

## Industry solution using cutting-edge technology: How can you save time and money on the maintenance and upkeep of a golf course?

An innovative and efficient wireless mobile data processing solution offered by the companies Itronix and Iccad!

Paris, June 20, 2005 – Itronix, the world's number one manufacturer of professional mobile data processors, and Iccad, specialized in the development of mobile SIG applications, equip the maintenance technicians of Golf de Vacquerolles (city of Nîmes) with a professional mobile solution including an Itronix GoBook Tablet PC (designed for on site work), a GPS compatible EGNOS, a USB key and professional software with cartographic and geolocating interface.

Ten Groundskeepers are responsible for maintaining the courses at Golf de Vacquerolles. Hydraulic and electric networks, fairways, work on the greens... the mobile team of groundskeepers assure daily upkeep and continuous modifications of Golf International de Nîmes for keeping 18 holes in top shape through a wide variety of operations that require the use of many different types of engines (carts, tractor, lawnmower, carriers...).

Careful to preserve and improve the reputation of his golf course, the Director takes care to pay a drive-through inspection every morning to insure consistent playability, noting any corrections and tasks to be accomplished. Just a year ago, the director personally inspected the course and noted daily in a notebook all of the necessary information to equip the groundskeepers, thenceforth charged with creating the plans for completing the work. Once the various repairs are completed, each groundskeeper was required to record a complete rendering on site and then to transfer it anew to the computer.

Needless to say, these numerous piles of notes were not always reliable, sometimes misplaced and often tedious to manage. From this came the need to equip the groundskeepers with mobile solutions for recording the piles of notes and improving their efficiency on the grounds.

**Problem: To equip the groundskeepers with an easy to use and secure mobile SIG solution application... on-board a "hardware" solution sufficiently robust to travel across any terrain.**

Thus, seeking to improve the efficiency of the young groundskeepers at the Golf de Vacquerolles, the management was therefore searching for a mobile solution satisfying the following requirements:

Intended for the gardeners, masons, handymen... that is to say a population rather inexperienced in computer data processing, this "mobile" solution was to be as simple as possible to use.

Keeping in mind the extent of the grounds at the Golf de Vacquerolles and thus the significant amount of work to be performed, this solution, by necessity, has to include a GPS guidance system as well as an application to manage the work

schedules for the maintenance of the grounds.

All of the above had to be located on board a hardware solution sufficiently robust to withstand all of the outdoor conditions on the courses. A rugged terminal that one can leave with all confidence in the hands of masons and gardeners. Other requirements, a high-quality display screen and the capacity for wireless communications.

**Solution: GoBook® Tablet PC + LeSboober + SIG application + a webcam!**

To comply with the various requirements of the Golf de Nîmes Vacquerolles, Iccad and Itronix propose a mobile "pack" marketed under the trademark Innogolf\*:

### 1 – Custom developed Industry SIG applications:

- A GPS guidance system
- An electronic messaging application able to receive voice messages and visual images, functioning with the GPS guidance system, a webcam and an integrated microphone ... ideal for when the Director performs his morning inspection of the courses at the Golf and creates the job cards, which are directly downloaded into the tablet PC which the groundskeepers will rely on to begin their work.
- A project scheduling application to manage the tasks on the course capable of transporting all of the necessary databases and thus facilitating the completion of the field work.
- An application for hydraulic readings
- An on site recording application for creating and changing job cards

### 2 – Itronix GoBook Tablet PC:

The lightest and most compact rugged tablet of its category: with a weight of only 1.7 kg. and a compact size for truly mobile users, the GoBook Tablet PC is the product perfectly adapted for ground mobility applications. Its wireless capabilities, unrivaled in the market, permit the simultaneous use of Bluetooth, 802.11b and GPRS Technologies.

Like the other ITRONIX portable PC's, the GoBook® Tablet PC can handle all the conditions encountered by the mobile users on the grounds: heavy rain, dust, repeated shocks, vibrations, high and low temperatures.

With its IP 54 classification, its magnesium alloy frame, and its sealed I/O ports it specifically resists:

- 26 repeated falls from one meter onto concrete
- a heavy rain and wind of dust, normalized to IP 54
- extreme temperatures from -20°C to +60°C in operating conditions and survives from -55°C to +75°C in storage.

Moreover, it complies with the requirements of MIL-STD-810F.

### 3 - LeSboober:



Update system for landscape survey on a motorized cart with individual stand-by power supply

For more information contact:

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A USB key with an integrated software functioning with the tablet PC (restricted access to the Windows desktop on the tablet is possible in accordance with the wishes of the company) and which permits the identification of users, the automatic loading of applications and right of access, an automatic backup as the user logs off, the transfer of files and security of the PC. LeSboober is a unique system for backing up, transferring and protecting the data on a USB key.

To use it, one just connects the port to the tablet PC: the software starts automatically and automatically loads all of the work data. The user can then carry out all of the programmed operations. Once finished, the key disconnects itself and shuts down the GoBook tablet PC. The LeSboober key alone starts the process: no launching programs, no manipulation of them, no risk of error! Ideal for use by a group inexperienced in data processing! With this system, the teams of groundskeepers are trained in only one hour and are therefore immediately operational.

**Result: The note taking is finally reliable and the groundskeepers more efficient via sufficiently durable hardware able to accompany the workers on the grounds.**

*"This mobility solution now permits the groundskeepers to save considerable time. They no longer need to recopy or retranscribe each night the notes taken on the grounds that day. In addition, the information noted is henceforth much more precise, enabling us to react better and plan possible work"* says Joël Di Florio of ICCAD.

In addition to the quality of information, the maintenance technicians now have hardware perfectly suited to the often precarious conditions of golf: the GoBook Tablet PC resists it all, it fears neither vibrations nor shocks.

*"We no longer fear breaking the screen with the smallest shock and can thus fearlessly entrust it to the teams of groundskeepers. It is the first durable software that one can carry without second thoughts and that enables us to henceforth transport all of the databases ... it is a source of information which allows the teams of groundskeepers to be much more productive on the grounds,"* concludes Joël Di Florio of ICCAD.

#### **About ICCAD:**

The system intended for use on the golf course is marketed under the name INNOGOLF. This system also exists for other industries with the same materials offer (Tablet, GPS, USB keys, Webcam or high resolution camera controlled by the Tablet) and a different trade application. Versions: Engineering and design departments, architects, communities, park managers. INNOGOLF is a trademark of ICCAD. LeSBoober is a trademark of ICCAD.

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