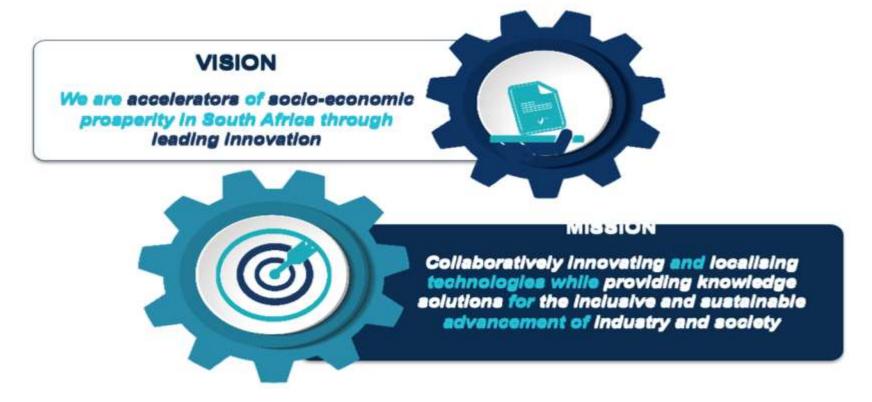






### **CSIR's Vision and Mission**







### **Outline**

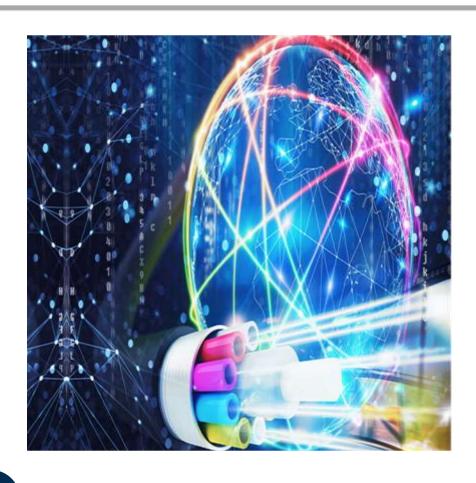


- 1. Motivation
- 2. Background
- 3. Programmes to support rural digital entrepreneurial champions (Rural TVWS network operators)
- 4. Beneficiary entrepreneurs, status and impact
- 5. Rural digital entrepreneuria champions success stories
- 6. Word of appreciation



## Motivation (1/4) – Digital Inclusion for Economic Growth





- The 4IR requires ubiquitous low-cost broadband connectivity to the information superhighway for every citizen, enabling them to effectively participate in the digital economy; and
- According to various research reports, a 10% of broadband connectivity can contribute up to 2.3 percent of GDP economic growth in developing countries.



### Motivation (2/4) – NDP/NBP /UN SDGs



Touching lives through innovalion

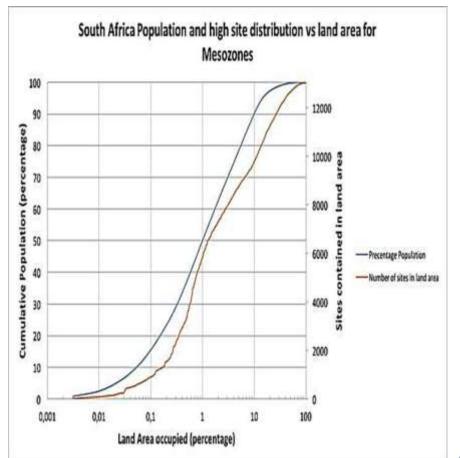




## Motivation (3/4) – The Affordability Challenge

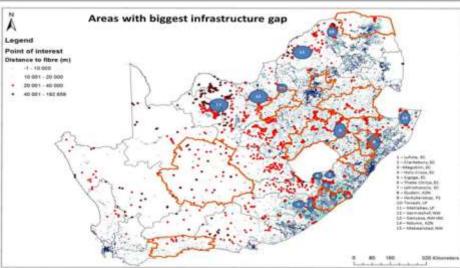


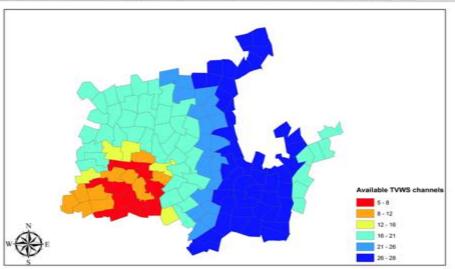
- Nearly 3 Billion people are still not connected to the internet globally
- Approx. 33% of SS Africans are connected to mobile broadband Internet- (RSA is above 95%)
- Approx. 1% of rural South African HHs are connected to Fixed broadband network Vs 14% of urban South African HHs
- Nearly 80% of those connected through mobile broadband are not able to stay online due to the data affordability challenges

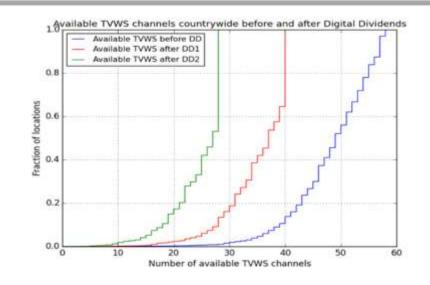


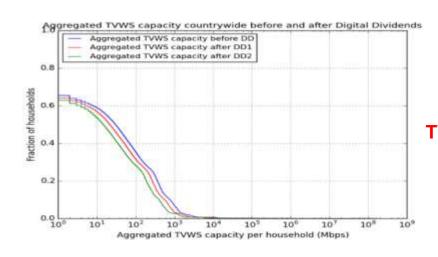


# Motivation (4/4) – Efficient Spectrum Utilisation is a Key









**TVWS** channels availability - Tshwane.

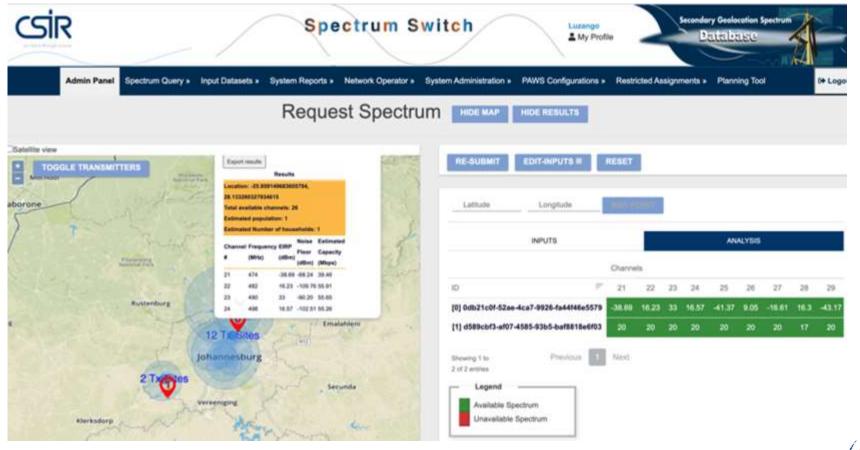


### Background (1/4) - RD&I Roadmap towards TVWS





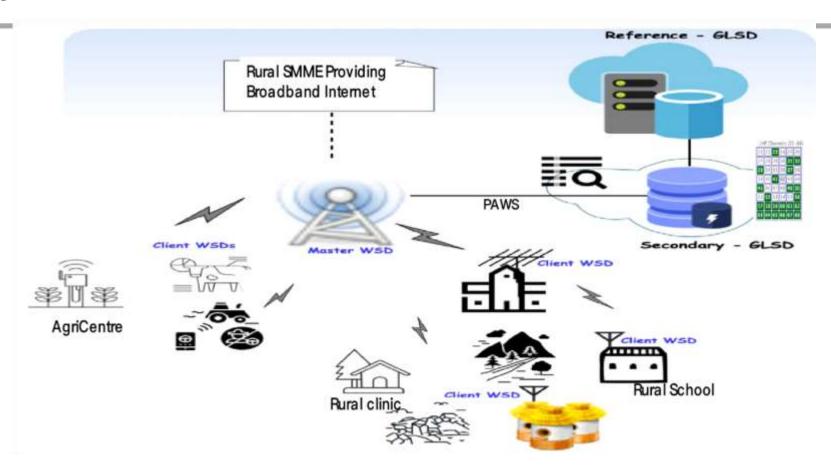
## Background (2/4) – CSIR Technologies for Harnessing TVWS





## Background (3/4) - TVWS Broadband Network Ecosystem

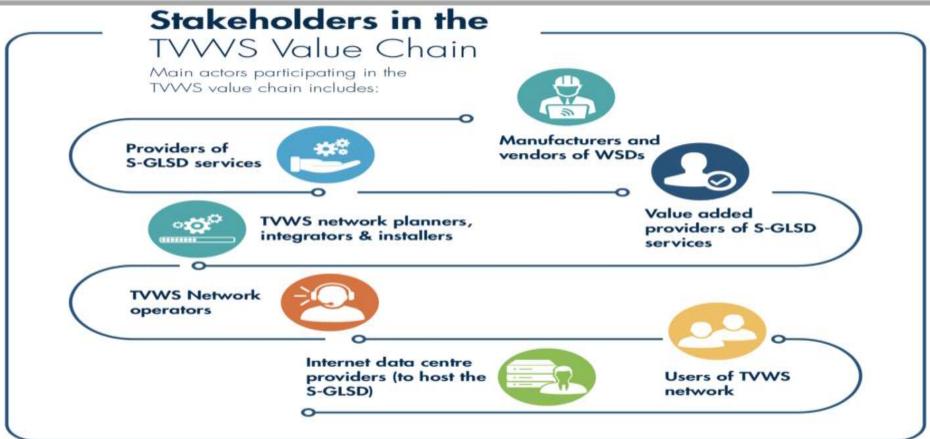






## Background (4/4) - TVWS Industry Value Chain





The TVWS industry is still at an infancy stage dominated by SMME actors.



# Programme to Support Rural Digital Entrepreneurial Champions (Rural TVWS Network Operators)

To support the bridging of the digital divide initiatives through provision of affordable broadband services in unserved and underserved rural and township communities

To support digital literacy initiatives among communities to improve the uptake of digital services and applications

To create job opportunities for youths, women and persons with disability

To ensure SMMEs business sustainability



## Beneficiary Entrepreneurs, Status & Impact – Phase 1

CSIR Supporting ICT-based SMMEs in Collaboration with the UNDP x FCDO x SEACOM.

#### SMME's Location



#### SMME's Profile

#### Mdantsane Mobile - East London, EC

Youth Owned
Status - Operational
6 x Public Facilities Connected
10 x Local Businesses Connected
281 x Households Connected
10 x Jobs Opportunities Created
35 x Wi-Fi hotspots Connected

#### Black Equations - Ocean View, WC

Woman Owned
Status -Operational
1 x Public Facilities Connected
2 x Local Businesses Connected
14 x Households Connected
12 x Jobs Opportunities Created
14 x Wi-Fi hotspots Connected

#### AdNotes - Port Shepstone, KZN

Youth Owned Status - Operational 26 x Public Facilities Connected 43 x Local Businesses Connected 164 x Households Connected 15 x Jobs Opportunities Created 40 x Wi-Fi hotspots Connected

#### Kathabo Tech - Botshabelo, FS

Woman Owned
Status – Under constructions
4 x Public Facilities Connected
1 x Local Businesses Connected
11 x Households Connected
6 x Jobs Opportunities Created
11 x Wi-Fi hotspots Connected



## Rural Digital Entrepreneurial Champions success Stories (1/4) – AdNotes

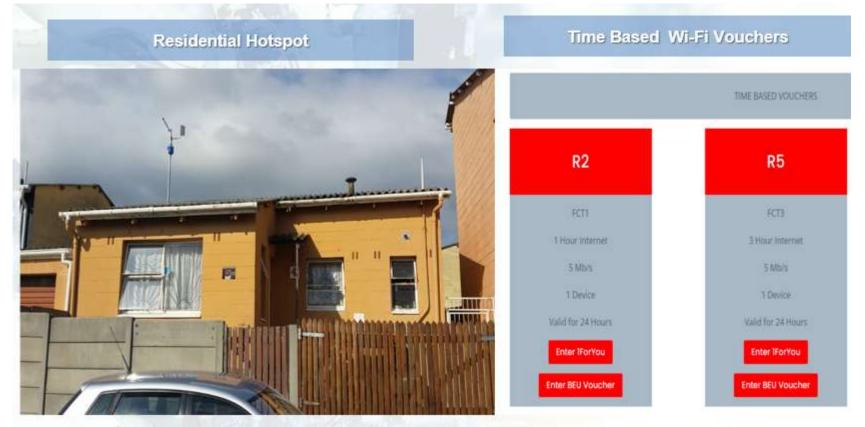






## Rural Digital Entrepreneurial Champions Success Stories (2/4) – Black Equations







## Rural Digital Entrepreneurial Champions Success Stories (3/4) – Kathabo Tech







Visit to School Principals' Office







# Rural Digital Entrepreneurial Champions Success Stories (4/4) – Mdantsane Mobile







### Word of Appreciation to our Partners and Stakeholders



- 1. UNDP
- 2. FCDO
- 3. ICASA
- 4. SEACOM
- 5. MKI
- 6. TIA
- 7. DSI
- 8. DCDT
- 9. Office of premier, KwaZulu Natal
- 10. BIFT
- 11. PBICT
- 12. WAPA
- 13. Old Mutual Foundation
- 14. Wits Business School
- 15. OEMs
- 16. RNM
- 17. Smart Xchange



