



THE PROBLEM



Bipolar disorder (BD) is a **lifelong condition** characterized by recurrent episodes of mania and depression, cognitive dysfunction and an increased risk of suicide. **Lithium**, is the **gold standard** as mood stabilizer. It has a **narrow therapeutic window**, being **effective** in a small range of concentrations **close to the toxic threshold**. Lithium blood levels are monitored through inefficient, centralized, costly and time-consuming analysis leading to several problems such as **intoxication**. There is **need for accessible, simple and affordable lithium level monitoring**.

184M people affected globally

6th leading cause of disability worldwide

25-50% people with BD attempt suicide

2.330 M€ / year BD costs (Spain)

THE SOLUTION



BDSens is a **paper-based ion-selective potentiometric cell**, strategically commercialized alongside a platform to connect physicians and patients at home, hospital or primary care.

- The core technology lays on the ion-selective potentiometric sensor, assembled in paper and composed by an ink and polymeric membranes.
- The platform will support different sensor arrays, such as creatinine and potassium.

KEY BENEFITS



User-friendly with wireless connectivity and user centered design



Simple and minimally invasive



Ultra - Low cost solution



Connected health fluid doctor to patient interaction

MILESTONES

2017 **Foundation**

2019 **Functional Prototype**

2019 – 2020 **Preclinical validation**

2020 **Final prototype**

2020 **Patent Application**

2020 – 2021 **Clinical validation**

2021 **CE Mark**

FUNDS RAISED



- 70k€ Caixaimpulse
- 125k€ Sabadell Bstartup - Genesis Biomed
- 50k€ SME Instrument Phase I
- 160k€ Fundación Renal Iñigo Álvarez
- 25k€ EIT-Health (PoC+)
- 750k€ EIT Health Innovation by Ideas (8 Partners Consortium)

FUNDING GOALS



- 50% Clinical Validation
- 20% Prototyping
- 15% Technical Settings
- 15% Market Launch

KEYMETRICS

±3€ Price / test

350M€ /year Potential Market

2% Potential penetration rate

800 k€ Projected Gross Annual Revenue in 2021

ACCELERATION PROGRAMS

Caixa **impulse** (2015) (2016)

IMAGINE(F) (2017) (2018)

IQS NEXT TECH (2018)
THE INDUSTRIAL ACCELERATOR

MANAGING TEAM



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