



EU D4D Coalition

Digital for
Development

Engaging D4D stakeholders in **thematic dialogues** to support the **implementation of the EU's D4D agenda** with concrete **recommendations and project ideas** aimed at supporting a conducive **digital business and investment** environment in **Africa**.



NOKIA

PHILIPS



Agenda

- ❖ Introduction to EU D4D Coalition (15 min.)
- ❖ Results of three Workshops (each 25 min. incl. Q&A)
 - 1) Smart Cities
 - 2) Connectivity
 - 3) Digital Entrepreneurship
- ❖ Next steps of D4D Dialogues (30 min.)
- ❖ Q&A and debate



Your questions & comments

1. Go to **slido.com** from your laptop, tablet or smartphone
2. Enter the event code **#P571**



EU D4D
Coalition
Digital for
Development

History

Nov 17: Launch D4D approach at EABF Abidjan

April 18: 1st D4D Multi-Stakeholder Event → **Constitution of D4D Coalition**

Oct 18: D4D WS 1: **Smart Cities**

Nov 18: D4D WS 2: **Broadband connectivity**

Dec 18: HLF Africa Europe / Launch of DETF

Jan 19: D4D WS 3: **Digital Entrepreneurship**

Today: 2nd D4D Event

Next?

Three D4D Coalition Workshops

‘Smart Cities and
Communities’

51 participants

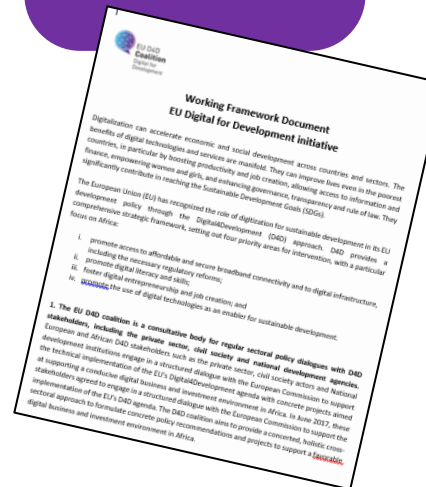
‘Open, affordable and secure
broadband connectivity’

45 participants

‘Future of employment –
Challenges/Opportunities of
Digital Entrepreneurship’

48 participants

Position
Paper



Participant list:

- EU COM
- Smart Africa
- African Union
- Internet Society
- GSMA
- UNCDP, ITU
- BRCK
- Virtual University Sénégal
- Make-IT in Africa
- EIB / KfW / AFD
- World Bank
- UN-Habitat
- Independent Researcher
- OECD
- Impact Hub, etc.

WS 1 – Smart Cities & Communities

“A **smart sustainable city** is an innovative city that uses **information and communication technologies (ICTs)** and other means to **improve quality of life, efficiency of urban operation and services**, and **competitiveness**, while ensuring that it meets the needs of **present and future generations** with respect to economic, social, environmental as well as cultural aspects” (ITU, 2015)

*“**Digital solutions** are the most powerful and cost-effective additions to the full tool kit for making a city great ... these technologies can help cities make moderate or significant progress toward **70 percent** of the Sustainable Development Goals.”*

McKinsey Global Institute, 2018



WS 1 – Smart Cities & Communities



Mobility



Energy & Electricity



Governance & Service delivery



Water & Sanitation

Opportunities
& challenges

Enabling
environment

Sustainable
development
& inclusion

Strategic
partnerships

Recommendations for Sustainable and Inclusive Smart Cities and Communities in Africa
Best Practices & Projects examples

WS 1 – Smart Cities & Communities

How to build sustainable & inclusive smart cities?

- Smart citizens
- Affordability & access
- (Digital) literacy & skills
- Digital principles for Development
- Do no harm
- Monitor progress & increased effectiveness



WS 1 – Smart Cities & Communities

Financing sustainable & inclusive smart cities

- ODA for smart cities & smart citizens
- Blended financing
- Innovative business models: e.g. Pay as you go & Data as a (joint) resource



WS 1 – Smart Cities & Communities

Policies and regulations enabling sustainable & inclusive smart cities

- Data policies & regulations: Data protection, data sharing, open data & open standards
- Digital identity policies & regulations
- Competitive markets
- Tax policies



WS 1 – Smart Cities & Communities

- Smart Cities for Mobility:
 - Mobility and Digital by Orange, AFD, Dakar Transport Authority (CETUD), Groupe Huite & Systra
 - Mobile phone data to improve mobility in Kampala by UNCDF, Dalberg Data Insights and KCCA
- Smart Cities for sanitation
 - Remote sensing and utility data to understand access to water in Kampala by UN Global Pulse, NWSC
 - Pre-paid water systems and meters in Niger, Kenya and Mali



WS 2 - Connectivity Workshop (Brussels, 19 Nov 2018)

Leave no one behind: Open, affordable and secure broadband connectivity

▲ Round tables and inspirational talks on digital solutions

- How to create efficient financial instruments for the European and African private sector to better develop the connectivity market?
- What are the business obstacles that hinder network expansion and connectivity in Africa?
- What are inclusive models that can reduce inequality in access to broadband?

▲ 40+ participants

- EU Commission and Members of the European Parliament
- Members of international banks and organizations and national agencies



Maarit Palovirta

Internet Society



Didier Nkurikiyimfura

Smart Africa



Maguette Mbow

CEO of LA2CW – L'Afrique c'est Chic World and COO of BEE 55



Thierry Zomahoun

Founding Executive Director and CEO of African Institute of Mathematical Sciences



Charles Goerens

Member of the European Parliament



Christian Doyen

BRCK

Introduction

Smart Cities

Connectivity

Digital
Entrepreneurship

Q & A / Debate

Next steps

WS 2 - Connectivity

Addressing the main challenges

▲ In Africa, widespread connectivity challenges remain and affordable data packages are largely unavailable

- 700 million people have limited or no access to broadband internet
- 470 million people lack reliable mobile broadband access (3G+)

16%

Internet Penetration in Africa today



167m
Internet Users



67m
Smart phones



over **51m**
Facebook Users



More than **400m**
Beyond the reach of terrestrial fiber node



More than **50%**
Of urban residents are online

~50%

Internet Penetration in Africa by 2025



600m
Internet Users



360m
Smart phones



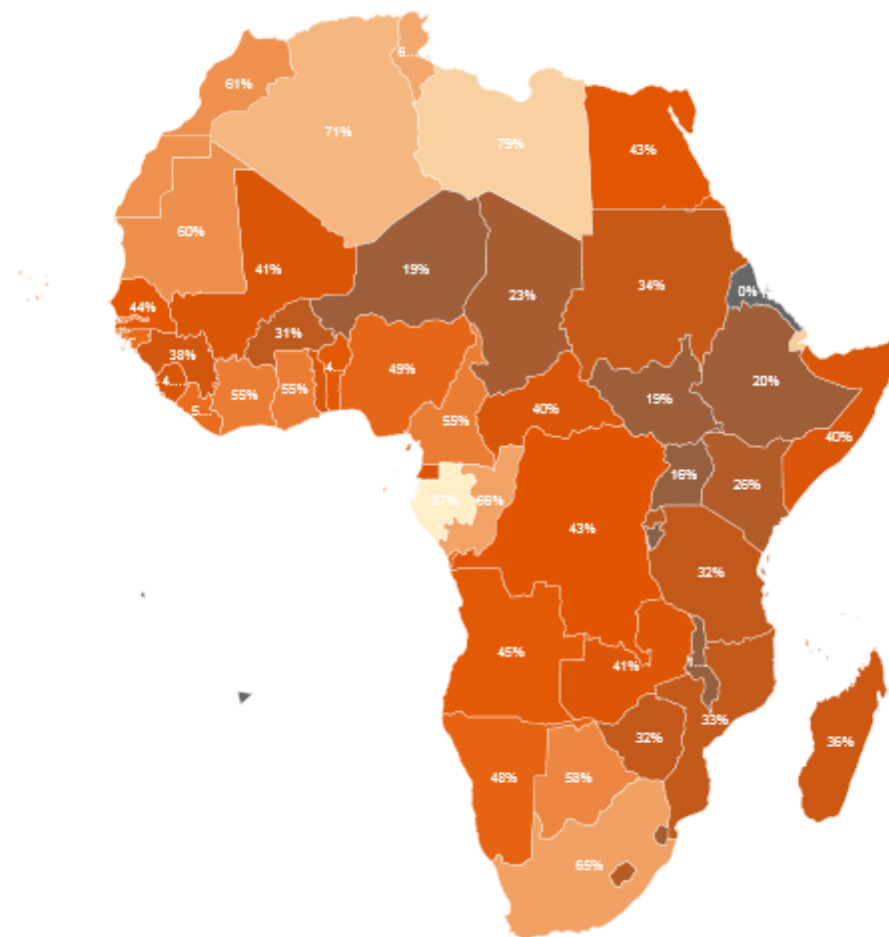
over **\$75 billion**
In annual e-commerce sales



More than **\$300 billion**
Productivity gains in key sectors



\$300 billion
Internet contribution to GDP



Introduction

Smart Cities

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Digital
Entrepreneurship

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Next steps

MBB % of Population
0% 44% 87%

WS 2 - Connectivity “1st Round Table”

Outcomes

▲ How to create efficient financial instruments for the European and African private sector to better develop the broadband connectivity market?



Setting up a **three-pronged approach** to more efficient coverage



Preparing a **comprehensive mapping of the population** and its needs



Encouraging **Public-private partnership**



Creating a **one-stop shop D4D budget** to support new business models



Agreeing on **criteria for calls for tenders**



Ensuring **loans** and **first loss guarantees**

Introduction

Smart Cities

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Q & A / Debate

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WS 2 – Connectivity “2nd Round Table”

Outcomes

▲ What are the business obstacles that hinder network expansion and connectivity in Africa?



High costs for customs and licenses



Misreading of the social advantages
and economic benefits of connectivity



Lack of public support and of fast and
efficient public funding instruments



Shortfall of local or regional presence
and of a reference body for solutions
seeking and discussions



Absence of technical assistance
and need for capacity-building



Listen to African views of the
reality on the ground

WS 2 - Connectivity “3rd Round Table”

Outcomes

▲ What are inclusive models that can reduce inequality in access to broadband?



Fast, cost-efficient solutions based on mix of technologies (WiFi, Mobile, Satellite) and reliable connection regardless of population density`



Access to information, democratic participation & public e-services



Connectivity has the potential to improve inclusion, education, gender equality & literacy



Development of e-services and applications to sustain the business models

WS 2 - Connectivity

Final Recommendations

Three-pronged
approach to more
efficient coverage

Transparent
one-stop shop D4D
budget

Favourable
regulatory and
policy environment

Support capacity
building initiatives

Promote demand
generation for
Internet
connectivity

Introduction

Smart Cities

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Q & A / Debate

Next steps



WS 2 - Connectivity

Project showcase

▲ **SES Connected Agribusiness Marketplaces (CAMPs)**

- Together with Farmerline and Solar Kiosk, SES aims to provide a **connected solar infrastructure coupled with a mobile application** for farm management, climate advice and mobile saving and credits, with a connected agribusiness market place
- For an estimated cost of EUR 6 mio., **100 self-powered and connected CAMPs will be run by and for farmers** in Africa by 2021
- CAMP aims to **connect 1 mio. farmers** with a **zero-carbon footprint**
- Connecting farming communities **in the most remote areas** will **increase productivity** by 10% and lead to a total income growth of EUR 115 million per year.

▲ **Philips Primary and community care Mobile network coverage**

- **Modular building blocks** allow customization to structure solution according to local need, policies and regulations
- Standardized, **configured solution modules**
 - Solution design
 - Infrastructure
 - Community outreach
 - Capacity strengthening
 - Data, monitoring, evaluation and learning
 - Project management
 - Aftercare service
- Final solution platforms
- Solution platforms applied across *referral from community to secondary care level*

▲ **Orange Mobile network coverage**

- Closing the mobile coverage gap is not a technical challenge. It is primarily an **economic challenge**, addressable through partnerships
- It requires the **ability to define the geo-marketing approach** and appropriate infrastructures
- Addressing **energy availability** with a Solar Home System providing basic energy needs (few lights, charging phone, fan and tv) and a Mini Grid supplying energy to community around the Telco tower.
- **Access to networks** with a Telco Site (Local management, adapted technology/equipment, affordable backhauling)
- **Access to devices, users and services**

WS 3 – Future of employment & Digital Entrepreneurship

Relevance of the topic

- **Opportunities of digital transformation** of the African job market:
 - new job opportunities for (digital) entrepreneurs
- **Challenges of digital transformation:**
 - new skills needed – in a context with a huge digital divide
 - new demands for education/training,
 - new legal and regulatory environments needed



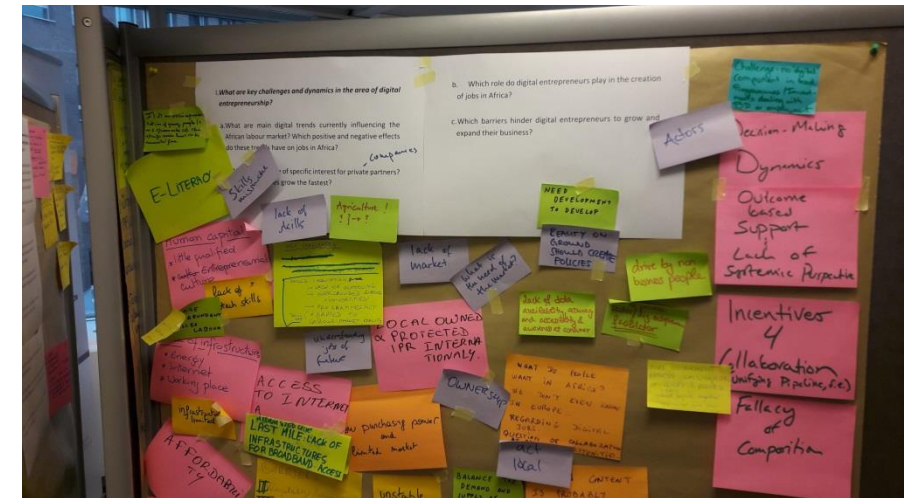
WS 3 – Future of employment & Digital Entrepreneurship

Today, African digital economies and entrepreneurs face multiple challenges:

- Not inclusive: lack of infrastructures, digital literacy gap, lack of trust
- Policy and regulatory environments are not favorable to tech entrepreneurs
- Huge skills gap
- Entrepreneurs lack access to finance, support, and international connections

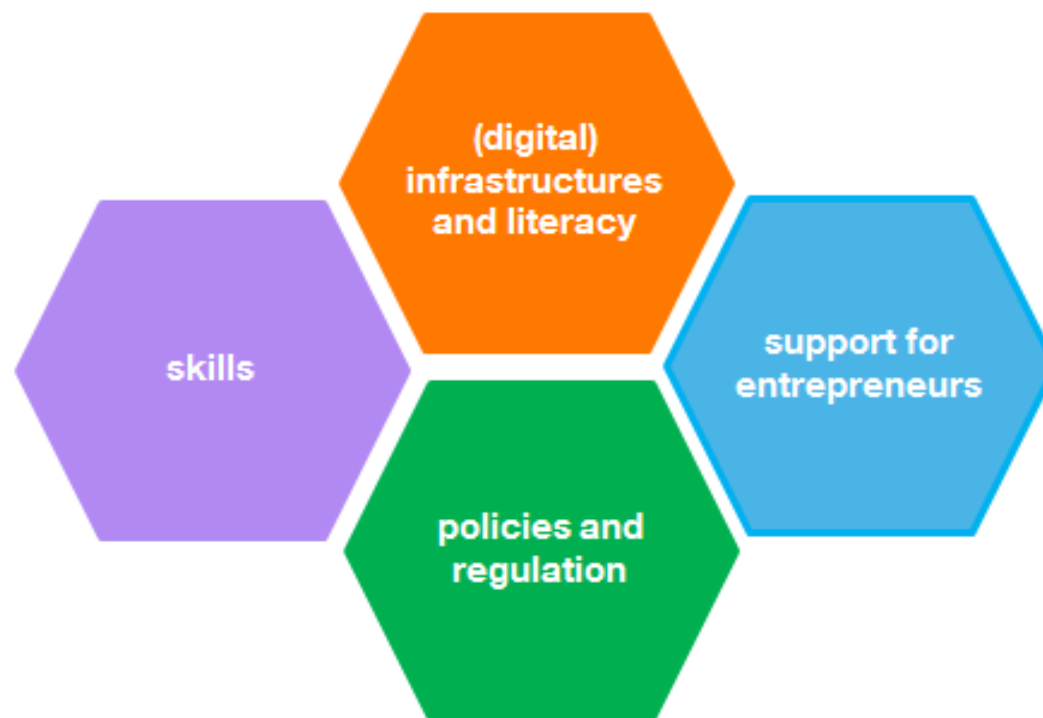


- Digital entrepreneurship: challenges and dynamics
- Digital entrepreneurship: enabling mechanisms + environment
- Digital entrepreneurship and sustainable development / inclusion
- Strategic Partnerships



WS 3 – Future of employment & Digital Entrepreneurship

- Tomorrow, we need to build strategic partnerships to tackle 4 areas of action

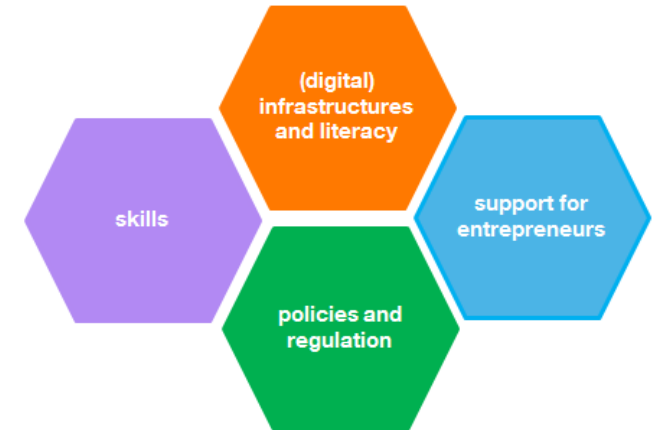


WS 3 – Future of employment & Digital Entrepreneurship

Strategic partnerships

- Continuous dialogue between EU, AU, governments, UN agencies, private sector, academia, grassroot/civil society organisations
- Share best practices rather than reinventing the wheel
- Strengthen local solutions
- “Digital by default”

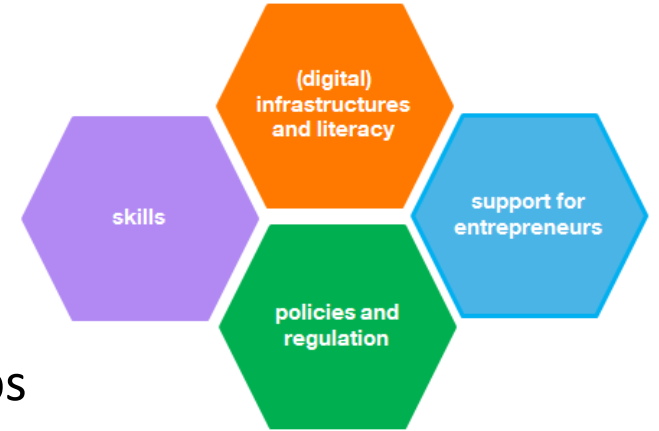
How to organise ? => AU-EU DETF + D4D Coalition



WS 3 – Future of employment & Digital Entrepreneurship

Joint (public, private, civil society ...) action needed on

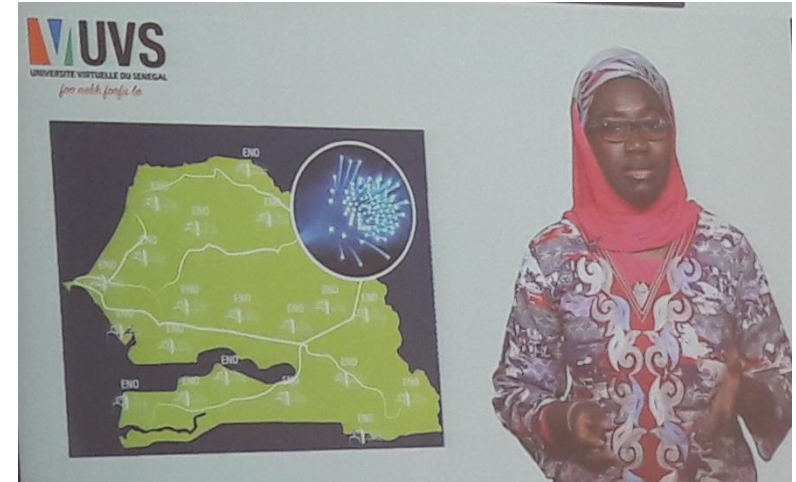
- **Affordable connectivity:** mapping; new financing models + partnerships
- **More flexible and creative regulatory and fiscal frameworks:** inspiration from Tunisian start-up act
- **Building 21st century skills** through distance/hybrid learning
- **Professionalising and connecting** existing Innovation Hubs to support local entrepreneurs



WS 3 – Future of employment & Digital Entrepreneurship

Project examples

- **Strategic partnerships:** S4YE/World Bank; Make-IT Alliance
- **Regulatory and fiscal frameworks:** i4Policy; Tunisian start-up act
- **Building 21st century skills:** Virtual University of Senegal, coding classes (Africa Code Week/SAP with partners; or Sonatel Academy/Orange with partners)
- **Professionalising and connecting** existing Innovation Hubs: Afric'innov; UN International Trade Centre projects in Senegal and Uganda



Next Steps of D4D Dialogues

General recommendations:

- Digital by default
- Foundations: connectivity / infrastructure; digital skills; enabling institutional environment
- Continued political support by MS welcomed and coherent EU-AU approach
- Sustain and deepen the multi-stakeholder dialogue in close collaboration with existing initiatives for new strategic partnerships and co-innovation

Ways forward

1. Continuing and deepening the multi-stakeholder dialogue on (1) AU-EU, (2) regional and (3) national level to identify priority reforms and concrete actions
2. Provide a one-stop shop to partner countries & local actors for technical assistance
3. Pilot innovative approaches/business models and promote knowledge sharing



Now is the time...

.....for **questions** to the D4D Coalition and suggestions around deepening the D4D dialogues in the future

1. Questions from the audience
2. Questions from **slido.com** -> simply enter your event code **#P571**

...???

