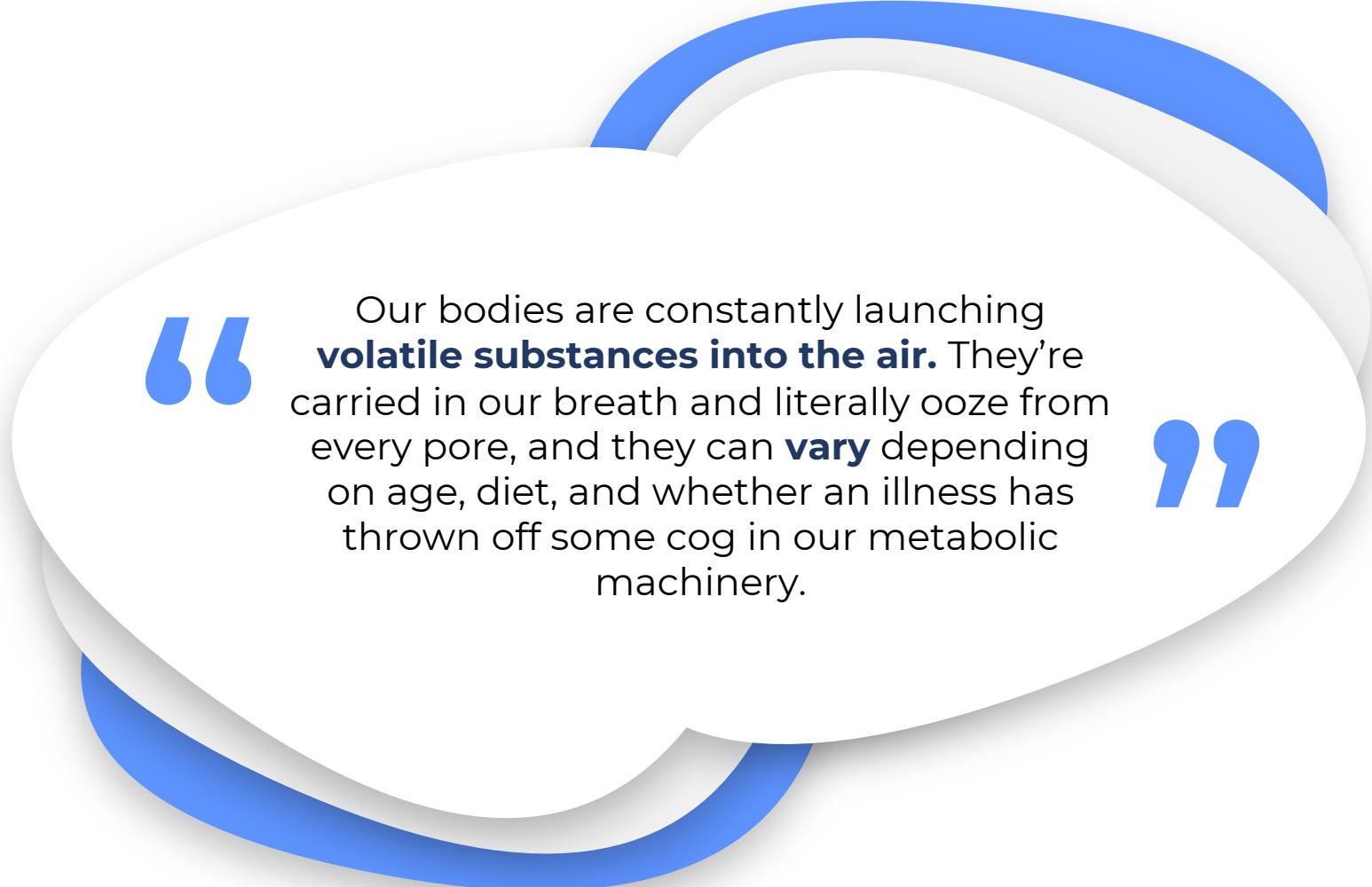


SmellAway

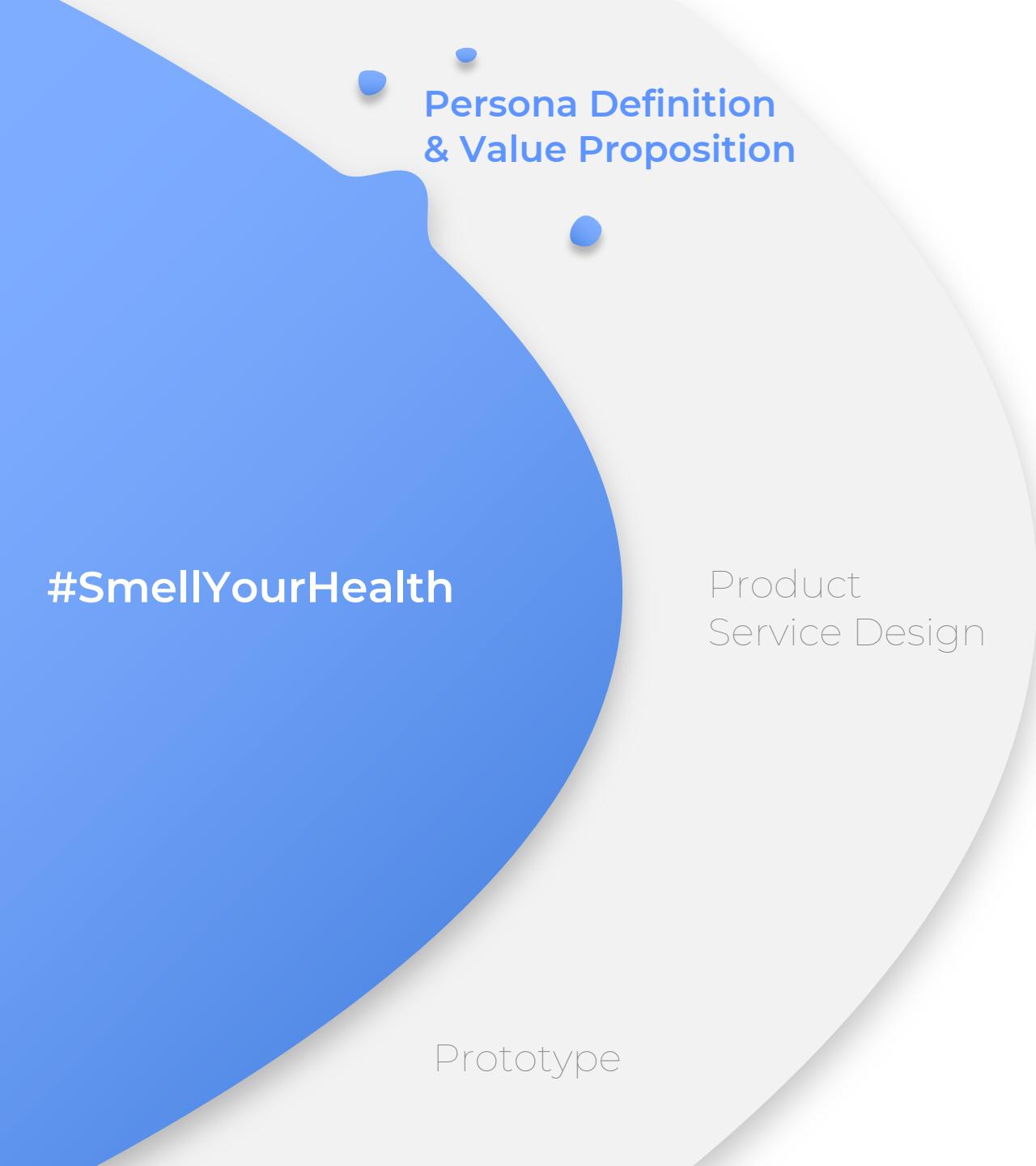
The Internet of Smell

Volatile Organic Compounds



“ Our bodies are constantly launching **volatile substances into the air**. They’re carried in our breath and literally ooze from every pore, and they can **vary** depending on age, diet, and whether an illness has thrown off some cog in our metabolic machinery.

“each disease has its own unique breathprint.”



Persona Definition & Value Proposition

#SmellYourHealth

Product
Service Design

Prototype

**Have you ever feared to
be sick?**

It is fine. We all did.

And we are sure... your first resource
was to Google.

And when you found out on the website that
your symptoms might suggest Cancer,
Diabetes, Parkinson, Alzheimer, etc....

You decided to visit the doctor.

Smell-Away
is your new best friend.
**Leveraging scent
data.**

Our product is not just a nice to have. Smells can reveal much more information before the development of a disease or disorder than any other medical or blood test



#SmellYourHealth

Prototype

Persona Definition
& Value Proposition

**Product Service
Design**

Smell-Away, test your health.

A device integrated with nanotechnology sensors that can capture volatile organic compounds emitted from our bodies.

SMELL-AWAY





Persona Definition
& Value Proposition

Product
Service Design

Our prototype

It is a machine learning model. With the compounds detected in the breath, the model will indicate the propensity to develop different types of cancer.

TypeofCancer		Compound	Trend_val
35	Colorectal	2-methylpentane	0
127	Breast	hexanal	1
128	Breast	heptanal	1
134	Breast	heptanal	
138	Breast	2-methylbuta-1,3-diene	
187	Gastric and esophageal	2-methylbuta-1,3-diene	
203	Gastric and esophageal	hexanal	
204	Gastric and esophageal	heptanal	
242	Gastric and esophageal	2-methylbuta-1,3-diene	
250	Gastric and esophageal	2-methylpentane	
251	Gastric and esophageal	2-methylpentane	
252	Gastric and esophageal	2-methylbuta-1,3-diene	
301	Lung	2-methylbuta-1,3-diene	
305	Lung	hexanal	
308	Lung	heptanal	1
425	Lung	hexanal	1
426	Lung	heptanal	1
458	Lung	hexanal	1
562	Lung	butan-2-one	-1
578	Lung	hexanal	1
585	Lung	2-methylpentane	1
702	Lung	butan-2-one	-1
731	Lung	2-methylbuta-1,3-diene	0
738	Lung	hexanal	0
741	Lung	heptanal	0
746	Lung	2-methylpentane	-1
751	Lung	butan-2-one	-1
759	Lung	butan-2-one	2
762	Lung	2-methylpentane	2

What do we offer?

A small sensor that can be implemented in any Bluetooth device.

Blowing near our device will instantly send the compound information to our website, where the model will be deployed. With a brief summary of which compounds are present, we will provide information of the propensity to develop any of the diseases under study.

Data Driven

At the end, scent is also data.



Feasible

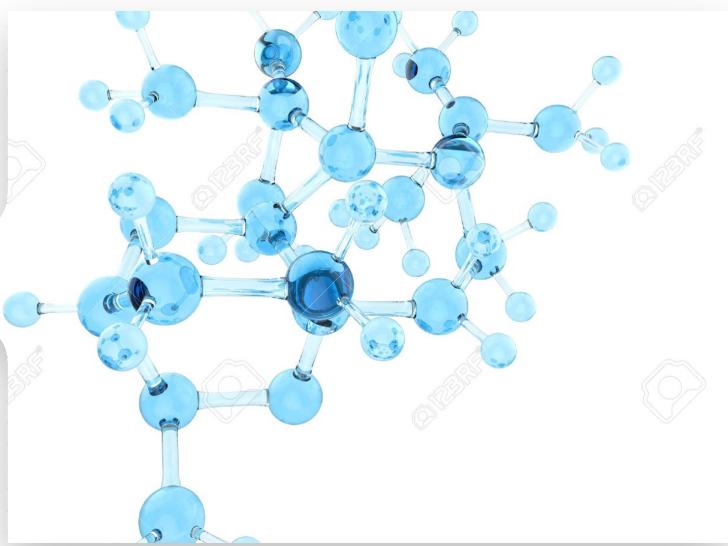
Let us show you how we do it.



Life-Saver

Do we still need to explain the potential of our idea?





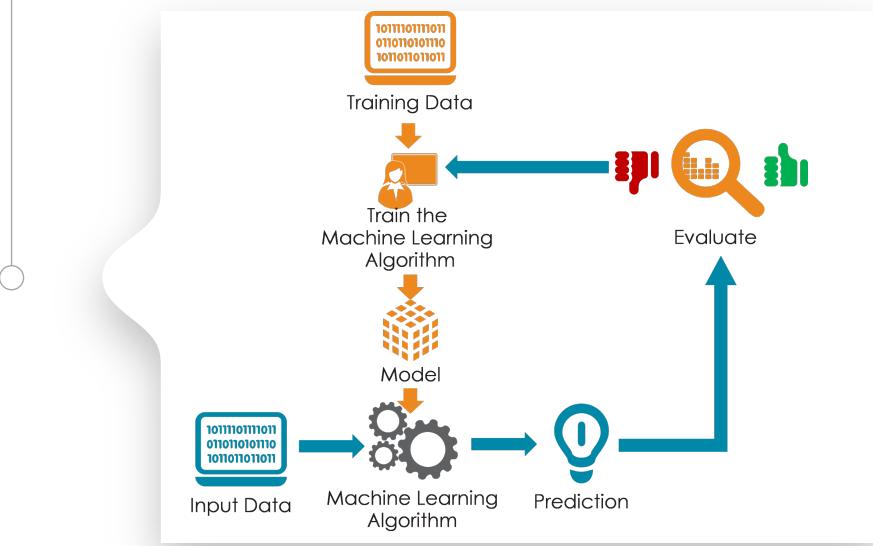
Identify molecules involved in diseases

This is a really hard work; many molecules are not well characterized or data on them exists only within the fragrance industry.



Confirm that these molecules are reliably elevated in sick patients

And try to figure out if there is a scent trend before any apparent symptom of the disease appear.



Train and test the model.

Use reinforcement learning to reward the model whenever a true positive or true negative is detected.

This would require large amounts of data and historic collections of information related to sick individuals.

Reward the model as we reward dogs.