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# Solution 1 ( Sports Equine).



This involves the preparation and conditioning of a small team of Arabian Derivative Endurance & Performance Horses.

Part of their preparation involves "Conditioning" which is provided by Controlled Regulated Exercise Routines at various speeds and distances. These "Conditioning" exercises take place either out on track with a rider or unridden within a Horse Walker that revolves either Clockwise or Anti-Clockwise at variable controlled speeds and duration.

To ensure we monitor the particular horses performance we need to Sense, Transmit, Record, View and Analyse specific real-time digital information that provides us an "Internal Window" into how that horse is travelling and indicators as to his overall health - Temperature, Heart Rate, Distance, Speed, Time.

This digital real-time data record of the exercise routine allows for more detailed evaluation at



a later date. In this example Polar products are utilised - specifically the Polar Equine RS800CX including the T56H transmitter, G3 GPS Sensor & an iRDA USB Adapter. There are other providers on the market with similar products. AndroidSmarts involved in this process apart from the Horse Walker include: Polar T56H Transmitter including Wearlink W.I.N.D suitably attached to the horse to capture real-time data (Heart Rate, Temperature & Other Exercise data) during the exercise routine. POLAR G3 GPS sensor attached to the saddle to capture data (distance, speed, time). On-board AndroidSmart Watch Computer Receiver, worn on the wrist of the rider or attached to the saddle when in the Walker, to collect the data from the transmitter.



AndroidSmart accessories like a POLAR IrDA USB 2.0 Adapter will download data via Infrared communication from the watch receiver to IrDA enabled AndroidSmart Phones or Computers with relevant Apps & Software (POLAR ProTrainer 5) to allow more detailed graphical statistical analysis & interpretation of the data recorded during the exercise routine. In this particular example with the Polar ProTrainer 5 software you can plan your workout in advance with multiple planning options, and transfer the settings to your polar product. After training, you can analyse the results with versatile graphs which you can customize according to your needs.

The above example is also pertinent to Human Exercise and Training with only minor equipment alterations - The important relevant digital data is received, transmitted, recorded, viewed then transferred and stored to a larger computer where the digital data is further analysed by specific applications (Apps) and specialized programs to provide an accurate picture of the routine.

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