

## Media alert

April 21, 2016

# ALTRAN GUIDES FIRST-EVER ROUND-THE-WORLD SOLAR FLIGHT

## Solar Impulse 2 (Si2) to resume round-the-world tour

Global engineering consultancy Altran has partnered with Solar Impulse 2 (Si2) on the first-ever round-the-world solar flight. Flying around the globe aboard this silent airplane propelled solely by the energy of the sun, Bertrand Piccard and André Borschberg are making history with clean technologies. Altran has been involved in this work for 13 years, making the group the longest-running partner in the project.

*“Our engineers have developed unique solutions to manage the complexity of this project, without which Solar Impulse could not fly. Beyond the technologies and expertise that we provide, Altran is proud to be part of a real human adventure that is committed to the promotion of energy-efficient technologies”* stated Dominique Cerutti, Chairman and CEO of Altran.

After breaking two world records—the longest solo flight and the furthest distance flown by a solar plane—Si2 is traveling around the world, departing from Hawaii as soon as weather conditions allow, and flying toward the U.S. West Coast, most likely landing in San Francisco (a trip exceeding 3,000 miles) after a projected four-day flight. The objective is to return to Abu Dhabi after traveling the U.S., crossing the Atlantic, Europe or North Africa.

*“Altran’s contribution, especially through the analysis of massive amounts of data, is critical to guide Solar Impulse through its round-the-world flight. The massive computation is a key factor in developing and defining our flight strategies”* stated André Borschberg, CEO & Co-founder of Solar Impulse.

### Altran’s Expertise Makes Si2 Adventure Possible

*“Altran’s expertise in intensive data computing allowed Solar Impulse routing preparation, which required nearly 3 million routes and covered more than 45,000 billion km in during virtual flights since the start of the project”* stated Christophe Béseau, Director of the Simulation Department, Altran.

The Altran multinational team consists of six engineers—from France, Italy and Spain—four of whom are based in the Mission Control Center (MCC) in Monaco and work on this project daily. Since the project’s launch, 43 Altran engineers from six different nationalities have been involved. Altran’s team of engineers provides support in three critical areas:

- Development of the **flight strategy** and establishment of flight plan patterns. Since the beginning of the project, 100 billion flight plans were delivered, making it one of Altran's largest massive computation projects to date.
- Development of the stability augmentation system to assist the pilot during flights of extended duration.
- Management of **security analysis** to ensure the plan satisfies authority requirements to obtain certifications and "permit to fly."

*"Solar Impulse's main objective, shared with our partners, is to demonstrate that clean technologies can already achieve the impossible and to encourage everyone to use the exact same energy-efficient technologies every day"* added Bertrand Piccard, Chairman & Initiator of Solar Impulse.

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Read more about Solar Impulse : <http://www.solarimpulse.com/>

#### About Altran

As a global leader in innovation and high-tech engineering consulting, Altran offers its clients a new way to innovate by developing the products and services of tomorrow. Altran works alongside its clients on every link in the value chain of their project, from conception to industrialization. For over 30 years, the group has provided its expertise to key players in the aerospace, automotive, defense, energy, finance, life sciences, railway and telecoms sectors, among others. In 2015, the Altran group generated revenues of €1.945bn. With a headcount of nearly 26,000 employees, Altran has a presence in more than 20 countries.

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