EXPLORATION TO CHANGE the WORLD
An idea born in Switzerland

EXPLORATION TO CHANGE the WORLD

We flew 40,000KM WITHOUT FUEL

A first for energy
Take it further!

Solar Impulse has flown more than 49,000 kilometers without fuel, but with an inexhaustible supply of energy and inspiration. This is a historic day for Captain Piccard and the Solar Impulse team, but it is also a historic day for humanity. You may be ending your around the world flight today, but the journey to a more sustainable world is just beginning. The Solar Impulse team is helping to pilot us to that future.

BAN KI-MOON, UN SECRETARY-GENERAL
SOLAR IMPULSE
AN AMBASSADOR FOR A CLEAN FUTURE

One could easily imagine oneself in a Jules Verne novel: a team wanting to promote renewable energies sets off around the world in a solar airplane, aiming to fly without fuel or pollution...

A new utopia? A great science fiction scenario? On the contrary, an innovative technological challenge! A project ambitious enough to arouse the emotions and unleash passions: to harness clean and renewable energies and use them freely to fly day and night.

Is it possible to invent a more responsible future? The only way to find out is to try...with the necessary means. By writing new pages of aviation history using solar energy, Solar Impulse is demonstrating the enormous potential of clean technologies for energy saving and renewable energy production.

“SOLAR IMPULSE
AN AMBASSADOR FOR A CLEAN FUTURE

H.S.H. Prince Albert II of Monaco
“A technological and human adventure that encapsulates the challenges of the 21st century and shows change is possible.”

James Cameron
“A great way to attract attention to the issue of solar energy.”

“A WEAPON [...] TO SHOW THE NEED TO POWER OUR WORLD ON CLEAN ENERGY” SIR RICHARD BRANSON
PIONEERING SPIRIT

EXPLORING THE UNKNOWN

With each of their great “firsts”, the adventurers of the last century constantly pushed back the limits of the impossible. Today, the drive to make new discoveries must go on, with the aim of improving quality of life on our planet.

“The question now is not so much whether humans can go even further afield and populate other planets, but rather how to organize things so that life on Earth becomes more worthy of living.” wrote Auguste Piccard in 1931.

In line with the Piccard Family tradition of scientific exploration and protection of the environment, Solar Impulse wants to demonstrate that clean technologies can achieve impossible goals. If an airplane can fly day and night with no fuel, everybody could use these same technologies on the ground to save natural resources.

One of our ambitions with Solar Impulse is to challenge conventional thinking to inspire innovation, hope and action among citizens and key opinion leaders.

"A GIANT STEP FORWARD SENDING A STRONG MESSAGE TO PEOPLE AROUND THE WORLD"

BAN KI-MOON
THE PILOTS

THE FLYING EXPLORERS

In an unpressurized and unheated cockpit for very long flight durations, will have to demonstrate outstanding endurance and vigilance in spite of extreme conditions.

**BERTRAND PICCARD**
A medical doctor, explorer and global influencer, achieved the first ever non-stop round-the-world balloon flight. Initiator of Solar Impulse, he brought together the partners to fund this project. Linking science with adventure to promote clean technologies, he develops the project’s philosophy and outlines its symbolic and political reach.

**ANDRÉ BORSCHBERG**
An engineer by education, and savvy entrepreneur, André Borschberg has solid experience in creating and managing companies, as well as in flying. As co-founder of Solar Impulse, his passion for aviation and his interest in innovative solutions have brought him to lead the technical team and develop the strategy to design and build the Solar Impulse airplanes.

THE SYNERGY BETWEEN THESE TWO MEN IS A KEY SUCCESS FACTOR OF THE PROJECT AS WELL AS AN APPEALING HUMAN STORY

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**André by Bertrand**
“I, who have always done things by intuition and imagination, found myself beside an entrepreneur with an impressive capacity to work and think ahead. Our association made the perfect equation: 1 + 1 = 3 which resulted in Solar Impulse.”

**Bertrand by André**
“Bertrand is a pioneer, but not a dreamer. He has a disconcerting way of thinking: Always going beyond common assumptions. But isn’t that the only way to reach the impossible?”

---

**Human endurance**
for a flight lasting 5 consecutive days and nights

**Tailor-made autopilot**
incorporating a flight-envelope monitoring system capable of alerting the pilot through vibrations on his arms

**Tests of vigilance**
carried out 4 times a day

**Fatigue management**
through self-hypnosis and meditation techniques

**Daily requirement**
for nourishment
2.4 kg (5.2 lbs.) of food, 2.5 l (84.5 oz.) of water and 1 l (33.8 oz.) of sports drinks

**Intelligent nylon fiber**
used in pilot’s clothing for a stable body temperature

**Living space of 3.8 m³**
fitted with a couchette seat with integrated toilet

**Resting strategy**
about 12 x 20 mins during a 24h cycle over unpopulated areas

**Tests of vigilance**
carried out 4 times a day

**Live satellite connection**
to the Mission Control Center
THE PLANE
FLYING LABORATORY
What major civil and military aircraft makers thought impossible has been achieved by the ingenuity of the Solar Impulse team.

A REVOLUTION
A MAJOR ADVANCE IN MATERIALS, LIGHTWEIGHT TECHNOLOGY AND ENERGY EFFICIENCY DEMONSTRATING THE POTENTIAL OF CLEAN TECHNOLOGY

Between the vision and its implementation, there are numerous challenges to be met. However, it is extremely important to transform ideas into reality.

**Weight**
- Weight of a family car: 2,300 kg (5,070 lbs)

**Unpressurized and unheated cockpit**
- for a solo pilot

**Maximum power**
- 4 engines of 13.5 kw (17.4 hp)

**Average power over 24 h**
- of a small motorcycle

**17,248 photovoltaic solar cells**
- only 135 microns thick, as fine as a hair

**Wingspan**
- of a B-747 Jumbo Jet: 72 m (236 ft)

**Maximum indicated air speed**
- 90 km/h (49 kts)

**Maximum cruising altitude**
- 8,500 m (28,000 ft)

**Maximum indicated air speed**
- of 90 km/h (49 kts)
**THE MILESTONES**

**AROUND THE WORLD WITH NO FUEL**

40,000 km only powered by solar energy from Abu Dhabi, our departure and arrival Host City, to Oman, India, Myanmar, China, Japan, U.S.A, back to Europe and Abu Dhabi. As with all great firsts, there are no benchmarks. Solar Impulse 2 will have to do what no airplane has ever done before: fly days and nights without using any fuel to cross oceans from one continent to the next. Strategies have to be invented from scratch.

**MISSION CONTROL CENTER**

**CAPCOM** is responsible for direct voice communications with the pilot.

**FLIGHT DIRECTOR** manages the team, and together with the pilots, takes the main strategic decisions.

**MISSION ENGINEERS** draw up the flight plan and monitor the aircraft’s technical data.

**MATHEMATICIANS** calculate the flight parameters, taking into account meteorological data, amount of sunshine and air traffic restrictions.

**METEOROLOGISTS** analyze the weather forecasts to find a favorable routing for the flight.

**AIR TRAFFIC CONTROLLERS** coordinate the flight trajectory with regional control centers.

**MISSION ENGINEERS** draw up the flight plan and monitor the aircraft’s technical data.

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**AIR TRAFFIC CONTROLLERS** coordinate the flight trajectory with regional control centers.
After months of intense preparation, training and simulations, Solar Impulse 2 was ready to attempt the first solar flight around the world. On 9 March 2015, André Borschberg took off at SI2’s controls for the first stage of this round-the-world odyssey. Bertrand Piccard joined him in Oman, took over the controls and continued the journey across the Arabian Sea. The two of them then took turns flying this single-seat experimental prototype with virtually unlimited endurance. As they encountered new horizons and each staging post dotted along their way, a whole team was beside them sharing the epic challenge. Their job: to anticipate and develop strategies, to prepare, track and receive the aircraft, and not least to communicate and spread news about the venture.
LEG 2 / MUSCAT TO AHMEDABAD

AN ENTHUSIASTIC CROWD

During this leg, Bertrand flew across the Arabian Sea and part of Pakistan, before finally performing a holding pattern near Ahmedabad while he waited for permission to land. It wasn’t by chance that our plane chose this region as a staging-post to spread its message on clean technologies. Gujarat actively promotes sustainable development, generating about 15% of India’s renewable energy. It’s India’s lead state for solar installations. This was reflected in the enthusiasm and curiosity shown by the thousands of Indian people flocking to the entrance of the tent to see Si2. Most of them had to wait for hours to take pictures of themselves standing proudly beside this aircraft of the future.

“SOLAR-POWERED PLANE TAKES OFF FROM OMAN, HEADS TO INDIA”

HERALD TRIBUNE
LEG 3 / AHMEDABAD TO VARANASI

NIGHT-STOP IN A HOLY CITY

“Imagine energy reserves increasing during flight! Siz’s batteries were only half full when I took off this morning – and now they’re fully charged for tomorrow’s flight”, exclaimed André on landing in Varanasi, having thanked the Indian air traffic controllers for their excellent cooperation. A night’s stopover in the holy city, and an opportunity for André to give thanks for life at a prayer and blessing ceremony by the Ganges. The warrior could rest for a few hours. Bertrand and the team were already busy preparing for the next day’s flight. No time that evening to celebrate the b-day of our Managing Director Gregory Blatt!

"SOLAR PLANE BACK IN QUEST OF LONGEST FLIGHT"
GLORIOUS LANDSCAPES... AND WELCOME!

“Behind me lie the Bay of Bengal and the Meghna Delta, where floodplains inter-sperse with meanders to create one of the most beautiful sights nature can offer. I flew along at over 200km/h thanks to one of my friendly jet-streams. And before me lies a country that rejoices in discovering that clean technologies and solar energy can be a source of social cohesion, peace and economic development.” Bertrand made two consecutive flights – from India to Mandalay, and then on to China. He was looking forward to flying over the local temples at daybreak, but departure was brought forward to 3.30 a.m. – in inky darkness. “The sight of all the floodlit temples, like specks of gold scattered along my flight-path, quickly made me forget my disappointment and offered me an even more spectacular sight than by day.”
LE 5 / MANDALAY TO CHONGQING

FIRST SOLAR WINGS OVER CHINA

The first solar airplane ever to enter China. Flying above the mountainous Chinese provinces of Yunnan and Sichuan required the pilot to perform a steep climb at the beginning of the flight. As he had to fly continuously at high altitude, facing temperatures as low as -20 °C, pilot Bertrand Piccard had to wear an oxygen mask in the 3.8 m³ unpressurized cockpit. In addition, tackling the strong low-level winds in Chongqing made this leg one of the most challenging since the start of the round-the-world flight. No headwind could have prevented Bertrand and André from telling the 1,600 students of Bashu Secondary School about their adventure and their passion. Yet the weather was going to impose its law and make them wait there for several weeks.

Bertrand Piccard

It is always an immense pleasure to meet with schools in the countries we visit.

9:51AM – 31 Mar 2015

Schindler Elevator

The Solar Impulse mission proves that when we work together, big ideas can change the world.
LEG 6 / CHONGQING TO NANJING

A TEAM FLIGHT, NOT JUST MINE

“Held up for 3 weeks by the weather in Chongqing, we were beginning to despair of ever finding a good slot to reach Nanjing. The meanders of the Yangtze, disappearing and reappearing behind each summit; wooded mountains, sculpted by sheer cliffs and deep gorges; thousands of tiny lakes reflecting the setting sun; and here and there enormous cities of several million inhabitants, whose names I’ve never heard before. And just beyond the lights of Nanjing, a triumphant welcome from the team, in proportion with their hopes and their fears of not seeing the aircraft arrive. A moment of shared happiness.” Bertrand

@Solar_Impulse
Flight 6 from Chongqing is probably the trickiest so far in terms of weather!
4:30AM – 21 Apr 2015

Bertrand Piccard
Just behind the lights of Nanjing, a triumphant welcome from the team, proportional to the length of their wait, and to their fear of not seeing the aircraft arrive.

“SUN-POWERED PLANE MAKES HISTORY!” DAILY SUN

André Borschberg
The Chinese Association for Science and Technology saw the potential of Solar Impulse to inspire young generations.
LEG 7 /  
NANJING TO NAGOYA

HEADWINDS

In Nanjing and Monaco, the team was preparing to attempt the Pacific crossing. On 31 May, Andre set off towards Hawaii. After 44 hours of flight, the suddenly pessimistic weather forecasts forced the mission control center to divert Si2 to Japan. The bad weather front caught up with the plane and heavy rain fell on the runway just after the landing. Then began the team's race against time to secure the aircraft against gale-force winds and erect the mobile hangar. After a long night's efforts, the 20 ground crew had the situation under control. The aircraft was under shelter, but it had absorbed water and the engineers were concerned. The next day, careful checks of all the systems began, but the uncooperative weather was destined to keep Si2 glued to the ground for another month.

Bertrand Piccard
Diplomatic ballet worthy of thriller to get clearance to land and import our mobile hangar.

André Borschberg
Landing in Nagoya Japan was not planned but there must be a good reason why our path has brought us here today. 11:20AM – 1 Jun 2015

Pharrell Williams
Solar Impulse is fighting climate change with the first solar-powered flight around the world. 10:43PM – 12 May 2015

“SOLAR IMPULSE
SUN-POWERED PLANE
LANDS IN JAPAN AFTER WEATHER DIVERSION”

ABC-7.COM

André Borschberg
Flight 7
Flight Time 44h 10m
Distance 2,942 km
Max Altitude 8,634 m
Flight Simulations 2,300
Batteries Charge at Arrival 28.3%
Solar Energy Produced 958 kWh
FAI World Records 3
THE LONGEST SOLO FLIGHT IN AN AIRPLANE

For the first 7 hours, it was still possible to return to Nagoya if a problem arose. But not after that... Not long after take-off, the system monitoring the automatic pilot gave up the ghost. For the engineers, an absolute "no-go". The weather window was the best we’d seen for 2 months, and the vital functions of the aircraft were in the green. You can’t cross an ocean without losing sight of the coast, even if the prospect is frightening. The whole team had lessons to learn... including André, facing 5 days and nights before he could hope to land. In these extreme conditions, his exceptional concentration enabled him to fly longer without fuel than any jet plane in history!

During the fourth day I felt very tired, having climbed the equivalent altitude of Mount Everest four times.

Keeping my fingers crossed for André Borschberg! What you guys are achieving is just unbelievable!

I’m so proud to be a patron for Solar Impulse & celebrate history today! Thank you team! Well done!

Solar Impulse reaches Hawaii, shatters records in historic Pacific Flight!

"SOLAR IMPULSE 2 REACHES HAWAII, SHATTERS RECORDS IN HISTORIC PACIFIC FLIGHT"
Pushing the limits of technologies by bringing together different domains and aspects of innovation, André built up a team of engineers, and elaborated the mission strategies for the RTW flights.

To prevent the batteries from overheating again, our engineers also integrated a cooling system.

FROM JULY 2015 TO APRIL 2016
SURFING THE UNFORESEEN BREAK
Solar Impulse completed eight flights in July 2015, covering nearly half its journey around the world. Setbacks are part of the challenges faced by any cutting-edge project. During the flight from Nagoya, the batteries overheated. They were damaged and had to be replaced, leading to an unforeseen pause in Hawaii. Protected in an immense hangar and hidden under space blankets, the airplane awaited the season where the days are longer and the nights shorter to get fixed and leave again on its round the world journey.

Without an engaged and motivated team prepared to face all situations and continue the adventure, such a challenge could not be achieved.

“This flight is not a race against the clock. The goal is to demonstrate what is in fact feasible and to explore and find ways of doing it”

ANDRÉ BORSCHBERG
LEG 9 / HAWAII TO SAN FRANCISCO

THE GOLDEN FLIGHT

It took Amelia Earhart 18 hours to fly solo from Hawaii to California. 81 years later, it took Bertrand Piccard more than 62 hours to follow her footsteps but this time without fuel. These two pioneers were carried by the desire to explore the unknown, push human adventure to its limits and a belief that what’s impossible today might become normal tomorrow. Solar Impulse was gliding over the Pacific on Earth Day, a powerful symbol for the 175 political leaders gathered to sign the Paris Agreement. Ban Ki-Moon’s live broadcast with the aircraft resonated in their ears. Bertrand Piccard landed in the heart of the Silicon Valley, land of the NASA astronauts who inspired him to become an explorer, encouraging us to enter the clean technology-era and take on the environmental challenges of our time.

A meaningful adventure
With this new expedition, Bertrand shows how scientific exploration can help protect the environment and improve quality of life. A family tradition passed down through three Piccard generations.

“UNLIMITED ENERGY FOR SOLAR IMPULSE IS COMING UP. IF HUMANKIND WAS CLEVERER, IT COULD ALSO BE THE ENERGY FOR OUR WORLD…”  BERTRAND PICCARD
HOT TOPIC
UNDER THE SUN

Goodbye San Francisco, the heart of Silicon Valley, where the pilots met high-profile innovators and tech entrepreneurs, explorers also devoted to changing the rules of the game.

At the controls, André Borschberg reconnected with the emotions of his record-breaking oceanic flight. On his way to Phoenix, he flew over places where many pioneering ideas have been developed: the SpaceX airbase and the Mojave Desert - famous for its experimental aviation stories.

Solar Impulse touched down at Goodyear airport amidst a heated debate in Arizona. This debate centered on the “right” price a utility should pay for home-generated solar power that is fed back into its system. “Net metering” directly affects the economic viability of distributed solar generation and therefore the future growth of clean technologies.

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**Sun Power**
Pilot who broke records for longest solo & solar flight flies to Phoenix in zero fuel plane.

**UN Climate Action**
Solar Impulse has arrived safely in Phoenix after zero-carbon flight from San Francisco.

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**Christiana Figueres**
Executive Secretary of the UN Framework Convention on Climate Change

How cool are these two guys? My heroes!!
THE CALM AFTER THE TORNADO

It took 48 hours to adapt to unpredictable weather across the U.S., devise multiple new strategies to cross the country, scout out and find a new host airport, empty an entire hangar to house the 72 meters of our solar wings, organize the arrival of our team and reunite everyone in an organizational whirlwind. All this was successfully accomplished to welcome Bertrand and a silent, serene, zero-fuel airplane, confident in its unlimited endurance, on the runways of Tulsa, the “black gold” capital of Oklahoma. The world can indeed live at different paces!

Marion Cotillard
Two pioneers flying around the world in a solar airplane, to promote clean technologies. Bertrand Piccard, André Borschberg I admire you so much! Total respect and fascination!

J.-F. Lichtenstern,
Consul General of Switzerland in L.A.
SI2 is an echo of the Swiss innovation spirit. It repeats in the pilots’ pioneering and historical quest for a better world, based on clean technology. We’re so proud to be Swiss!

Emotion at the heart of the adventure for a crafty team which perfectly managed to anticipate, question the strategy, and get ready for all the alternatives to secure the airplane arriving in the middle of Tornado Alley.

WHO SAID FOSSIL FUELS COULDN’T PLAY A ROLE IN THE CLEAN-TECH REVOLUTION?

“A SOLAR POWERED AIRPLANE IS MADE AT 99% FROM OIL-DERIVED PRODUCTS”
ANDRÉ BORSCHBERG

<table>
<thead>
<tr>
<th>Pilot</th>
<th>Bertrand Piccard</th>
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<tbody>
<tr>
<td>Flight</td>
<td>1</td>
</tr>
<tr>
<td>Flight Time</td>
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<td>Solar Energy Produced</td>
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FLYING THE “WRIGHT” WAY

On his way to Dayton, Ohio, hometown of Wilbur and Orville Wright, André Borschberg pays tribute to pioneering spirit, 113 years after the two brothers succeeded in flying the first power-driven aircraft heavier than air. To develop their wing wrapping concept, the two inventors used their intuition and observation of nature to think out of the box. They defied current knowledge at a time where all experts said it would be impossible. When in 1903, their achievement marked the beginning of modern aviation, they did not suspect that a century later, two pioneers would follow in their footsteps, rejecting all dogmas to fly an airplane around the world without a drop of fuel. This flight reunites explorers who defied the impossible to give the world hope, audacious men who believed in their dream enough to make it a reality.

“YOUR MISSION IS INSPIRING AND IT GIVES WORLD CITIZENS A REASON TO LOOK ‘UP’ AGAIN!”

STEPHEN WRIGHT

“THE ACCOMPLISHMENTS OF PIONEERS ARE THE HEARTBEAT OF HUMANITY... THEY MAKE US DREAM BIGGER AND SMILE BROADLY. YOU AND THE TEAM ARE MAKING HISTORY”

AMANDA WRIGHT
THE TAKE-OFF THAT FELL FLAT!

When you see takeoffs, landings, safe flights from Solar Impulse, you might have the impression it’s easy. The unexpected is always part of an adventure as challenging as this one. Since Si2 is made of carbon fiber, even a gentle pressure from the mobile hangar fabric could potentially create damage. So, when a brief failure of the mobile hangar fan caused the top part of the structure to deflate on the fuselage and the wings, André challenged his team of engineers to make sure the load applied onto the aircraft did not exceed its limits. This would have triggered a potential risk of breaking in the air... At the controls, Bertrand dedicated this flight to the engineers who spent hours of calculations during the night, in constant exchange between Ohio and Switzerland, to make sure the plane was safe and sound after the incident. What a relief for the whole team after a tense afternoon and night!

@André Borschberg

We couldn’t have done it without our engineers who worked all night to check Si2. You guys rock!

Bertrand Piccard

Choose to be an explorer and a pioneer. Embrace curiosity everyday of your life. By believing in your dreams strong enough, you can make them a reality.
LEG 14 / LEHIGH VALLEY TO NEW YORK

A WAVE OF LIBERTY

“On the wings of the birds, I write your name," said the poet. By flapping the solar airplane’s giant wings over the Statue of Liberty, André Borschberg did more than make the whole team’s dream come true. This iconic flight added another building block to the symbol of freedom this monument has been embodying for 130 years. It echoes the risk-taking, the pioneering spirit, the adventure and the craving for progress of all those brought to her feet who dared to embrace the unknown in search of a brighter future. This silent albatross flying over New York, 100 years after the Wright Brothers and free of fuel, offers new perspectives and inspires new ways of thinking about the world.

André Borschberg
“Crossing the United States was a true pioneering adventure; each leg required a high level of flexibility. We had to face many constraints, but we overcame every challenge by pushing back our own boundaries made us grow stronger and wiser for the next step. Flying around the Statue of Liberty was such a rewarding way to complete our adventure on this continent!”

© Bertrand Piccard

“Around the Statue of Liberty, the Solar Impulse team is celebrating the freedom of flying perpetually without fuel. This is the liberty offered to us by modern clean technologies. It is a taste of what the world can become: clean, respectful, efficient and environmentally friendly. Freedom should allow ourselves to think in all directions and imagine the solutions to invent a better future.”
“MY SOUL IS IN THE SKY”

William Shakespeare could not imagine what human perseverance and scientific exploration would achieve in 2016. Yet, Bertrand’s soul was thousands of feet over the Atlantic during his Midsummer Night’s dream.

For 3 days and 3 nights, the solar airplane navigated his way between the clouds from New York to Seville, the Spanish city that saw the departure of Christopher Columbus for the Americas. At that time, the gap between the old and the new world was geographic. Today, it is energetic and a question of state of mind: fossil fuel and polluting emissions against clean technologies.

As the sun reached its peak, the project’s message resonated the most. By announcing their intention to create the International Committee of Clean Technologies, the pilots opened a whole new perspective for Solar Impulse’s legacy. Taking Bertrand’s vision a step further to find solutions for improving the quality of life on Earth.

Bertrand Piccard
“This flight is a call to action and should propel clean techs as much as Charles Lindbergh’s flight in 1927 made commercial aviation take off. We intend to launch the International Committee of Clean Technologies, a non-governmental organization bringing experts together to influence in one voice global decision makers.”

André Borschberg
“The success of this incredible landing after crossing the Atlantic belongs to our partners and fantastic team who made it possible all together. Completing this rite of passage has symbolically confirmed the maturity and reliance of clean technologies, a great historic first in renewable energy!”

Comisión Europea
75% of the historic flight completed to reach Europe. Are you ready to welcome Si2 @ visitsville?
André Borschberg

“Potentially my last flight with Solar Impulse, as Bertrand will make the final leg of the round-the-world: for me the end of this adventure as a pilot. Looking back on those years, the most rewarding has been to set up an incredible team, by empowering and constantly challenging each member, helping them to develop their own potential.”

Bertrand Piccard

“To see André flying over the great pyramids reminds me that there was a time when the sun was worshiped as a God. Today, it should be considered as a powerful source of energy.”

Markus Leitner, Ambassador of Switzerland in Egypt

“Solar Impulse is an idea born in Switzerland, but it was conceived in Egypt! As Bertrand feared to fall short of fuel when he landed there after his non-stop round-the-world balloon flight in 1999, he promised himself to circumnavigate the globe again, but next time without any fuel.”

LEG 16 / SEVILLE TO CAIRO

SOL-RÂ IMPULSE

André Borschberg touched down at Cairo International Airport, after an iconic moment over the Egyptian pyramids, completing a flight of two days and two nights. This flight was probably the last, the conclusion of the round-the-world journey as a pilot before Bertrand takes over for the final leg toward Abu Dhabi.

In one leg across the Mediterranean Sea, the new world of clean technologies met the ancient world. It began with a flyover of the GemaSolar power plant in Spain - the first power plant to have found a way to produce solar electricity day and night - and ended in Egypt, over the last of the seven wonders of the ancient world still standing.

The journey will now go on with the ultimate leg of the adventure, the completion of the circumnavigation to Abu Dhabi, from which the plane took off in March 2015. We are at the gates of the first ever solar round-the-world flight, but there is still a very difficult leg to achieve before being able to say: “We made it.”
For days before the take-off for the final leg, the engineers at the MCC in Monaco struggled to identify a suitable weather window for the flight to Abu Dhabi, despite challenging high temperatures across Saudi Arabia and above-the-limit windy conditions upon take off in Cairo and landing at destination. But the work didn’t stop once the window was found. To bring the plane to its take-off position and escort Bertrand in preparation of his last flight, most of the team helped taxi Si2 to its runway for two hours in the darkness of the night – a last effort and moment of cohesion before the great success. Soon up in the air for 48 hours, it seemed that Bertrand had to fight until the end to deserve seeing his dream come true. Hands firmly gripping the control wheel and unable to drink, eat or sleep during the first night because of harsh turbulence. Nothing was certain until that very last moment when Bertrand finally crossed the line André had departed from in March 2015. Officials, partners, and traditional Emirati musicians and dancers all gathered under the wings upon arrival: relief, happiness and a thirst to celebrate both the accomplishment of a 15 year-old project and a new beginning for clean technologies. As Bertrand said, “We shared a life project, and our lives are not over yet.” To use Churchill’s words, “this is only the end of the beginning”...

### Bertrand Piccard

“We made it. We flew 40,000 km without fuel. It is not only a first in the history of aviation, it is also a first for energy: Now it’s your turn to take it further! Nothing has stopped at the final landing. The creation of the International Committee for Clean Technologies will allow us to go for ‘beyond Solar Impulse’.”

### Martin Schulz

Congrats Bertrand Piccard, André Borschberg and Solar Impulse team for completing this incredible journey around the world! #futureisclean 26 July 2016

### Martin Schulz

“Congrats Bertrand Piccard, André Borschberg and Solar Impulse team for completing this incredible journey around the world! #futureisclean 26 July 2016
WHAT WE CAN ACHIEVE IN THE AIR, ANYONE CAN DO ON THE GROUND

BERTRAND PICCARD

CLEAN REVOLUTION ON THE MOVE

40,000 KM TO...
LAY DOWN A MARKER FOR THE FUTURE

By flying around the world without a drop of fuel, Solar Impulse highlighted the enormous potential of modern technologies to utilize clean energy. The same energy-efficient solutions could already be used in our daily lives, on a larger scale, to help reduce drastically our carbon footprint on Earth. Up to 50%!

THINK OFF THE GRID

Sustainable growth will only come from products that can save energy and protect the environment. Fixing climate change is not an expensive problem requiring financial and behavioral sacrifices, but rather a unique opportunity for profit and job creation. It is possible to bridge ecology and the economy.

Beyond Solar Impulse...

While flying over the Atlantic, Bertrand announced his intention to launch the International Committee of Clean Technologies: a non-governmental organization (NGO) that would regroup the main global actors in the field of clean technologies to bring independent and credible guidance on energy policy to governments and corporations.

THIS IS BERTRAND PICCARD’S CONVICTION. HE CAME UP WITH 7 PRINCIPLES FOR SOLVING CLIMATE CHANGE WITH CLEAN TECHNOLOGIES, LIKE THE ONES ON BOARD SOLAR IMPULSE.

Highlight the solutions instead of the problems

Stop threatening human comfort – no need for sacrifices

Offer both rich and poor countries a share in the returns on investment

Refrain from setting goals without showing how to reach them

Combine regulations with private initiative: we need a legal framework for energy efficiency

Act in the interest of today’s generations and not only for future generations

GO FIND OUT AT FUTUREISCLEAN.ORG
FROM MARCH 2015 TO AUGUST 2016

FACTS AND FIGURES

- **Distance**: 43,000 km
- **Flight Time**: 550 hours = 23 days
- **Solar Energy Produced**: 11,000 kWh
- **Route Simulations**: 17,000

**4 continents, 2 oceans and 3 seas overflown**
- Middle East & Asia
- North America
- Europe
- North Africa
- Pacific Ocean
- Atlantic Ocean
- Arabian Sea
- Mediterranean Sea
- Red Sea

**Iconic places along the way**
- The Sheikh Zayed Grand Mosque in Abu Dhabi
- The Ganges River in Varanasi, India
- The Temples of Mandalay
- The Yangtze River in Chongqing
- The Bund and Pudong in Shanghai
- Waikiki Beach in Hawaii
- The Golden Gate Bridge in San Francisco
- The Statue of Liberty in New York
- The Pyramids in Cairo

**WORLD RECORDS**

**Key world records**
- Distance and duration record for André Borschberg’s flight over the Pacific Ocean (from Japan to Hawaii), 8,924 km in 5 days and 5 nights, 117 hours and 52 minutes.
- Gain of altitude record for Bertrand Piccard’s flight over the Pacific Ocean (from New York to Seville), 5,739 km and 8,535 m respectively.

**Longest solo flight**
- Longest solo flight in an airplane of any kind accomplished by André Borschberg during the flight between Japan and Hawaii.

**OUTREACH**

**Digital**
- 22 millions page views, 3.5 millions unique users and 12,106 questions asked by the audience on Solar Impulse website
- 30 Live interviews from the cockpit
- 25 millions Live videos views from cross platforms (YouTube, Livestream, Periscope)
- 2,570,439 Likes, 274,790 Shares, 133,290 Comments on Facebook
- 1,150 billion impressions and 150,000 posts on Twitter with #futureisclean

**Political**
- Ban Ki-Moon, United Nations Secretary General
- Martin Schulz, European Parliament President
- Maroš Šefcovic, Vice President of the European Commission
- Christina Figueres, Executive Secretary of the UN Framework Convention on Climate Change
- HSH Prince Albert II of Monaco
- Guy Parmelin, Swiss Federal Councillor

**Educational**
- Commencement Speech
- TED Ed lesson “How to fly around the world without fuel?”
- Hangout on Air with Georgia Tech University

**Among our followers**
- Several supportive posts from personalities: Marion Cotillard, Leonardo Di Caprio, Gisele Bundchen, Akon, Sir Richard Branson

**SINCE 2003**

- 15 years project
- 10 years of design and calculation
- 19 FAI ratifications in total (11 pending)

**10 years of design and calculation**
- 2 experimental airplanes
- HB-SIA
- HB-SIB

**170 millions raised in total**
- 170 millions raised in total
- $15 years project