

# ANTRO Group

Hungary 9941-Őriszentpéter, Baksaszer 1/A

... clean future ...

ANTRO Non-profit Ltd.

SOLO-DUO Co. Ltd.

MOVEO Co. Ltd.

[www.solo-duo.hu](http://www.solo-duo.hu)





# VISION

**ANTRO Group**

**Being anthropocentric  
Perspective solutions  
Energy saving!**

**High-tech materials  
State-of-the-art  
technology  
New alternatives  
of development  
Variable vehicle family**

**With the today existing top  
materials and technologies  
energy saving of 2/3  
is realistically achievable**



# ANTRO

## NON-PROFIT LTD

Alternative Resources and Vehicles Development

**FOUNDED: 2001**

### **TASKS:**

- Global product research
- Forming of new development ideas
- Launching of technical development
- Building of development partner network

### **GRANTS:**

- Regional / West-Transdanubia
- National / Hungarian
- European Union

### **SPONSORS:**

- MKB-Euroleasing Ltd
- LEG Ltd

**FOUNDERS: Zsolt HEGEDŰS  
Géza HIVESSY  
dr. Tamás SLEZÁK**



# SOLO-DUO CO LTD

**FOUNDED: 2007**

**FOUNDER: ANTRO Non-profit Kft.**

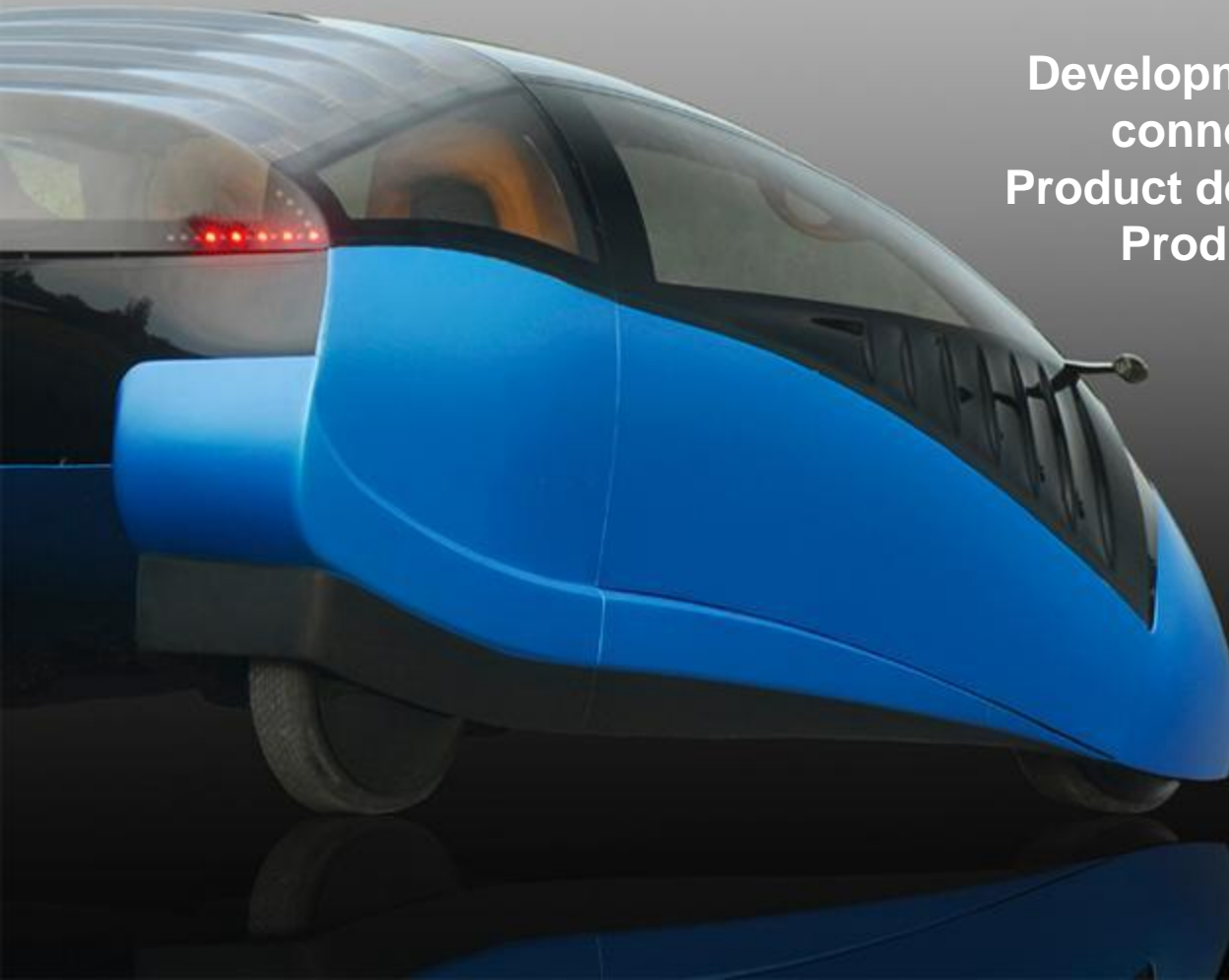
## **TASKS:**

**Development of ultra-lightweight,  
connectable hybrid car family**

**Product development step by step**

**Producers alliance/ franchise**

**Sales: via internet  
and distributors**





# SOLO MULTI-HYBRID CAR

Three-seat, multi-hybrid, ultra-light car

- „plug in” electric propulsion
- multi-fuel range-extender (engine-generator)
- roof with built-in solar cells
- pedal-generator (option for physical exercise)
- shock absorber that produces electric energy

Target specifics:

length	▶ 250 cm
width	▶ 190 cm
height	▶ 135-145 cm
unloaded weight	▶ 400-480 kg
performance	▶ 20-28 kW
max. speed	▶ 150 km/h
consumption	▶ 1,7-2,0 l/100 km
extended range	▶ 1100 -1300 km
electric range	▶ 40 / 80 / 120 km



# SOLO - DUO

## VEHICLE FAMILY

### VARIABILITY (drive by wire):

two of the three-seat SOLO's can be connected giving a six-seat family car

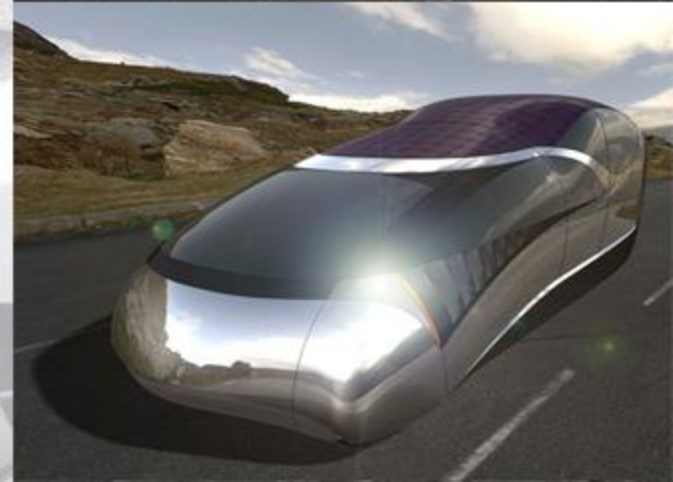
- economic
- ideal for families
- smaller parking field requirement

### FURTHER MEMBERS OF VEICHL E FAMILY:

- DUO 6-seat family car
- PORTO 3 seat pickup
- caravan

### OBJECTIVE:

Anyone can master connecting and disconnecting variable elements of the vehicle family and complete action within 15 mins





# 2008

## EXHIBITIONS:

- BUDAPEST  
MUSEUM OF TRANSPORT
- PARIS MOTORSHOW

## Media coverage, awareness:

[www.industryweek.com](http://www.industryweek.com)  
[www.autobloggreen.com](http://www.autobloggreen.com)  
<http://news.yahoo.com>  
<http://autoworld.wordpress.com>  
[www.spacemart.com](http://www.spacemart.com)  
[www.automotiveindustrynews.com](http://www.automotiveindustrynews.com)  
<http://jalopnik.com>  
<http://siliconinvestor.advfn.com>  
<http://www.nextenergynews.com>  
<http://content.usatoday.com>  
[www.autobild.de](http://www.autobild.de)  
[www.topspeed.com](http://www.topspeed.com)  
[www.silobreaker.com](http://www.silobreaker.com)  
[www.asylum.jp](http://www.asylum.jp)  
[www.gii.co.jp](http://www.gii.co.jp)  
<http://greenz.jp>



# MOVEO CO. LTD

FOUNDERS:

ANTRO Non-profit Ltd  
Magyar Szél Ltd

## TASKS:

- Development of foldable ultra-lightweight electric scooter
- Scooter production
- Producers alliance/ franchise
- Sales: via internet and distributors

FOUNDED:  
2008





# MOVEO prototype B2 31. March 2011.



Unloaded weight	► 25 kg
Speed	► 45-50 km/h
Range	► 35 km / charge
Consumption	► 2 kWh/100 km
Battery life	► 35 000 km

Target price: 2 400 € / netto

- self-supporting carbon-composite body
- foldable to suitcase size and portable, no need for parking place
- in-wheel-motors in both wheels
- charging within 1 hour









03. 18. **2010.**

## **VISIBILITY**

The multi-hybrid car of **ANTRO Group** called **SOLO** was introduced to Prince of Wales, in front of the Hungarian Academy of Science on 18th of March.



The pedal concept brought a smile to his face and the roof with the built-in solar cells earned a respectful touch.

**TIME**  
IN PARTNERSHIP WITH **CNN**

**New**

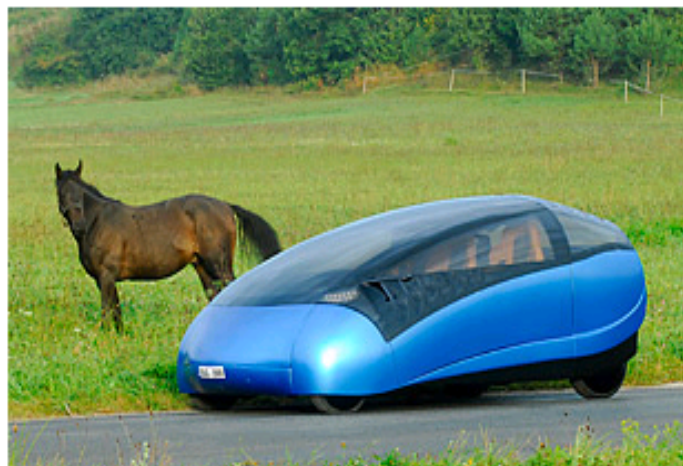
## The 50 Best Inventions of 2010

*Flying cars! Jet packs! Lasers that zap malaria-carrying mosquitoes! Here are the year's biggest (and coolest) breakthroughs in science, technology and the arts*

### **Transportation**

## Antro Electric Car

By BRYAN WALSH Thursday, Nov. 11, 2010



The car of the future, now coming from: Hungary. Yes, it sounds like communist propaganda circa 1967, but the Hungarian designer Antro might just have made a superefficient, supercheap car that could put Western manufacturers to shame. The Antro Solo can hold up to three people — a driver and two passengers, one on either side — who pedal to help drive the ...





# Investment Needed

**MOVEO: 5.6 M€ (Production: in 1 year)**

**SOLO+ DUO+ PORTO+:**

**20M € (Development) +**

**28M € (Production)**

**= 48M € (within 3 years)**

**15 000 pcs/year in Hungary +**

**X \* 15 000 pcs/year somewhere else  
with franchise**

# Latest news from October (1)

## SOLO received Hungarian Design Award 2011



**MAGYAR  
FORMATERVEZÉSI DÍJ  
2011**



**MAGYAR  
FORMATERVEZÉSI DÍJ  
2011**





# Latest news from October (2)

## Emobility Forum Wien 2011

### First day in Prater



### Second day at Forum



## Bertrand Piccard in SOLO



# Latest news from October (3)

## eCarTec Exhibition München 2011



## E.ON charging station opening at Hotel Kempinski Budapest

