How to accurately estimate the weight of cattle at different growth stages using artificial intelligence and/or similar technologies

Challenge organisation

Somex S.A.S is a company that is dedicated to the production and marketing of mineral supplements for livestock in all its productive stages. With thirty years in the market, we are leaders in the livestock mineral nutrition sector in Colombia and we are expanding in Latin America and the Caribbean. We have presence in Colombia, Panamá, Costa Rica, Dominican Republic, Guatemala and Ecuador.

Full description

In the meat production industry, it is vital to monitor the weight of cattle in their different stages in order to define nutritional management strategies and to define the dates for cattle batches to be sent to the slaughter plant. This process generates risk of injury to both the animals and the operators who carry it out. Likewise, there are economic losses that are quantified as loss of live weight ranging between 1 and 5% of the animal's weight and high costs of scarce labor are incurred to carry out this process when there are large numbers of animals.

In our livestock production and exploitation process, it is necessary to obtain information on the weight gain of the cattle in their different stages of growth, this is done by weighing the animals on electronic or mechanical scales, to carry out this process it is necessary to move the cattle from their grazing site to the weighing site, either using means of transportation or subjecting them to long days of walking. This generates great stress in the animal, which causes it to lose part of the weight gained and affects subsequent performance. On the other hand, in Colombia, not all farms invest in scales to weigh the cattle and qualitatively determine the exit weight of the cattle to the slaughter plant, being this process not very optimal from the zootechnical point of view.

What we are looking for

Fast and reliable determination of cattle weight in paddocks. The Development needs to be based on the characteristics of the cattle breeds used in the country. That the tool can be used on Android smartphones and/or tablet. It can be used in offline mode that does not require an internet connection at the time of weighing. That it can be carried out from a prudent distance to avoid incidents with animals and people. We are looking for startups or stablished companies that use algorithms and /or artificial intelligences to develop this type of solution.

What we offer

We offer access to animals and traditional weighing systems commonly used in livestock farms, we can consider a win-win relationship where the licensed sale of the solution can be established

Other

Opportunity area	Smart Production
Looking for partners in	Europe; Caribbean
Specific Areas	Agriculture
Technologies	Blockchain; Big Data Analytics; IoT; Connectivity & 5G; Artificial Intelligence; Machine Learning; Sensor & Electronics

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This is a challenge identified by the EU-LAC Digital Accelerator team in the frame of the Call for Challenges. The mission is to connect challenges from corporates with solutions from startups to boost digital transformation in Europe, Latin America and the Caribbean. If you are interested to learn more about us, visit our website.

If you are a startup with a digital solution willing to explore collaboration opportunities with this corporate, **join our matching platform and let the open innovation game start!**

If you are called by this challenge but have questions, do not hesitate to contact us.

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