

Shifting into Next Gear: Digital for Development



The D4D-coalition is a group of likeminded European technology companies that have teamed up to support the European development cooperation. We are inspired by European values and driven by the firm belief that joining forces in a public private partnership for mutual benefit will best serve the inclusive and sustainable development of Europe's partner countries.

This paper aims to provide some examples of how projects of the coalition already contribute to the EU's and partners' efforts to ensure joint mobilization to scale up and make a bigger difference together in reaching the Sustainable Developments Goals.

JUNE 20

Digital 4 Development Coalition



**EU D4D
Coalition**
Digital for
Development

I - Partnerships for Digital Infrastructure

- **2Africa:** The [2Africa consortium](#) is composed of Orange Middle East and Africa, Vodafone and 5 other operator investors. It is a 37,000 km cable which will eventually encircle Africa, and is scheduled to be operational in 2023/2024.
- **Partner2Connect** - Digital coalition organized by the ITU, which has been set up to foster meaningful connectivity and digital transformation globally in the hardest-to-connect communities. Various D4D Coalition members have made pledges in this regard:
 - **Vodafone:** will invest US\$190 million over the next five years to increase our 4G population coverage to an additional 80 million people in Africa.
 - **Orange:** will invest EUR 5.6 billion in 16 countries in the Middle East and Africa over the period 2021-2025, out of which EUR 3.7 billion will be invested to increase voice and data coverage and connectivity.
 - **Nokia:** will improve the lives of 1.5 million people by the end of 2025 through socially driven digitalization projects, digital skill building, and connecting the unconnected or underserved.
- **Nokia**
 - Partnership with African CSPs- Communications Service Providers- to provide Africans with latest connectivity technologies from 1G to 5G and from telegraph lines to fiber optics. ([video](#))
 - In 2021, Nokia's Submarine division (Alcatel Submarine Networks), began construction of the Africa-1 subsea cable, a 10,000 km cable to connect Africa to the Middle East and Europe (see map [here](#)).
 - Nokia will deploy a 4G/LTE, [5G-ready network to service](#) over 36 rural areas in Argentina, boosting connectivity for underserved communities and businesses across the country.
- **Orange**
 - **Djoliba** – Orange's first integrated pan-[West African fiber backbone](#) will increase the pace of digitalization and regional connectivity.
 - **IDEAL:** Orange tackles digital inclusion with its "Include Digital in Every African's Life" (IDEAL) project, which aims at offering tailor-made solutions to extend mobile connectivity in underserved areas. *More information: Orange – ["Digital Africa"](#)*

SES/Orange partnership: To deliver reliable connectivity solutions in Africa, with Orange leveraging SES' innovative O3b satellite constellation operating in medium earth orbit (MEO) as well as SES' geostationary satellites to deliver global fibre-like, low-latency services; Orange also partners with SES to deploy and manage the first [O3b mPOWER gateway](#) in Africa, allowing the African continent to enjoy easy access to high-performance and low-latency connectivity services.

SES/Vodafone partnership: to deliver 4G and 5G [high-speed mobile broadband services](#) to Papua New Guinea via SES's O3b medium earth orbit (MEO) satellite constellation, which will further enable economic opportunities and bridge the digital divide in the world's second-largest island. Under this partnership, the O3b MEO satellite constellation will provide the local service provider Digitec with high-speed mobile backhaul services for 5 locations in PNG.

II - Green Deal and Climate Transition

Smart Agriculture

- **Orange:** [14 services](#) dedicated to farmers in 8 African countries, that reduce intermediaries and improve productivity.
- **Vodafone:** the Connected Farmer Alliance has provided smallholder farmers with access to markets, inputs, information, and financial services.
- **Nokia:** ConnectarAgro empowers Brazilian farmers by bringing connectivity to rural areas. (video [here](#) in Portuguese)
- **Nokia and Vodafone:** have launched Smart Agriculture-as-a-Service to improve the livelihood of 50,000 farmers across 10 districts in the states of Madhya Pradesh and Maharashtra in India, through deploying IoT networks that improve the monitoring of farming activities. See more [here](#).
- **SAP:** the Rural Sourcing Management supports the connection of smallholder farmers in developing countries with global producers. A strategic Alliance between SAP and GIZ strengthens smallholders' agricultural businesses in Uganda. See more [here](#).

Food security

- **Vodafone:**
 - In Egypt, Vodafone helps local communities to use technology to improve farming through digitalising irrigation systems.
 - In South Africa, the Women Farmers Programme is teaching women how to use apps to connect to potential customers and increase their profits.
 - In Tanzania, Vodacom M-Kulima implemented a platform that helps farmers list their products on a digital marketplace, connects them directly with buyers, and provides them with useful information.

- In Kenya, DigiFarm leverages mobile and digital technologies for smallholder farmers, using drones to perform aerial surveys of smallholder farms and providing them with useful information.
- In partnership with Mezzanine: [evouchering platform](#) that allows cashless value solutions.

Waste Management

- **SAP:** pilot project with the World Economic Forum, the Global Plastic Action Partnership (GPAP) to create a cohesive group of more than 2,000 waste pickers and measuring the quantities and types of plastic that they collect. See more [here](#)

Green energy

- **Orange:** off-grid solutions adapted to the needs of rural communities. Mini-grids are being deployed in Burkina Faso (Smart mini-grid) and DRC (Mini-grid ABC “Anchor to Business to Community”) and have the potential to be extended to other countries in Africa and the Middle East.

III - Human Development

e-Health

- **Orange:** 14 e-health services in seven African countries from remote health advice. M-Vaccine, deployed in collaboration with the GAVI Vaccine Alliance and offers a digital immunization record to improve vaccine coverage ([Video](#)).
 - **MicroUtilities Project for Health Facilities:** Gavi-Orange [partnership](#).
- **Vodafone:** mVacciNation is a digital e-Health toolkit based on a mobile technology platform which manages vaccinations and stock availability levels.
- **Nokia:** mHealth partnership with Unicef collaborate to boost healthcare to 58 million children in Indonesia to improve both access and quality of health services. (See overarching Nokia [video](#)).
- **SES:** Public Private Partnership project giving healthcare professionals access to a dedicated e-Health platform via SES’ satellite service. SATMED includes capabilities such as cloud data storage, teleconsultation, teleradiology, health information systems. (More information [here](#) and [here](#))
- **SATEC:** HealthPoint is modular and customisable platform that adapts to the functional needs of clients. See [information](#) about the application.

Communications for Emergency and Disaster relief – Critical services

- **SES:** Emergency.lu - PPP between the Luxembourg Government and three companies, including SES: platform to re-establish communications after a natural disaster, to support the coordination efforts of humanitarian organisations. See more information [here](#) and [here](#).
- **Nokia:** partnership with to conduct the world's first test of a private wireless-connected drone solution for tsunami preparedness and response. See [more](#)).

Education

- **Nokia:** partnership with UN Women, with four pilot projects to bolster inclusion and diversity for equality, addressing areas such as increasing the number of women employees, raising awareness of cervical cancer and uterine fibroids, promoting STEM education, and empowering gender-based violence victims. See about plans to [roll these projects](#) out in more countries.
- **SATEC:** partnership with WBG to promote Higher Education Quality Improvement Project (PROCALIDAD) in Peru. The main objective is to provide a telematic channel through which Higher Education Institutions provide information to MINEDU, with a determined periodicity.

Digital Skills-Vocational training

- **SATEC:** partnership with Intelcom, GIZ and FORMADOS to improve the professional skills for youth people, in order to increase employability, including a vocational training platform in North Africa (Morocco) (See [more](#))
- **Orange Digital Centers:** free and innovative ecosystems dedicated to training young people in digital technology, technology incubation, and startup acceleration and financing, under a partnership with GIZ ([GIZ-Orange factsheet](#)).
- **SAP:** Africa Code Week was spearheaded by SAP in 2015 as part of its social investments to drive sustainable growth in Africa. It is a digital skills development initiative that has benefitted millions of young Africans so far ([more information](#)).

IV - Financial Services

- **Orange Money:** enables 50 million people who don't have a traditional bank account to carry out instant, secure, and reliable financial transaction.
- **Vodafone:** The M-Pesa service launched in March 2007 to enable money transfers between people using 2G feature phones. Starting in Kenya, it grown to serve more than 51 million customers and 465,000 businesses.