WHERE MATH AND SCIENCE

FUN WITH STEM

The Science & Engineering of iFLY



WELCOME TO YEAR 5s & 6s from SCHOOL NAME









ifly | Indoor skydiving



### A problem to solve

The engineers who worked on the first iFly tunnel had a big problem to solve:

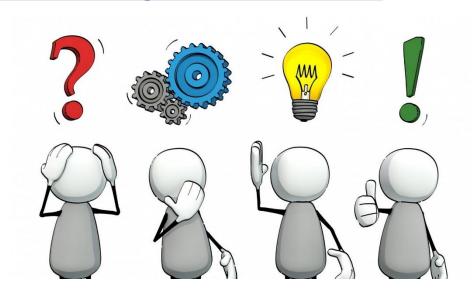
How could they let people experience the thrill of skydiving, without ever going up in an airplane?

To begin with, how could they create enough air flow to get someone off the ground and into the air?

How do you think the tunnel generates all that air flow?

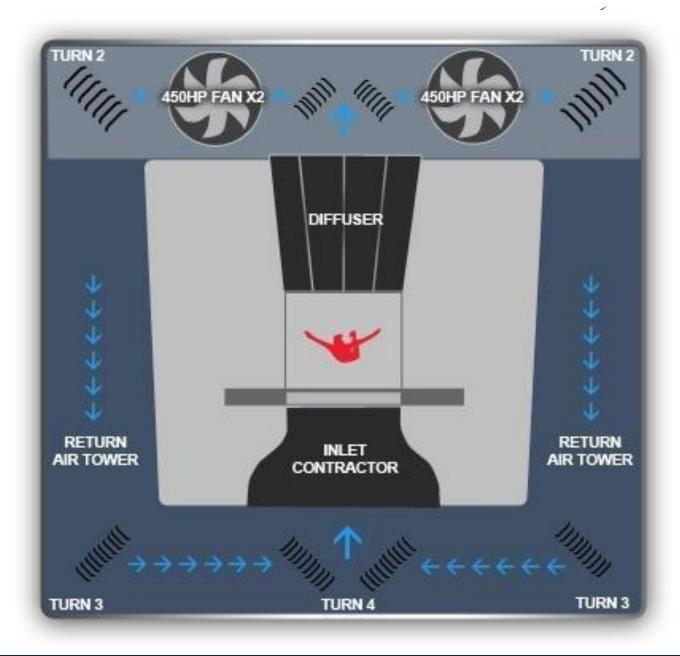
Where do you think the fans are located?

How many fans power our tunnel?





# This is a <u>Closed</u> Loop Vertical Wind Tunnel.



iFLY | INDOOR SKYDIVING



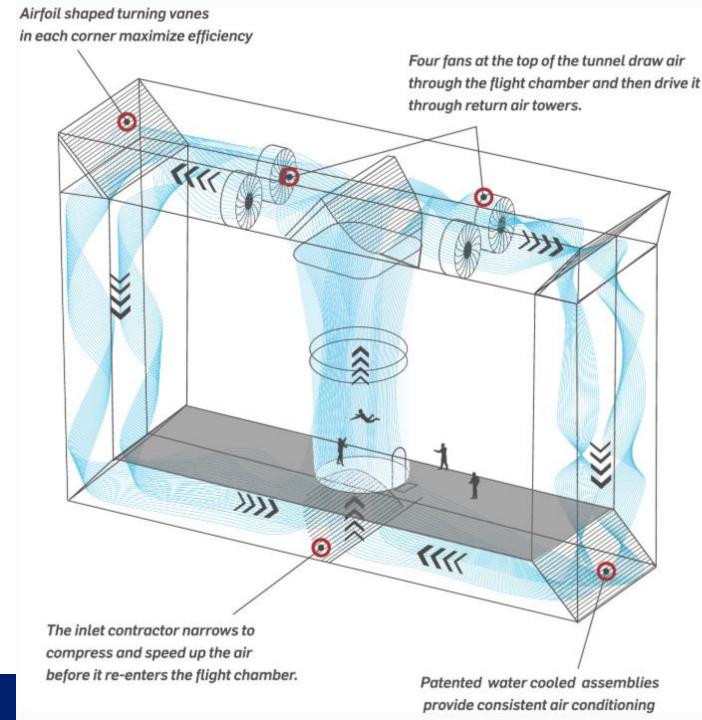
## **Another problem to solve**

What features would engineers need to think of when designing the tunnel?

Safety

Heat

**Energy** 





### **How Does All This Work?**

We invented the recirculating wind tunnel for bodyflight and continue to lead its innovation to allow us to deliver the dream of flight to everyone.

Four fans located in the optimal position for flow quality drive the air around a simple and efficient loop.

The airflow is narrowed below the flying chamber to speed and smooth the flow for maximum enjoyment.



# Moving air can cause a force.





# force of air pushing you up

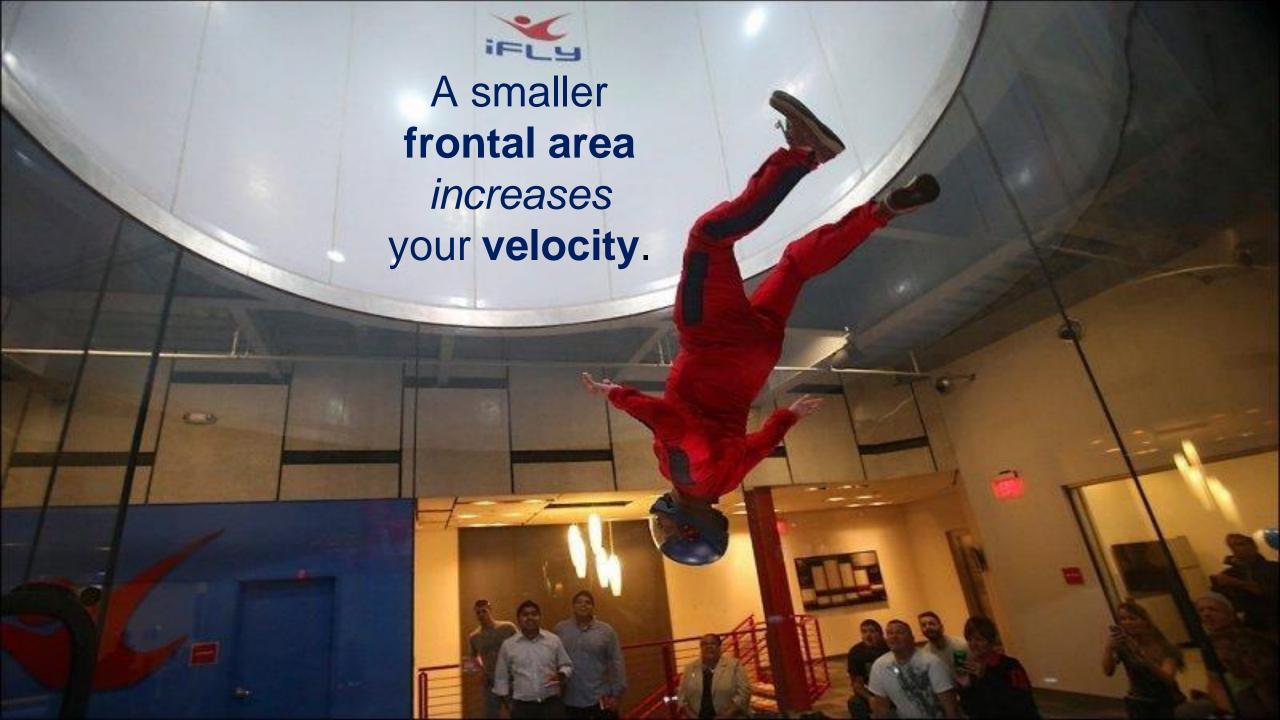


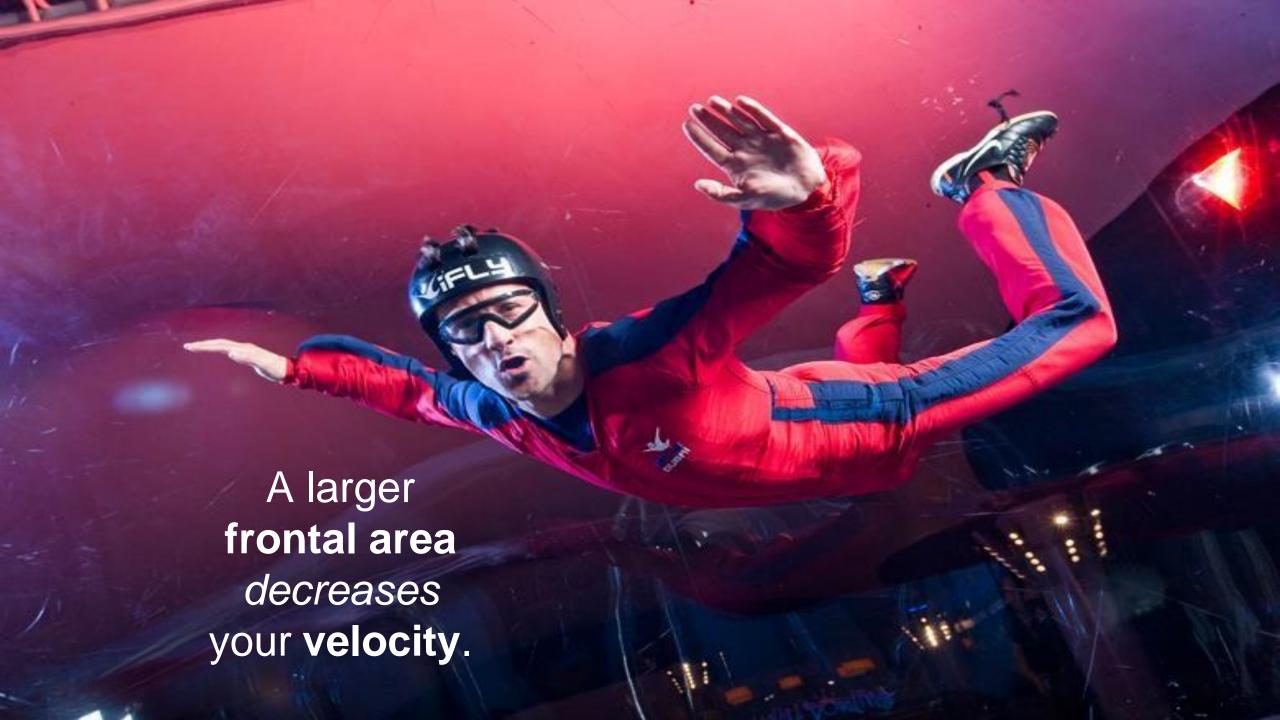




weight pulling you down

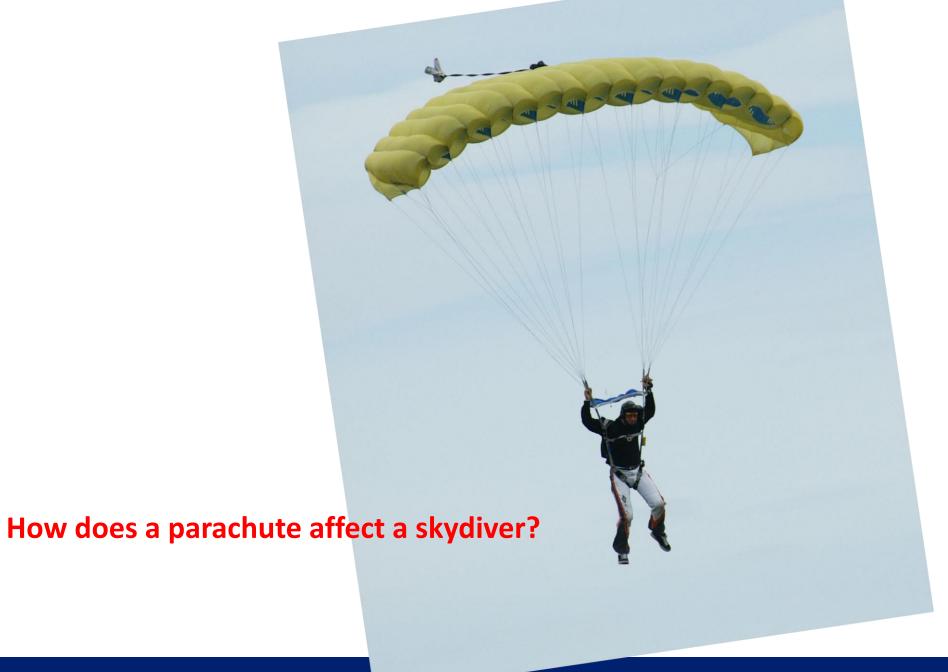
weight pulling you down











By User Alers onsv.wikipedia - Originally from sv.wikipedia

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