

- +
 - Smart device for controlled fluid intake

documented drug therapy of parkinson's disease patients



Documented drug therapy of parkinson's patients | Pain / medication

Only about **10% of patients take the medication as prescribed**

in **54% of patients there are deviations from the total and daily dose and the dosage interval**

Documented drug therapy of parkinson's patients | Pain / patients and relatives

Irregular medication intake, especially in medium and late phases of the disease, leads, among other things, to the occurrence of so-called motor fluctuations

These significantly impair the quality of life of those affected and their relatives and increasingly lead to social withdrawal and disorders in the mental, physical and economic areas

Documented drug therapy of parkinson's patients | Gain

A better education on drug therapy and a simplification of the intake regimen lead to a much better symptom control and to a better quality of life and satisfaction in the patients, as well as to a strong reduction of follow-up costs through increased compliance

General environment of the challenge

Today there are already smart solutions to document the drinking of water. There is even a smart drinking bottle that delivers concentrates controllable in water (customizable)

Consumption is tracked and stored in the corresponding app



SMART SENSING TECHNOLOGY
capacitive sensing technology, measures changes in electrical field caused by the presence of water, to measure the height of liquid contained within the bottle.

electric field interferences level sensing

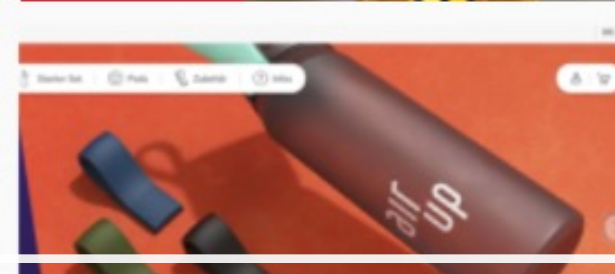
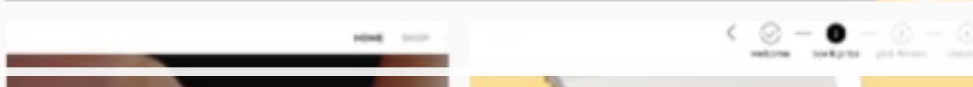
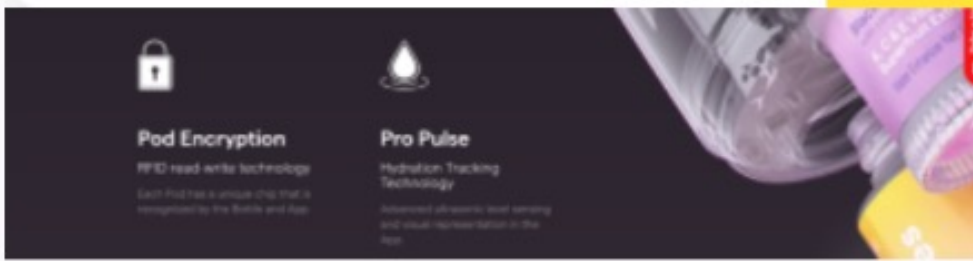


The Most Advanced
How does it work?
HOOPi gets mounted on the outer side of the base of the water bottle using vacuum and magnetic connection. With the help of an accelerometer and weight sensor, it monitors the water level in the bottle and sends data to the HOOPi app.

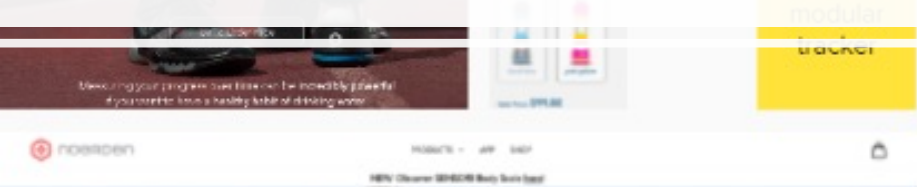


LifeFuels Bottle + Starter Pack \$99.00
Introducing the world's first smart nutrition bottle that turns your ordinary water into a beverage packed with flavor, essential vitamins and nutrients. Staying hydrated is as easy as the touch of a button or a swipe in the app.
• Holds 16.9 fl oz (500 ml)
• Up to 90 beverages from 3 Pods
• Up to 4 days battery life

ultrasonic level sensing



State of the Art | Research (Hydration / Tracking / Nutrition)



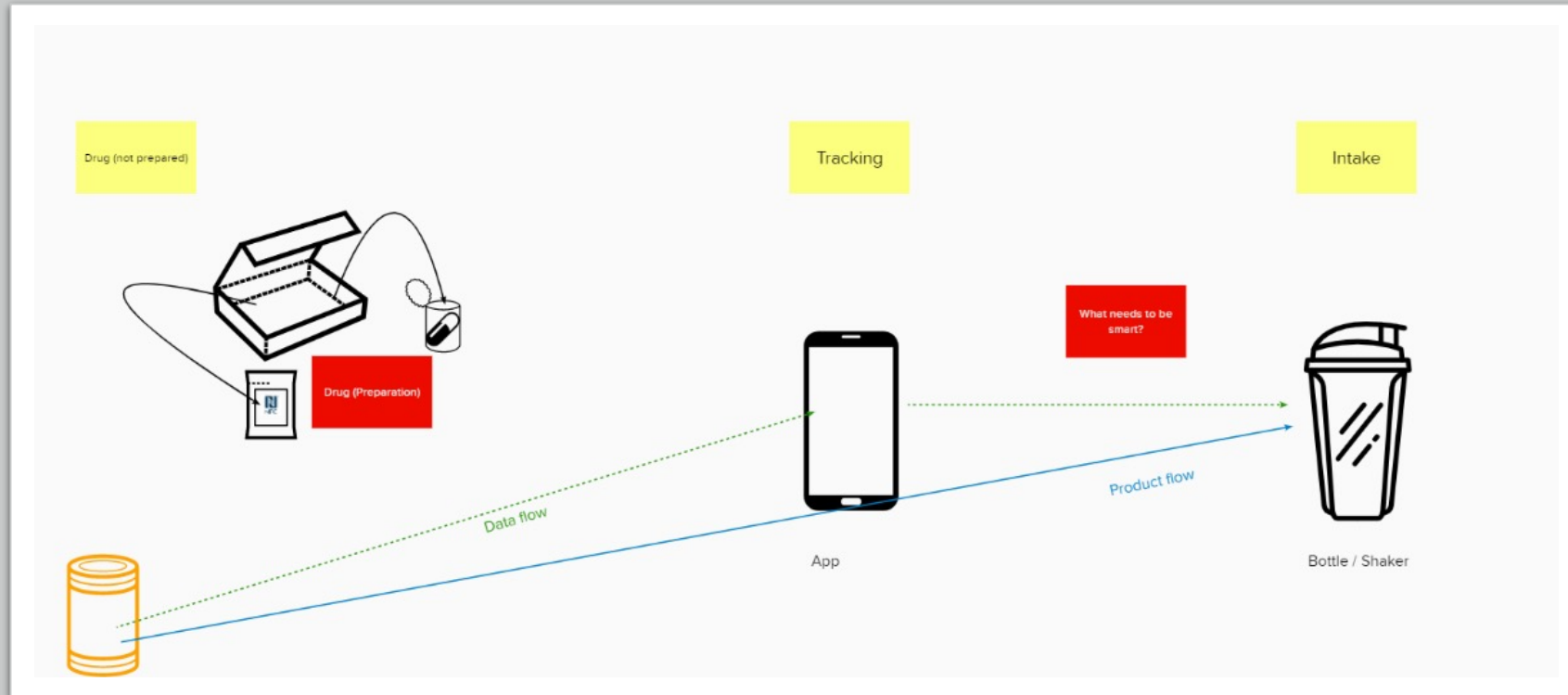
The challenges for this project

Dosage form of the drug

Viscous consistency of the solution

Protection of the prepared solution in the shaker:
what happens to it after x- hours, but also: how do I guarantee that the drug has been consumed and not thrown away or contaminated

The device must be operable by the patient, the information must be recorded via sensors and stored in a central place. This data must be able to be shared with the attending physicians



Eco System

- What: Product (preparation), intake, tracking and documentation
- For whom: Patient, relevants, doctors and pharmacists