



Cross-Border Cooperation for Digital Transformation

e-Governance Conference

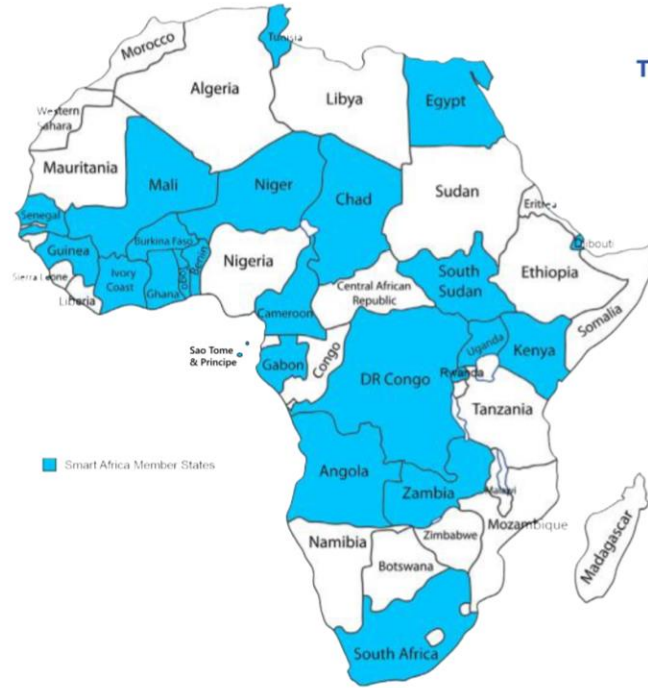
21st – 22nd May 2019

Tallinn, Estonia

- 54 countries with a 1.2 billions population and over 50 digital legal, regulations and policies
- Limited cross-countries infrastructures and a strong reliance on non-African infrastructure and products
- Intra-Africa trade represents approx. 18% of African exports (vs. 69% for the EU)
- Digital markets are largely national and do not benefit from the scale of the continent
- Low level of digital skills

..a situation which called up 25 countries (more than 600M population) to form an alliance together with 41 private partners to face the 4th Industrial Revolution

Smart Africa's members states



24 Member States have joined the Alliance.
This represents a Market of 600+ millions people

- Angola
- Benin
- Burkina Faso
- Cameroon
- Chad
- DR Congo
- Côte d'Ivoire
- Djibouti
- Egypt
- Gabon
- Ghana
- Guinea
- Kenya
- Mali
- Niger
- Rwanda
- Sao Tome & Principe
- Senegal
- South Africa
- South Sudan
- Togo
- Tunisia
- Uganda
- Zambia

Partner Organizations



AU Commission



International Telecommunication Union



African Development Bank



African Telecommunications Union



United Nations Economic Commission for Africa



New Partnership for Africa's Development



Internet Corporation for Assigned Names and Numbers

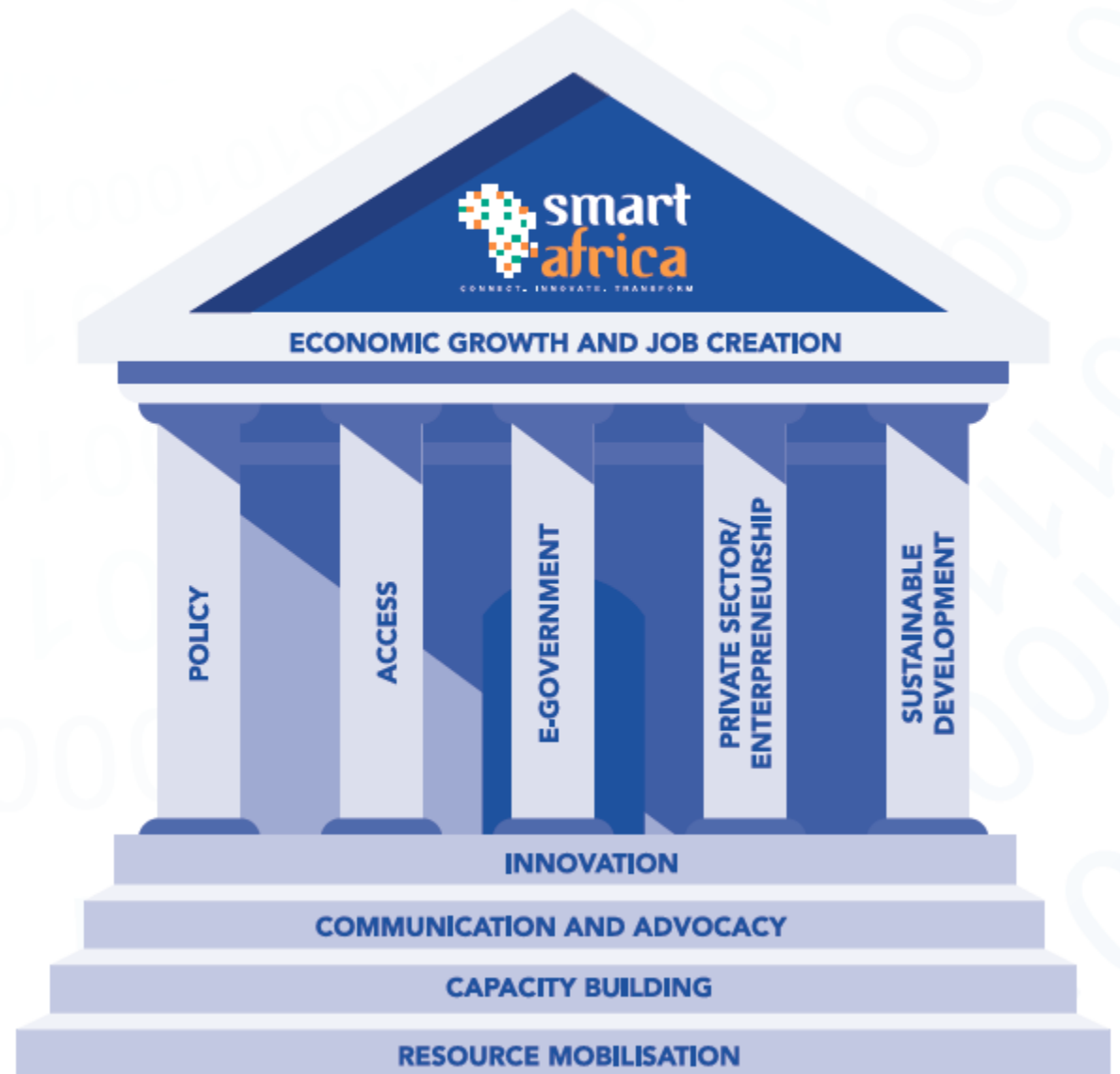


The World Bank



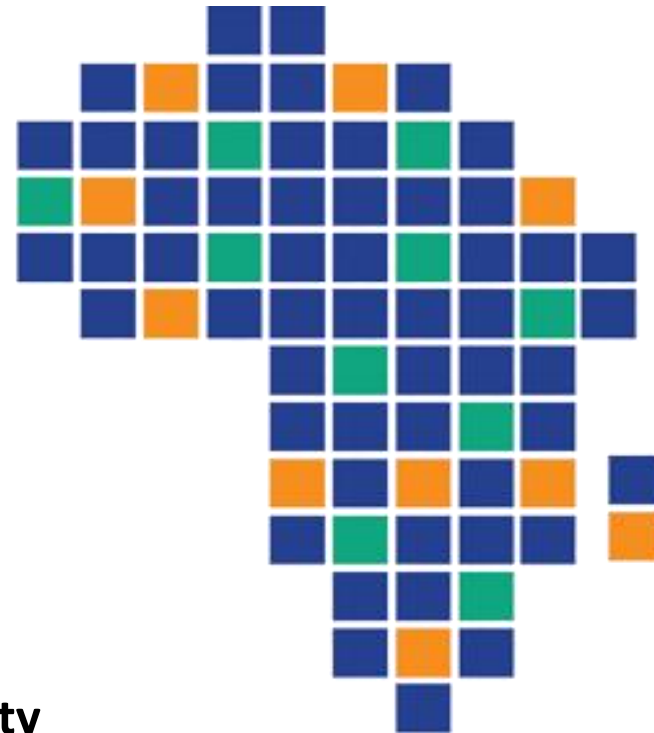
Global System for Mobile Communications

... And where each country leads and champions a flagship project, which collectively form the pillars and enablers of Digital transformation



Transform Africa into a **single digital market by 2030**

- Build an **affordable digital infrastructure** to interconnect the continent
- Harmonize regulations, promote and facilitate **investment and doing business** across Africa
- Accelerate the birth of a **digital society**



The vision is aligned with our key partners' one

International
organization



EUROPEAN UNION

International
financing
organizations



International
Telecom
organizations



Africa as a single digital market by 2030

1

Develop an affordable digital infrastructure across the continent

- Interconnect all African countries
- Establish the One Africa Network
- Facilitate the bulk purchase of wholesale Internet bandwidth
- Increase the number of public and private datacentre in Africa

2

Harmonize regulations, promote and facilitate doing business and investing across Africa

- Create investment vehicles to finance multi-countries projects
- Promote for an interoperable digital ID for Africa
- Harmonize digital payment solutions across Africa
- Support the creation of an African start-up ecosystem

3

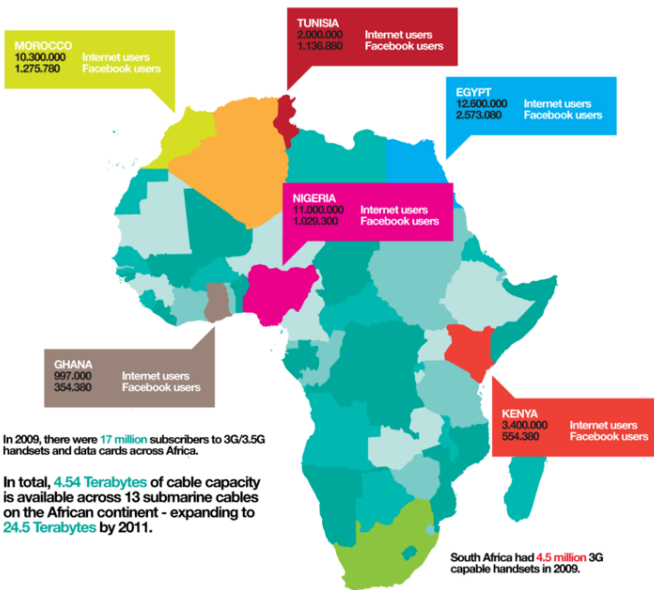
Accelerate the birth of a digital society

- Connect schools with on-grid & off-grid power to the Internet
- Leverage digital to reduce gender gap through education and leadership programs
- Create a pool of African digital talents through a scholarship program

The African Digital Frontier

INTERNET PENETRATION PERCENTAGE BY REGION

77.4% NORTH AMERICA 61.3% OCEANIA / AUSTRALIA 58.4% EUROPE 34.5% LATIN AMERICA / CARIBBEAN
29.8% MIDDLE EAST 21.5% ASIA 10.9% AFRICA



In 2009, there were 17 million subscribers to 3G/3.5G handsets and data cards across Africa.

In total, 4.54 Terabytes of cable capacity is available across 13 submarine cables on the African continent - expanding to 24.5 Terabytes by 2011.

South Africa had 4.5 million 3G capable handsets in 2009.

10.8%
SOUTH AFRICA'S INTERNET PENETRATION PERCENTAGE

500 million +
mobile phone subscribers
246 million in 2008
INCREASE OF OVER 100%

110 million +
Internet Users in 2010
4.5 million in 2009
INCREASE OF OVER 2357.3%

The four biggest mobile phone markets are **Nigeria, South Africa, Kenya** and **Ghana**

The largest fixed line broadband market is **South Africa**, followed in order of market size by **Egypt, Morocco, Algeria** and **Tunisia**

International Internet Usage

1. PEOPLES REPUBLIC OF CHINA
450,000,000 Internet users
3. INDIA
100,001,000 Internet users
5. BRAZIL
75,944,000 Internet users
7. RUSSIAN FEDERATION
59,700,000 Internet users
10. NIGERIA
43,662,000 Internet users
44. SOUTH AFRICA
4,600,000 Internet users

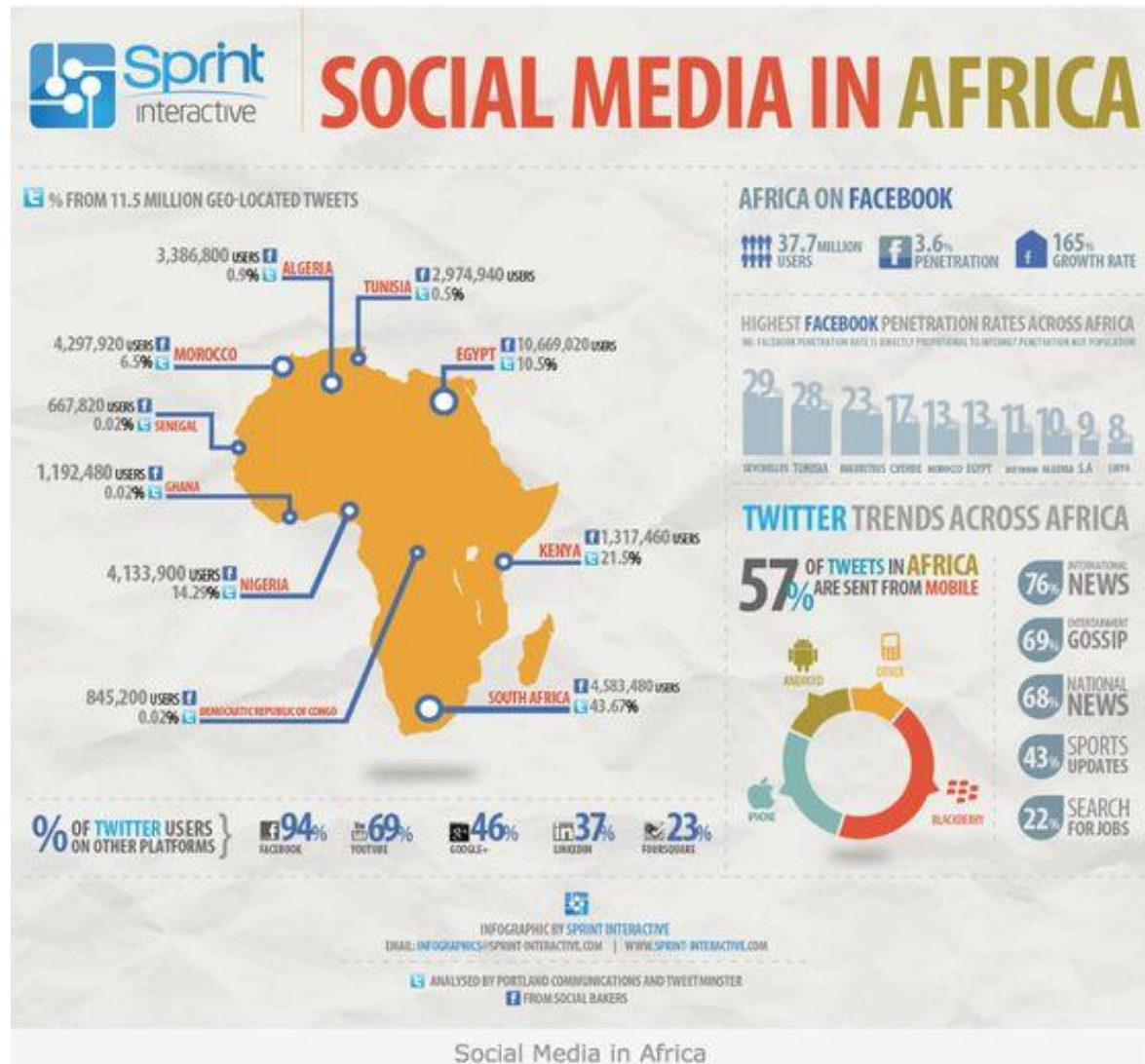
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MORE COOLNESS?

#ODMACT
@ogilvydms

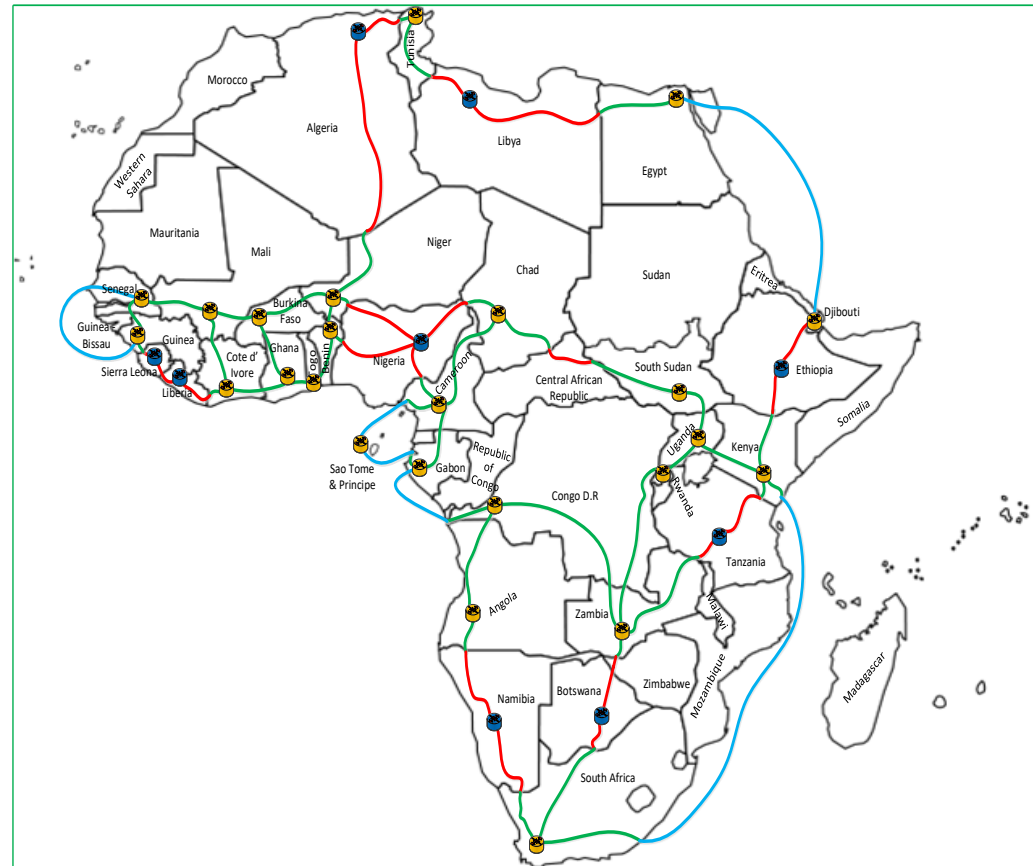
Infographic designed by
@ivanisawesome



1

Develop an affordable digital infrastructure across the continent

- Interconnect all African countries
- Establish the One Africa Network
- Facilitate the bulk purchase of wholesale Internet bandwidth
- Increase the number of public and private datacentre in Africa



IMPACT (Social and Economic)

- Reduces the high dependency of Internet access on sub-marine cables
- Reduces the cost of Internet access in Africa and make affordable
- Allows equal access to submarine cable for landlocked country
- Promote One Africa Network
- Unlocks the potentials for continental data-centers
- Allows African voice and data to remain on African continent

Legend

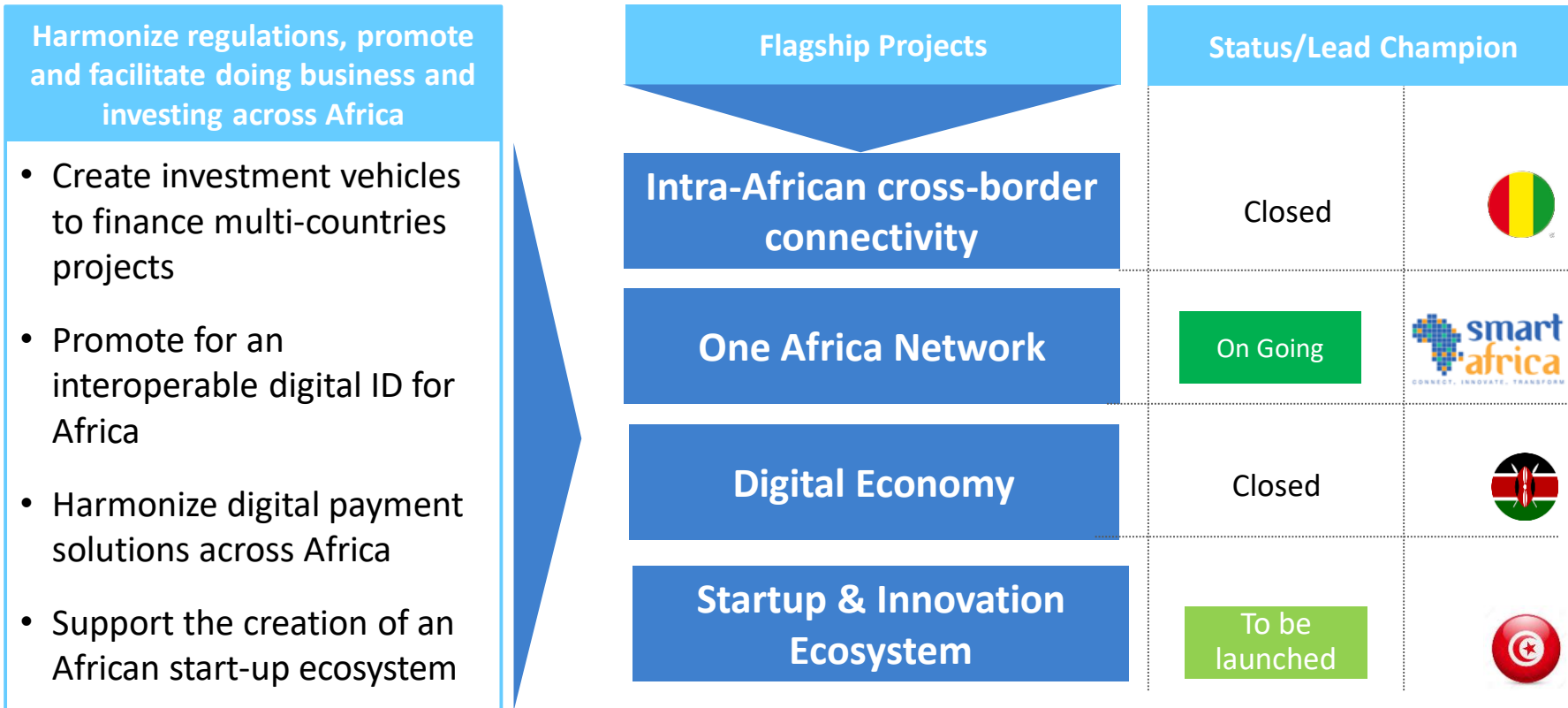
- Smart Africa Countries (24)
- Non Smart Africa countries (9)
- Connecting through Smart Africa Countries
- Connecting through non Smart Africa Countries
- Submarine Connectivity

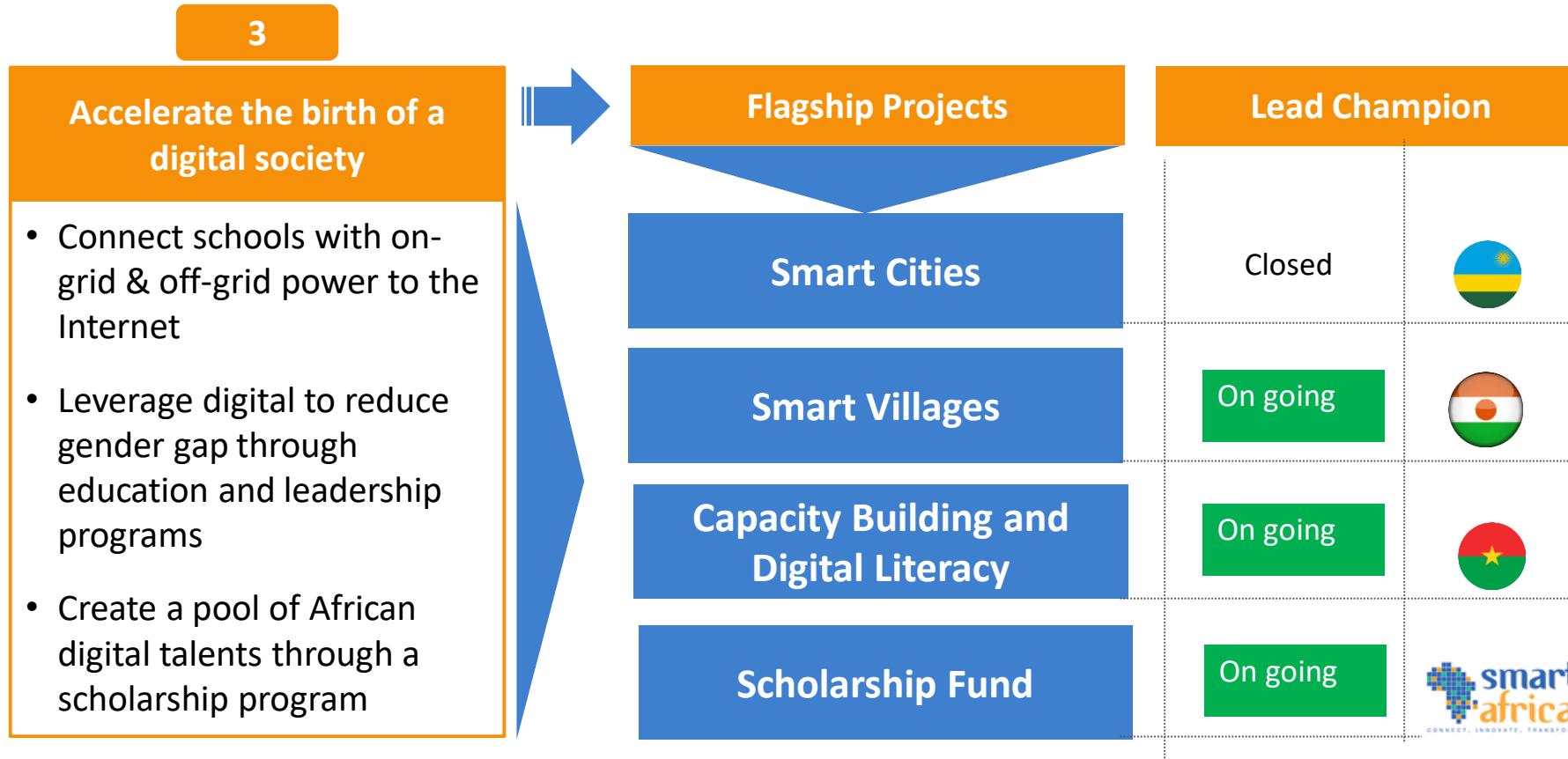
Desktop feasibility Summary of Smart Africa Project

Zone	Normal Soil (KM)	Hard Rock (KM)	River Crossing (KM)	Sea Cable (KM)
West Zone	5210	0	1	978
North Zone	5630	1200	2	1955
South Zone	1880	120	6	8165
Total	12720	1320	9	11098

..the 2nd objective focusses on harmonizing regulations, promote and facilitate doing business and investing across Africa

2





Where we came from....

Phase 1 (2014 – 2015): Initiation phase

- Finalization of the Smart Africa's governance
- Inception of Smart Africa Secretariat
- Launch of 2 projects:
 - Free Roaming
 - Smart Africa Scholarship fund (61 Scholarship awarded as of to date)

For the Free Roaming initiative, two pilots projects were initiated which demonstrated a compelling reason to establish an African Clearing House

- **The common framework:**
 - The traffic is exempted from surcharges on International traffic.
 - No charges for receiving calls while roaming
 - Prevailing local tariff rates in the visited country applies to inbound roamers with no discrimination between inbound roamer and local subscriber of visited networks.

Northern Corridor

- **Tariff:** Regional retail tariff is capped at 0.10 USD per minute
- **Members countries:** Kenya (2014), Rwanda (2014), Uganda (2015), South Sudan (2015)
- **Results:**
 - Revenues increase by 58%
 - Costs reduction by 45%
 - Margin increase by 218%
 - Roaming traffic increase by 911%

West Africa Region

- **Tariff (outgoing calls):** Local tariff
- The first 300 minutes are free within the limit of 30 days cumulative stay OR return to the country of origin
- **Member countries:** Burkina Faso (2017), Cote d'Ivoire (2017), Guinee (2017), Mali (2017), Senegal (2017), Togo (2018), Benin (2018).
- **Results:** Increase of the Roaming and international incoming traffic between countries

..the success of free roaming pilots project gave birth to One Africa Network initiative, where critical decisions have to be made in order to take-off into a truly member states owned..

	Current status	Next steps	Target
Service scope	Zero fee for incoming calls and SMS Outgoing calls on local rates	Internet data at local rates	One Africa voice & SMS price
Geographical scope	2 zones cumulating 12 countries	More countries onboarded	One Africa Network
Infrastructure	No regional traffic exchange platform	National & regional clearing houses	One Africa Infrastructure
Regulation	<ul style="list-style-type: none"> Draft regulation for roaming & international communications ToR for architecture and clearinghouse 	Validation of regulatory draft	One Africa Regulation

 Critical Decision

...then the 2nd Phase focussed on launching initiatives and scaling up country members to reach a critical mass (potential 900M by YE2019)

Phase 2 (2016 – 2019): First initiatives launched

- Projects: 9 projects initiated
- Blueprint: 4 blueprints (2 initiated, 2 produced)
- Doubling of state members:
 - ✓ From 2016 to 2018: From 11 to 24 (600M)
 - ✓ Past 75 days progress (three countries approached):
 - Committed to join: Sierra Leone (7.9M), Ethiopia (110M) and Congo (5.3M)
 - Ongoing discussions: Nigeria (196M)
- 9 international organisations and 28 private companies now participating to the Alliance
- Support for the creation of Council of African Regulators
- Best practice sharing initiatives implemented (Study tour in South Korea, ...)
- Organization of Smart Africa events: TAS, Smart Country days.
- Operationalization of Smart Africa Secretariat

Where we are today

Smart Africa as a facilitator and an enabler for member countries' digital transformation

	Step 1: Identify & analyze digital topics	Step 2: Develop Blueprint	Step 3: Raise Funds for projects	Step 4: Implement projects
Countries	<ul style="list-style-type: none"> • Focus on national initiatives • Contribute to whitepapers • Share experience 	<ul style="list-style-type: none"> • Lead and/or contribute to blueprints development • Develop national strategy 	<ul style="list-style-type: none"> • Mobilize investments for national projects 	<ul style="list-style-type: none"> • Lead management and implementation for national projects
Smart Africa	<ul style="list-style-type: none"> • Develop Whitepapers • Share Best practices • Conduct studies 	<ul style="list-style-type: none"> • Facilitate Blueprint development for members • Organise Events to showcase blueprint (TAS, CAR ...) 	<ul style="list-style-type: none"> • Only for cross-border projects (SPV, ...) • Support countries to mobilize investments for national projects 	<ul style="list-style-type: none"> • Insource or outsource implementation and project management for cross-border projects
Private Sector	<ul style="list-style-type: none"> • Contribute to Whitepapers • Provide expertise for studies 	<ul style="list-style-type: none"> • Partner in Blueprint development for members • Sponsor Events (TAS, CAR ...) 	<ul style="list-style-type: none"> • Sponsor all projects including cross-border projects and national projects 	<ul style="list-style-type: none"> • Implementation for all projects including cross-border projects and national projects








11 projects have been identified

Step 1: Identify & analyze digital topics

<u>Projects</u>	<u>Started?</u>	<u>Progress</u>
Interconnect all African countries	Yes	3 countries at implementation stage
Establish the One Africa Network	Yes	12 countries at implementation stage
Facilitate the Bulk purchase of wholesale Internet bandwidth	Yes	Scoping still ongoing
Increase the number of public and private datacenters in Africa	Yes	In discussions
Create investment vehicles to finance multi-countries projects	Yes	In discussions
Promote for One digital ID for Africa	Yes	Scoping still ongoing
Harmonize digital payment solutions across Africa	No	In discussions
Support the creation of an African start-up ecosystem	Yes	Scoping still ongoing
Connect schools with on-grid & off-grid power to the Internet	Yes	Scoping still ongoing
Leverage digital to reduce gender gap through education and leadership programs	Yes	Scoping still ongoing
Create a pool of African digital talents through a scholarship program	Yes	Implementation started (62 students)

As an example..4 blueprints have been initiated, 3 more will be in a near future

Phase 2: Develop Blueprint

<u>Blueprints</u>	<u>Leader</u>	<u>Status</u>	<u>Progress</u>
Intra-Africa connectivity		Closed	Transformed into Cross border project
Smart cities		Closed	On going assistance with 4 countries
Capacity building		On going	To be shared with other countries
Digital economy (Kenya)		On going	Presentation of the blueprint at TAS 2019
Start-up & innovation ecosystem		To be launched	Sharing of national experience at TAS 2019
Cyber security		To be launched	Sharing of national experience at TAS 2019
Datacenter		To be launched	Sharing of national experience at TAS 2019

Smart Africa organizes large and high visibility events & forums

Step 2: Develop
Blueprint

Transform Africa Summit



Key figures*

19.000+ delegates
112 countries
100+ ministers
100+ sessions
100+ regulators

Smart Countries Event



Key figures

10+ events supported

*: past five editions



Thank you
QUESTIONS ?

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