Public Submission Cover Sheet

Please complete this sheet and submit with any attachments to the Sustainable Health Review Secretariat

Your Personal Details	
This information will be used only for contacting you in relation to this submission	
Title	Mr X☐ Miss ☐ Mrs ☐ Ms ☐ Dr ☐ Other ☐
Organisation	Balconi Telecommunications
First Name(s)	Con
Surname	Michael
Contact Details	███████████████████████████

Publication of Submissions
Please note all Public Submissions will be published unless otherwise selected below
☐   I do not want my submission published
☐   I would like my submission to be published but remain anonymous

Submission Guidance

You are encouraged to address the following question:

In the context of the Sustainable Health Review Terms of Reference listed below, what is needed to develop a more sustainable, patient centred health system in WA?

- Leveraging existing investment in Primary, Secondary and Tertiary healthcare, as well as new initiatives to improve patient centred service delivery, pathways and transition;

- The mix of services provided across the system, including gaps in service provision, sub-acute, step-down, community and other out-of-hospital services across WA to deliver care in the most appropriate setting and to maximise health outcomes and value to the public;

- Ways to encourage and drive digital innovation, the use of new technology, research and data to support patient centred care and improved performance;

- Opportunities to drive partnerships across sectors and all levels of government to reduce duplication and to deliver integrated and coordinated care;

- Ways to drive improvements in safety and quality for patients, value and financial sustainability, including cost drivers, allocative and technical efficiencies;

- The key enablers of new efficiencies and change, including, research, productivity, teaching and training, culture, leadership development, procurement and improved performance monitoring;

- Any further opportunities concerning patient centred service delivery and the sustainability of the WA health system.

Submissions Response Field

Please type your response into the field below. Alternatively you may provide your submissions as a separate attachment (Suggested Maximum 5 pages).

Please see attached documents.

Introduction
You can have a new tool that was designed primarily to increase the level of healthcare in remote emergency first responders. When voice was not enough and describing a situation by phone is time wasting and life threatening.
It is called the **Balconi Smart Torch – Global Live**.

As well as First Responders, it has wider applications to assist regional, rural and remote communities. It connects with live video, internet connection and smartphone connection simultaneously.
It can reduce ED attendances and hospital admissions.

Balconi Smart Torch – Global Live
In-Field Communications System
Smallest   Carry-on Luggage size, Ultra-Portable
Affordable   Fraction of the cost of similar systems
Connects   Live 2 way video, internet and smartphone
Global Coverage   Anywhere to Anywhere
Gives Healthcare professionals eyes on the ground.

Why was it Created
The Smart Torch was initially developed in response to an approach by **St John Ambulance WA.**

Specifically, they required a "virtual paramedic" in every country ambulance and the Smart Torch gives them that capability.

A Smart Torch can be carried in all country and remote area ambulances and this provides St John Ambulance with the opportunity to provide disadvantaged and remote patients the same level of healthcare as with metropolitan-based services.

The remote ambulance crew is connected to a Central Operations Area in Perth, via a live two-way video feed.

The Interest
The Smart Torch is so innovative that the **United Nations Emergency Trauma Group** Global Program Manager has approached Balconi to field test the Smart Torch in Nairobi this year.
Médicins Sans Frontiers R&D division based in Japan have given the Smart Torch the go ahead to field test the system.
Royal Flying Doctor Service WA is involved in discussions for the Smart Torch integration.

How is it Different

It works at very low bandwidths giving access to:

- Low cost Capital and Operational Costs
- Global Coverage
- Small Ultra-Portablecarry-on luggage size
- Low Power   can run off a small Solar Panel

Who says it's so good

The Australian Government and the Australian Information Industry Association (AIIA)

2017   Innovation of the Year

The AIIA

2017   National Winner for the Community Services Award

2017   National Merit Recipient for Mobility Innovation of the Year

Engineers Australia

2017   Recognised as one of the Most Innovative Engineer's in Australia Con Michael for the Smart Torch.

WA Information Technology and Telecommunications Alliance

2017   Most impactful Social Benefit

2017   Most Innovative Collaborative Technology

Operational Scenario

A team from the ETG (Emergency Trauma Group) of the UNDSS are deployed in Nairobi to attend an incident. The group are First Aid Officers. On arrival the team realise they are out of their depth in a life threatening situation.

They deploy the Smart Torch.

Which connects them to a Paramedic at the Operation Centre in New York.

The Paramedic realises he needs help from a UN Cardiovascular Surgeon in London and a UN Orthopaedic Surgeon in Paris.

Both Surgeons have an App on their Smartphone which connects them both to the First Aid Officers at the scene in Nairobi. All parties can see and talk to each other.

With this much higher degree of expertise the situation is assessed quicker and the appropriate patent stabilisation action can be taken.

At any time, the Paramedic and the surgeons can download an HD jpg image if required.

At the same time, the remote ETG team can connect their all their devices to the internet and use an App on their smartphone to make a phone call anywhere in the world.

See attached brochure

Balconi First Responder Kit
Carry-On Global Emergency Communications

Featuring

Balconi Smart-Torch GLOBAL LIVE ®

LOW COST - QUICK DEPLOY - GLOBAL OFFICE
CARRY ON LUGGAGE WITH TWO WAY VIDEO CONFERENCING

The Balconi First Responders Kit features the newly developed (patented technology) Balconi Smart Torch which provides a small but powerful handheld Two-Way Video Conferencing to enhance remote crews skills from any remote location globally to a Central Operation Centre(s) or a SmartPhone(s). All self contained in an commercial aircraft approved Carry-On Pelican 1525 Case. Global Connectivity using the Inmarsat BGAN Explorer 510 (3G, 4G or LTE if available)

BALCONI SMART TORCH FEATURES

- Vision quality from **Balconi Enhanced 128Kbps** to HD images

- 128Kbps Satellite Video Conferencing allows:
    - Lowest Cost Hardware
    - Lowest Cost Airtime
    - Lowest Power   Powered by a small Solar Panel
    - Smallest Size   Carry-on Luggage

- **Balconi Snapshot HD** sends a HD picture by email or FTP

- Assist First Responders with Patient Assessment:
    - Body movement
    - Organ identification
    - Eliminates time wasting when describing by voice

- Increase the Duty of Care for First Responders:
    - Manage Post Traumatic Stress
    - Minimise Vicarious Traumatization

MULTI-AWARD WINNING DESIGN

2017 iAWARDS National Winner Community Services Markets

2017 iAWARDS National Winner Innovation of the Year

2017 iAWARDS National Merit Recipient Mobility Innovation of the Year

THE INCITE AWARDS
26th WAITTA INCITE AWARDS 2016-17
Most Innovative Collaborative Technology Award
National iAwards Finalist
Awarded to:
Balconi Telecommunications
for
Balconi Smart Torch - Global Live

THE INCITE AWARDS
26th WAITTA INCITE AWARDS 2016-17
Most Impactful Social Benefit Award
National iAwards Finalist
Awarded to:
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SMART TORCH DESIGNER RECOGNITION

AUSTRALIA'S MOST INNOVATIVE ENGINEERS

ENGINEERS AUSTRALIA certifies that Con Michael is included in create magazine's list of Australia's Most Innovative Engineers 2017 for the innovation The Balconi Smart Torch
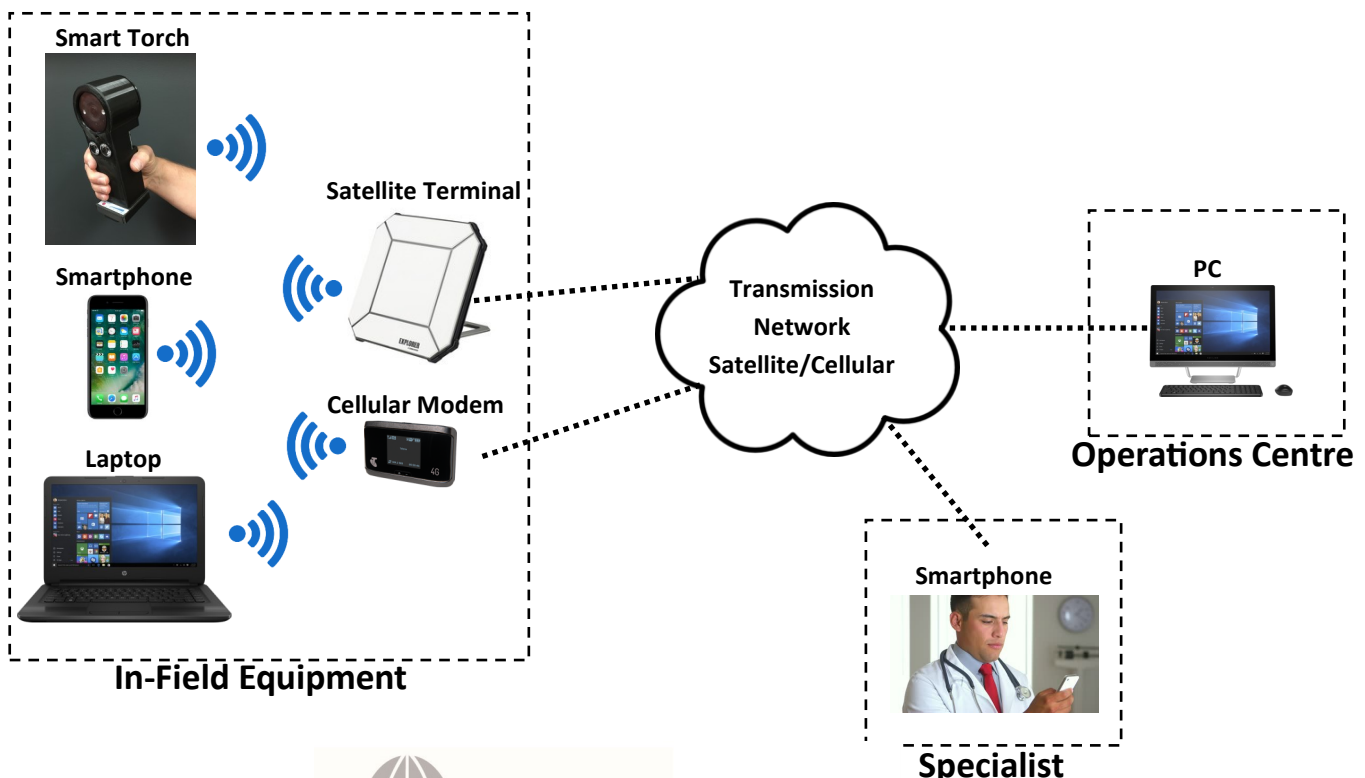
Innovative Smart Torch Designer, Con Michael, has been recognised as one of Australia's Most Innovative Engineers in 2017 for his work on the Smart Torch.

Available Early 2018

The Balconi Kit includes

- Cobham Explorer 510 Satellite Terminal
- Balconi Smart Torch
- 3G/4G/LTE Modem option
- Headset
- Tripod and Tripod Mount
- 40W Solar Panel
- Car Power Adaptor
- 100-240 AC/DC Power Supplies (Intl. Plugs)
- Cables and Other Adaptors
- Pelican Air 1525 Carry On Case
- Set Up Guide, Quick Start Guide, Manuals
- Multiple Airtime Plans

Technical Features

- Two way Video Conferencing
- **Balconi Enhanced 128Kbps** vision
- **Balconi Snapshot** captures HD pictures
- Smartphone SIP calls
- Internet connectivity
- Handsfree or Headset operation
- Handheld or tripod mounted
- Network connectivity, Satellite or 3G, 4G, LTE
- Wireless operation
- Smartphone vision monitoring, two way
- Long life, 3 hour, rechargeable batteries
- High Output LEDs for nightime operation
- IP67 rating, rainproof
- **Inmarsat Global Network Security and Reliability**

Smart Torch

Smartphone

Laptop

Satellite Terminal

Cellular Modem

In-Field Equipment

Transmission Network Satellite/Cellular

PC

Operations Centre

Smartphone

Specialist

Balconi Smart-Torch **GLOBAL LIVE**

®

Balconi Kit configuration and specifications can change without notice

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