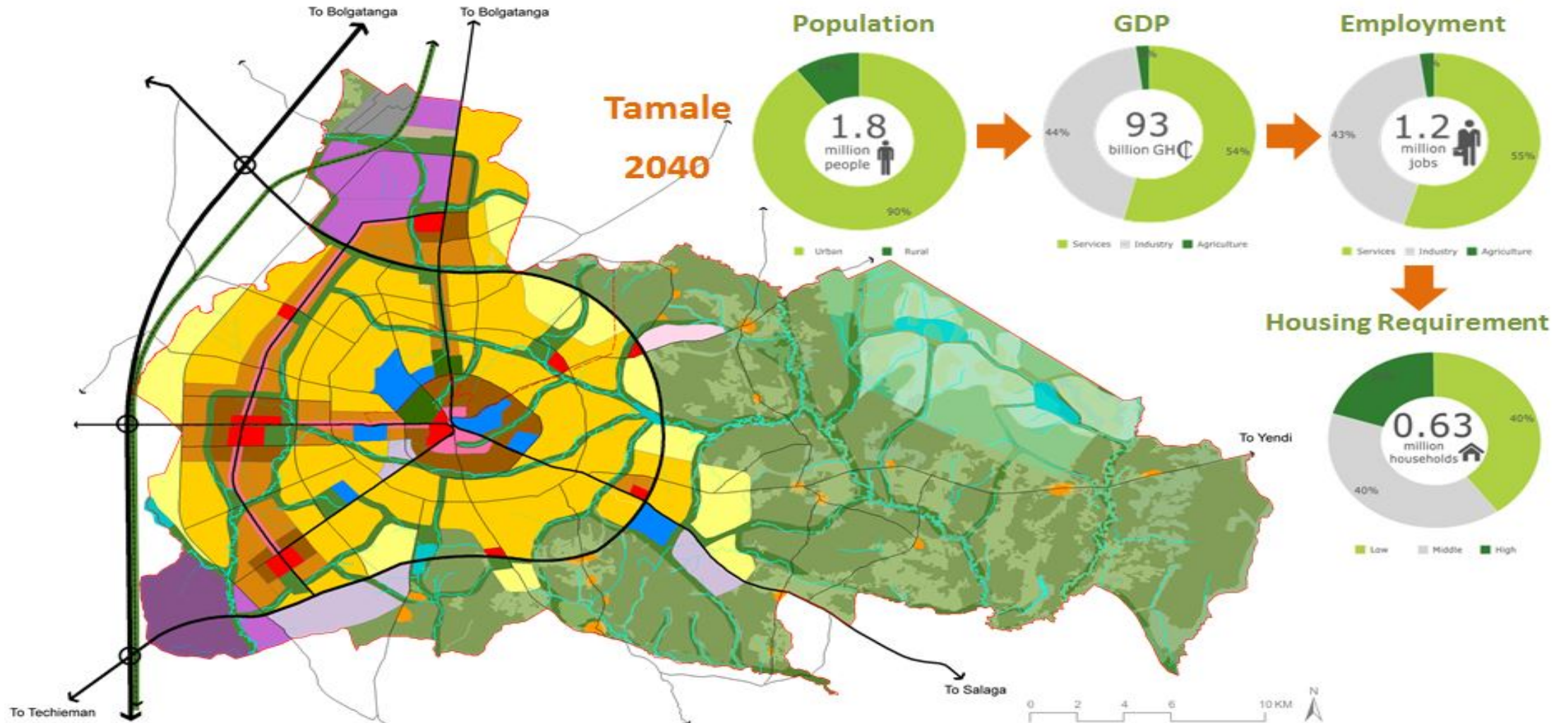
SADA Zone - Today



SADA Zone – Near Future



SADA Masterplan - Tamale



SADA Activities



Agreement with ENI Ghana on renewable energy



Water wells



Business Avenues



Visit the People



Pride of the North



Separate Shea Butter board from Cocobod, GoG

SADA Programmes



Modeling Tools: UNDESA

Atlantis
Integrated Systems Analysis of Energy

Climate, Land, Energy & Emissions: a Global Model

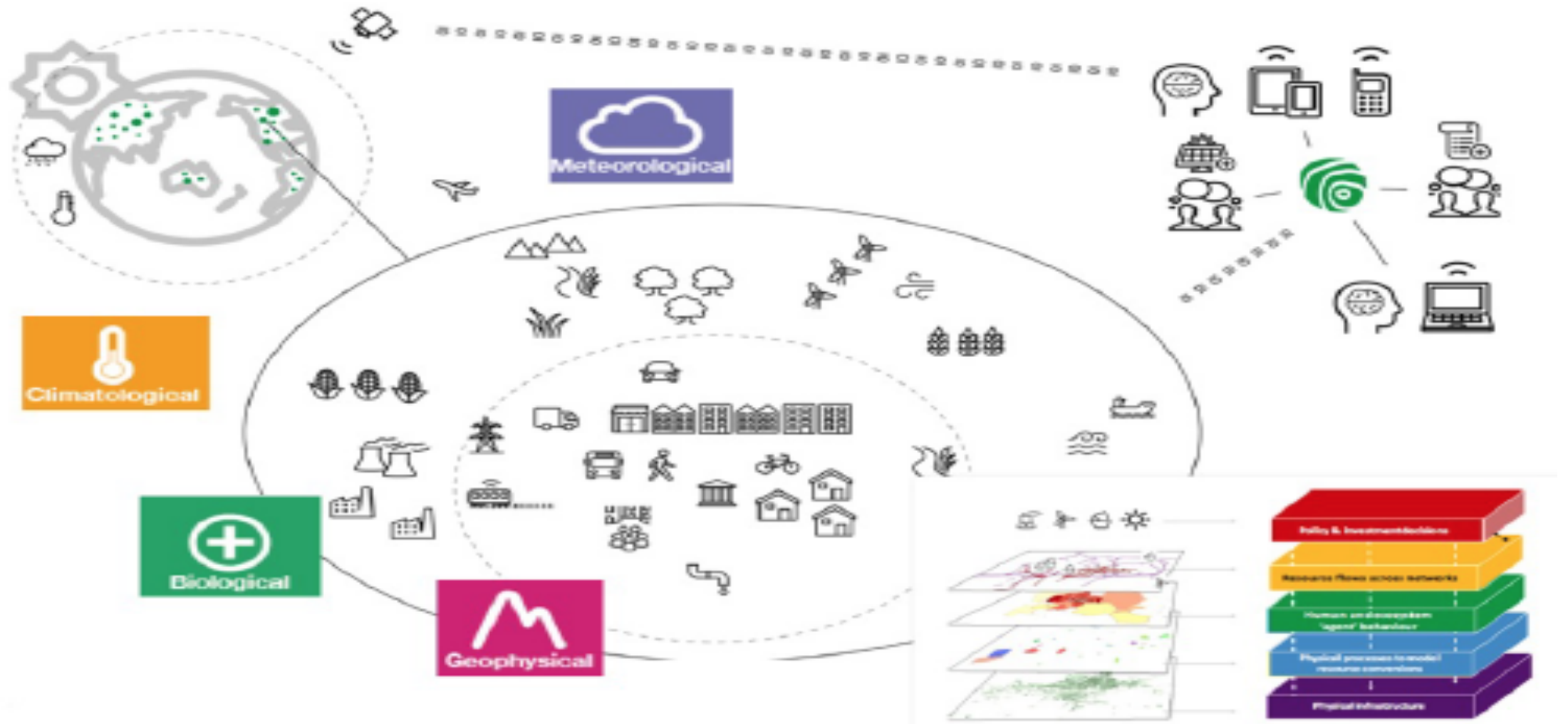
Modelling Tools
for Sustainable Development Policies

[...] the United Nations shall promote: higher standards of living, full employment, and conditions of economic and social progress and development.
- UN Charter, Art. 55 a

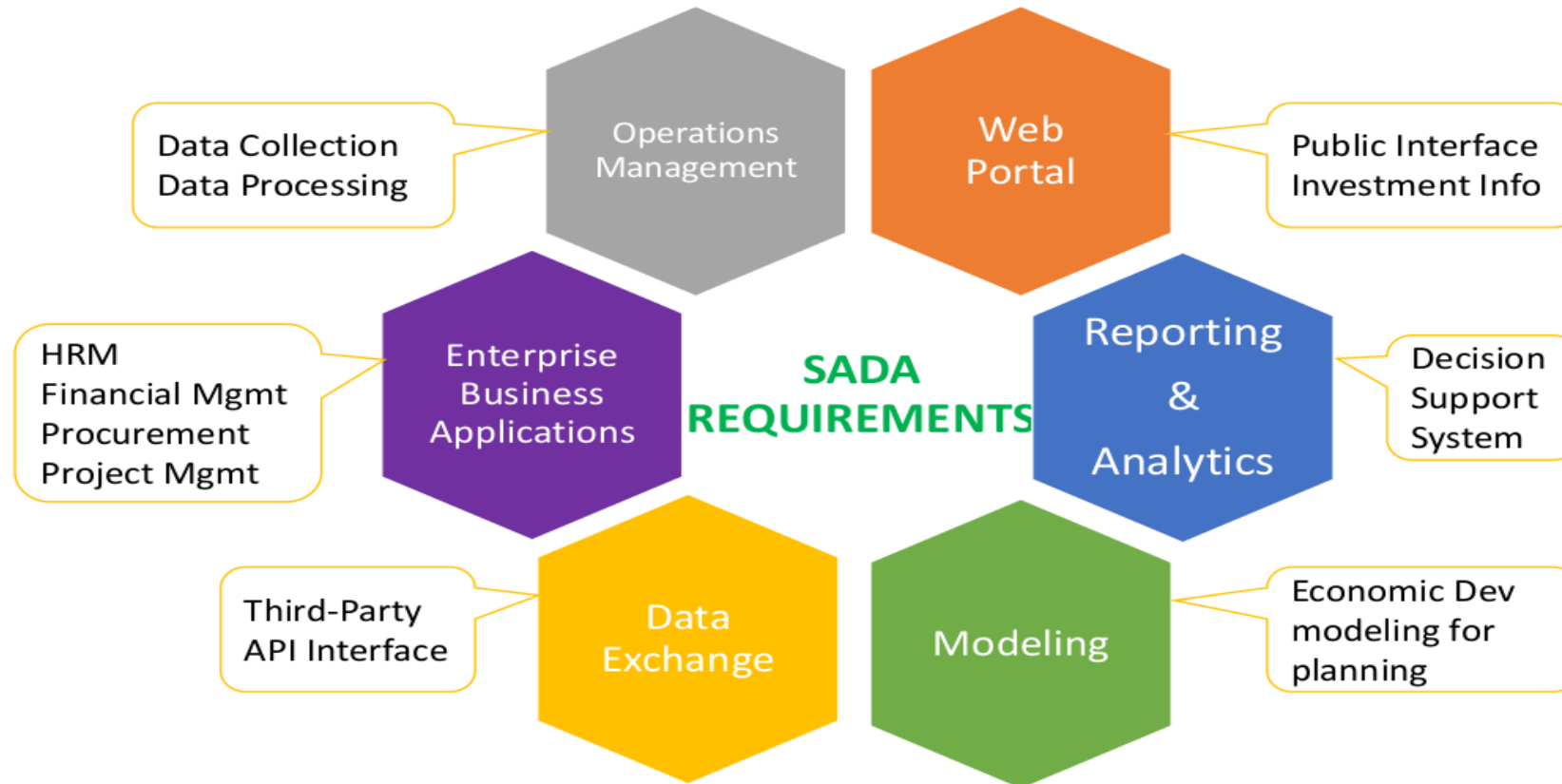
Electrification Paths

Growth & Social Inclusion
focus poverty & inequality

Modeling Tools: Resilience.io



SADA Requirements

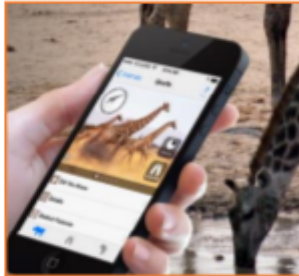


Ecosystem



SADA Ecosystem

Environment



Call Center



Field User



Online



Front Desk



Survey



Students



Government



Researcher



SADA User Model

Staff



Partners



Investors



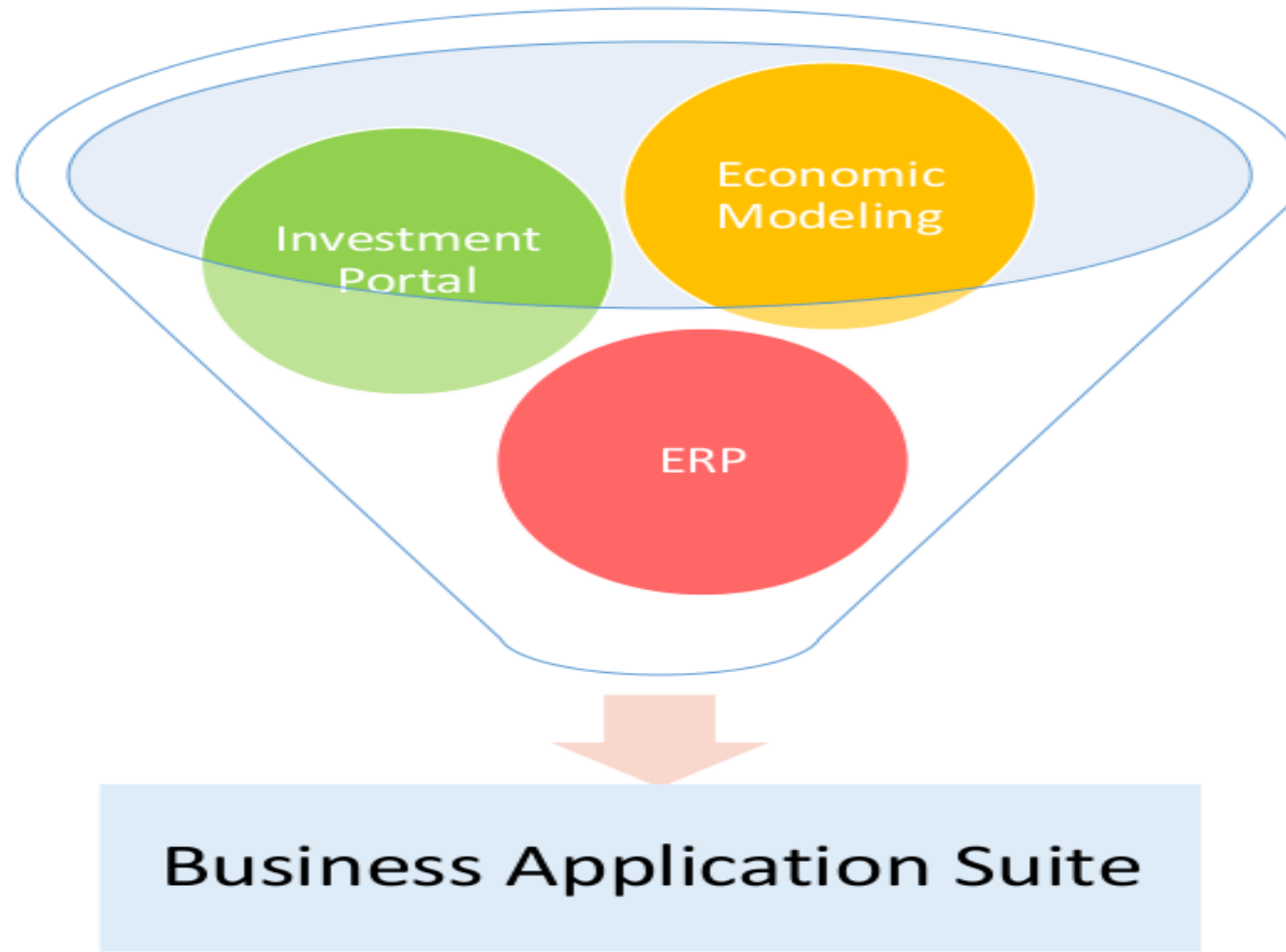
Public



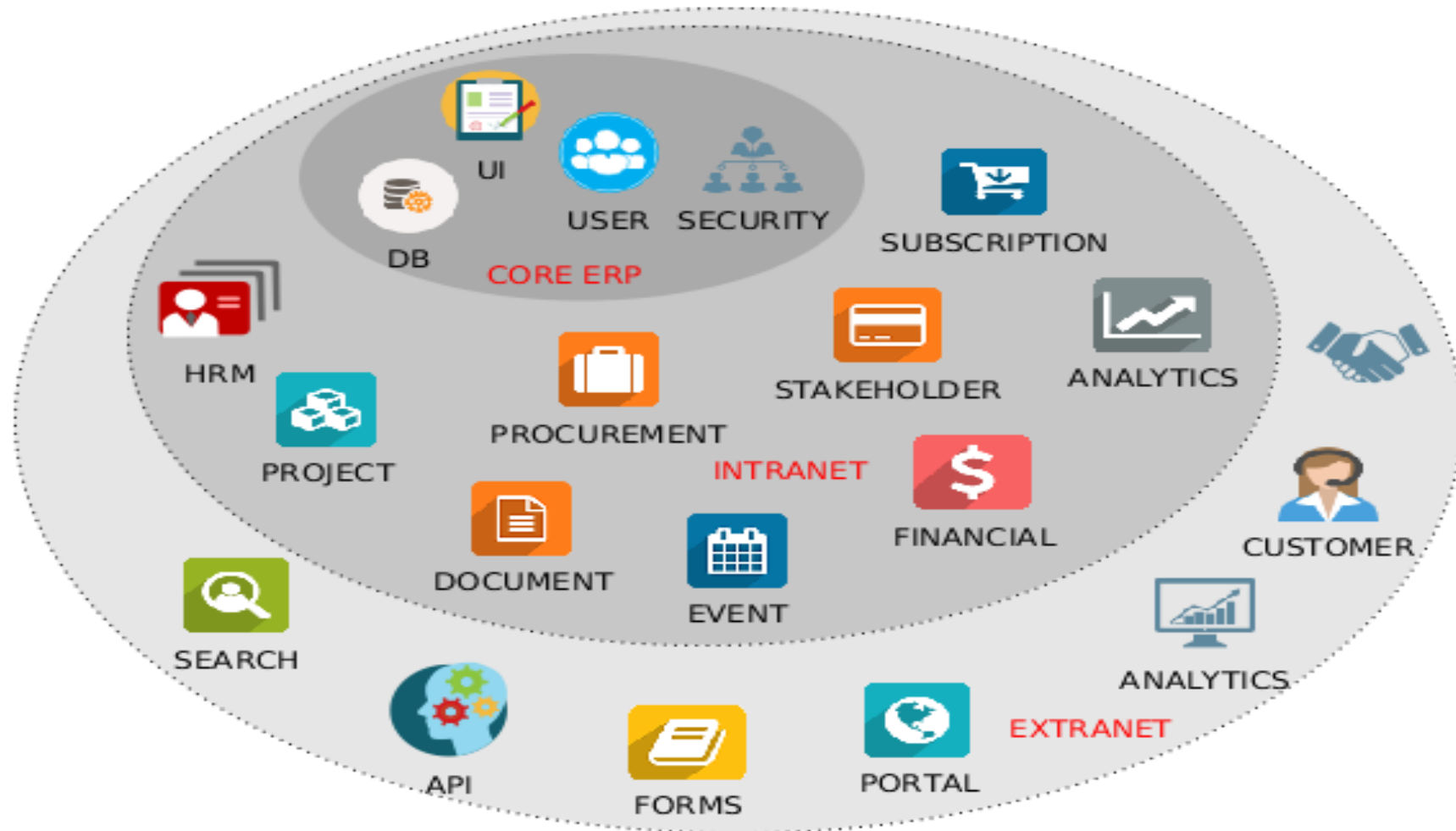
Architecture



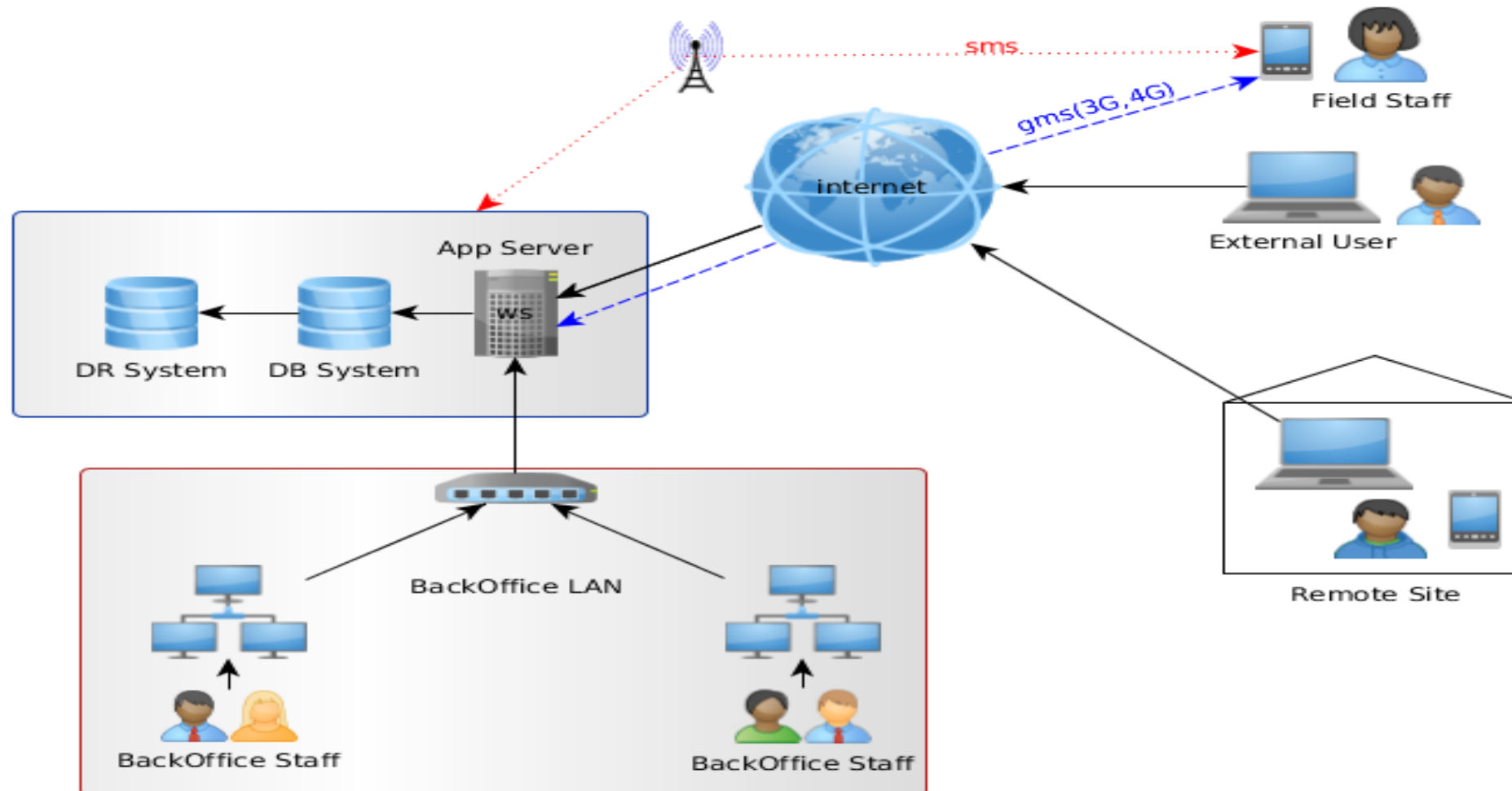
Solution Architecture



Enterprise Architecture



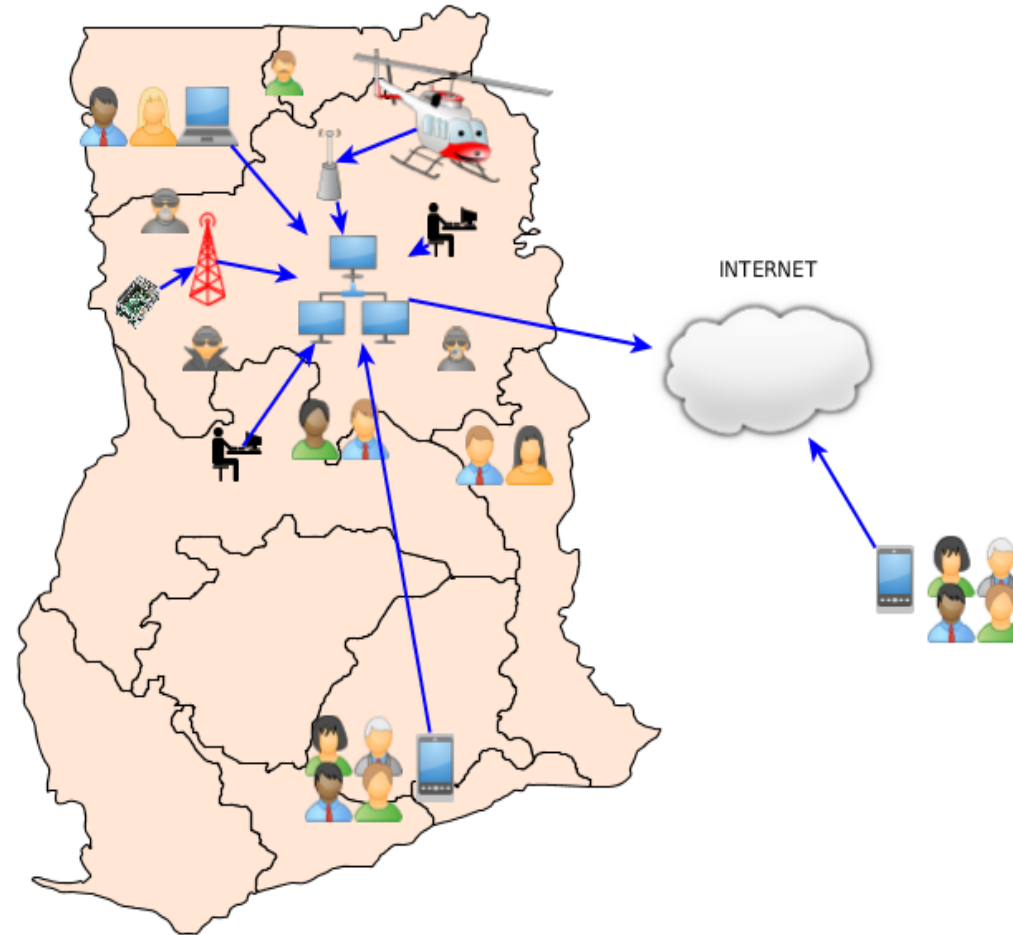
Technology Architecture



Solution

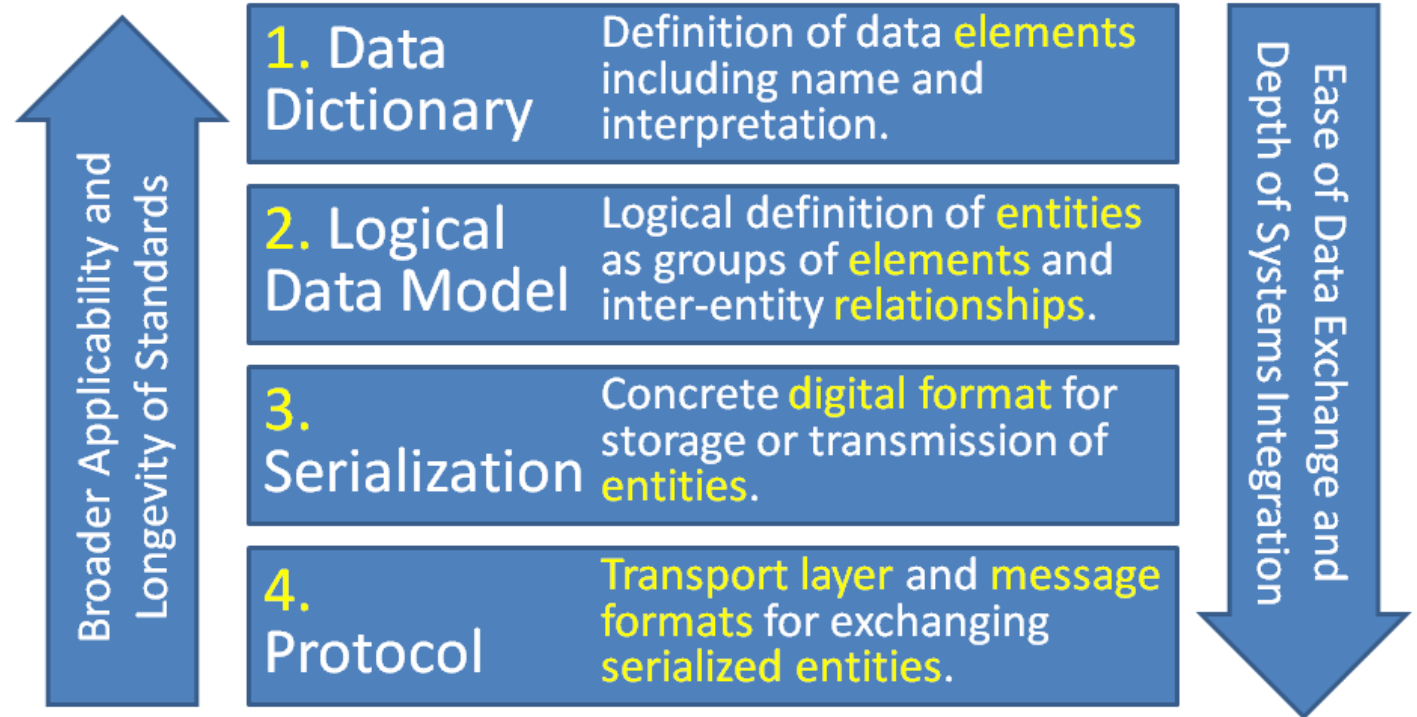


SADA Platform



Challenges: Data Standards

- Data Standards Body
- Data Specification
- Interoperability
- Technical Committees



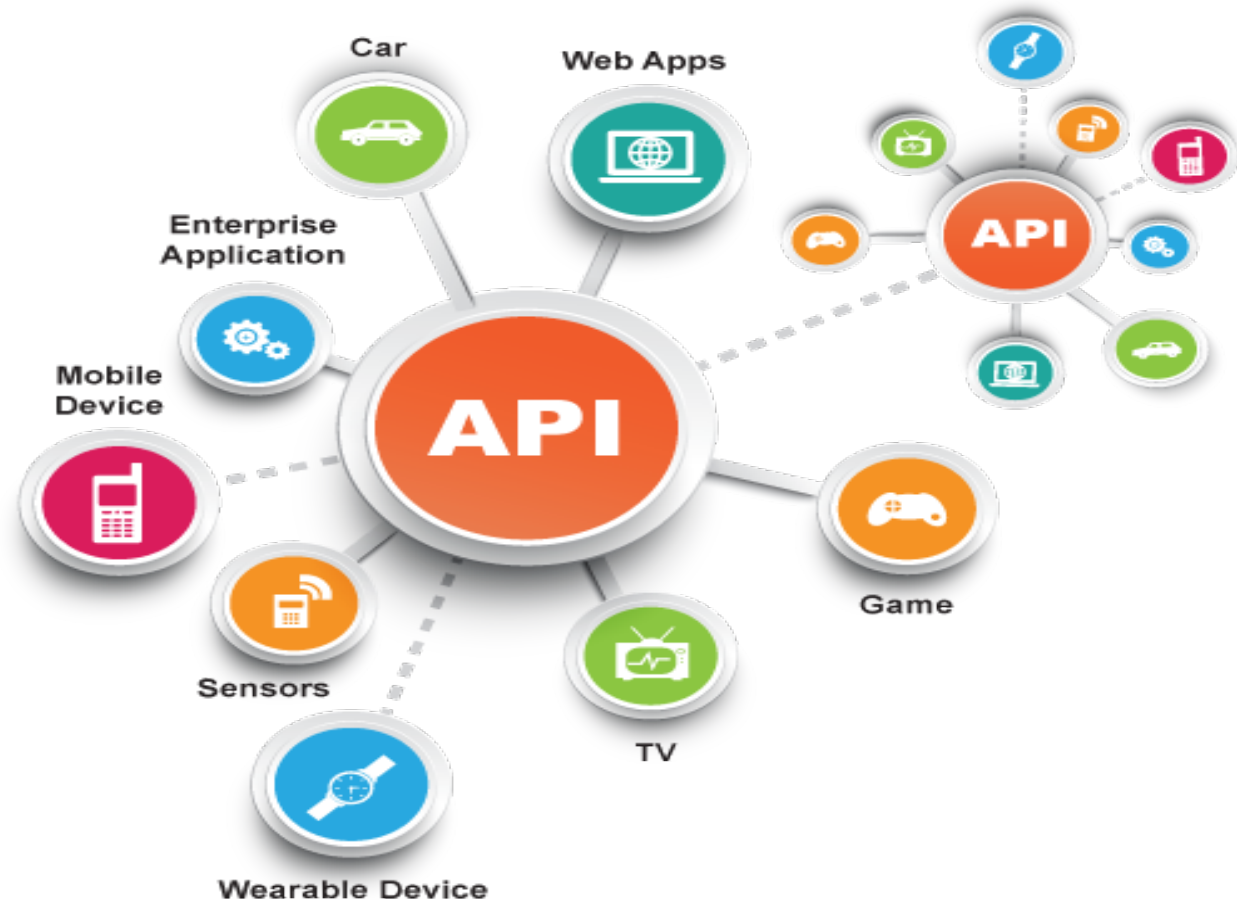
Challenges: Data Infrastructure

- Data Centers
- Local Clouds
- Connectivity



Challenges: API Integration

- Data Exchange
- Data Validation
- Master Source



THANK YOU