

An open community of multi-disciplinary engineers from 50+ countries



+
A crowdsourcing platform to solve engineering challenges



Reduce the setup of a process from 36 to 20 min. – 7K€



Rapid prototyping of Al-Li parts for aerospace (€5.000)



Water recovery and energy efficiency (€17.000)

Ennomotive accelerates innovation and process efficiency in the industry

We solve challenges related to flexibility, productivity, quality, energy efficiency, costs ... bringing feasible solutions that can be immediately used to improve your business in terms of cost, quality, and efficiency ... and we do that with a success-only fee!



Remote monitoring of Photovoltaic systems

COMPLETED! 2 VIABLE SOLUTIONS BEING PROTOTYPED



Background

Bringing electricity through **conventional power networks** to **isolated populations** in **some countries** is **not economically viable**.

The challenge

And Lead batteries are the most challenging element in a photovoltaic system due to their high cost and short life span.

Acciona Microenergía seeks for a **reliable, cheap and Internet based solution to accurately read the actual charge of batteries**, to be incorporated into existing photovoltaic systems. The objective is to establish a strategy to drastically improve the Lead battery's lifespan.

This challenge provides information about current system, including battery controller specifications, photos, dimensions of the control cabinet, etc.

The award

Winners are invited to build and test prototypes while keeping the intellectual property of the new device.



Optimize maritime transportation of wind-turbine blades

Background

Wind-turbine manufacturers face high logistics costs since they need to transport big equipment components to remote locations.

Maritime transportation cost is directly dependent on the volume of the shipped merchandise and blades (e.g. 50 M long) represent one of the components with the highest volume.

Blades need to be transported from their manufacturing facilities to remote locations for final installation at wind farms.

The challenge

Our client seeks to reduce the volume of blades in maritime transportation and consequently reduce logistic costs.

Providing the blades geometry and current stacking, how do we reduce a minimum of 8% in volume of Gi97 and G114 on the ships?

The award

Variable according to results, from €5.000 to €12.000



Alternatives to Lost Wax Casting

Background

Indra develops and supplies systems for aircrafts that include parts being produced by a selected outsourced manufacturers network.

Some complex parts are produced using Lost Wax Casting. This method has a lot of advantages such precision but also some disadvantages, particularly cost and flexibility and limited number of suppliers in the market.

The challenge

Indra seeks to optimize the manufacturing of complex parts:

- Alternative manufacturing processes to Lost Wax Casting
- Alternative Lost Wax Casting Suppliers anywhere around the world

This challenge provides a part specification and the geometry to be analyzed.

The award

€5.000 to the solution that best optimize costs and lead times



Automatic loading of raw parts in paint shop

Background

Ficosa International is a Tier1 Automotive supplier company. One of their products is an exterior mirror painted in body color. A mirror actually consists of 2-3 different parts that must be painted before assembly.

The challenge

Loading of raw parts for painting is performed manually today. Operators have to take raw parts from a box and fix it on a rack that is used to move the parts through the paint shop installation. There are around 200 live OEM projects with different parts fixing points and racks.

Our client is looking for a way to automate the loading process as much as possible. The final objective is to be more productive and cost efficient using robotics.

The challenge provides information on the current manual process, plant layout and details on the racks, boxes and parts specifications with respective cycle times.

The award

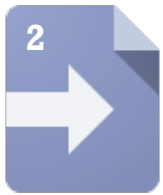
The winner and the second finalist will be awarded respectively with a 13.000 € and 2.000 cash prize. If the winner is a company, the prize will be discounted from the implementation cost.

And... how does it work?

We use a 3-rounds structure process (innovation tournaments) that helps find unique and feasible solutions



We prepare the challenge with you



We launch and market the challenge



Our community proposes solutions



We filter and help you select the winner



And... the best solution is awarded!



Are you up to our challenge?

Discover how we can
move your operations
forward

<http://www.ennomotive.com>
info@ennomotive.com

See what we do at [YouTube](#)



ennomotive

www.ennomotive.com

Contact: enrique.ramirez@ennomotive.com

Cell: +34 619 254 769