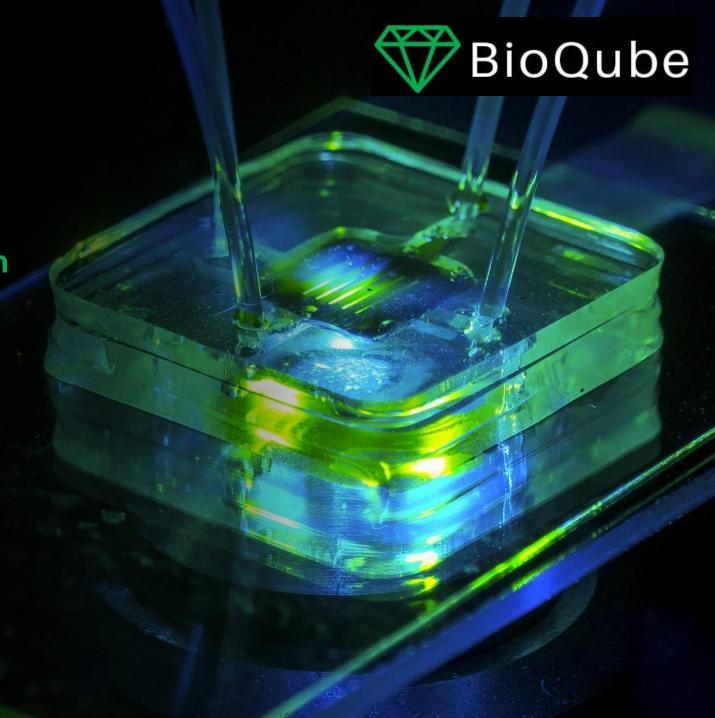
BioQube

Revolutionizing blood testing with Quantum Diamonds





Our Vision

 BioQube seeks to provide a new and exciting future for biodiagnostics. Our solution combines ease of use with pinpoint precision without requireing any invasive prosedures.

• BioQube's Vision is to solve problems in the diagnostics of almost any desease. Altsheimer is the first step on this mission.



Problem Space

Speed & Usability

Current Tests are often slow and require highly trained staff, which is not redealy available everywhere.

Cost & Flexibility

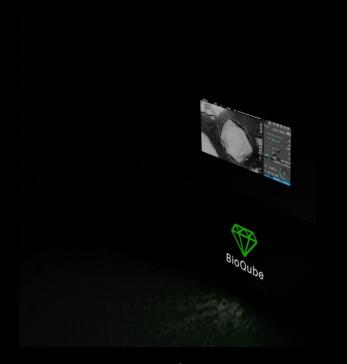
Due to high manual labor usage, costs of current tests are high and they can not be carried out everywhere on a flexible timescale.

Accuracy

Current tests are often not accurate enough to diagnose certain deseases early enough for effective treatment.



Our Solution powered by Quantum NV Diagnostics



The **BioQube**

Enabling easy fast, low cost and accurate blood diagnosis without the need for specialised staff.



FASTER

With our NV-Diamond setup utalizing microfluidic Chips, we can provide fast testing, with results only limited by the computational power needed for processing of the meassurements.



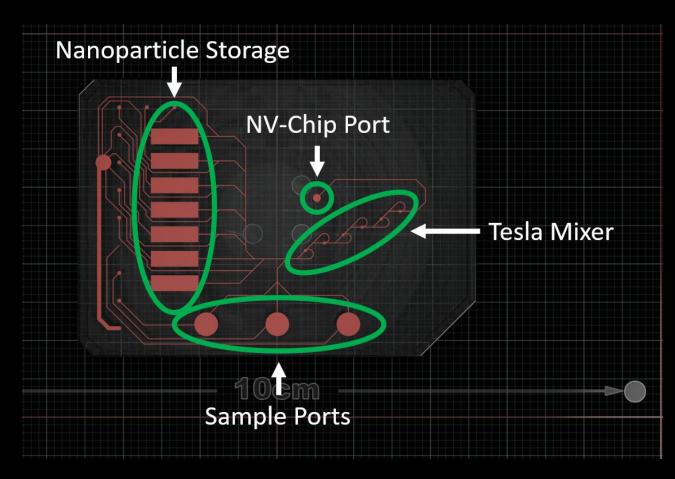
BioQube requires no skilled labor. Additionally, due to the reusable nature COST EFFECTIVE of our Design, we have no single use components. This leads to repeatet testing being very cost effective.



MORE SENSETIVE BioQube leaverages Quantum NV-Vaccency technology to acchieve unpresidented sensetivity and accuracy.



Our Solution the Sample Handling

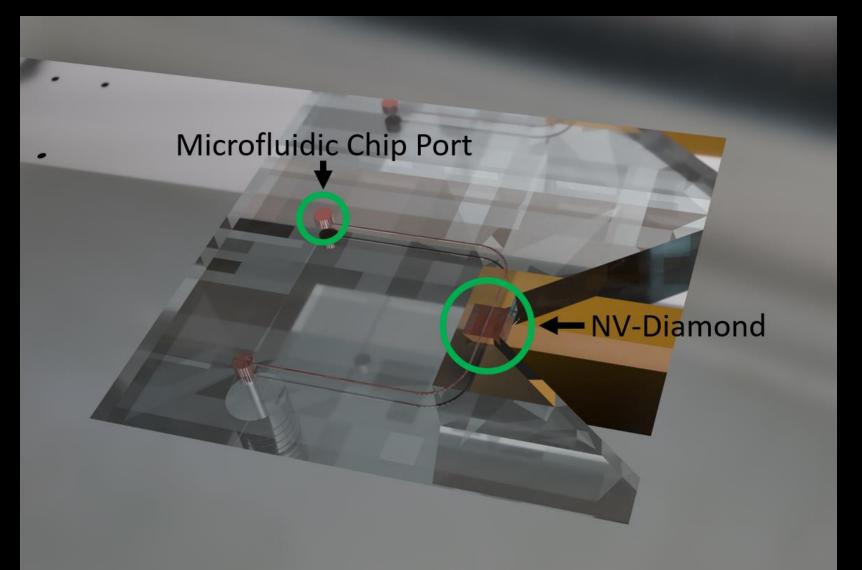


The Microfluidic Chip provides easy, fully automated and reliable sample preparation and handling.

The BioQube folds open giving easy access for up to 3 different blood samples to be placed into the machine. Then the sample and the nanoparticles needed for the testing are fed through and mixed in the Tesla mixer. The mixed and prepared sample is then passed on to the NV-Chip for the diagnostics. The Chip has 7 compartments for different nanoparticles so each sample can be tested for up to 7 different diseases per diagnostic run. After the analysis has been done the Chip flushes itself with a cleaning solution, making it ready for the next run.



Our Solution the NV-Measurement

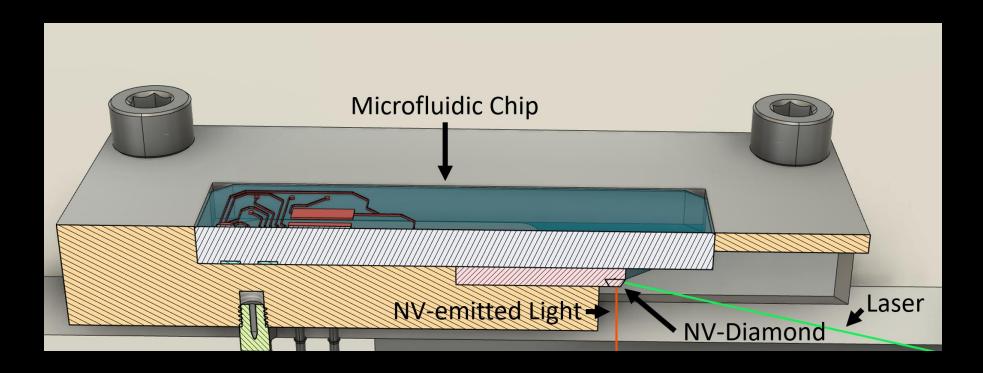


The prepared fluid enters the NV-Measurement chip from the port on the top left and is then routed over the top of the NV-Diamond. The Sample is analysed by the NV-Setup and then discarded.

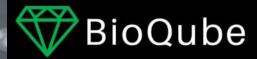
This glass chip also gets cleaned automatically leaving no need for human labour.



Our Solution the Chip -Stack

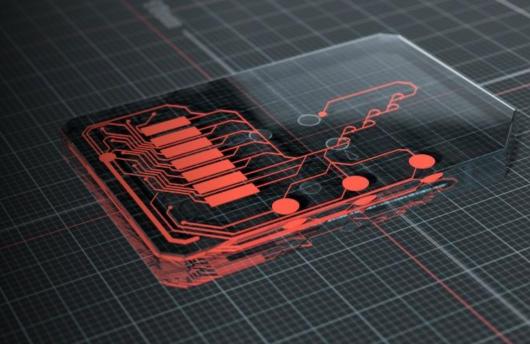


This view shows how the two chips fit together inside the actual machine. The laser for pumping the diamond and the emitted light is the basis of the analysis are also visible.



Disruptive new Diagnoses

- Diagnoses of Alzheimers
- Effective monitoring of chronic conditions
- Early detection of cancer
- Beter dosage of medicine



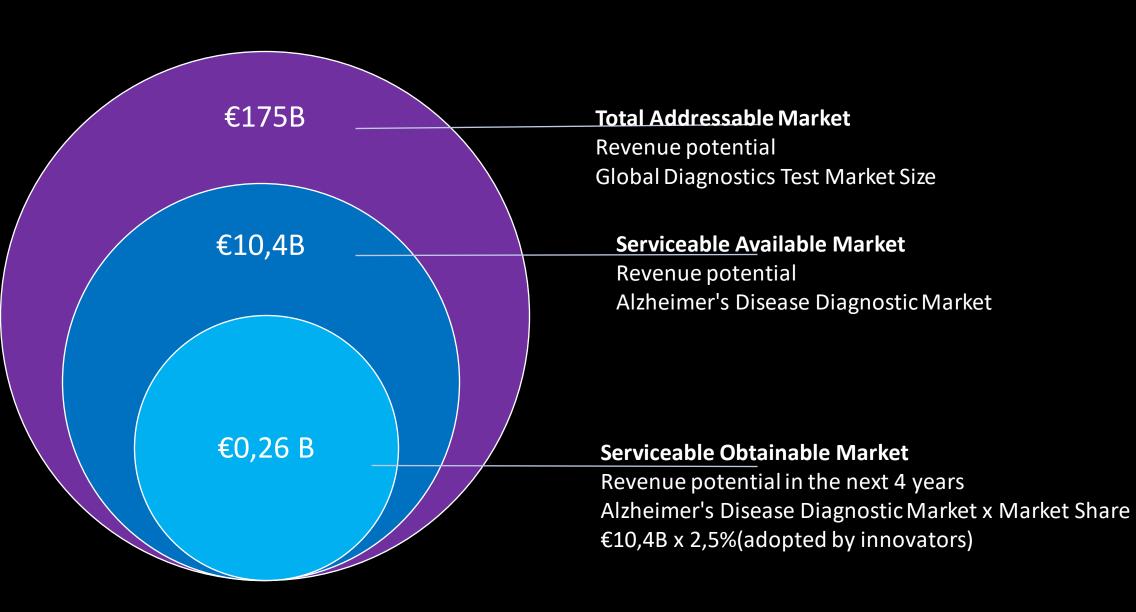


Our Competitors (diagnoses of Alzheimers)

	BioQube	SIEMENS : Healthineers :	Roche	GE HealthCare
Cheap	✓	X	✓	×
Fast	✓	×	×	×
Non-Invasive	✓	✓	×	✓
Accurate	✓	✓	✓	✓
Early diagnoses	✓	✓	×	
No need for expertly trained staff	✓	×	×	×

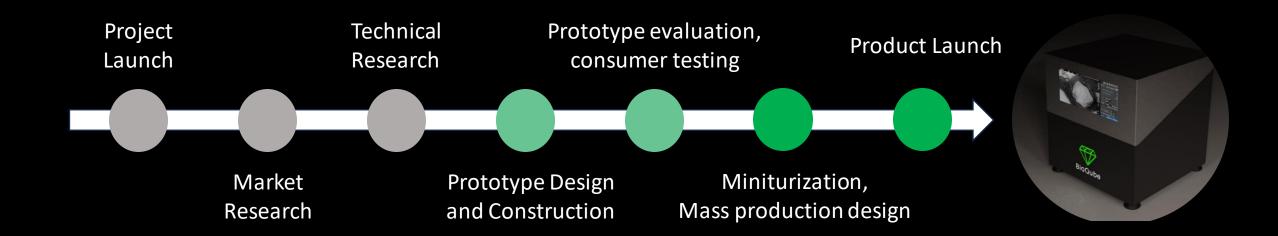
Market Size





Roadmap





Helping 33 million people with Alzheimers Disease



Tobias Beck Hardware Design



Matthäus Hirsch Hardware Design







Tim Maehrholz Market Research



Lisa Haag Biological Research



Jascha Fricker Technical Design



Benedict Brouwer Technical Design