

#Tech4Youth BootCamp

Grand Popo, 7-8 August 2019

1. Background

UNFPA is engaged in the development of mobile health solutions to promote sexual and reproductive health and rights especially toward adolescents and youth. Countries such as Benin, Burkina Faso, Ghana, Nigeria and Togo, for the past years have created in association with adolescents and Youth applications and platforms for Comprehensive Sexual Education (CSE) in French and English. These are official languages not spoken by the fringe of population who is illiterate, which reduces access to information, leaves some behind.

Through the ongoing #Tech4Youth initiative, countries share experiences; assess needs of young people and strategize on how technology can add value towards achieving UNFPA's SP objectives, including Demographic Dividend (DD), assess successes and challenges in implementing mHealth initiatives and most of all, identify common key priorities and strategic objectives with use of technology to accelerate results of the adolescents and youth program, Benin, Burkina Faso, Ghana, Nigeria and Togo initiate this project.

The project approach is to:

- Ensure the technological **interoperability**, coordination and **scaling up** of CSE mlearning and eLearning between targeted countries
- Ensure availability of tools in at least **3 African languages (Hausa, Fulfulde, Fongbe)** in our sub-region in UNFPA m-learning and –e-learning for SRHR for the adolescents and youth (Ma Vie, Mon Choix"; "QG Jeunes" and "You Must know")
- Build a strong mechanism of South-South Cooperation while establishing a **knowledge sharing platform**,
- Integrate the **m-Health impact tool** for monitoring and evaluation and metrics measurements to better frame m solutions.

Following the above points, targeted Country Offices have agreed to hold a deep dive boot camp with stakeholders that will be a Co creation space focusing on the interoperability settings.

2. Objectives

- Bring all stakeholders, including South-South cooperation, together understand, ideate and co-create a coordination mechanism using human centered design
- Discuss and contribute to the feasibility document on potentialities to integrate Artificial Intelligence into UNFPA's SRHR technologies solutions,
- Have a first draft of an integration plan for our existing solutions that guides the upcoming Hackathon

3. Participants

The following stakeholders are expected to attend the Boot Camp:

- Country Office Resident Representative;
- Technical Analyst of UNFPA Innovation Secretariat (HQ);
- Chief of Innovation and Technology Solution Office (HQ)
- #Tech4Youth COs focal points;

- Epitech from Benin;
- Etrilabs from Benin;
- Africa Design School from Benin;
- Google Developer Group from Benin;
- China CO delegates;
- Dorabot from China;
- Innovation fellows (Benin, Ghana, China);
- Innovation framework consultant;
- Natural Language processing expert from VoxyGen (Ivory Coast)
- UN young leader for the SDGs of the UN SG Envoy on youth (Joannie Marlene Bewa)

4. Methodology of work

The boot camp will be conducted using plenary, presentations, discussion and Q&A.

There will be group work that will line up the common platform prototype and South-South cooperation action plan.

5. Day 1: Plenary, presentations, comments and Q&A

The boot camp started officially on the 7th August by ranking on a continuum, for each participant, on the feeling about **i) #Tech4Youth, ii) Artificial Intelligence and Natural Language Processing and iii) the relation with UNFPA mandate.**

Inspirational and challenging was the first day with the presentation of the potential of AI by Hao Zhang from Dorabot Company, who eloquently displayed the potential of AI for UNFPA. Also and most importantly, participants deep-dived into each other initiatives, including the CSE Live Streaming project on China with knowledge exchange, honest and constructive feedback on how to improve and scale up for enhanced results but also lay foundation for discussion on interoperability.

6. Day 2:

The second day of the boot camp was characterized by three sessions; first one focused on different private sector partner on board to showcase their domain of work and expertise; secondly a session on the Natural Language Processing, especially on the Text To Speech process that will be used as a process for integration of languages in existing apps and the third one on the m-Health Starter Pack and tech initiatives at global level. The plenary gave place to three different groups that worked separately on **1) designing/proposing a prototype of solution for interoperability; 2) TTS languages at local and regional level and 3) partnership global and local partnerships can be leveraged for a more holistic results in #Tech4Youth including project on integration of languages in apps.**

Generally speaking, the first thematic work came on the fact that the platform of interoperability will be a sort of Content Management System (CMS) with integration of NLP and AI, the second one agreed on languages to be considered a local level in the next phase of the project and the last one stresses on the importance of partnership, including with China and external entities, for more holistic impact of the initiative (*Conf. annex 1 for details on findings*)

The day and the camp ended on a high note intervention from Dr. Joannie Marlene Bewa, a UN Young Leader for the Sustainable Development Goals, drawing clear links of the #Tech4Youth Initiative to at least 10 of the SDGs including primarily those on gender equality, good health and well-being, innovation and reducing inequality. She emphasized the absolute importance of ensuring that

interventions to promote SRHR issues do not contravene on the achievement of any of the SDGs which are inherently linked. In committing to use her platform to push Tech4Youth to the frontline of innovations, Dr. Bewa encouraged the team to build partnerships, and remain passionate and motivated.

7. Recommendations and follow up

- In addition to the African local languages to be integrated in the apps via TTS process, French and English, with African accent, will be added;
- Build for interoperability of the digital tools for young people, a back end platform based on Content Management System with Chatbot, NLP and AI;
- The Hackathon to find digital solution for the interoperability, has no more reason to be conducted and must be abandoned due to the fact that digital solution has been found;
- Aligned digital back end platform connectivity to the national digital health strategy;
- Discussion with the Innovation team of ITU for a collaboration and with the Ministry of Digital Economy of #Tech4Youth countries to ensure that our initiative is connected and nurturing the national ecosystems for sustainability and efficiency purposes,
- Explore possibility of having experts on AI, NLP or TTS from China as technical partner to support on demand on different technological outcome and help improve them,



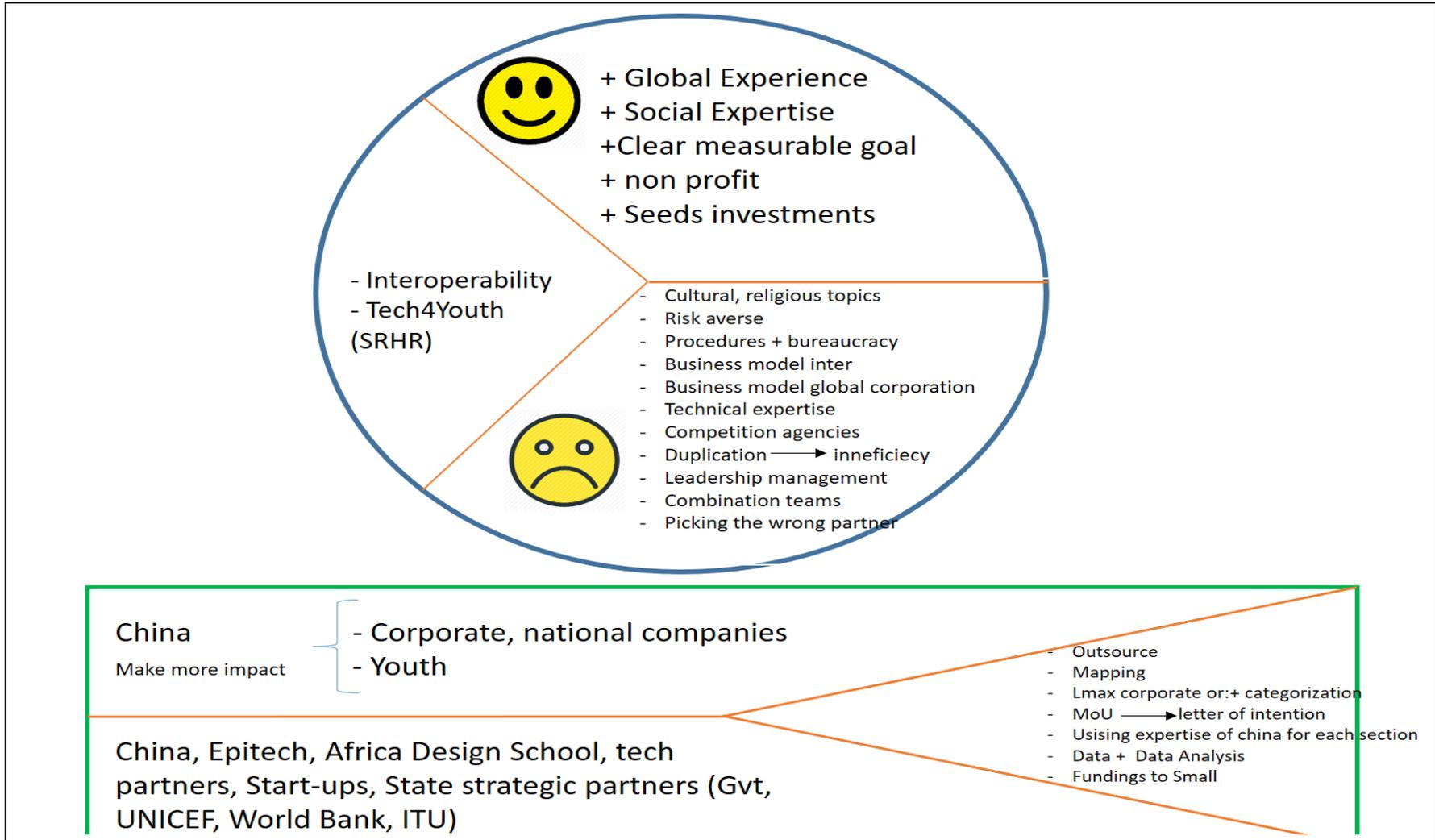
Annexes

Annex 1: Day 2 findings

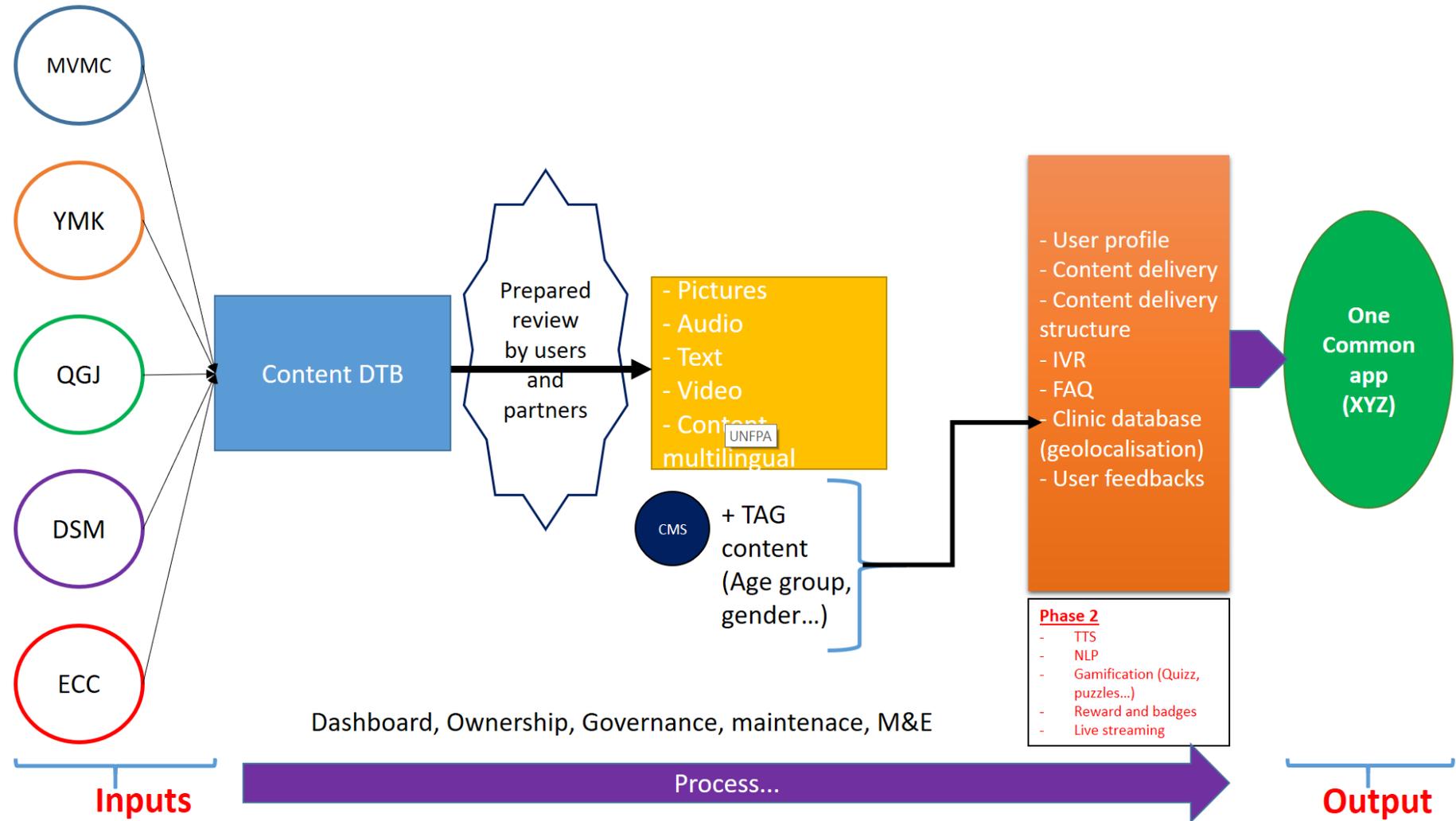
- TTS

	Benin	Burkina Faso	Ghana	Nigeria	Togo
Local language	Fonbgé	Mooré	Twi	Yoruba	Ewé
Written	Yes	Yes	Yes	Yes	Yes
Spoken	44%	45%	80%	35%	25%
Linguists	Yes	Yes	Yes	Yes	Yes
Community Radio	Yes	Yes	Yes	Yes	Yes
Population	11 millions	19 millions	30 millions	200 millions	10 millions
Regional language	Fulfuldé, Yoruba	Dioula	Hausa	Yoruba	Mina

- Partnership



- Interoperability framework proposal



Annex: 2 Participants List

Country	Number of participants	First and last name	Organization	Fonction/Titre
Burkina Faso		Désiré OUEDRAGO	UNFPA	Communication
Chine	4	ZHENG Haoran	UNFPA	Project Officer on Youth Leadership
		CHEUNG Yuen Ting	UNFPA	Innovation Fellow
		ZHANG Hao	Dorabot	Co-Founder and CTO
		ZHANG Xuemei	Dorabot	Branding Manager
Cote d'Ivoire	1	Uriel ELINGUI	VoxyGen	Expert NLP
Ghana	5	Emmanuel ADARE	UNFPA	ICT Manager
		Derrick BOTCHAY	UNFPA	Yole
		Dorcas MANORTEY	UNFPA	Innovation fellow
		Abigail SHARPY	UNFPA	Yole
		Aurelien	UNFPA	AYSRH Programme Assitant
HQ	2	Gilles VIRGILI	UNFPA HQ	Innovation Technical Analyst
		Nayanesh BHANDUTIA	UNFPA HQ	Chief ITSO
Nigeria	1	Fortune MGBANGSON	UNFPA	Programme Assistant for Youth Programming
Togo	1	Nestor KOLAMBIGUE	UNFPA	IT Manager
Benin	13	Barbara LAURENCEAU	UNFPA	CO Representative
		Theodore SOUDE	UNFPA	Assistant Representative
		Wilfried ROUAMBA	UNFPA	Programme Analyst - Innovation focal point
		Alban AMAMION	UNFPA	Lan and Knowledge sharing Associate
		Djawad RAMANOU	UNFPA	Innovation fellow
		Nadine AZIFAN	UNFPA	Assistant Communication
		Joannie Marlene BEWA	UNYE	United Nations Young Leader for the Sustainable Development Goals
		Sedjro MENSAH	UNFPA	International Consultant
		Christophe KINDJI	Google Developer Group	GDG organizer
		Boris Dehoumon	Google Developer Group	GDG organizer
		Basile BARRINCIO	Etrilabs	Developer
		Claire HAZOUME	Africa Design School	Communication officer
		Emmanuel SOLOMO	Epitech	Directeur pédagogique d'Epitech