i·PROGNOSIS

What if you had
Parkinson's?

Parkinson's is a degenerative, neurological disorder with typical onset over 60

In Europe alone 1.2 million people have the disease, equating to a rate of more than 1 out of 1000 people, making it the second most common neurodegenerative disorder. There are critical facts characterising Parkinson's

1

No early diagnose methods for PD

***PD initial synthoms are very mild and often miss**, there are no early detection lab tests, and initial diagnosis will needs reviewing by neurologists and expensive diagnostics (PET) to confirm*

2

Current diagnostic methods too expensive

***PET is very expensive and is performed in few specialised laboratories** across Europe (< 350, mainly used for research purposes) that is rendered unsuitable for wide penetration in health care systems*

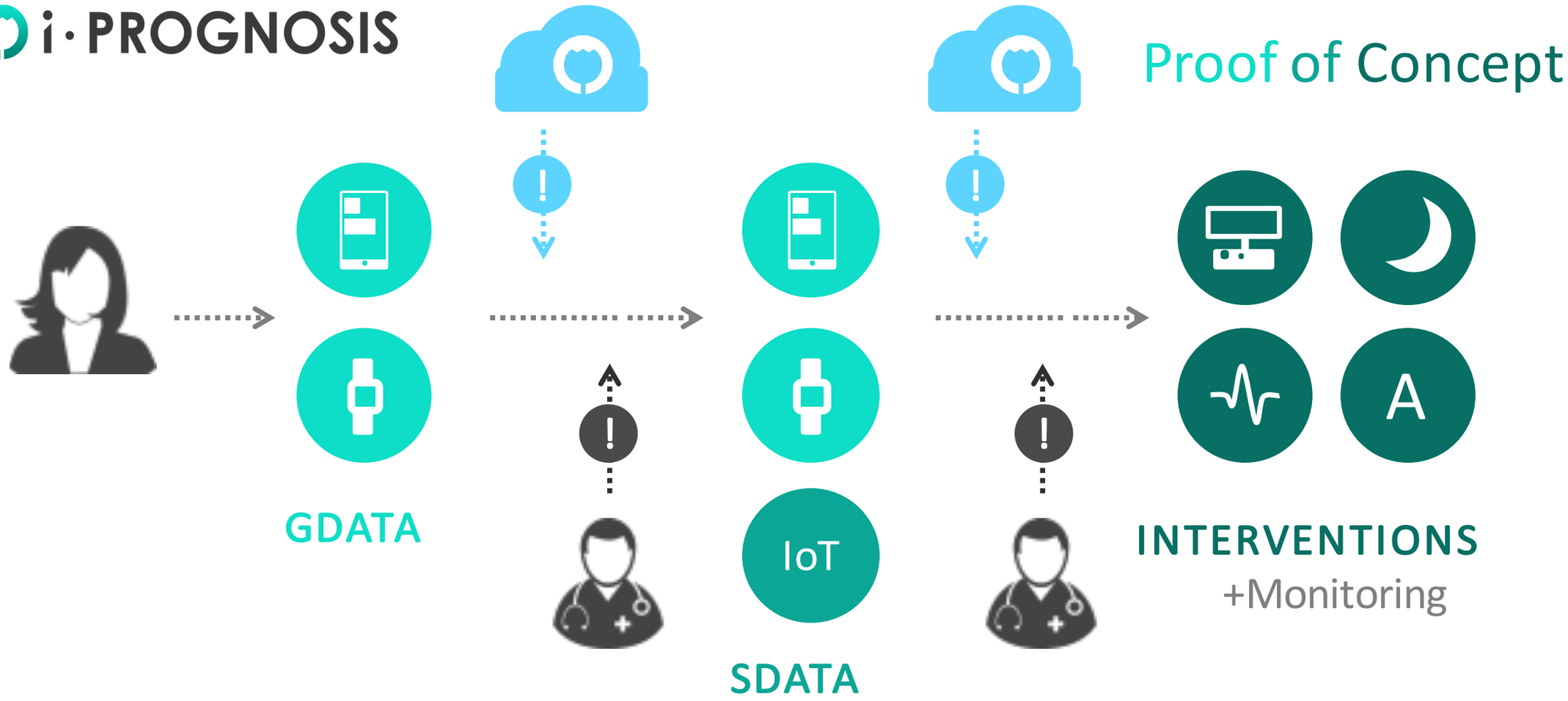
3

High personal impact of non-medical interventions

***Parkinson is progressive and degenerative**, associated with depression, and with typical diagnosis made at a late stage, so any barriers to treatment pose a great risk for prevention and treatment*

i-PROGNOSIS proposes an ICT based solution to address this issues

i·PROGNOSIS



Use of ICT devices to collect information from a large population dataset and of machine learning algorithms to make sense of the data

Use of ICT devices to ensure that patients are monitored without needing to disrupt their day-to-day life

We expect to involve and retrieve data from 5.000 persons for the development of the project

i-PROGNOSIS hopes to develop better and more cost effective solutions

i-PROGNOSIS early detection diagnostic method is unobtrusive and cheap to deploy to a large population base and its intervention mechanisms can leverage from scale economies

1 ***An unobtrusive method for mass diagnosis***

*The early diagnostic tool would provide an intelligent approach for mass deployment, as g-data is **mostly unobtrusive** and can be deployed in a SAAS model*

2 ***An alternative cheap approach for conducting diagnosis***

*i-Prognosis solution g-data solution can be deployed leveraging on user own infrastructure (smartphones) as an app, **having scaling capabilities** needed to ensure low user cost*

3 ***High personal impact of non-medical interventions***

*The same base infrastructure for s-data monitoring can be use to provide an **easier diagnosis support tool to monitor the disease progression**, and potentiate remote interventions in the field of exercise support and others*

i-PROGNOSIS exploration will need a dedicated business model

We intend to aggregate the i-PROGNOSIS tools in a platform for content and tools on Parkinson disease, scaling the same in a B2B approach to health organisms (public and private) granting access for prescribed licenses paid by the health provider/payer organism

	Value creation	Value delivery	Value capture
Diagnostic service	***Services aggregated in a platform dedicated to Parkinson, ideally associated with an interest group focused on the disease***	***B2B for health organisms (public and private), with services licenses available to their end-users, and paid only when used/subscribed by doctor recommendation*** ***The platform will also be open for individuals subscription***	***Fees from licenses to organisms and HW rental for s-data*** *(but also for individuals)*
Early intervention tools			***Fees from application use, HW rental, paid content in platform, marketplace for PD interventions, real world evidences for PD pharma***

i-PROGNOSIS is one of the most integrated project in this space

i-PROGNOSIS will have the impact of a large data sample and will be build on easier tools for data acquisition - such as our own mobile application, our smartbelt, personalised game suite and voice treatment algorithms for better data acquistion

Diagnostic service	*There are similar projects using ICT approaches to research parkinsons, with large data sets or with standard measures*	 mPower A Parkinson Disease Research Study
Early intervention tools	*There are several projects and existent services for remote monitoring of patients progression*	PD MANAGER

i-PROGNOSIS is differentiating itself with proprietary data treatment apps, wearables and large sample of data

Consortium members have the skill set needed to tackle this issue

Project coordinator
Aristotle University of Thessaloniki

AGE Platform Europe

CERTH
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

COSMOTE

fMH

Fraunhofer IAIS

Karolinska Institutet

KING'S College LONDON

Microsoft
Microsoft | Innovation Center Ελλάς

plux

TECHNISCHE UNIVERSITÄT DRESDEN

we create innovative products for **industry**, **clinicians** and **researchers**, by developing advanced **biosignals** monitoring **platforms** that integrates wearable **body sensors** combined with wireless connectivity, **algorithms** and software **applications**

PLUX has a track record of developing innovative solutions

2007 — *PLUX is founded*

2008 — *Developed sport performance monitoring solutions*

biosignals 1 developed

2009 — *physioPLUX commercial launch*

physioPLUX Clinic launched

2010 — *Caixa Capital Invests*

Caixa Capital

2011 — *BITalino is launched*

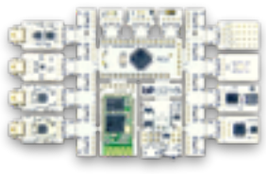
2012 — *Ergo developed with Volkswagen*

2013 — *Start developing physio@home*

2014 — *gestureplux developed w/ Intel*

2015 — *Commercial launch for physio@home*

2016 — *BITalino revolution*



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