



PHYSIOTRACK

Innovative system for real-time monitoring and predicting of physical performance by combining geographical, physiological and environmental data

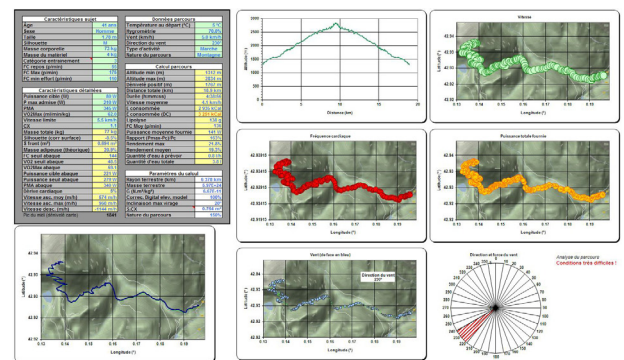
Technological advantages

A precise system

- Accurate, known and verified equations
- Efficient system even with relatively few data
- Can be used with several sensors
- Easy integration of data from various sources:
 - GNNS (GPS, GALILEO, etc.) geographical data
 - environmental data (temperature, pressure, wind, etc.)
 - physiological data (heart rate, arterial tension, temperature, maximum oxygen volume (VO₂), , etc.)

Can be used by anyone

- Features several optional settings (simple to advanced)
- System includes a learning mode
- Adapted to a wide range of physical exercises



Example of preparation for a mountain hike (non-contractual image)

Summary of the invention

A system combining physiological data with environmental data (slope, wind, temperature, etc.) in real-time.

The program can then predict the evolution of users' physiological parameters and performance, thus enabling them to adapt their effort to meet the goal.

Commercial advantages

Low cost of sensors

- Modular system using off-the-shelf sensors,
- Can be used with only a few sensors

Adapted to several markets

- Universal system, covering a wide range of sports

Potential applications

Monitoring performance

- Amateur and professional sport
- Running, cycling, hiking, biathlon, triathlon, horse riding, etc.

User Protection

- Monitoring of vital parameters during re-adaptation

TRL : 3

Patented invention available under licence