Desafío
100km 1litro

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MIT Boston

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The challenge

100km with only 1 litre of petrol, how fast will you make it?

- Cover the distance of 100 km with only 1 litre of petrol (235 MPG)
- Mix of collaboration, competition and fun
- Very energy efficient module for mobility available for all
Students build a prototype sports car

- 2 seats
- Open top (safety)
- Luggage boot (small)
- Minimum weight: 225 kg (496 lb)
- + safety belt
- + roll bar
Module for energy efficient mobility

Dart Goggomobil 1959
Be prepared for « peak oil »

- 1st half “easy” production
- 2nd half “difficult” production

Billions of Oil Barrels

1859 - 2150 Year
Be prepared for « peak oil »

![Graph showing oil production over time, indicating the current point as 'We are here', with two phases labeled as '1st half easy production' and '2nd half difficult production'.](image-url)
Vehicle building information kit

Information ideally needed to build and modify an Open Hardware vehicle (or device):

**What**
- Design (Plans, BOM...)

**Why**
- Hypothesis made and reasons

**How**
- Building procedures
Choosing Open Hardware

1. Classical benefits of openness: feedback and work better…

2. Collaboration prize and Innovation prize (eventually for new OHW Model)

3. Penalties to teams not respecting other teams' Open Hardware Model or licenses (but practically limited to obvious cases)

4. Teams allowed to release their designs to the public the day before the race only

Improving the overall collaboration process of the “ecosystem” by giving other teams great inputs to build their vehicles for the following year's race
Team complementarities

- To build a vehicle you need to manage more than technology…

Design

Business

Technology

You want to be here

Sponsoring
Crowdfunding
On the island of Florianópolis
Partners

- The organisation team in Brazil is composed of students and teachers from

- The event will take place in Sapiens Park in Florianópolis
Race track overview
Race track : 703.5 m (0.43 mile)
The event organisation

- 2 vehicle categories
  - Sports
  - Creative
- 3 fuels
  - Gasoline
  - Diesel
  - Ethanol
- 3 days
  - Day 1: Free tests
  - Day 2: Performance rounds
    - Qualifying rounds
  - Day 3: Race

- Technical team
- Safety team
- Track marshalls
Prizes

- Design Prizes
- Eco Design Prize
- Cooperation Prize
- Perseverance Prize
- Innovation Prize
- Special Jury Prize
- Grand Prize (just for Sports category)
More information

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