WESTERN SYDNEY UNIVERSITY





A Smart Computing Framework Centered on User and Societal Empowerment to Achieve the Sustainable Development Goals

A/Prof. Bahman Javadi April 2019

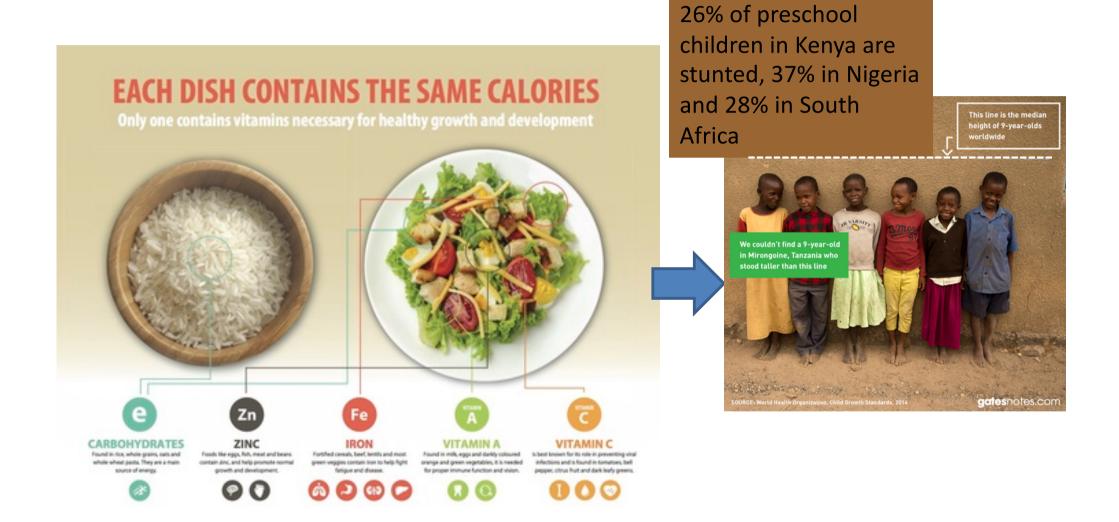


Smart Computing

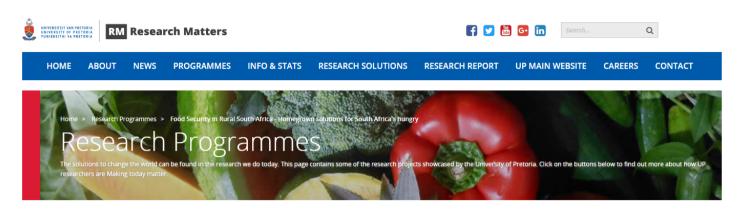
- Smart Computing is an effective method to integrate
 - computer hardware, software,
 - social media and communication networks
 - smart devices, Internet of Things (IoT),
 - big data analytics,
 - Artificial Intelligence (AI)



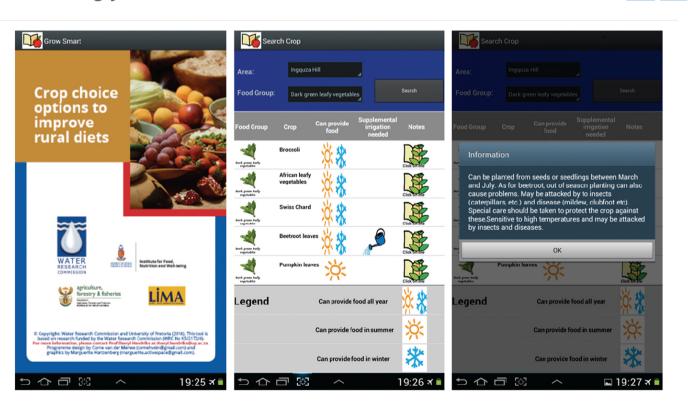
Mitigate Hidden Hunger in Africa



Findings from University of Pretoria study

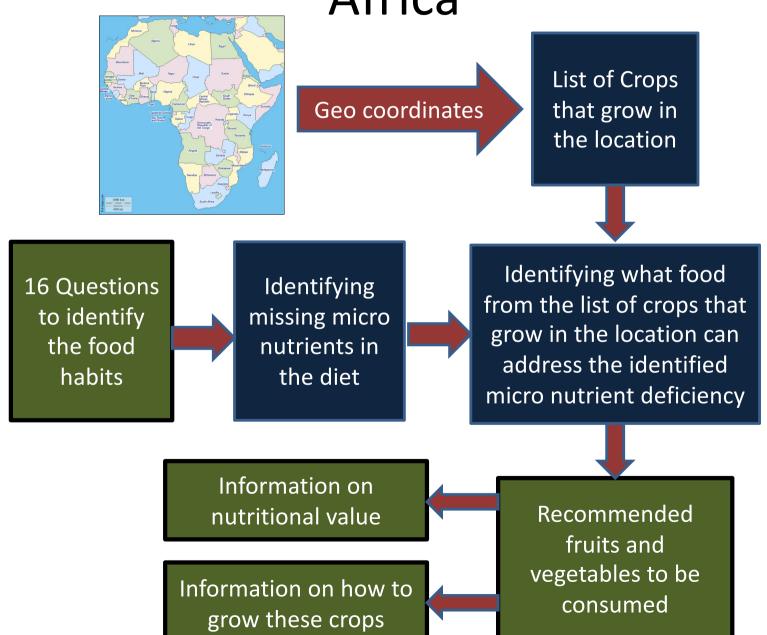


Food Security in Rural South Africa - Homegrown solutions for South Africa's hungry





Mobile based Information System for Africa



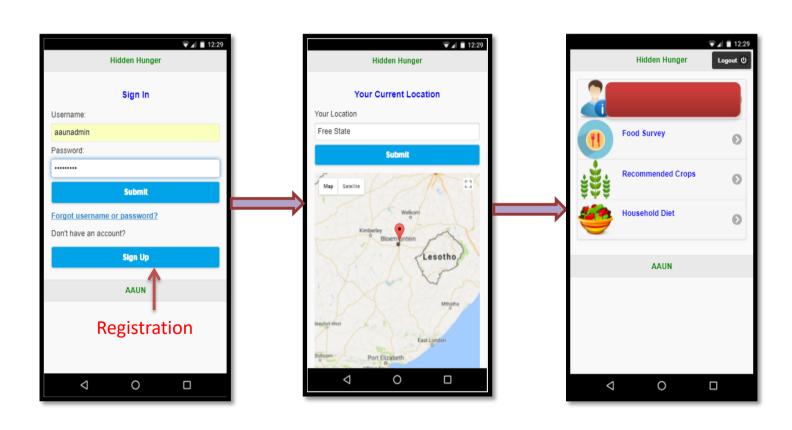




Phase	Detail
Phase 1 (2016-2018)	Organising the knowledge to generate actionable information to address food diversity needs. • Household Level • Food Diversity Survey • Recommended Local Crops
Phase 2 (2018-2020)	Societal empowerments by developing a social network to meet the nutrition based food requirement as a community by exchanging different food types and raise awareness. • Community Level (geographical regions) • Crops Map • User Connectivity

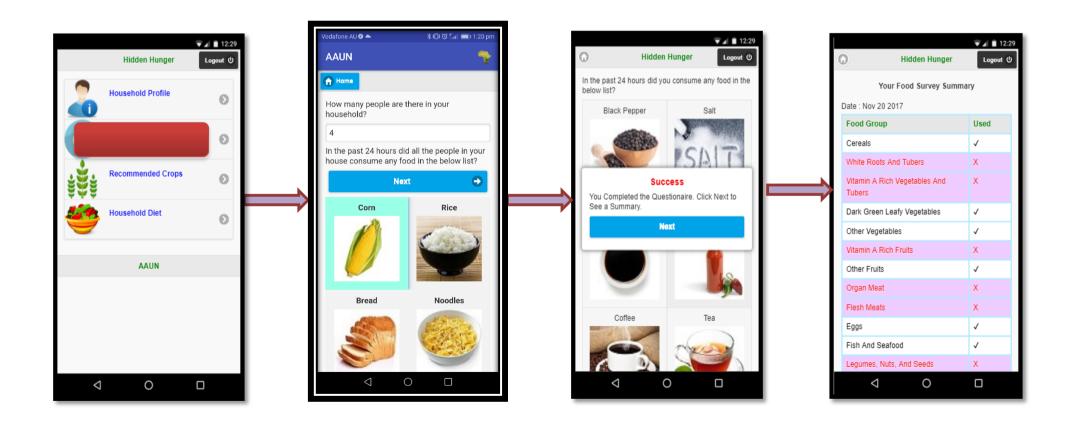
Ustawi: Registration and Login





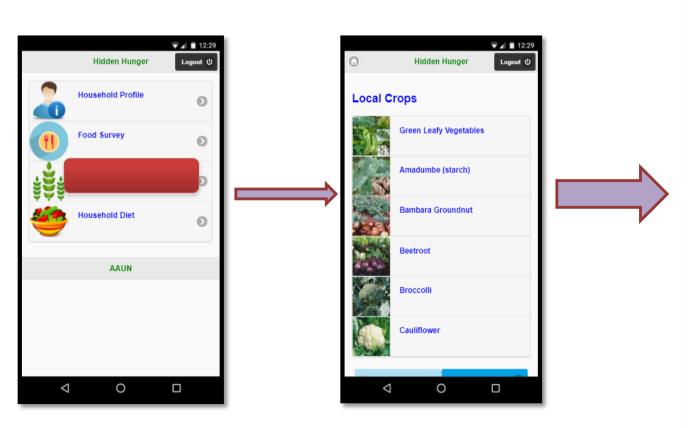
Ustawi: Food Survey (24-hour recall)





Ustawi: Recommended Crops (Local Crops)









Field Test

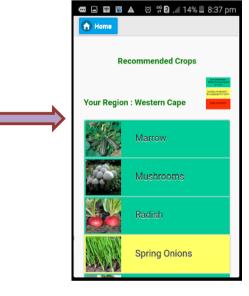


- Blantyre, Malawi
- 71% prefer to grow their own food
- 80% of mothers interviewed identify with the problem of nutrition
- 74% want more information on healthy foods



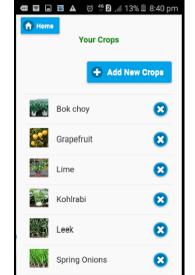
Ustawi 2: Available Crops







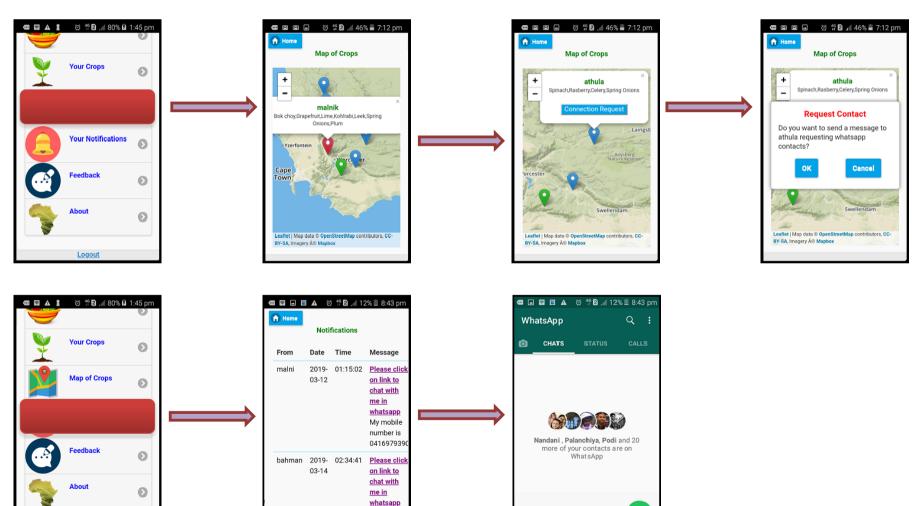






Ustawi 2: Map of Crops





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Project Team

16 Researchers from 4 countries from Australia and Africa



















Thank You



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