

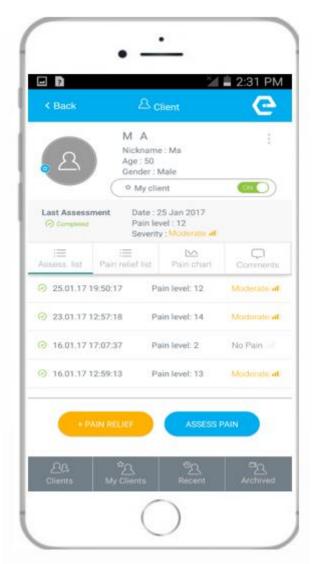
ePAT Technologies Ltd

Presentation
July 19th 2017

Highlights



- A digital healthcare company
- Mobile apps to assess and monitor pain
 - pain the most common reason to see a doctor
 - accurate pain assessment is a big problem
- Very large global market opportunities
- Multiple products and revenue channels
- Innovative technology with patent protection
- Commercialisation in Q4 2017
- Experienced board and management



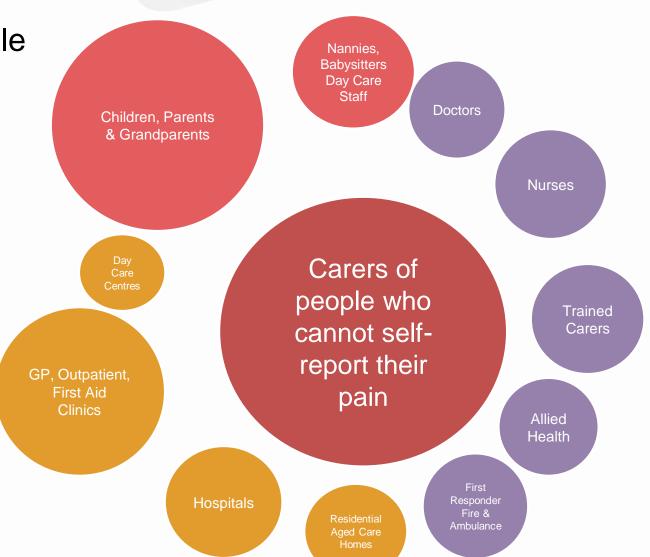
Our Target Markets



Carers of non-communicative people with pain:

- Dementia sufferers
- Pre-verbal children





Large initial market in dementia care epat



- Advanced dementia associated with inability to communicate pain
- Dementia care in residential aged care and home care

Carers of people with dementia

Healthcare Professionals **Trained Carers** Allied Health Family Members

47 Million with Dementia¹

growing at 3% p.a.

400,000+ people in Australia²



¹ World Alzheimer Report 2016

² Alzheimer's Australia Key Facts and Statistics 2017

Blue sky market is pre-verbal children



- Neonates (0-1 month), infants and toddlers (1 month 3 years)
- Sources of pain include: rashes, teething, middle ear infections, headaches, gastro-intestinal.
- Current pain assessments are often subjective and based on intuitions, assumptions and personal beliefs

Carers of pre-verbal children

Mums & Dads
Grandparents
Health care professionals
Nannies
Babysitters
Day care workers

~ 130 million¹
Births per year in world

~ 1.25 million² 0-3 year olds in Australia



¹ http://www.ecology.com/birth-death-rates

² ABS 2016

The pain problem in dementia care



- Up to 85% of people in aged care suffer pain regularly¹
- More than 50% of people in Australian aged care have dementia²
- Pain is often poorly assessed, documented, monitored and managed
- Tools are subjective and manually based
- Adverse impact on quality of care, operational efficiency and compliance



¹ Aged Care Awareness

² Australian Govt. Dept. of Health data at 30 June 2015

Current pain assessment tools lack objectivity and require specialist skills



Abbey Pain S	Scale - Fo	r measuremei	nt of pain	in patients	who canno	ot verbalise	Addressograpl
Name and desi	ignation of	person complet	ing the scal	e:			
Date:		Time:					
Q1. Vocalisation							Q1
eg. Whimperi Absent 0	ng, groanin Mild 1	ng, crying Moderate 2	Severe 3	!			
Q2. Facial Exp	ession						Q2
eg. Looking tense, frowning, grimacing, looking frightened							<u></u> /
Absent 0	Mild 1	Moderate 2	Severe 3	1			
Q3. Change in							Q3
eg. Fidgeting,	rocking, gu	arding part of b	ody, withd	rawn			
Absent 0	Mild 1	Moderate 2	Severe 3	}			
Q4. Behaviour	al Change						Q4
eg. Increased	confusion,	refusing to eat,	alteration	in usual patt	erns		
Absent 0	Mild 1	Moderate 2	Severe 3	1			\sqcup
Q5. Physiologi	cal change						0.5
eg. Temperati	ure, pulse c	or blood pressur	e outside n	ormal limits	, perspiring,	flushing or pallo	r Q5
Absent 0	Mild 1	Moderate 2	Severe :	3			
Q6. Physical ch	nanges						Q6
eg. Skin tears,	pressure a	reas, arthritis, o	ontracture	s, previous i	njuries		
Absent 0	Mild 1	Moderate 2	Severe :	3			
cores for 1-6 an	d record he	ere				Total Pain Score	
ick the box that	: matches tl	he	ſ	0-2	3-7	8-13	14+
Pain Score			\longrightarrow	No Pain	Mild	Moderate	Severe
	ا ما ما امار		-1-	, [Chronic	Acute	Acute on
y, tick the box w	inch mattr	nes the type of p	dili	-			Chronic

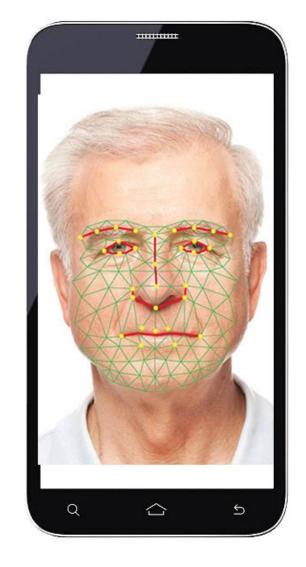
Facial expression analysis on the Abby Pain Scale requires the user to both detect and quantify facial expression indicative of pain: this is subjective and vulnerable to user bias.

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The ePAT solution



- A secure, validated, medical device in the form of a mobile app
- Uses existing smartphone and tablet hardware
- Artificial Intelligence (AI) technology to analyze facial expressions indicative of pain in real time



The ePAT Dementia App



• Automated facial pain analysis:

- 3 second video of patient face
- recognises 9 micro-facial expressions that indicate pain

Digital questionnaire checklist:

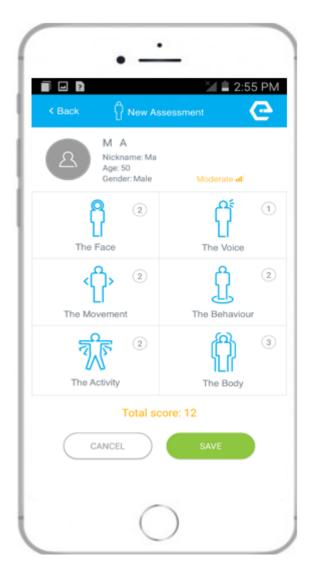
- guide the carer in other pain assessment factors e.g. movement, vocalization
- leading questions with Yes/No decisions

• Automated pain assessment score:

based on 42 test points

Documented electronically via cloud backend:

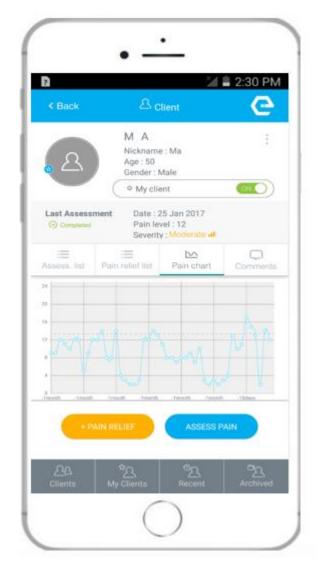
- pain trend line and monitoring of treatment
- integrated into patient medical records
- iOS beta App currently being tested



Dementia App key benefits

ePAT

- ✓ Automate key assessment processes, saving time and reducing the risk of error
- ✓ Empower caregivers to monitor and manage pain accurately without expert support
- ✓ Reduce patients' need to seek medical advice for pain, enabling better in-home care
- ✓ Improve health outcomes for people in pain and reduce operational cost for healthcare providers
- ✓ Document assessment for compliance and monitoring effectiveness of treatment



Our technology development partners



nViso

Licenses AI enabled facial recognition technology

Darwin Digital

 Designs and develops the Dementia App and backend system

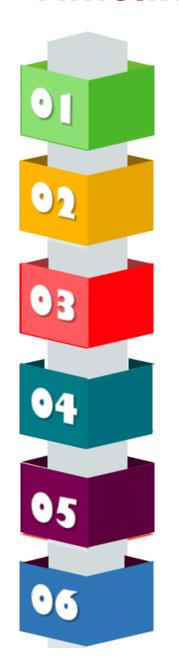
Curtin University

- Contracts services of ePAT founders:
 - Professor Jeff Hughes, Chief Scientific Officer, pharmacist
 - Mustafa Atee, Senior Clinical Research Scientist, pharmacist



Timeline to Commercialisation and Revenue





Dementia App

Q4 2016 Validation studies completed

Q3 2017 Implementation studies completed

Q3 2017
Target for regulatory approval in Australia and EU

Q4 2017
Target for commercialisation in Australia

Q1 2018
Target for FDA approval in the USA

Q2 2018
Target for commercialisation in Europe and USA

Pre-Verbal Children Apps

Q4 2017
Completion of children video library, data model and algorithm

Q1 2018

Development of App

Q2 2018
Clinical studies and validation

Q2 2018
Finalise App and build regulatory file for approvals

Q3 2018
Target for regulatory approval in Australia and EU

Q4 2018
Target for commercialisation in Australia and Europe



Dementia App: Validation Study

Location

 Bethanie, Brightwater and Juniper Aged Care Groups, WA

Findings

- 40 residents, 353 paired assessments
- Excellent performance
 - > 88% accuracy for detection of pain
- Excellent validity results



June 2017: Accepted for publication in Alzheimer's Disease Journal

Dementia App: TGA and CE Mark clearance – July 19th 2017

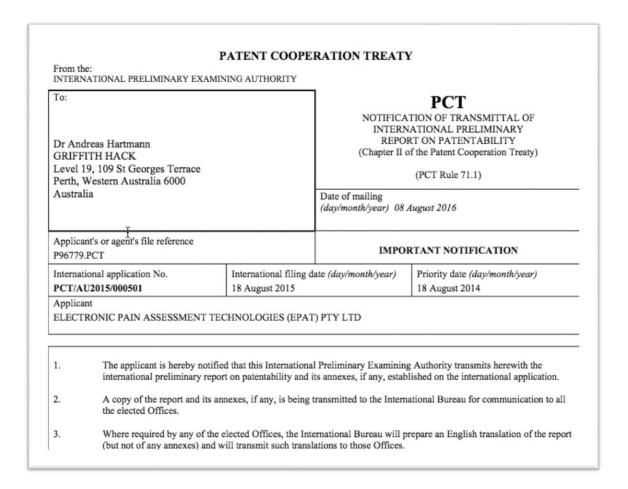


- ePAT App is now cleared for use as a Class 1 medical device in Australia (TGA) and CE Marked for European markets
- The ePAT App's intended use is "to assess and monitor pain in people who cannot verbalise such as people with dementia or communication difficulties"
- Regulatory clearance is key business milestone and requirement by our customer base
- Australia Commercialization of ePAT App remains on schedule for Q4 2017 and Europe during 2018.

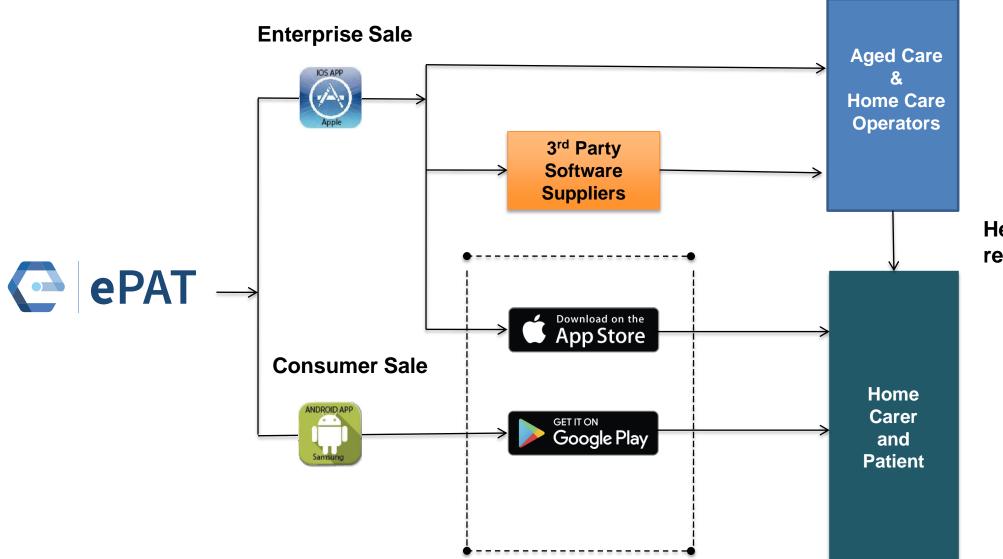
ePAT Patent Status



- Patent clearance for PCT filing received in August 2016
- National filings commenced Feb 2017 in all key global markets;
 - Europe
 - US
 - Australia
 - China
 - Japan



ePAT market entry strategy for dementia care



Healthcare Professional recommendation



Business Model

- Recurring revenues
- Software sold as a service
 - via software enterprise partners and direct to business
 - direct to consumers via App Store and Google Play
- Pricing not yet released

Experienced Board



- John Murray, Chair
 - 25 years in tech VC, multiple board roles including aged care



- Philip Daffas, MD
 - Senior global healthcare exec: Roche, Cochlear
- Ross Harricks, NED
 - Senior global medical device exec with Nucleus and healthcare NED



- Adam Davey, NED
 - Corporate finance exec and director Patersons **Securities**





Dementia App – Progress Summary



On schedule for commercial launch Q4 2017

- Beta version App now available
- Validation Studies accepted to Clinical publication in Alzheimer's Journal
- TGA and CE regulatory clearance completed ahead of schedule
- "ePAT in Practise" trials to commence with a leading Australian aged care operator specialising in dementia in Q3 2017
- Initial relationships established with two aged care software providers
- Business model being finalised





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