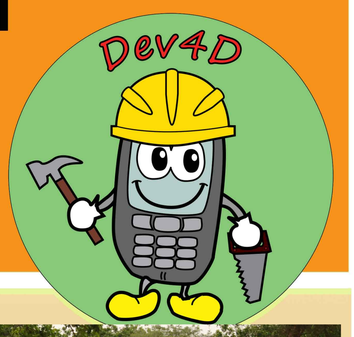
# ICT4D 3.0

## An Adaptive, User-Centered Approach to Innovation for Development

Anna Bon 2016




## Why ICT4D 3.0 ?

*'Shipping computers, internet and other mainstream, western technologies to developing regions'*, is common practice in ICT for development (ICT4D). This is done without consulting the envisaged users, or taking into account their local objectives.

ICT4D 3.0 takes a different approach, and puts the users' needs first. It is based on three principles:

1. **Goals and objectives are set by local users:** In e.g. West Africa, farmers are engaged in regreening their lands, in setting up local value chains for tree products such as sheabutter, honey and baobab leaves. They are concerned with livestock health, and they want to have better weather forecasts for cropping and harvesting. ICT4D 3.0 takes these problems as the starting point.
2. **Co-creation, in close collaboration with end-users:** Use cases and requirements are collected and new systems are invented and designed, in an iterative process of co-creation, co-evaluation, design, modeling, finetuning, and field deployment.
3. **Technologies are fully adapted to context:** The technologies that result from this co-creation process are fully adapted to the local goals and context, make use of existing local infrastructures (radio, mobile) , are aligned with local values and habits, (language, speech modality etc.) and are affordable for the given (low-resource) context.

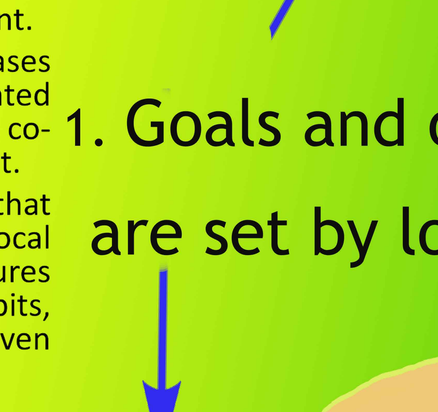
Regreening Initiatives

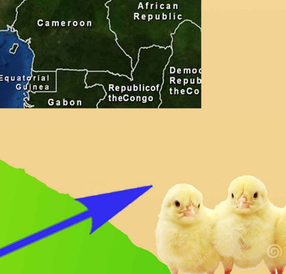
Seeds & markets

Animal health

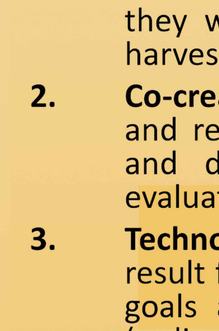
Get info on rainfall

1. Goals and objectives are set by local users



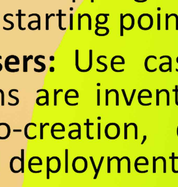
Emerging agro-forestry value chains




DigiVet

An application to diagnose animal diseases in Ghana

Examples?

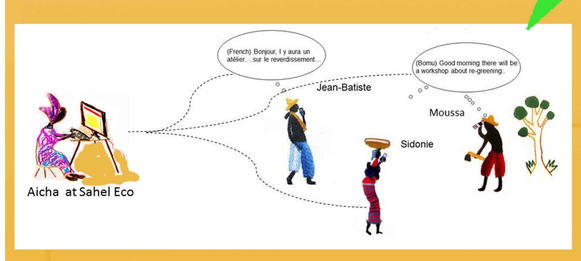




speech as modality

3. Technologies fit for context

Market information system for tree products




send messages in various languages

meteo data services

2. Co-creation in close collaboration with users

How?

Agile development rapid prototyping

Contextualized demos and scenarios

Living lab sessions in the users' environment

Use case and requirements workshops

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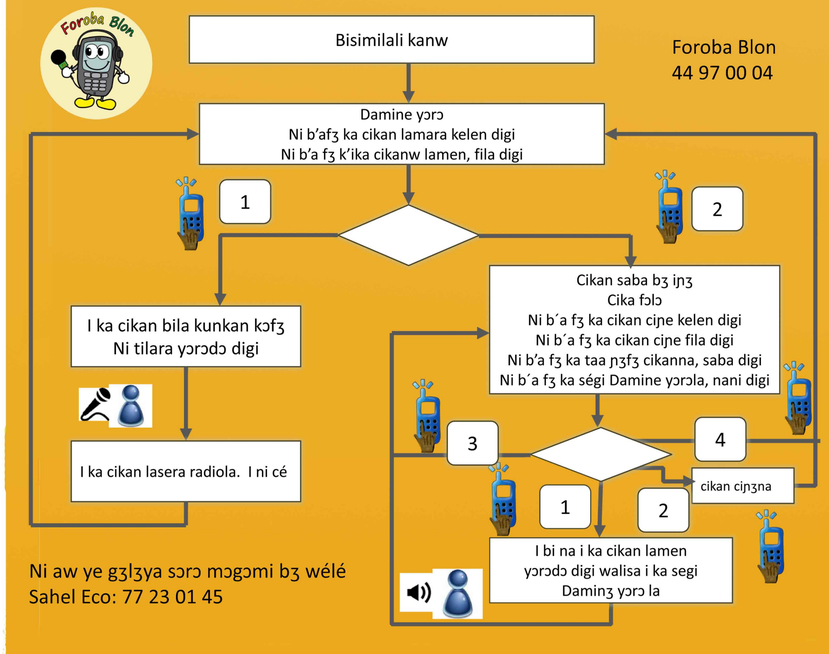


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A contextualized voice-based application

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Web Alliance for Regreening in Africa (http://w4ra.org)