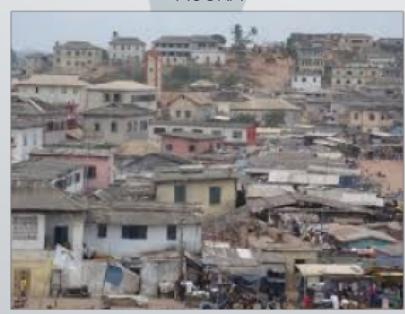
## FRUGAL INNOVATION WITH SOFTWARE

Betty Enyonam Kumahor (@enyok) GOTOber 2018





ACCRA





KETA



ACCRA HATORGODO

# Constraint Driven Development

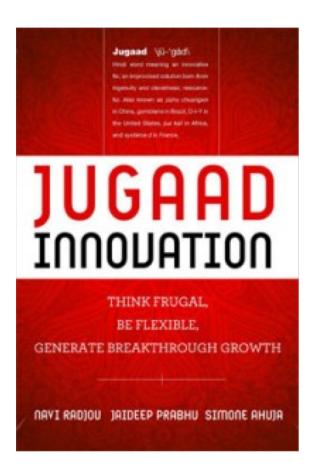
Successful technology solutions on the continent require constraint-driven development.



#### "CDD" leads to frugal innovation

## TYPICAL CONSTRAINTS

Power / Electricity
Connectivity
Literacy
Address System
Peripheral devices
Cash





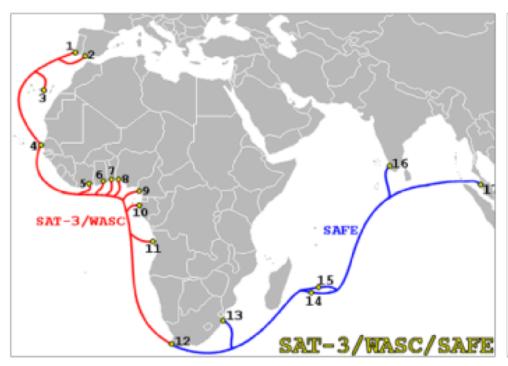


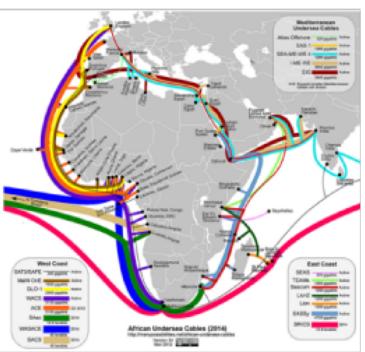
#### Context... makes ALL the difference





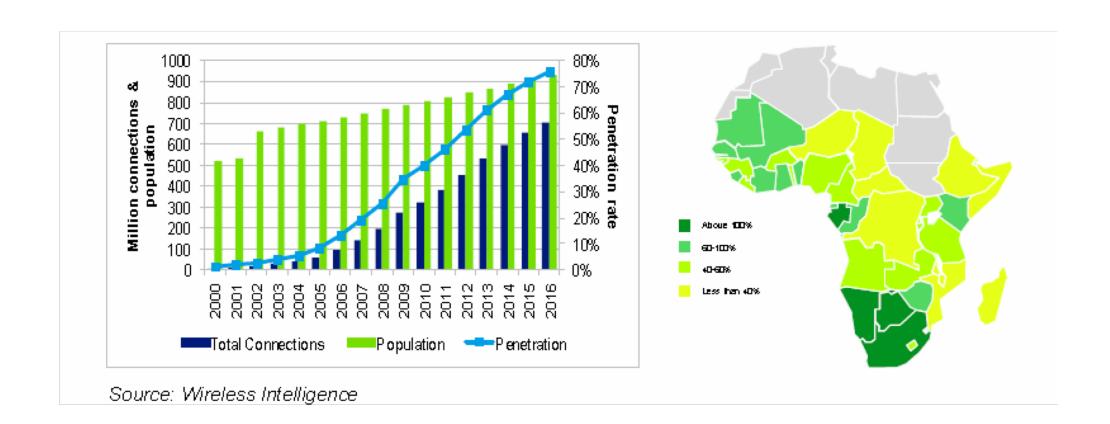
#### Africa is **NOT** mobile first ...





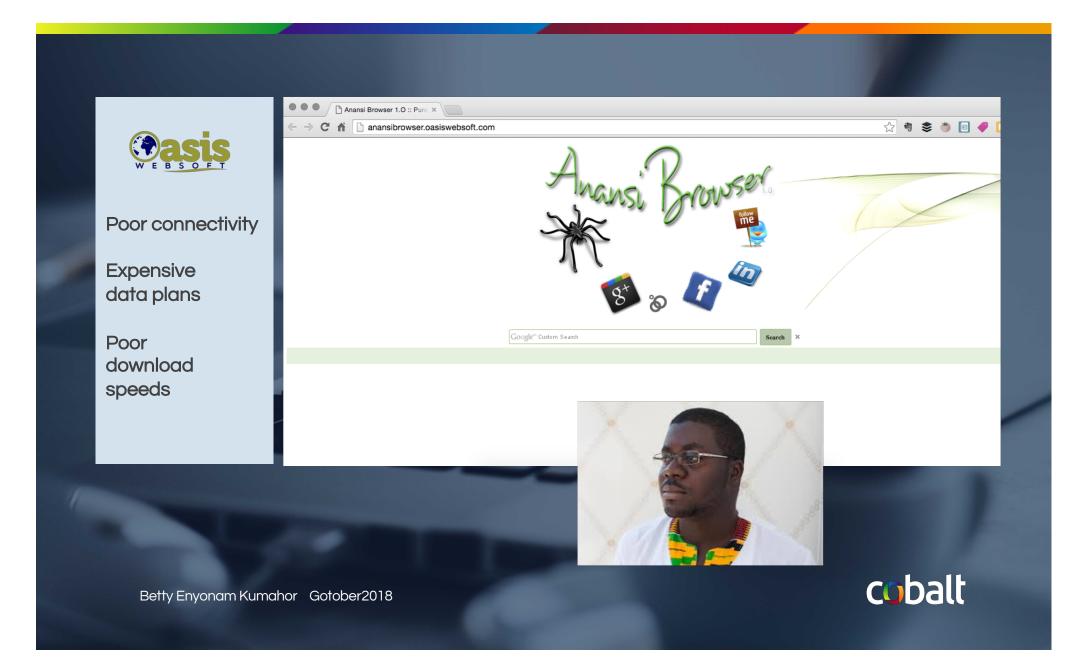


#### ... it is mobile only.

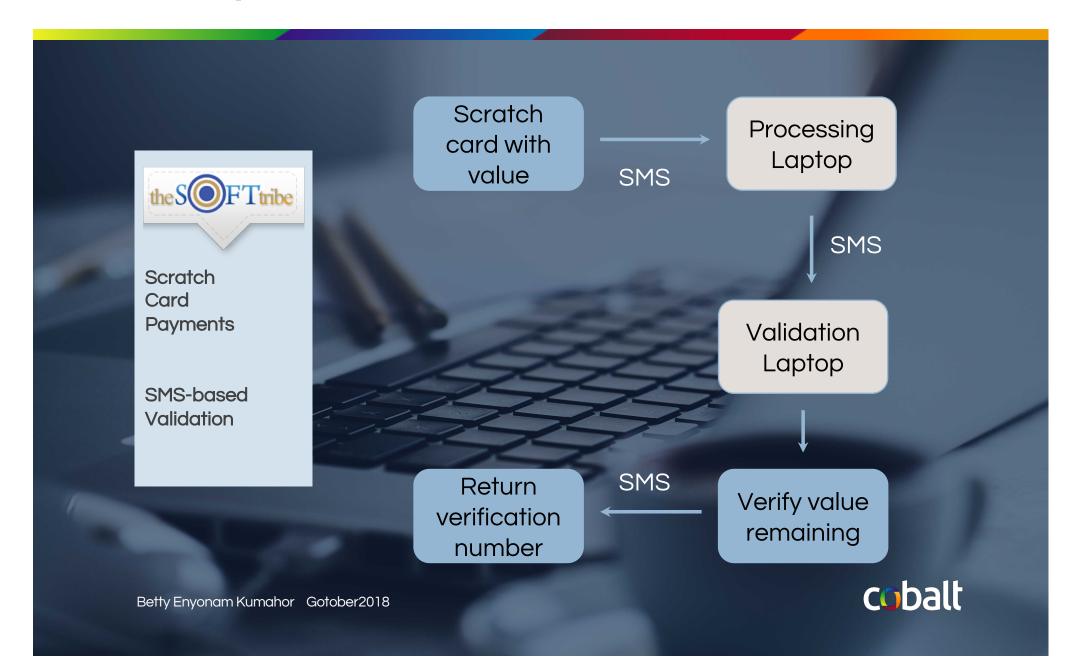




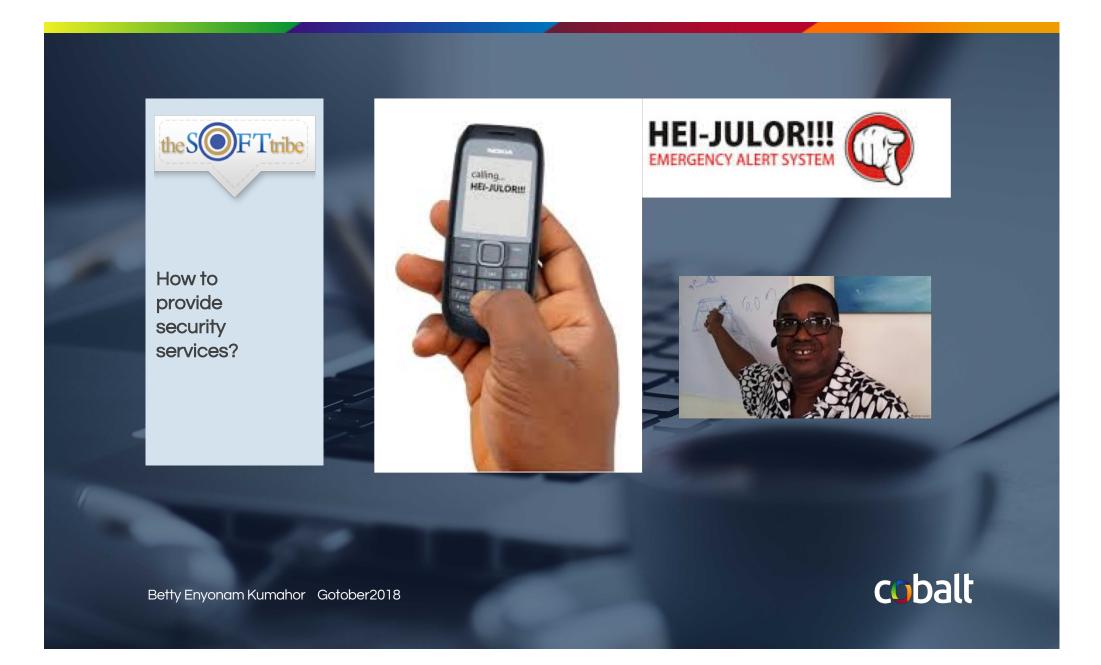
#### Story 1: Browsing on a budget ...



#### Story 2: Who needs credit cards?



#### Story 3: Its about the context ...



#### Story 4: Spatial analytics on a budget

#### **TWENDE**

**IBM Research** 

Utilising low fidelity cameras

Directions by SMS





#### Story 5: Enabling micro manufacturing

### cobalt

Facilitate micromanufacturing

Access to markets









### Story 5: Social engineering...

### cobalt

Technology manages paper

Many frugal innovations = one big innovation







#### Story 5: Social engineering...

#### cobalt

Technology manages paper

Many frugal innovations = one big innovation











#### Story 5: Social engineering...

## cobalt

Technology manages paper

Many frugal innovations = one big innovation





#### Story 6: Beyond borders

#### RAPIDFTR

Lack of an address system

How to enable package routing?





#### Story 7: Understanding context



Design thinking

Many frugal innovations = one big innovation





4 Ways Design Thinking Can Be a Powerful Tool for Change

ExperiencePoint<sup>®</sup>



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