

VIRTUAL CARE | REMOTE COMMUNITIES

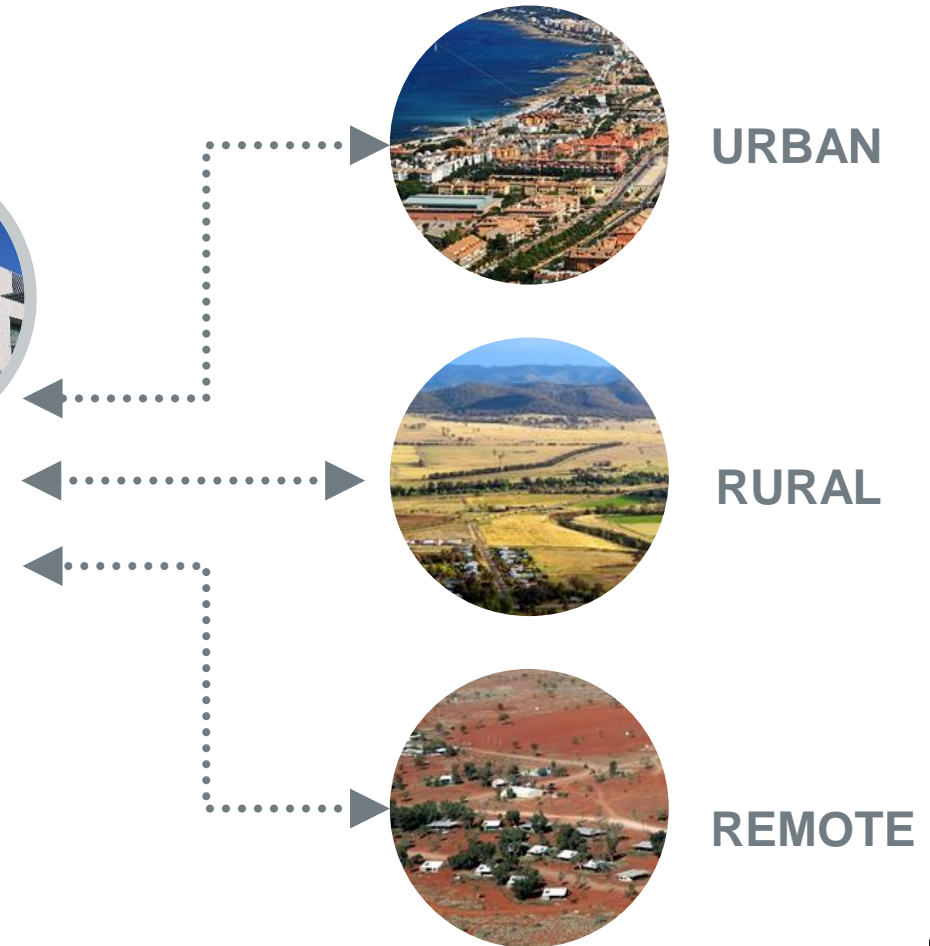


CONNECTIVITY

The backbone of telemedicine



THE BENEFITS



CONNECTIVITY

The backbone of telemedicine



URBAN



RURAL



REMOTE

THE FIX



Balconi
Smart-Torch
GLOBAL LIVE



GLOBAL TELEHEALTH OFFICE



CON MICHAEL
Project Lead, Balconi
FIEAust CPEng

AWARDS



MOST INNOVATIVE ENGINEERS 2017
Con Michael
The Balconi Smart Torch



WHAT

Problems did it solve?

WHAT

Problems did it solve?

PROBLEM

Limited coverage

Low reliability

Low video quality

SOLUTION

Now global

High reliability

High video quality

WHY

It started?

THE APPROACH



THE PROBLEM



Responsibility
2,525,500
square kilometres

100
Ambulances
not working



THE PROBLEM



Each regional ambulance
has 2 crew members.

1. The Driver &
2. The First Aid Officer
(Not a Paramedic)

**Every Metro
Ambulance has
Paramedics**

Skill level too low
and lives are lost

THE CLIENT'S SOLUTION



Same level of care as people in the city



A VIRTUAL PARAMEDIC in every
ambulance Statewide



GRANT LEDGER

Fleet Manager, St John Ambulance
Western Australia

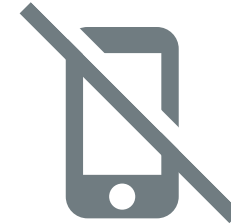


VIRTUAL PARAMEDIC



SEE WHAT IS HAPPENING

Situation awareness



VOICE IS NOT ENOUGH

Describing a scene by phone is
time-wasting and life threatening

THE CLIENT'S SOLUTION

Two-way Video-conferencing with the State Ops Centre (SOC)



REDUCE THE ESCALATION



Medivac Chopper



ED



RFDS Fixed Wing

BETTER MANAGE THAT DECISION

THE APPROACH

United Nations



Department of Safety and
Security (UNDSS)

Assists the most

REMOTE AND DISADVANTAGED

communities GLOBALLY

THE CLIENT'S SOLUTION

Two-way Video-conferencing with the Network Ops Centre (NOC)



“

The First Responders Kit

”

We have never had this ability



SCOTT URBACH
Global Program Manager
ETB / IFAK



SCOTT URBACH
Global Program Manager
ETB / IFAK



DUE DILIGENCE



Skype

Facetime

Messenger

Duo

Imo

Just Talk

Viber

Tango

WhatsApp

Zoom

Alexa

MOBILE NETWORK



Signal Strength:
Excellent

> -50 dBm



Signal Strength:
Good

-50 to -60 dBm



Signal Strength:
Fair

-60 to -70 dBm



Signal Strength:
Poor

< -70 dBm

**Reliable streaming even with
poor signal strength**

SATELITE NETWORK



Reliable streaming
even with smallest Terminals

Quality Video
at small Bandwidths



GLOBAL TELEHEALTH OFFICE



IN FIELD GLOBAL TELEMEDICINE OFFICE

Emergency Trauma

Remote Consultations

Remote Nursing Station

First responder

General or Mental Health

Connecting to Hospital

FIRST RESPONDER



REMOTE CONSULTATION OR NURSING STATION

ONE TO ONE CONSULTATION



Registered Psychologist



Major Regional Centre



Capital City

ONE TO ONE CONSULTATION



Remote Patients



Remote Community

ONE TO ONE CONSULTATION

MAJOR REGIONAL CENTRE
OR CAPITAL CITY



What the
psychologist
sees



REMOTE
COMMUNITY



What the
patient
sees



EXTENDS THE REACH AND BENEFITS OF TELEHEALTH



To the most remote and disadvantage



THE JOURNEY



R & D COLLABORATION



Australian Government
Department of Industry,
Innovation and Science



The Hon Ken Wyatt AM, MP
Minister for Aged Care
Minister for Indigenous Health
Member for Hasluck



Australian Government
Department of Health

COBHAM



United Nations



Department of Safety and
Security (UNDSS)



Australian Government
Department of Foreign Affairs and Trade



Digital
Barriers



Royal Perth
Hospital



SAMSUNG



Government of Western Australia
WA Country Health Service



Government of Western Australia
Department of Jobs, Tourism, Science and Innovation



Royal Flying
Doctor Service



2018



**Complete the Android
change-over**

2Q 2018



**Testing remote
monitoring hardware**

3Q 2018



**Testing specialists
equipment (Eye, Ear +)**

3Q 2018



Field trials

3/4Q 2018

2018

Field trials



St John Ambulance

Commenced



United Nations

3Q 2018



WA Country Health Service

3Q 2018



Federal Department of Health

3/4Q 2018

WE ARE NOT THERE YET





REACH OUT

Your input would be welcomed



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