



Pioneering **Personalized** &
Digital Medicine in Neuroscience

NEUROLOGISCHE ERKRANKUNGEN



#1 URSACHE VON
BEHINDERUNG WELTWEIT

#2 TODESURSACHE
WELTWEIT

Quellen: Lancet Neurology, 2017; DRG 2017, American Heart Association, American Parkinson's Disease Association, The ALS Association.

advanced materials, advanced
manufacturing, artificial
intelligence, biotechnology,
blockchain, robotics, photonics,
electronics, and quantum
computing

DEEP TECH HEALTHCARE

personalization,
individualization, DIY,
decentralization, prevention,
quality of life

FUSION

BITS & ATOMS

THE NEXT WAVE OF INNOVATION:
**DEEP TECH IS WHERE ADVANCED SCIENCES, (DIGITAL)
ENGINEERING AND DESIGN MEET.**

A digital health scale-up within Biogen

150+

DIVERSE TALENTS

with an unparalleled set of capabilities
in the industry

3 HUBS: BOSTON, ZURICH, PARIS – embracing remote & hybrid ways of working

Our team is made up of:

Neuroscientists

Digital product managers

Clinicians

UX designers

Data scientists

Engineers

Biostatisticians

& more...

They work across disciplines to make a lasting **impact** for patients.



**Develop & deliver tangible
customer solutions at scale**

Solutions

**External
Innovation**

Science

**Excel at connective tissue
with startups, tech,
medtech..**

**Pioneer and advance digital
health science in neuro**

Our Vision

We aspire to transform Biogen & patients' lives by making personalized & digital medicine in neuroscience a reality.

Our five Strategic Imperatives by 2025

Shaping a high performing **digital health organization** and catalyzing Biogen's broader digital transformation

Validated **digital biomarkers** and digital measurement platforms enabling R&D and RWE

Leading **personalized medicine analytics & data science** capabilities

Enabling **digitalization of patient journey and clinical care** with solutions

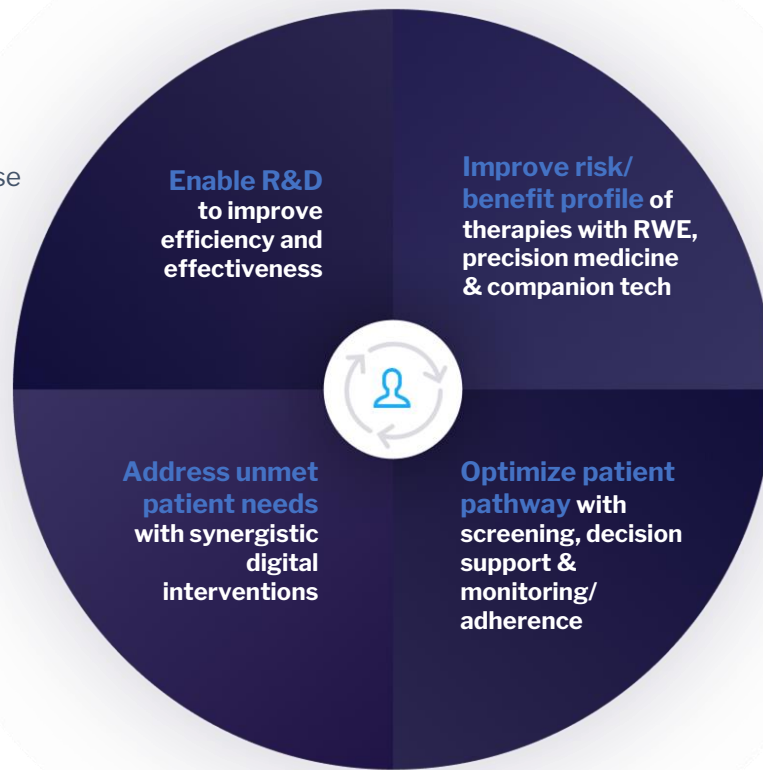
Meeting patient needs with **synergistic digital therapeutic interventions**

What is the opportunity of Digital Health for Biogen ?

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- **Reduce Time & Cost** of early phase studies
- **Augment Probability of Success** with digital biomarkers

- **Generate adjacent revenue** from commercialization of DTx
- **Combine technology & biology** for better outcomes
- **Improve relevance & reputation** as a holistic “disease solution” company



- **Increase revenue** by advancing RWE & improving clinical decisions
- **Increase revenue** by enabling “value-based models” of tomorrow
- **Increase revenue** by driving market expansion & adherence to care plan
- **Improve relevance & reputation** & digital engagement with companion services



neurotechprize

by Biogen

German neurotechlab by Biogen is **partnering with Europe's largest innovation and entrepreneurship community: EIT Health**

This unique collaboration, would allow Biogen Germany to leverage the brightest minds to **solve unmet needs with personalized medicine and individualized care in Germany.**

This challenge will focus on four areas of interventions for neurodegenerative diseases

**Accelerating
Diagnosis**

**Improving
Disease
Monitoring**

**Easing burden on
patients**

**Helping to
maintain quality
of life**

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FINALISTS HAVE BEEN SELECTED FOR THE ACCELERATION PHASE



Brain+ digital CST will provide therapists with ready-to-use content & support for caregivers.



Digital biomarker & passive analysis how people interact with their personal devices from home.



Digital health program to increase the efficacy of caregivers through personalized education, coaching and remote monitoring.



Blood biomarkers through combining multi-omics assays with machine learning techniques.



Passive monitoring solution that turns digital interactions into medically approved outcomes.



Shazam for health: sound analytics company developing and analyzing characteristics of the voice.



The ichō therapy device playfully trains the cognition and motor skills and improves quality of life.



DTx mobile app that empowers users to track brain health via clinically-validated risk assessment + to reduce their risk through lifestyle improvement.



DTX providing personalised interventions + application for carers to monitor cognitive ability and stress.



Combination of a digital cognitive test, automated quantification of brain scans, and a machine learning clinical decision support system.