

AI & THE PATIENT EXPERIENCE

energesse



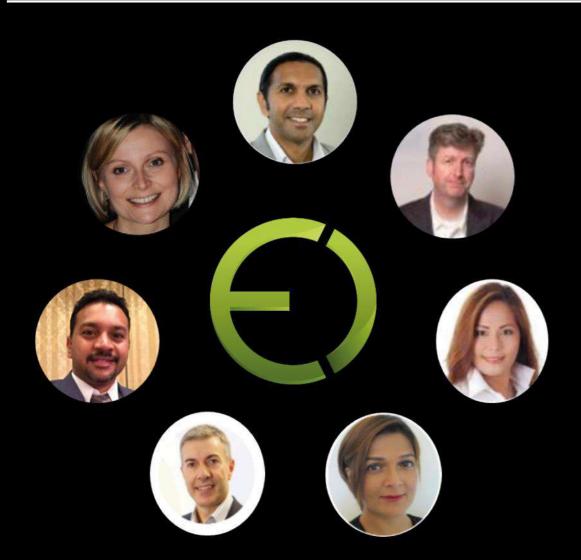




OUTLINE

- 1 The Al Dilemma
- 2 Patient experience in healthcare
- 3 PX improvement technologies
- 4 Al in Australian Use Cases
- 5 Future Al solution PXme
- 6 Trial opportunity

Leading Specialists In Patient Experience





Western Sydney LHD

South West Sydney LHD

























Energesse Experience

70

Health & Care Organisations

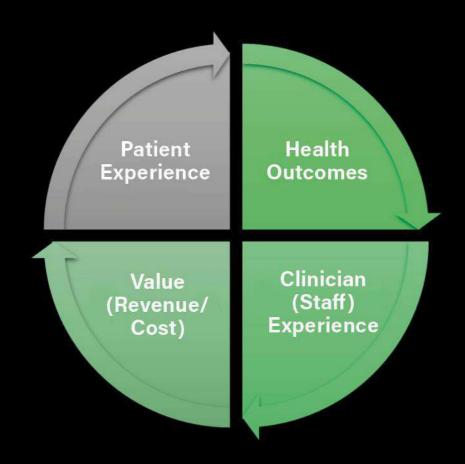
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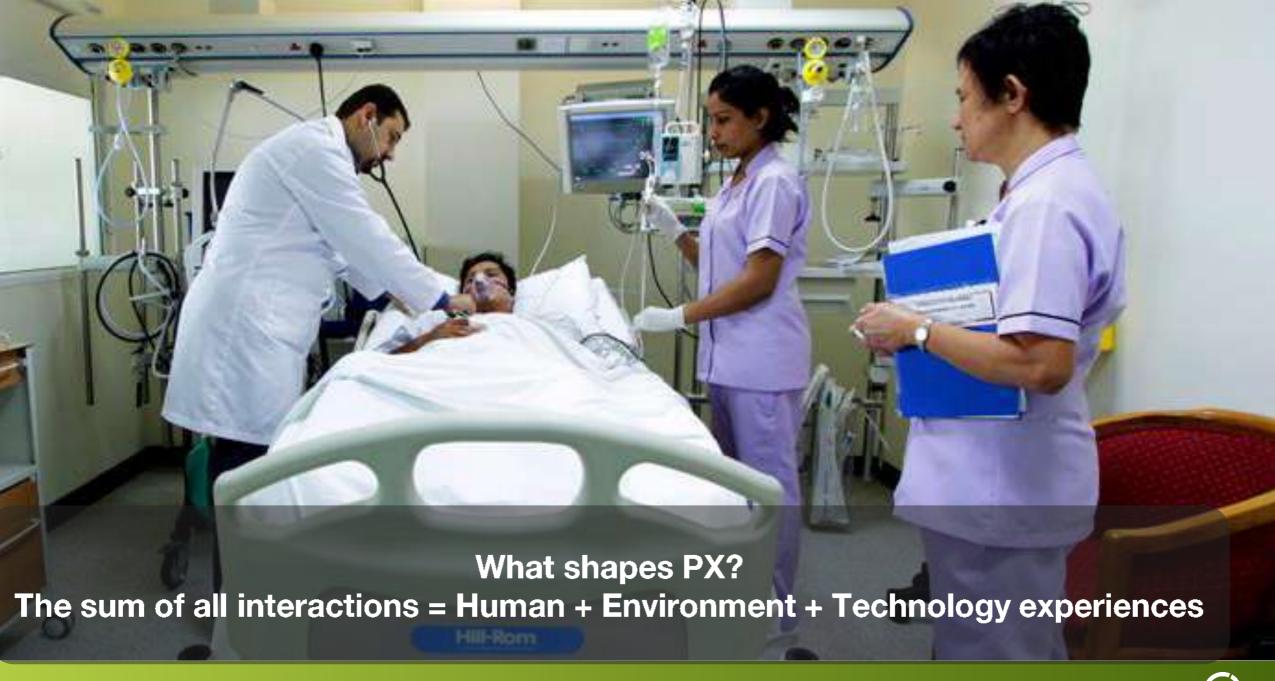
Countries

6

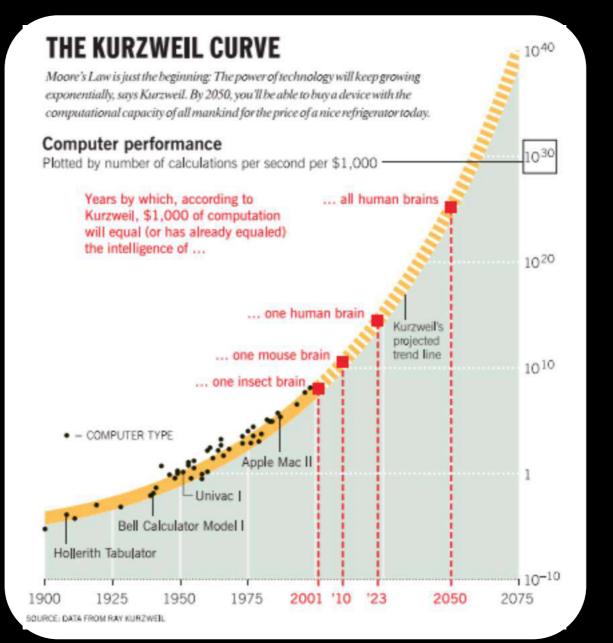
Million Lives Impacted

Healthcare Quadruple Aims

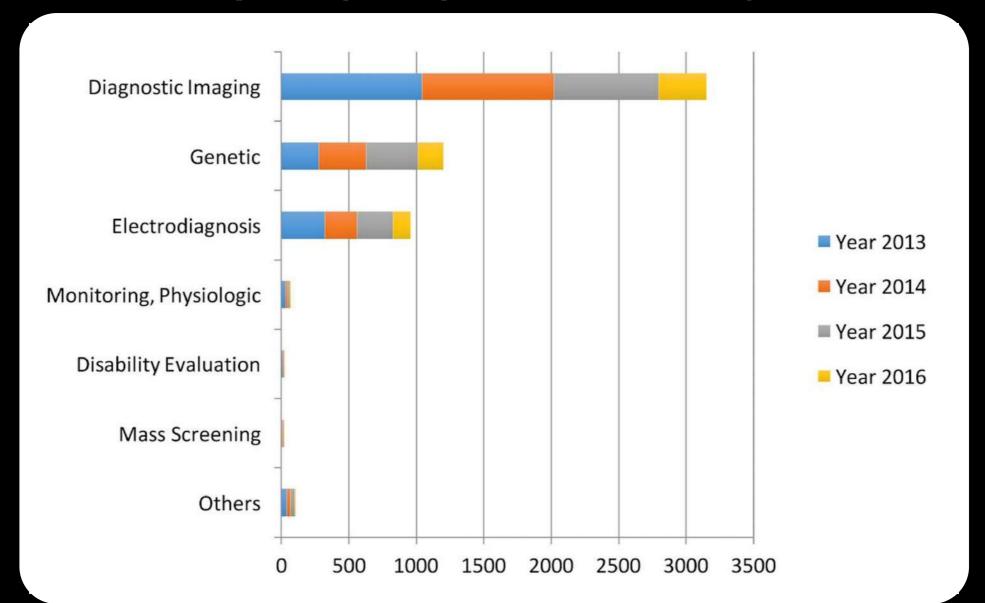








AI UTILISATION IN HEALTHCARE









THE PATIENT'S CHALLENGES

THE PATIENT'S CHALLENGES







WHAT DO HEALTH EXPERIENCES DO CONSUMERS WANT?



AI COMPANIONS



Falling in love with Al virtual assistants: a creepy love affair nearer than you think



WIRED







Nearly Half Of Us Can Imagine Falling In Love With Siri

Forty per cent of people say they can imagine going head over heels for their virtual assistant





Energesse expands patient experience program following positive feedback

Written by Kate McDonald on 22 March 2018.



Sydney-headquartered patient experience and analytics firm Energesse is rolling out its MES Experience real-time patient feedback program to hospitals in the South Western Sydney Local Health District following positive results from its first implementation at Western Sydney LHD.

Patient experience platforms are increasingly being used worldwide to provide real-time data to frontline staff and healthcare managers. Energesse has

customised (https://www.pulseitmagazine.com.au/news/australian-ehealth/2974-real-time-feedback-

Science Of Patient Experience Improvement



Experience: Capture, Measure

& Understand Experience

Emotions: Analyse human factors,

stories & expectations

Engagement: Engage front-line, leadership

& governance

Execution: Strategy and Solution

Implementation - service

recovery, quality improvements

and policies

Excellence: Accountability & Key

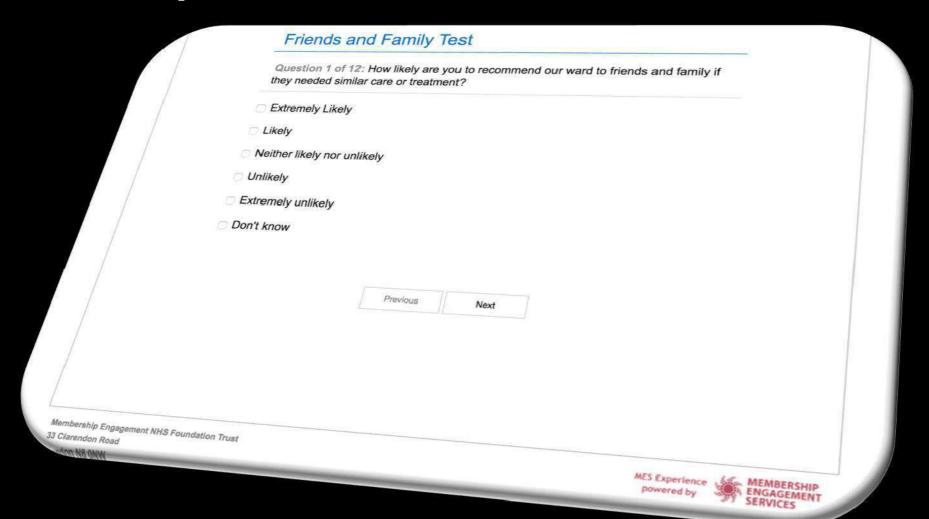
Performance Indicators

Evolution: Scale Maturity, Capability

& Sustainability



Al & Structured Datasets – Quantitative Patient Surveys



AI & Unstructured Datasets – Qualitative Patient Comments



Question 2 of 12: Please can you tell us the main reason for the answer that you have given to Question 1.

Please tick this box if you do not wish your comment to be made public.

"Nurse Sarah was pleasant but the doctor was very rushed and I did not understand his advice.

The exit door slams all night, I haven't been able to sleep for 5 days since my operation".

Maximum of 500 Characters

Previous

Next

Omni-Channel Approach



Online



Text Message (SMS)



Kiosk and Tablet



QR Code & NFC Chips



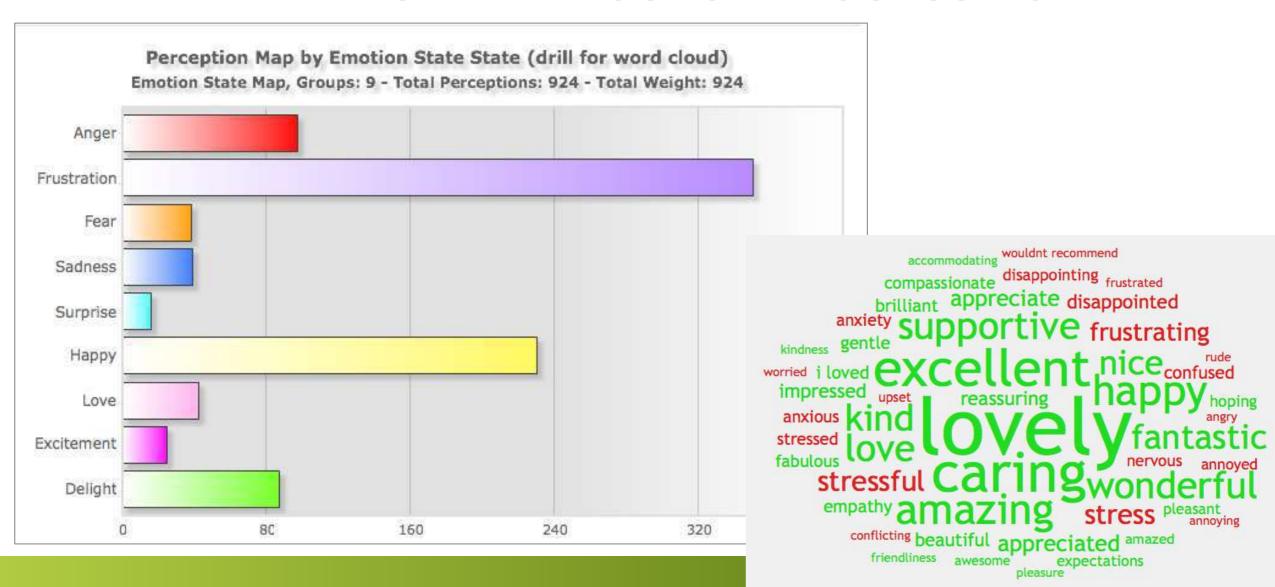
Email



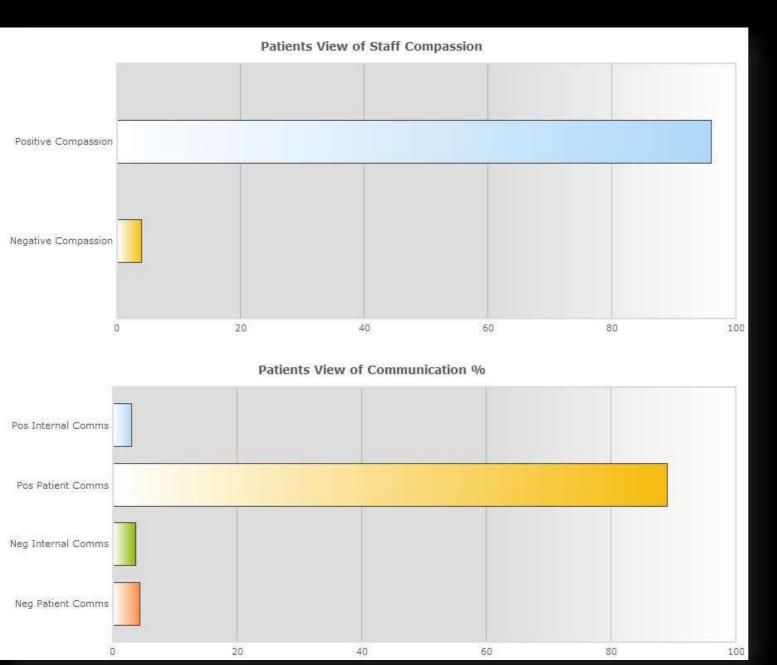
Postcards and Drop-boxes



FREE TEXT SENTIMENT ANALYSIS/ NATURAL LANGUAGE PROCESSING



MEASURE STAFF COMMUNICATION AND COMPASSION







"We've Got Your Back"

Chrissan Segaram & Katherine Maka

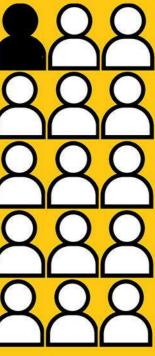




Project Goal

Improve ACCESS to care for adult patients with BACK PAIN referred to Westmead Hospital Neurosurgical Clinics through a COST EFFECTIVE PATIENT CENTRED service by August 2018.

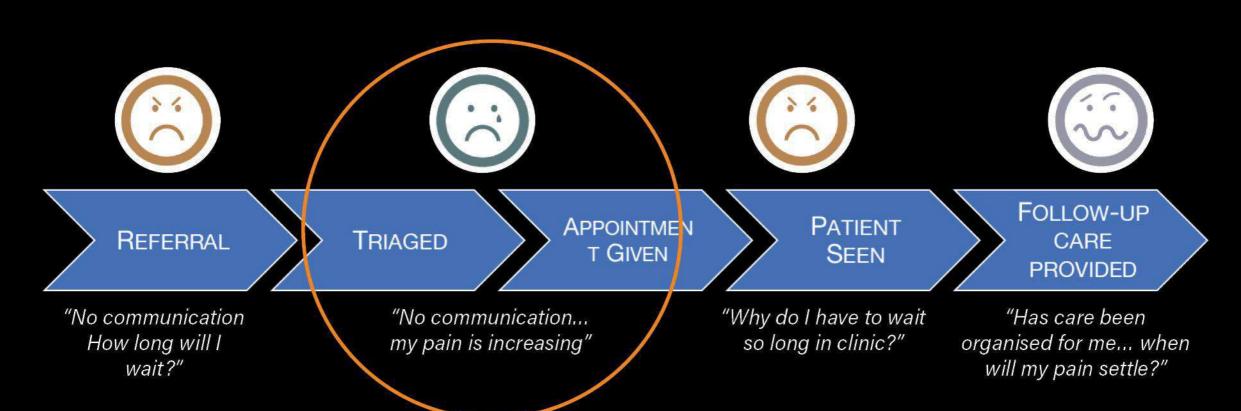




2020 1 in 15

Patient Experience - Current State

- 62 year old with LBP pain > 2 years
- Currently unable to work
- GP referred to Neurosurgical clinics at Westmead Hospital



Diagnostics Tools - My Experience Matters







Key Findings

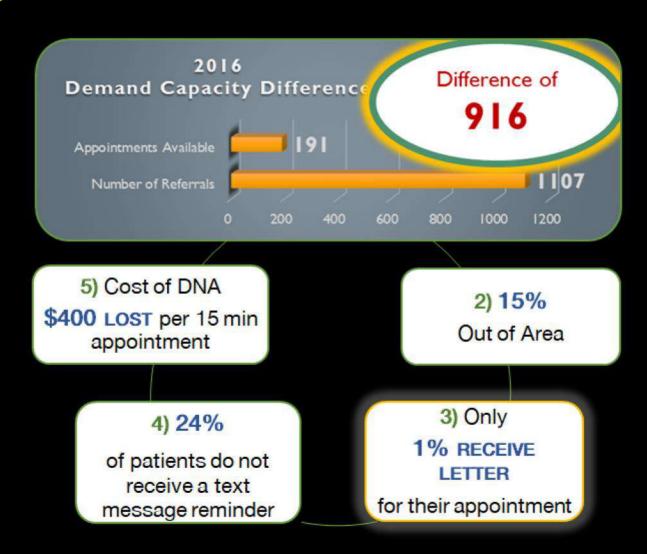
"I wait for ever...
No customer care...
No one really cares"

Patient Experience Heat Map

Number of Responses	Kindness & Respect	Involvement in Care	Clear Communication
Pre Implementation	76	60	68
Benchmark	85	85	85



Key Findings



"9 weeks to be advised... correspondence rude"



Physiotherapy Led Clinics

Re-Allocation of Administrative Staff for Bookings

Solutions

MDT Spinal Case Conference



PREMS Results - Heat Map

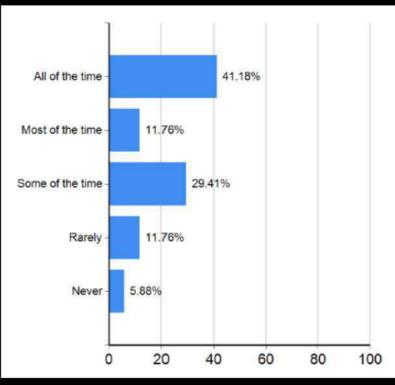
Post Implementation of Solutions Patient Experience Heat Map

	Kindness & Respect	Involvement in Care	Clear Communication
September 2017	76	60	68
Benchmark	85	85	85
April 2018	98	97	94
May 2018	87	87	100
June 2018	97	97	97

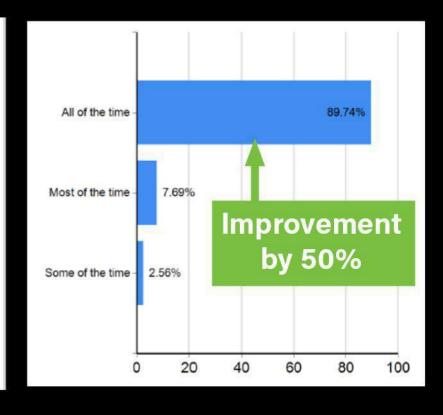
PREMS Results

Questions 5:
Did staff
explain things
in a way
you could
understand?





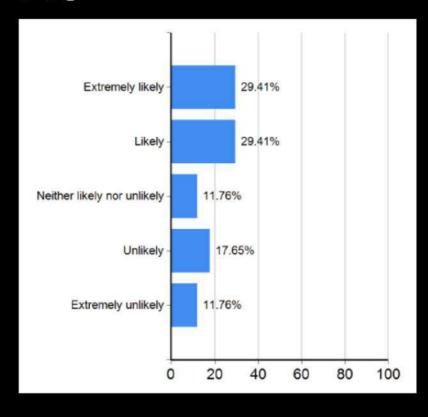
Post



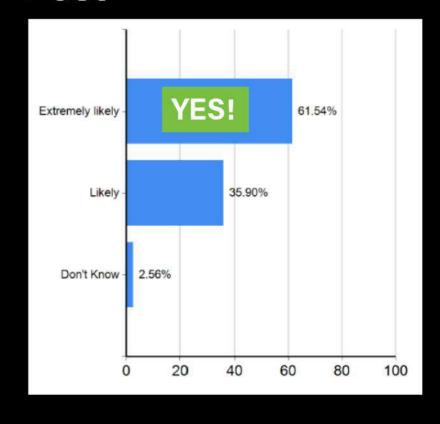
PREMS Results

Questions 7:
How likely
are you to
recommend
the service?

Pre



Post

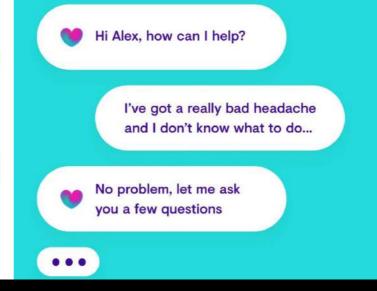




Hello, how can I help you?

Type something...

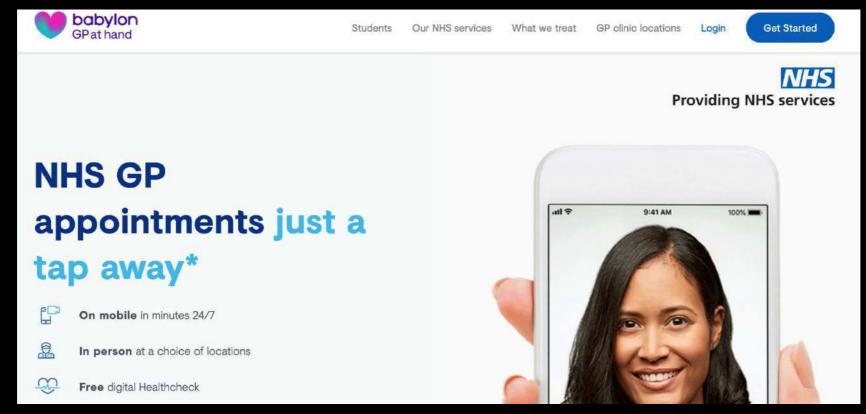
Ask Babylon



Babylon's interactive symptom checker asks you questions to analyse your condition

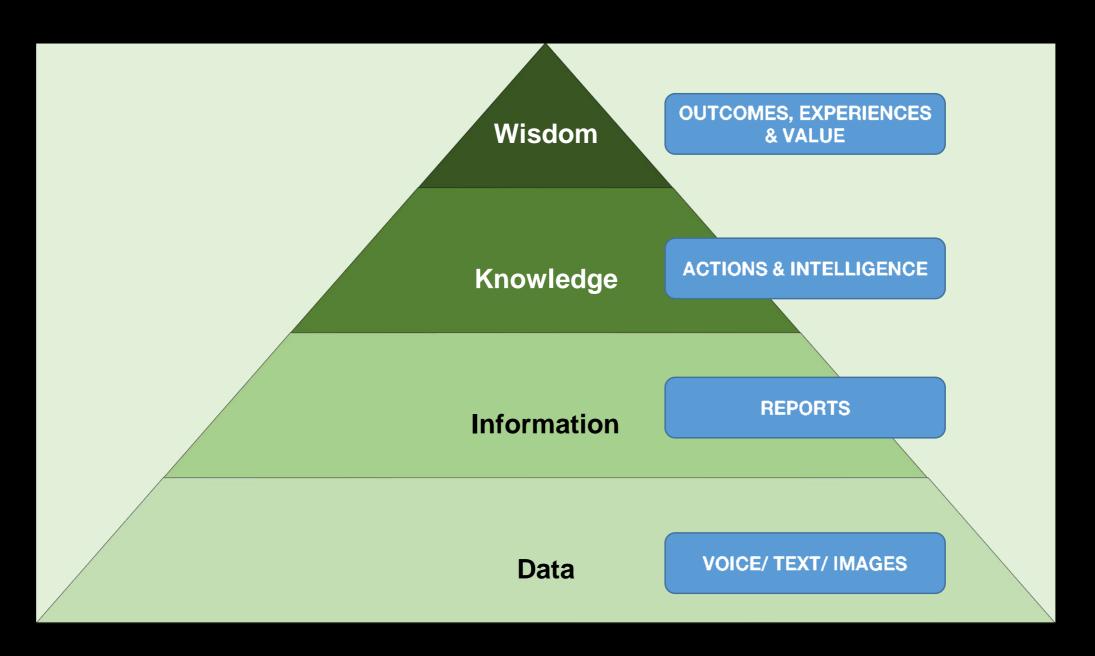
Babylon's AI system has been created by experienced doctors and scientists using the latest advances in deep-learning. Much more than a searchable database, it assesses known symptoms and risk factors to provide informed, up-to-date medical information.

Ask Babylon

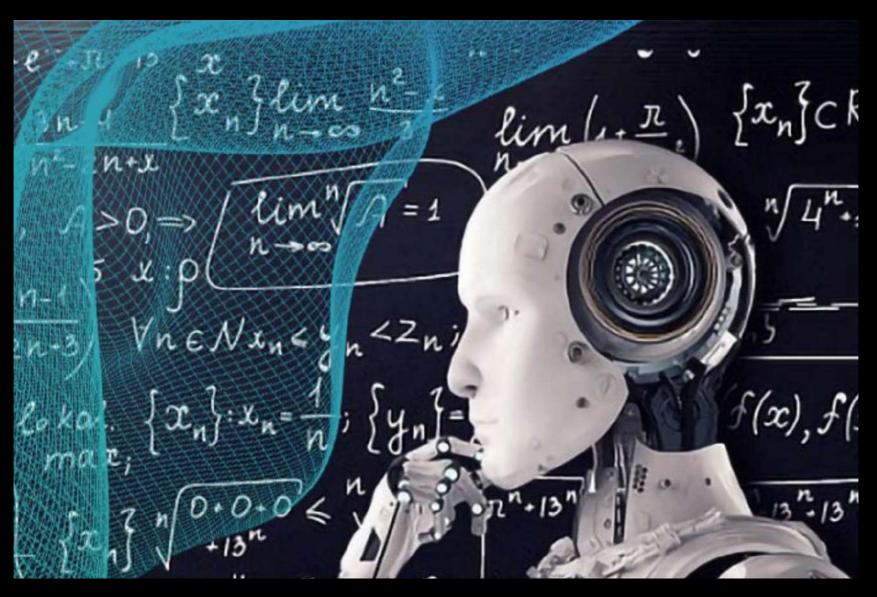




TRANSLATE AI DATA TO IMPROVEMENT



SAMPLE SIZES vs HEALTHCARE ADOPTION RATES



AI ENGINES VS APPICATIONS – NEW ENTRANTS









PXme (PX MATURITY EVALUATION)

0% - 25% 50.01% - 75% 25.01% - 50% 75.01% - 90% 90.01% - 100% Stage 1: Limited Stage 2: Ad-Hoc **Stage 3: Organised** Stage 4: Managed No patient feedback Ad-hoc, basic **Established survey** Strong PX patient surveys and and complaints **Very limited** measurement capability and complaints process platform enabling process partnership with Lack of capability Some partnership deep insights that and little with consumers guide targeted consumers Lack of leadership, partnership with PX initiatives improvements, structure and KPIs. planned but highly defined consumers Limited staff Some PX initiatives requiring formalised complaints process planned but lack of PX leadership. engagement and Strong consumer training PX leadership and structure, & metrics, partnership, structure, unaligned formalised PX Undefined some targeted complaints strategic plan and training structure and KPIs. Some staff leadership, strategic > processes and service recovery Insufficient staff plan and PX KPIs engagement and **Few improvements** pockets of High buy-in, staff engagement and to safety and quality, broad training accountability receive targeted not focused on PX training, are Few improvements Increasing for safety and improvements to PX engaged and 'own' but not hardwired quality and PX. the PX. into culture as yet. PX is hardwired into sustainable.

Stage 5: Leaders

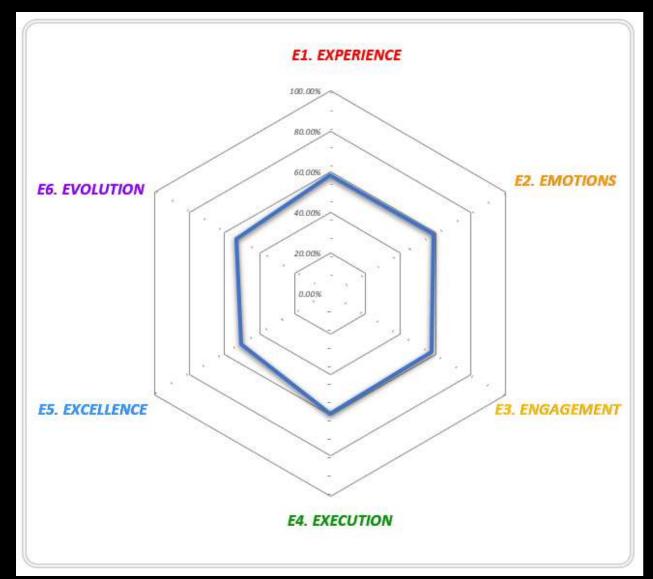
- Strong PX measurement platform enabling deep insights that guide targeted improvements Industry leaders in
- PX and consumer partnership, best practice PX structure and highly engaged leadership
- Staff are highly skilled in PX and

culture and is

custainable

- 'own' the PX, with full accountability.
- PX is hardwired into culture and improvements are

PX MATURITY SCORE

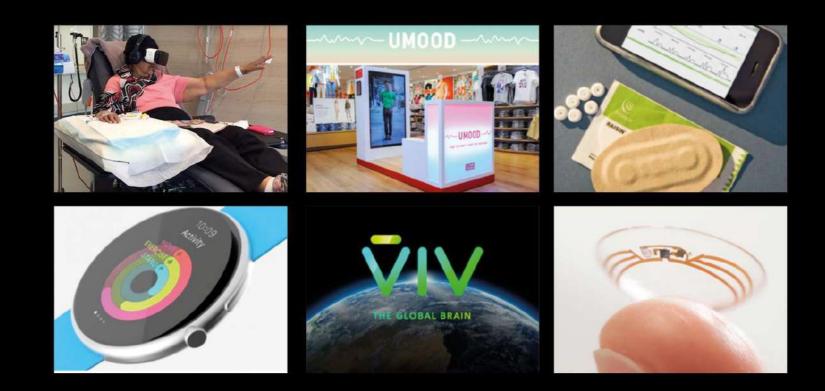


Stage of PX Maturity by E	Score	Stage
E1. EXPERIENCE	58.29%	Organised
E2. EMOTIONS	58.72%	Organised
E3. ENGAGEMENT	57.92%	Organised
E4. EXECUTION	59.47%	Organised
E5. EXCELLENCE	50.45%	Organised
E6. EVOLUTION	53.40%	Organised
OVERALL	56.97%	Organised

- The Overall PX Maturity Score is 56.97%.
- This places the organisation at the Early Organised (Stage 3) stage of maturity.

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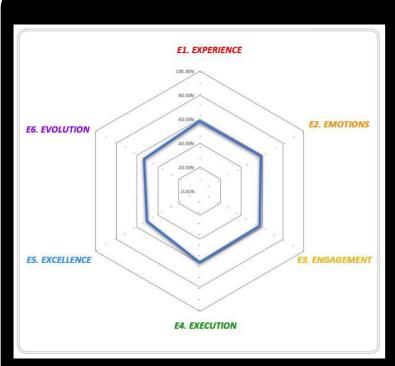
IT RECOMMENDATIONS: MAPS PX GAPS TO APPS



Internet of Things (IoT), Artificial Intelligence (AI), Augmented & Virtual Reality, Big Data, Blockchain & Mobility



PXme TRIAL OPPORTUNITY



Stage of PX Maturity by E	Score	Stage
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"Your 1st Partner in Patient Experience"



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