
Sixty minutes to break the limits
of human endurance.
Vittoria CORSA SPEED 25-28
CONTACT POINT
47.43 Kilometers.
The new official UCI World Record.
Men's Age 60-64 Category.
Set by Peter Megdal, PhD. Aguascalientes, Mexico.

A WORLD RECORD DECIDED BY THE WEIGHT OF SIX PAPER CLIPS.

The Margin of Victory: Beating the previous 2021 record required overcoming an incredibly precise amount of aerodynamic drag pushing backward.

The output difference between failure and history was less than 10 grams of pressure, yielding a final margin of just 70 meters over the entire hour.

THE PSYCHOLOGICAL PARADOX OF TIME-BASED RACING.

DISTANCE-BASED RACES		THE HOUR RECORD
		
Cover a set distance as fast as possible.	**THE GOAL**	Cover as much distance as possible before the clock hits 60:00.
The faster you run, the sooner the pain ends.	**THE REWARD FOR SPEED**	The harder you pedal, you simply endure more pain for the exact same duration.
A mass start against hundreds of others.	**THE COMPETITORS**	Solo on the track. You versus a countdown.
Pacing for a physical finish line.	**THE MENTAL MODEL**	Enduring a rigid, inescapable block of time.

CALCULATING THE ATMOSPHERIC SWEET SPOT

Aguascalientes Velodrome, Mexico

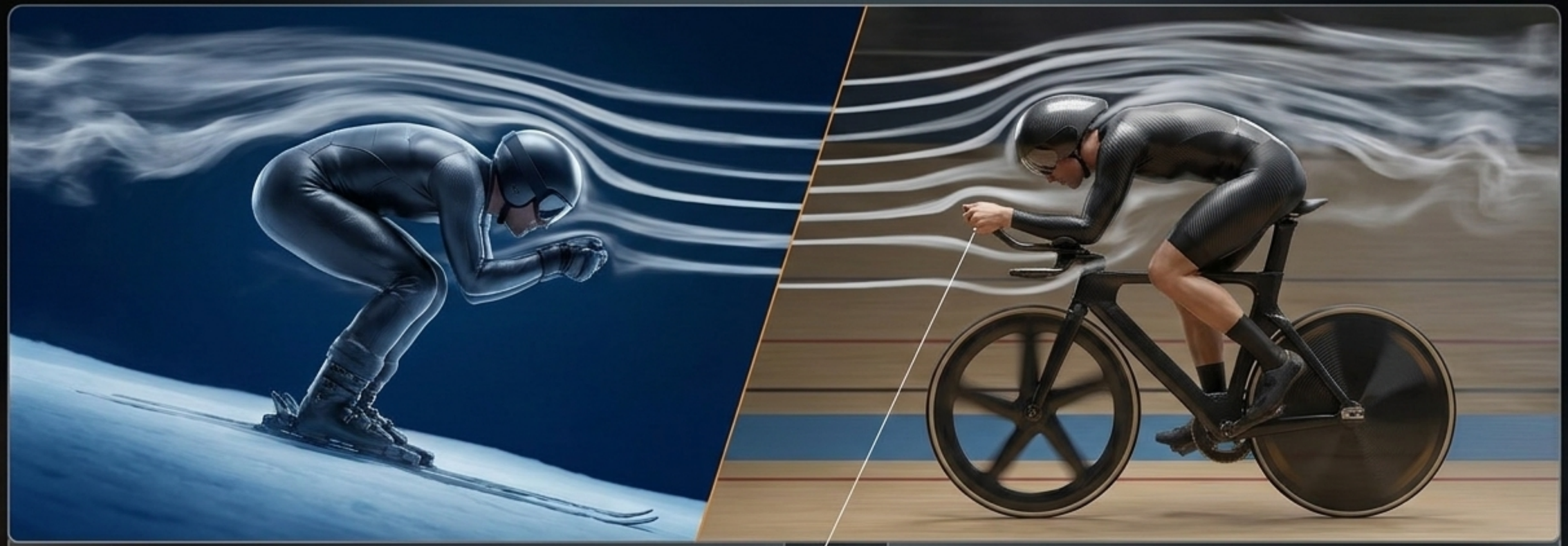
Air Resistance: Thinner air at high altitudes dramatically reduces aerodynamic drag—the primary force working against a cyclist.

Aguascalientes provides the mathematically perfect balance: high enough to cut the wind, low enough to keep breathing.

Oxygen: However, higher altitudes reduce available oxygen, choking human power output.

FORCING THE HUMAN BODY INTO AN AERODYNAMIC BULLET.

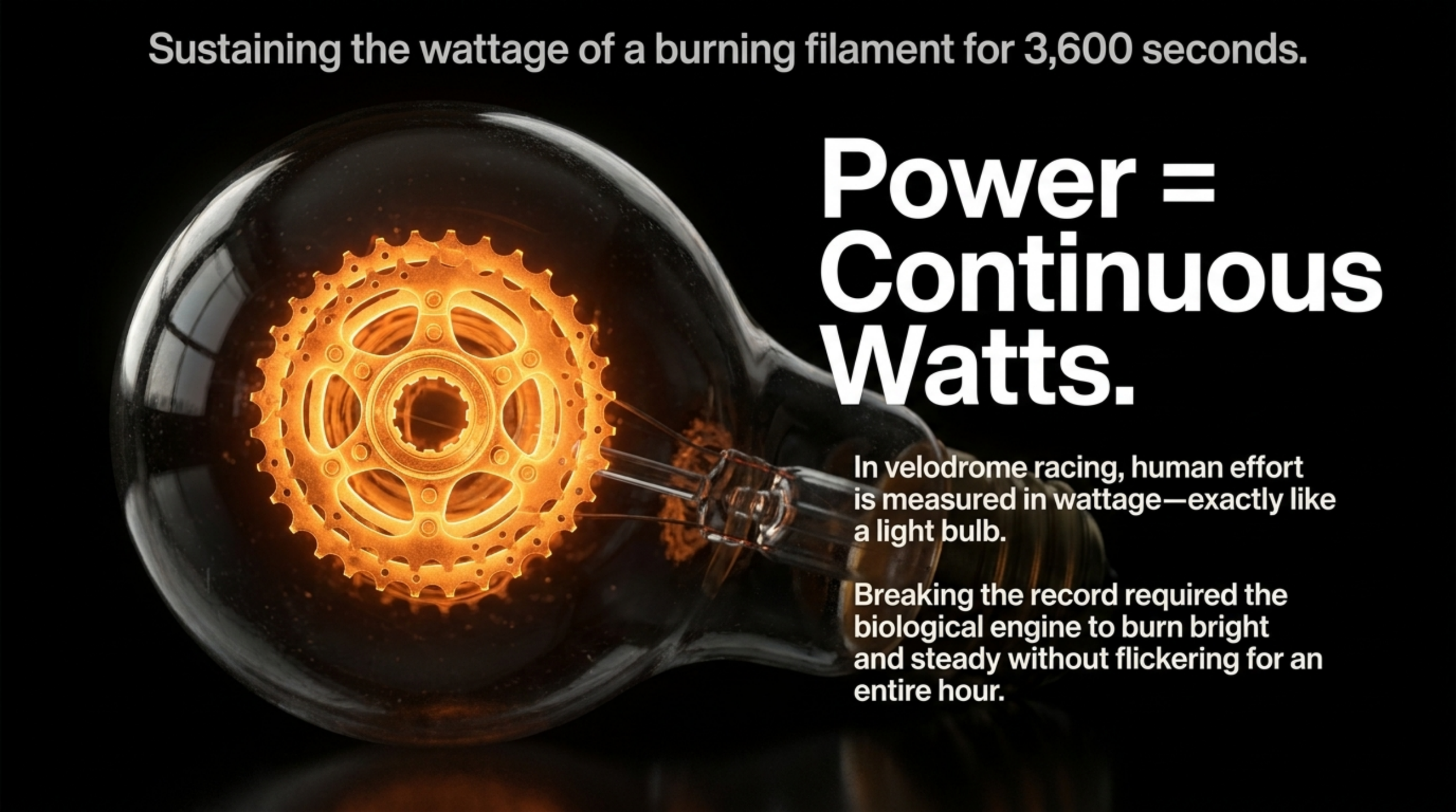
The specialized track bike forces the rider's hands straight out in front.



To overcome wind resistance at 47 kilometers per hour, the rider must adopt the exact aerodynamic profile of a downhill skier—but while violently turning the pedals 90 times a minute.

Every element is optimized for slipstream: tires, wheels, helmet, and skinsuit.

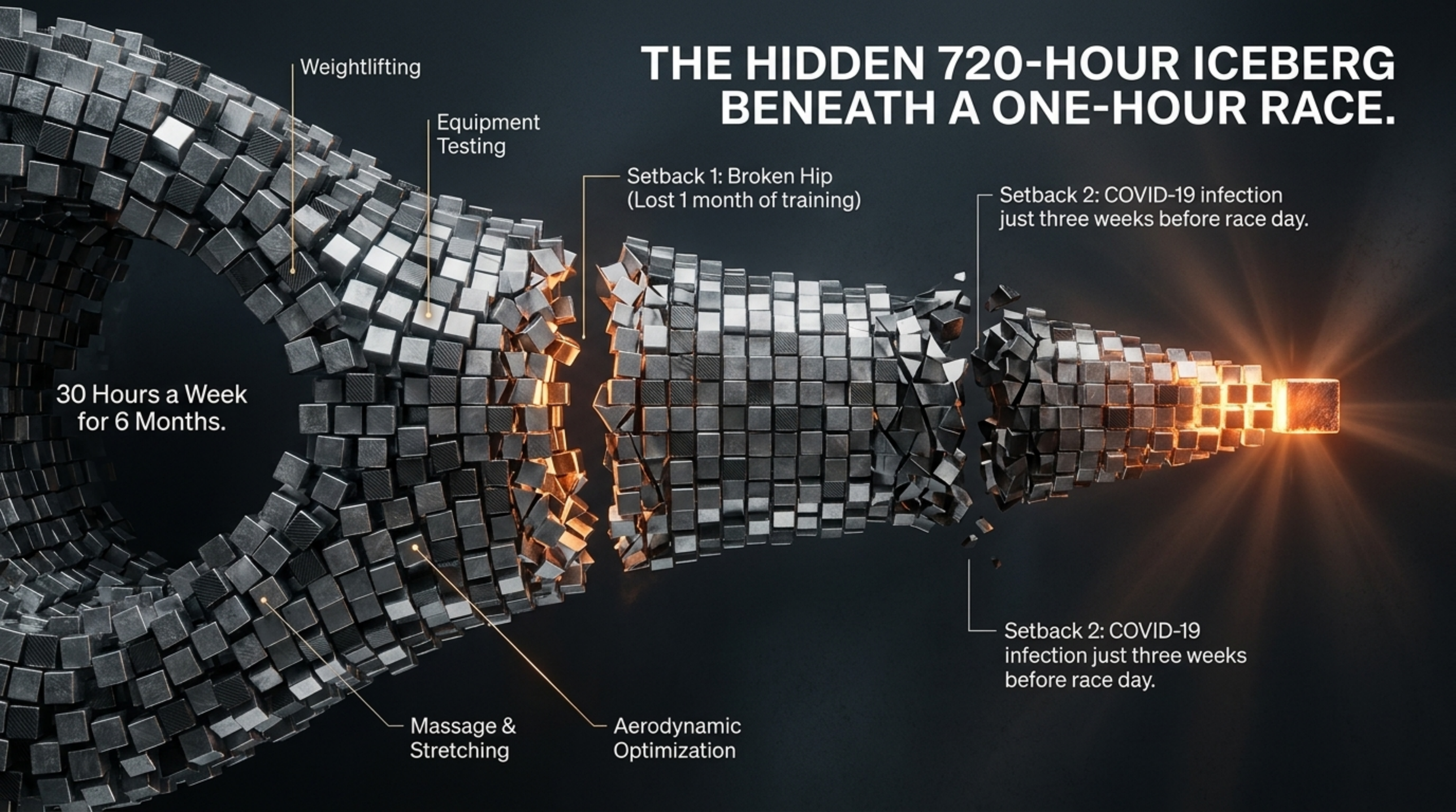
Sustaining the wattage of a burning filament for 3,600 seconds.



Power = Continuous Watts.

In velodrome racing, human effort is measured in wattage—exactly like a light bulb.

Breaking the record required the biological engine to burn bright and steady without flickering for an entire hour.


THE HIDDEN 720-HOUR ICEBERG BENEATH A ONE-HOUR RACE.
Weightlifting
Equipment Testing
Setback 1: Broken Hip (Lost 1 month of training)
Setback 2: COVID-19 infection just three weeks before race day.
30 Hours a Week for 6 Months.
Setback 2: COVID-19 infection just three weeks before race day.
Massage & Stretching
Aerodynamic Optimization

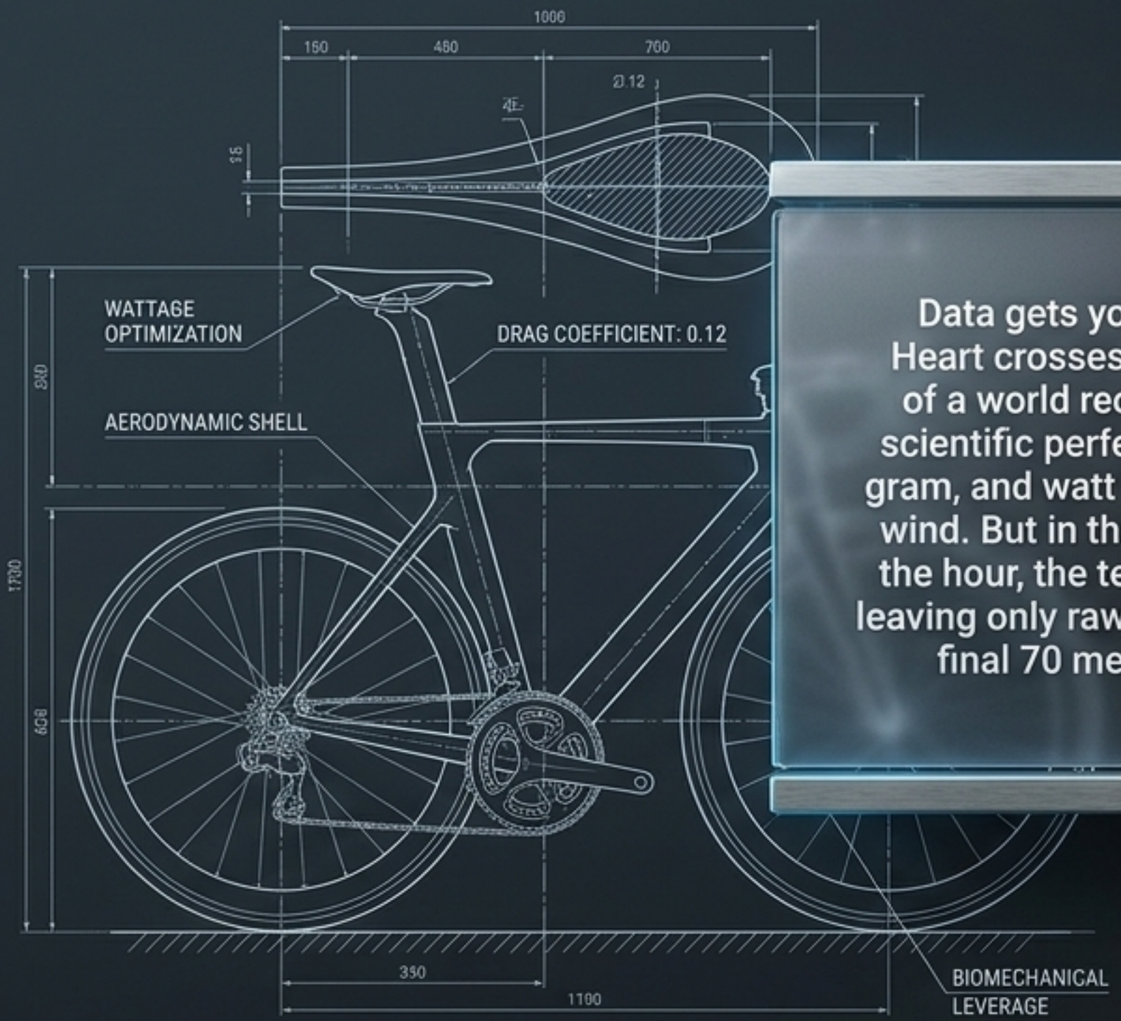
Minute 57: When the science completely collapsed.

Riders are forbidden from having computers or speedometers on the bike. They rely entirely on trackside support holding up timecards.

Tied with the world record.
Three minutes remaining. The support team, overwhelmed by the excitement, forgets to show the timecards.

Cramping begins.
The data feed is gone. Only a blind, agonizing sprint to the finish remains.

THE SCIENCE



THE HUMAN

Data gets you to the starting line. Heart crosses the finish. The pursuit of a world record requires absolute scientific perfection. Every millimeter, gram, and watt is calculated to beat the wind. But in the final, blind minutes of the hour, the technology fades away—leaving only raw human grit to pull those final 70 meters out of the dark.


47.43 Kilometers
The new standard for human endurance.
Peter Megdal bypassed a broken hip, a COVID infection, and the agony of the Hour to redefine what is possible in the 60-64 age category.