

# Artificial Intelligent and Data Insight at the service of healthcare

### we are eB2

a company that develops healthcare solutions using Artificial Intelligence and mobile technologies evidence-Based Behavior



A spin-off from Universidad Carlos III de Madrid

www.eb2.tech i info@eb2.tech

### eB<sup>2</sup> Research



### eB<sup>2</sup> Research Platform for academic and clinical research

Accelerate the generation of scientific and medical knowledge, by providing information and objective measures on the behaviour and functionality of patients in real life conditions:



Analysis of aggregated data with Artificial Intelligence algorithms.

Indicators and functional patterns on: Behavioural changes and instability Mobility Physical activity Social activity Sleep



# eB2 Research Platform

The evidence generated from collecting the digital footprint of a person in daily life conditions is useful across an array of research applications.

Our configurable eB2 Research platform leverages is a fit-for-purpose solution to support and enhance observational research and clinical trials, gather disparate real data assets, provide analytics to support different audiences and establish a repository and analytic platform.



PHARMA Phase II-IV clinical trials



ACADEMY Research and behavioral studies



CLINICAL FIELD Observational studies



A spin-off from Universidad Carlos III de Madrid



### eB<sup>2</sup> Research

Why choose eB2?

### **Basic Module**

- App for users/patient/caregiver
- Portal for the professional

Ľ

\_\_\_\_\_

Cloud service

Gathered data: location & mobility, steps, physical activities, Smartphone usage, sleep, social network activity, wearable data (Fitbit, Garmin), emotions, voice prosody, typing

# **Additional Modules**

Assistance with study setup Questionnaires and clinical scales **Medication adherence** Fulfillment of tasks

# **Behavioral Analytics Cloud**



# **Intelligent Monitoring**



www.eb2.tech i info@eb2.tech

A spin-off from Universidad Carlos III de Madrid

### eB<sup>2</sup> Research



**eB2** is an innovation leader, solidly founded on research in mobile health (mHealth) technology for health. The team integrates artificial intelligent and machine learning expertise with medical and specialized operational capabilities. We help in the design and execute studies in all the phases.



## eB2 Research References

eB2 team has participated in numerous clinical studies and research projects and has published the obtained results in high impact journals.

10+	2	20+	15	5+	
observational studies and clinical trials	retrospe	ctive studies	years applying	g Al for health	
		N	0		
Molecular Psychiatry (2012) 17, 956-959 - 2012 Macmillar Publishers Limited All rights reserved 1359-4184/12 www.nature.com/imp			rt al. BMC Psychiatry (2020) 20:30 11186/s12888-020-2431-x	BMC Psychiatry	
Machine learning and data mining: strategies for hypothesis generation MA Oquendo <sup>1</sup> , E Baca-Garcia <sup>1,2</sup> , A Artés-Rodríguez <sup>3</sup> , F Perez-Cruz <sup>3,4</sup> , HC Galfalvy <sup>1</sup> , UR Baca-Enterior and Neurolo			Study protocol of a randomised clinical trial testing whether metacognitive training can improve insight and clinical outcomes in schizophrenia		
Berrouiguet et al BMC Psychiatry (2019) 19277 https://doi.org/10.1186/s12888-019-2260-y	//C Psychiatry	Javier-David I María Luisa B Antonio Arté	opez-Morinigo <sup>1,2,3*</sup> , Verónica González Ruiz-Ruano <sup>1,2</sup> , Adela rrigón Estévez <sup>1,2</sup> , Laura Mata-Iturralde <sup>1</sup> , Laura Muñoz-Lorer «Rodríguez <sup>4</sup> , Anthony S. David <sup>5</sup> and Enrique Baca-García <sup>1,2</sup>	I Sánchez Escribano Martínez <sup>1,2</sup> , Izo <sup>1</sup> , Sergio Sánchez-Alonso <sup>1</sup> , 6789.10	
<b>STUDY PROTOCOL</b> Combining mobile-health (mHealth) and artificial intelligence (AI) methods to ave suicide attempts: the Smartcrises study protocol	Open Access	EXAMPLE CONSOC ENDER ASSESS Pablo Bonilla-Escribano Juan José Ce and A Berrouiguet et al. BMC Psychiatry	Surnal of Biomedical and Health Informatics vol.	IS, NO. 6, NOVEMBER 2019 2247 Activity ts E, Alba Sedano-Capdevila, Philipe Courtet, r, IEEE	
Antonio Artés-Rodríguez <sup>xo</sup> and Enrique Baca-García <sup>xo</sup>	https://doi.org/10.1186/s12886-019-2260-y BMC Psychiatry		BMC Psychiatry		



### evidence-Based Behavior

www.eb2.tech i info@eb2.tech

A spin-off from Universidad Carlos III de Madrid