



**Green Flying:**  
Reduction of  
specific CO<sub>2</sub>  
emissions.



## Cargo Climate Information.

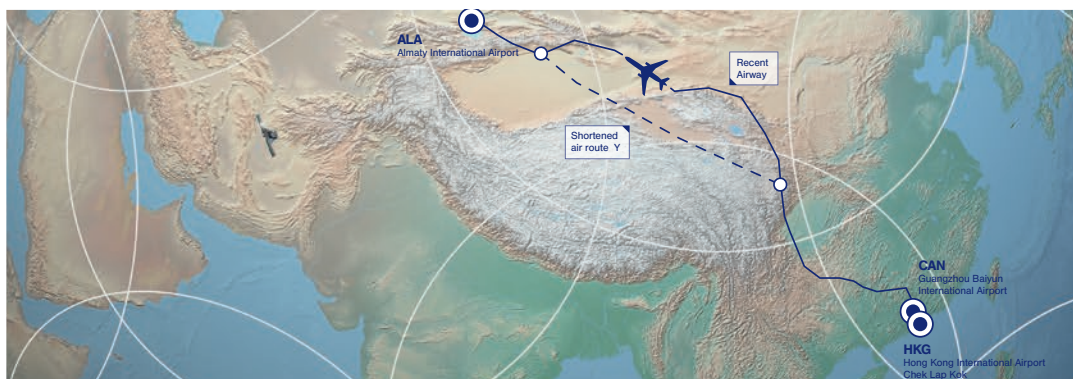
### Digital data transmission reduces flight emissions – Lufthansa Cargo saves kerosene with SATCOM.

Reducing CO<sub>2</sub> emissions on a long-term basis is a top priority at Lufthansa Cargo. As an airline, measures aimed at saving kerosene are our greatest leverage. That is why we at Lufthansa Cargo are investing in the best technology available on board our aircraft. By introducing Satellite Communication (SATCOM), we are able to shorten flight routes and save kerosene.

SATCOM ensures our ability to communicate with aircraft globally, even in the farthest reaches of the planet and over the world's oceans. This is made possible by determining the position of and communicating with aircraft via satellite – instead of using conventional radar and radio methods, which do not allow coverage in areas with poor infrastructure. As a result, flight crews can use SATCOM to communicate with air traffic control and the Lufthansa Cargo operations control center.

Thanks to SATCOM, we at Lufthansa Cargo are already benefiting from significantly shorter flight routes over central China. As the connection between Guangzhou/Hong Kong and Almaty leads planes over isolated territory, Lufthansa Cargo had so far to fly a longer route of more than 30 minutes. SATCOM allows us to shorten this route, resulting in a significant reduction in kerosene consumption. Equipping the entire fleet by mid-2013 will reduce annual kerosene consumption on this route alone, with its ten flights per week, by more than 2,000 tons. That corresponds to a reduction in CO<sub>2</sub> emissions of more than 6,300 tons – or 46 flights from Frankfurt to Sharjah.

In the future, we will continue to focus on reducing CO<sub>2</sub> emissions by optimizing flight routes. This measure, part of our “Fuel Efficiency” project, brings us one step closer to the target of reducing specific CO<sub>2</sub> emissions by 25 percent until 2020 against the 2005 baseline.



**Lufthansa Cargo**  
Networking the world.



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