

Adopt a smart system of participants tracking for outdoor sports outdoor events with Tech4Race

October, 2018 | Version 1.0

"Kerlink offered us an agile and easy to deploy and to use architecture, that fits perfectly with our needs of quick and easy integration. "

Mr. Fabien LETORT, Tech4Race co-founder and product & service development



Company name: Tech4Race
Headquarters: Rennes, FRANCE
Year founded: 2016
Industry sector: Smart City
(Sport events management)



*Wirrnet™ Station installed in the desert of Abu Dhabi
for an endurance riding competition*

Challenge

Tech4Race ambitions to create a new way to provide to outdoor sport events organizers smart services and geolocation systems for their contestants. Solutions already exist, but they are based on GSM or satellite technology that is expensive and way more energy-consuming.

Tech4Race proposal is composed of three components: LoRa® network use, a LoRa tracker and a web interface.

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A solution adapted for each side of the event

In August 2018, more than 2,100 sportspeople have already been followed by Tech4Race-developed solution. The innovation of this solution stands in the miniaturization of the tracker, the business model and the overall solution reliability.

The solution relies on a GPS/LoRa™ tracker developed by Tech4Race. The device is worn by the contestant on a belt or a armband and enables to accurately track the route and the sportpeople situation.

The sport event organiser then simultaneously achieves different complementary objectives:

- cheating on the route taken can't remain unseen, thanks to the precise positioning enabled by the device and its comparison with the official route to be followed

- an effective coordination of volunteers, as well as medical and security teams to intervene in case of emergency and to ensure the quality of the event

- contestant supporters will follow the participant's progress in real time and won't be missing a checkpoint or a moment to encourage for their preferred athlete.

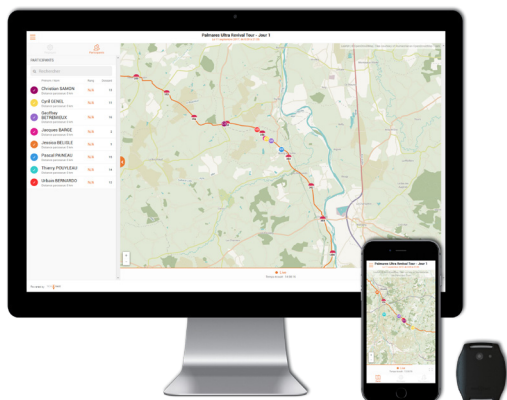
Those services are made possible by the LoRa® technology, that doesn't suffer from interferences and allows a data transmission at an efficient rate granting low data consumption.



If the sport event is not covered by a LoRa® network, Tech4Race is to deploy a temporary self-operating network, covering each area of the race.

Once the event is started, the tracking web interface is made available with personalized features depending of the profiles :

- organizers need to be ensured there is no cheating
- chronometers are responsible of an accurate timing of athletes
- media cover the race with the good information at the right moment
- athletes or fans need to benefit of reliable information



"Tech4Race can cut the prices by three thanks to the implementation of simple and reusable devices, based on LoRa® technology, that is by nature more cost-effective, more energy-saving and quicker to deploy than GSM network which also depends on public operators local coverage and available capacity during events that sometimes concentrate a lot of people" says Adrien SAVARY, co-founder in charge of marketing and business development at Tech4Race.

Tech4Race solution has been thought for bringing sports competitions into the digital era

Tech4Race solutions based on Kerlink's Wirnet™ Station will allow in a near future sports events organizers to easily and cost-efficiently benefit from live tracking systems that have been, until then, reserved to 'premium' events.

Reliability and precision at the heart of the solution

Where a GSM-based solution could face white zones and network perturbation, LoRa® solution-based tracking system offer robustness and reliability that has not been overtaken yet. The unique GSM-GPS tracker is combining long-lasting LoRa® capabilities to GPS precision, making the device a powerful equipment adaptable to various needs.

A case adapted to all sports

The tracker developed by Tech4Race fits to any sport type that needs a precise tracking system. It is small, light, water proof & immergeable and offers a long life span; opening the tracking feature to water sport like trails or even triathlon or swimrun.



Temporary installation of a Kerlink Wirnet™ Station on the Brittany peninsula of Crozon for a swimrun competition

Read more:

Tech4Race: <https://tech4race.com>

More success stories: <https://www.kerlink.com/customers-usecases/use-cases/>