FIA FORMULA E CHAMPIONSHIP
LIFE CYCLE ASSESSMENT
SUSTAINABLE IMPACTS OF THE
INAUGURAL SEASON 2014-2015
WHO ARE QUANTIS?

Quantis are **globally recognised experts** in Sustainability and Life Cycle Assessment.

Our values

INNOVATION | QUALITY | COOPERATION | INTEGRITY | COMMITMENT

Our team

30 | 1 | 10 | 5

Switzerland | Germany | France | United-States

Our partners

The most advanced research centers

#DriveTheFuture
Life Cycle Assessment (LCA) is at the forefront of sustainable studies. It takes a holistic view of the production and execution of an event, assessing its impact from the cradle to the grave.

LCA performs a comprehensive data collection, calculating the footprint not only in terms of carbon, but within categories to differentiate environmental impacts on all areas of Formula E activities.

LCA highlights with measured scientific results the key areas in which the Championship has the biggest impacts, so that decisive action can be taken to reduce our footprint in the future.
ASSESSED AREAS OF FORMULA E ACTIVITY

- Development and Production of the cars
- Event logistics and management
- Infrastructure and Overlay
- Spectator Travel
- Freight
- Business Travel
- Energy
GLOBAL FOOTPRINT OF THE CHAMPIONSHIP: 25’000t CO$_2$e
WHAT DOES 25,000T CO₂E LOOK LIKE?

This number is equivalent to:

- The electric consumption of 11,000 UK households per annum.
- 3,400 trips around the Earth by Car.
- or 110 flights from London to Chicago with 320 passengers aboard.

The most impacting areas of FE activity are:

#DrivetheFuture
Freight is our highest contributing environmental impact. This is because we are a worldwide Championship, and the cars and race equipment has to be moved around the globe to each race location.

Air freight has the highest impact compared to road, train and boat freight.

For safety reasons the car batteries must be transported by air freight, making this emission unavoidable.
Business travel is a high contributing factor to our carbon footprint.

A lot of pre planning and organisation is required by our team in all of our race locations all over the globe, and race day execution requires the team to travel to the trackside.
Overall our energy consumption was kept as low as possible, however because we are a temporary event, we have to bring and dismantle the race infrastructure and supply sufficient energy, which as any event has an impact.

In Putrajaya a substantial energy consumption was due to a large temporary structure which was linked to the grid 3 weeks before the race (usually 3 days before the event).
IDENTIFIED AREAS OF IMPROVEMENT

**Logistics and Car performance:**
- Ensure low impact car improvements by teams
- Optimise calendar with enough time between races to lower freight impact

**Event:**
- Propose more Vegetarian options
- Aquafuel energy feedback to local grid
- Offset emissions

**Spectators:**
- Increase environmental awareness
- Cleanspace app
- Customer competition associated with CO₂
- Discount on local and clean travel to event

#DrivetheFuture
Formula E are acutely aware of our sustainable impacts as a company.

Our highest contributing factors to our carbon footprint are freight, business travel and energy.

Formula E is committed to reduce our footprint as much as possible, and has implemented measures for the future to assure the improvement of our social and environmental responsibility.

Formula E will continue to work with Quantis in Season 2 for assisting the Championship towards a more sustainable future.

“Creating a world of sustainable mobility through entertainment.”

-Alejandro Agag, CEO of Formula E