

## Konnekt Videophone

Face-to-Face Contact for the Socially Isolated Elderly or Disabled: Breakthrough Technologies and Case Study Insights ATSA 2018

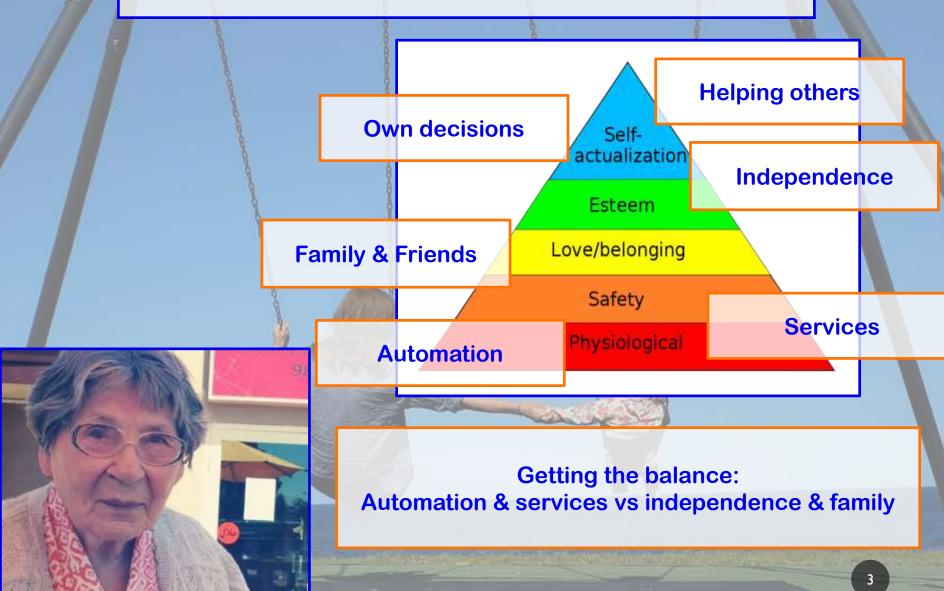


#### What you'll get from this talk

WHY is face-to-face critical for mental health?WHICH technologies work. Which don't.WHEN to recommend each.HOW to make them work brilliantly.WHAT to avoid, at all costs.



#### Mental health is important



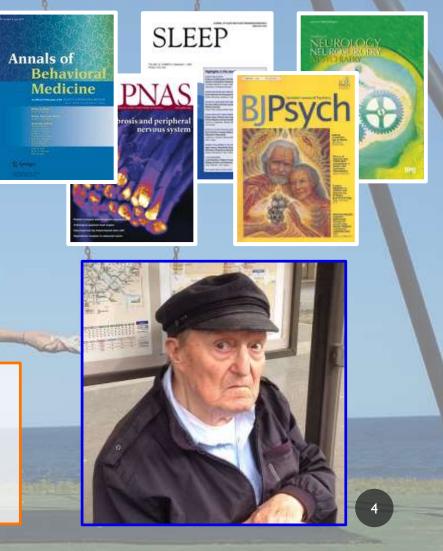
## Social isolation is deadly

# **Studies link social isolation and loneliness with:**

- 1. Blood press. (14mm 4yrs)
- 2. Fragmented sleep (99%)
- 3. Dementia (2,173 3yrs)
- 4. Depression (14 studies)
- 5. Mortality (8yrs 22% 12%)

"As a health risk, social isolation is worse than cigarettes and physical inactivity" (308,849 7.5yrs, 50%)

- PLoS Medicine, 2010





## Face-to-face contact is key

Studied 11,000 older adults Face-to-face 3 times/week Half depression incidence Derived gains endured 7 yrs Key take-aways:

- Family / friends (not workers or volunteers)
- Phone conversations & written contact: No effect
- Risk for those at home / in a facility / shared housing





#### Dr. Alan Teo, Leading mental health researcher, and

OHSU Professor Dept. of Psychiatry & School of Public Health

## Is video calling the answer?

# 82% would try video communication

- Gerontology, 2011





Asked about video calling: *"Regular face-to-face social interactions are likely a great way to help prevent depression."* 

– Prof Teo, 2017

## Video calling changes lives





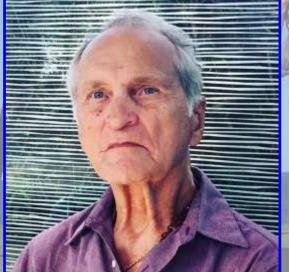
June has difficulty with her hands. Now, she SEES and talks to family and friends every day. Graham's wife passed away. His hearing is impaired. He was unable to use a phone. Video calling changed his life!

Sons/daughters and carers are less worried



#### Visual signs of wellness, healthy habits



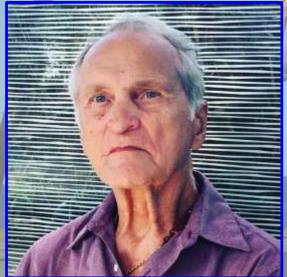


#### Eyes wide open? Getting enough sleep

#### Hair brushed? Self-care and self-esteem

#### Visual signs of wellness, healthy habits





Eyes wide open? Getting enough sleep Animated expression, nodding? Brain health Flushed red cheeks? Over-heating is dangerous Facial hydration? Dehydration rapidly causes problems Shaky hands? Parkinson's check-up Trembling lips? Paranoia, anxiety Smiling mouth? Seems happy, not depressed Smiling eyes? REALLY HAPPY!

Hair brushed? Self-care and self-esteem Hair bouncy, not oily? Showering regularly Hair messy? Just got up? Regular sleep is vital Glasses on? Not misplaced or forgotten Clean face? Wash routine Make up / groomed? Self-esteem relates to mental health Fresh clothes? Good hygiene, healthy temperature Fingernails cut and clean? Healthy habits

## Video calling challenges



#### Seniors



#### Dementia





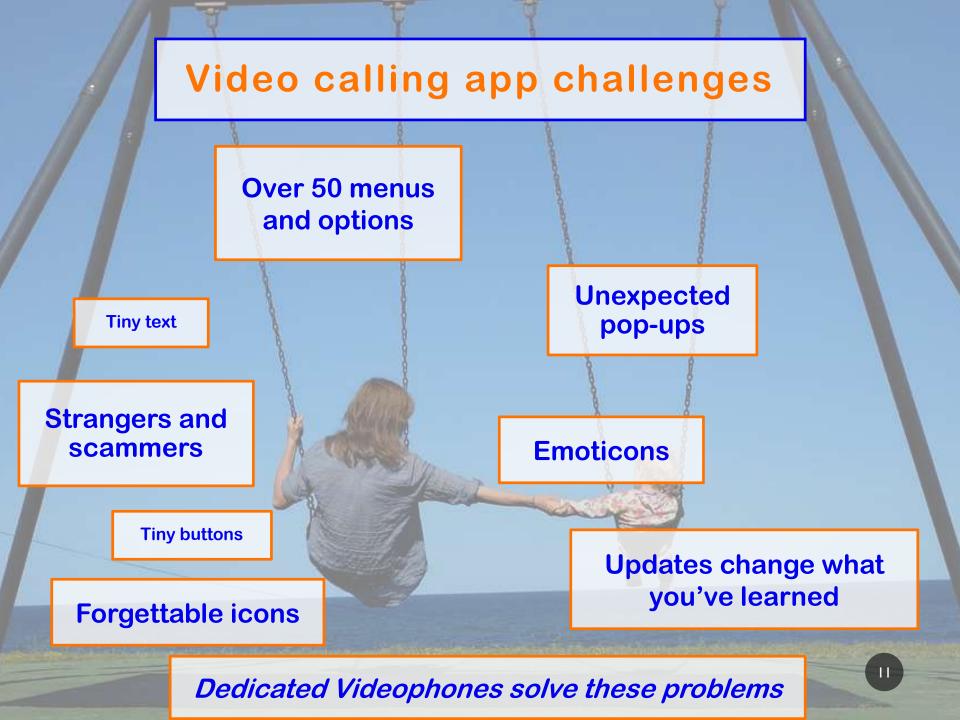
Arthritis



Aged Care



10

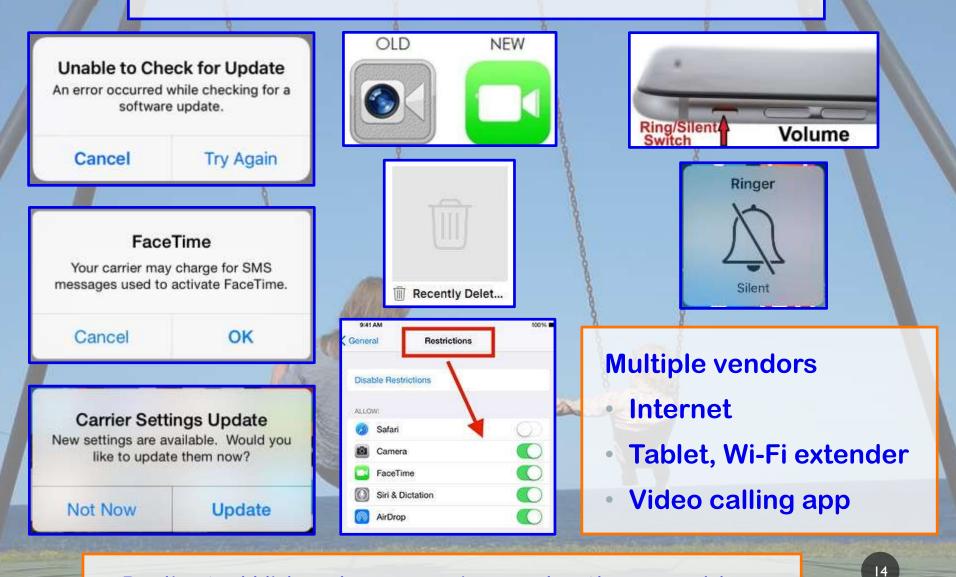




Dedicated Videophones solve these problems



## **Support** issues



Dedicated Videophone services solve these problems

#### Internet requirements for video calling

## Uplink speed: min. 0.7 Mbps For lip-reading: 1.5 Mbps



Choice of ISP DOES matter during peak times

ADSL – What's Annex M? Cable – SpeedBoost? NBN – Is 12/1 enough? Mobile – Surprisingly good

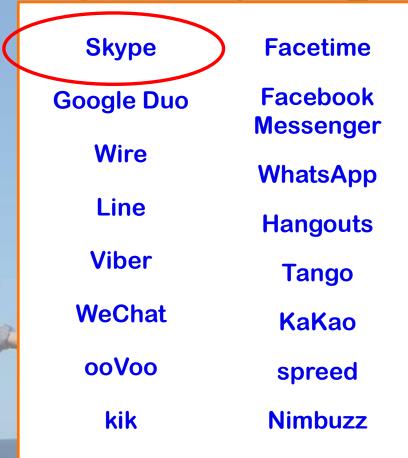
- Check coverage maps
- 5 GB \$20 pre-paid

Facility Wi-Fi – some are OK Many use a captive portal Some need login every 30 days! (Password memory?)

## Video calling app selection

#### **Choose for the user**

Ease of use? Android, Windows, iOS? Calls landlines (backup)? Firewall penetration? Reliability, quality? Copes with poor Internet? Vendor support, longevity?



## **Dedicated Videophones**





## **Selection Guide**

#### Mobile, laptop or tablet

#### **Tech-savvy**

Copes with pop-ups, settings, unwanted callers, operating system updates

Also wants apps, email, entertainment, texting, browsing, news, sport...

# 

**Flexible** 

#### **Customized tablet**

Somewhat tech-savvy

Good hearing, vision, dexterity

Google

0

exils

SENIOR

**Portable** 

Copes with small text, small speaker and charging. Remembers icons, menus, and good Wi-Fi "zone"

# Dedicated videophone

#### Not tech-savvy

Dementia, learning disability, brain injury, poor hearing / sight, shaky hands, physical impairment or bed/chairbound

#### No IT support handy



#### **Easy to Use**

19



## **Complementary products**

#### Web-cam



#### **Panic pendant**



Remote monitoring Intrusive, one-way Not a social tool Facilities don't permit

**??** % don't wear them?

In emergency, carers want a visual check

Video call auto-answer



#### See us on Table 20

## **Konnekt Videophone**



REGISTERED

PROVIDER





NDIS



aged care

22

#### www.konnekt.com.au