

The increasing importance of electronics in Fleet Management

AGENDA & FORMAT

- **Introduction - Telematics**
- **Product Options**
- **Technology Expectations**
- **Future**

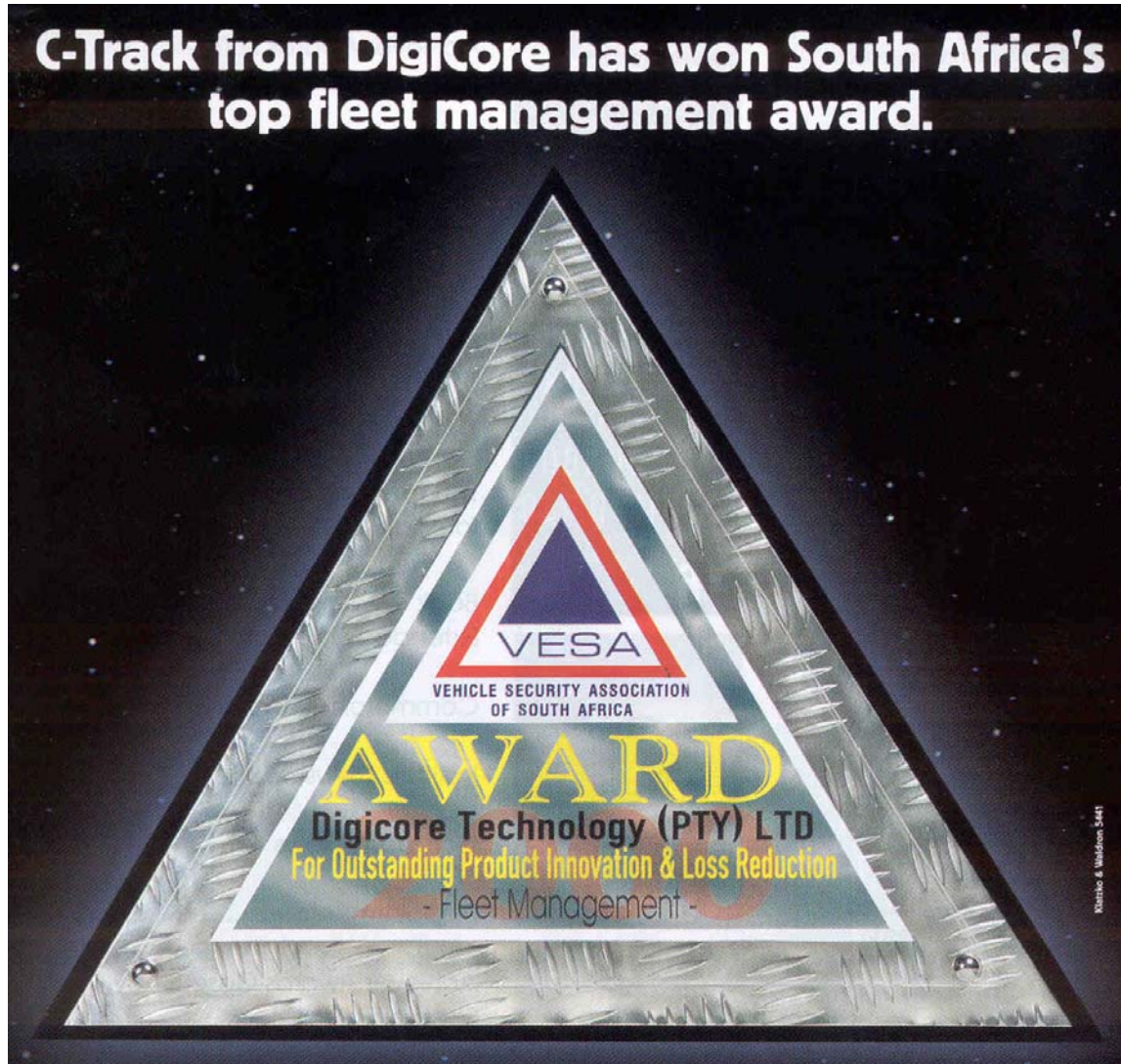
INTRODUCTION

- Fleet Security
- Employee Safety

RECOVERY SYSTEMS



**C-Track from DigiCore has won South Africa's
top fleet management award.**



PASSIVE TELEMATICS SYSTEMS

INTRODUCTION

- Fleet Abuse
- Fleet Safety

Features

- Driver ID
- Vehicle Speed
- Engine RPM
- Distances
- Idling Time
- Excessive Braking
- Possible accidents
- “Green Band” driving
- Audible buzzer warnings



Accident Analysis

Accident Viewer

Vehicle Search:

Order By: ☒ Vehicle Reg ☐ Accident Date

| Vehicle Reg | Date | Time | Duration | Trigger | Type |
|-------------|------------|----------|----------|---------|-------------|
| 46 | 1999/09/10 | 22:02:49 | 45 | 15 | Braking |
| 46 | 1999/10/05 | 16:19:41 | 45 | 15 | Braking |
| 46 | 1999/10/20 | 06:16:06 | 45 | 15 | Braking |
| 46 | 1999/11/01 | 10:30:21 | 45 | 0 | End of Trip |
| NPN88028 | 1999/08/05 | 18:33:02 | 45 | 3 | Braking |
| NPN88028 | 1999/10/03 | 10:59:44 | 45 | 15 | Braking |
| NPN88028 | 1999/10/14 | 15:51:24 | 45 | 15 | Braking |
| NPN88028 | 1999/11/01 | 10:33:28 | 45 | 0 | End of Trip |

Department: Standard Department Speed Limit: Km/h
Odometer: 0.00 Km RPM Limit: RPM



GPS Replay Screen

CTRACK 2000 V1.0.0 R38

File Mobiles/Drivers Timed Routes Messages Tools View Window Help

Map: Street Level

Deon BMW

Replay Speed: 300ms
0 128 0825 » Pause

☒ Show Tracks ☐ Lock Tracks
☐ Connect Tracks

Reset Odo 000000016

More Reload Route

Select Statuses Save File

Unselect All

- ☒ Panic Alarm;
- ☒ In Waypoint;
- ☒ Out Waypoint;
- ☒ Battery Tamper;
- ☒ Boot Opened;
- ☒ Door Opened;
- ☒ Nogo Alarm;
- ☒ Area Alarm;

Select Trips To Display

<Show All>

- Ign.Off @ 2000-01-17 07:10:00
- Ign.Off @ 2000-01-17 09:42:10
- Ign.Off @ 2000-01-17 10:22:09
- Ign.Off @ 2000-01-17 15:31:36
- Ign.Off @ 2000-01-17 17:31:52
- Ign.Off @ 2000-01-18 07:10:54
- Ign.Off @ 2000-01-18 09:35:44
- Ign.Off @ 2000-01-18 10:27:25

| Driver | # | Time | Status | Speed (km/h) | Position |
|--------|------|---------------------|----------------------------|--------------|-------------------|
| Deon3 | 0128 | 2000-01-17 09:41:30 | Boot Opened; Ignition off; | 0 | At DigiCore House |
| Deon3 | 0129 | 2000-01-17 09:42:10 | Boot Opened; Ignition off; | 0 | At DigiCore House |
| Deon3 | 0130 | 2000-01-17 09:42:14 | 1st Startup; | 0 | At DigiCore House |
| Deon3 | 0131 | 2000-01-17 09:42:27 | Boot Opened; | 0 | At DigiCore House |
| Deon3 | 0132 | 2000-01-17 09:42:41 | GPS unlocked; | 0 | At DigiCore House |

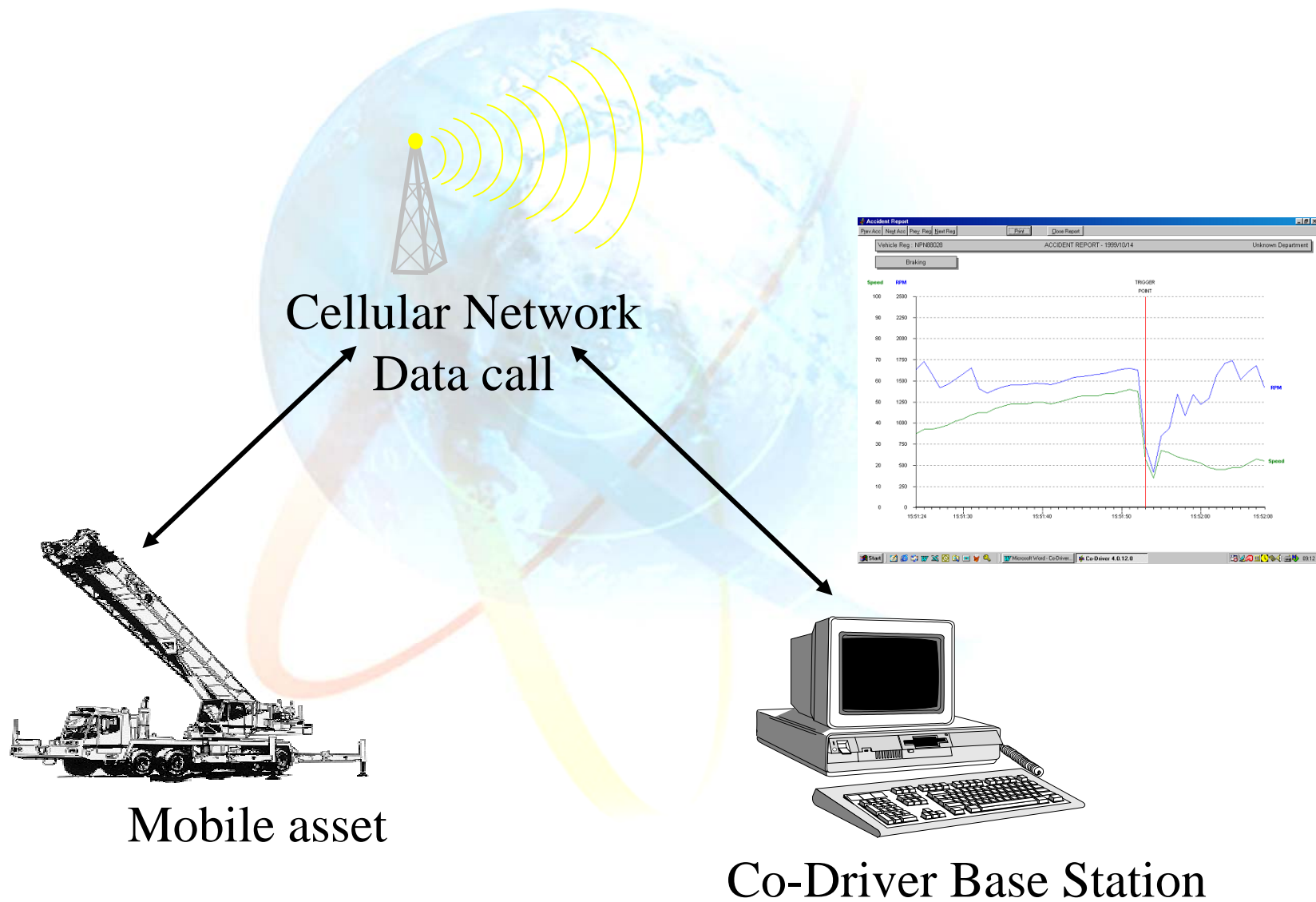
For Help, press F1

Signal: 25/60 Trace: None Area: None Lat: 25°48.191' S Long: 28°13.705' E NUM

Start CTRA... Micro... HP Pre... Explorin... Micro... Adobe ... untitled ...

19:14

GSM Downloading



REAL-TIME TELEMATICS SYSTEMS

MOBILITY MANAGEMENT

- Fleet Security
- Fleet Productivity
- Operational Management
- Route Adherence
- Fleet Abuse
- Fleet Safety

PRODUCT OPTIONS

- Real-time Telematics systems
 - *Radio Based*
 - *Data Call Based*
 - *SMS / GPRS based*
 - *Satellite based*

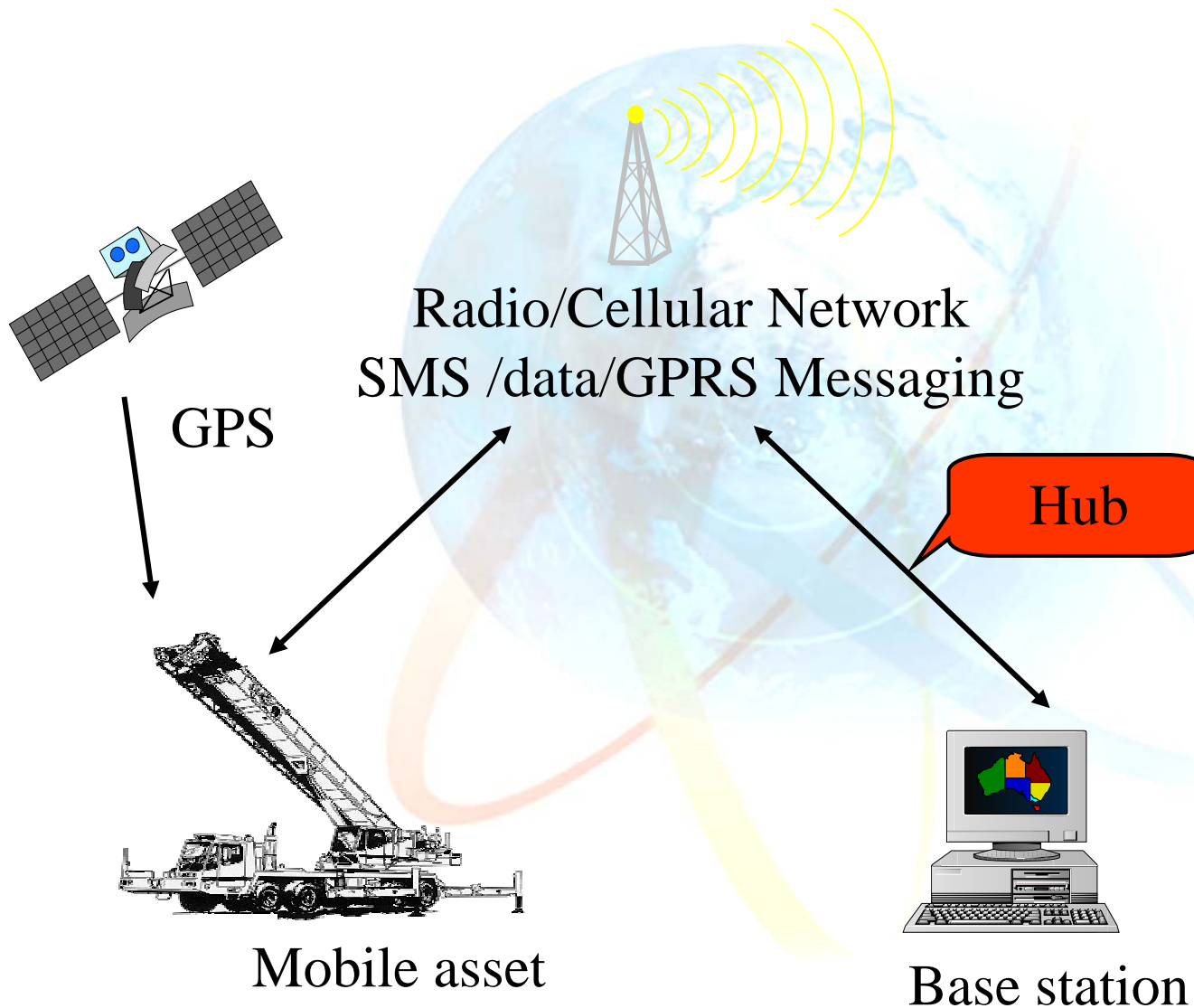


HARDWARE





Real-time Concepts



| Legends | |
|---------|-----------------|
| | Panic Alarm |
| | Cold Boot |
| | Warm Boot |
| | In Waypoint |
| | Out Waypoint |
| | Battery Tamper |
| | Driver Door |
| | Tipper |
| | Nogo Alarm |
| | Area Alarm |
| | Overheat |
| | Oil Pressure |
| | Water Level |
| | OverRevving |
| | Harsh Braking |
| | Speed violation |
| | Excess Idle |
| | Ignition off |
| | GPS unlocked |
| | Normal |
| | 1st Startup |
| | Off route |
| | Timed Route |



LOCATION DATA



CTRACK 2000 1.2.2 - [Map: Road Atlas Level]

File Reports Mobiles/Drivers Timed Routes Messages Tools View Window Help

Office

MVF 079 GP

Replay Speed: 200ms
0:156:0623 » Pause

☒ Show Tracks ☐ Lock Tracks
☐ Connect Tracks

Reset Odo: 000000482
More Reload Route

Select Statuses: Save File

Unselect All

- ☒ Panic Alarm;
- ☒ Cold Boot;
- ☒ Warm Boot;
- ☒ In Waypoint;
- ☒ Out Waypoint;
- ☒ Battery Tamper;
- ☒ Driver Door;
- ☒ Tinner;

Select Trips To Display

<Show All>

Ign.Off@06 Sep, 2002 07:43
Ign.Off@06 Sep, 2002 07:54
Ign.Off@06 Sep, 2002 10:01
Ign.Off@06 Sep, 2002 11:05
Ign.Off@06 Sep, 2002 11:59
Ign.Off@06 Sep, 2002 13:08
Ign.Off@06 Sep, 2002 14:16
Ign.Off@06 Sep, 2002 14:50
Ign.Off@06 Sep, 2002 17:34
Ign.Off@06 Sep, 2002 21:08

For Help, press F1

Signal: 00/60 Trace: None Area: None Lat: 26°20'24.0"S Long: 28°30'35.0"E

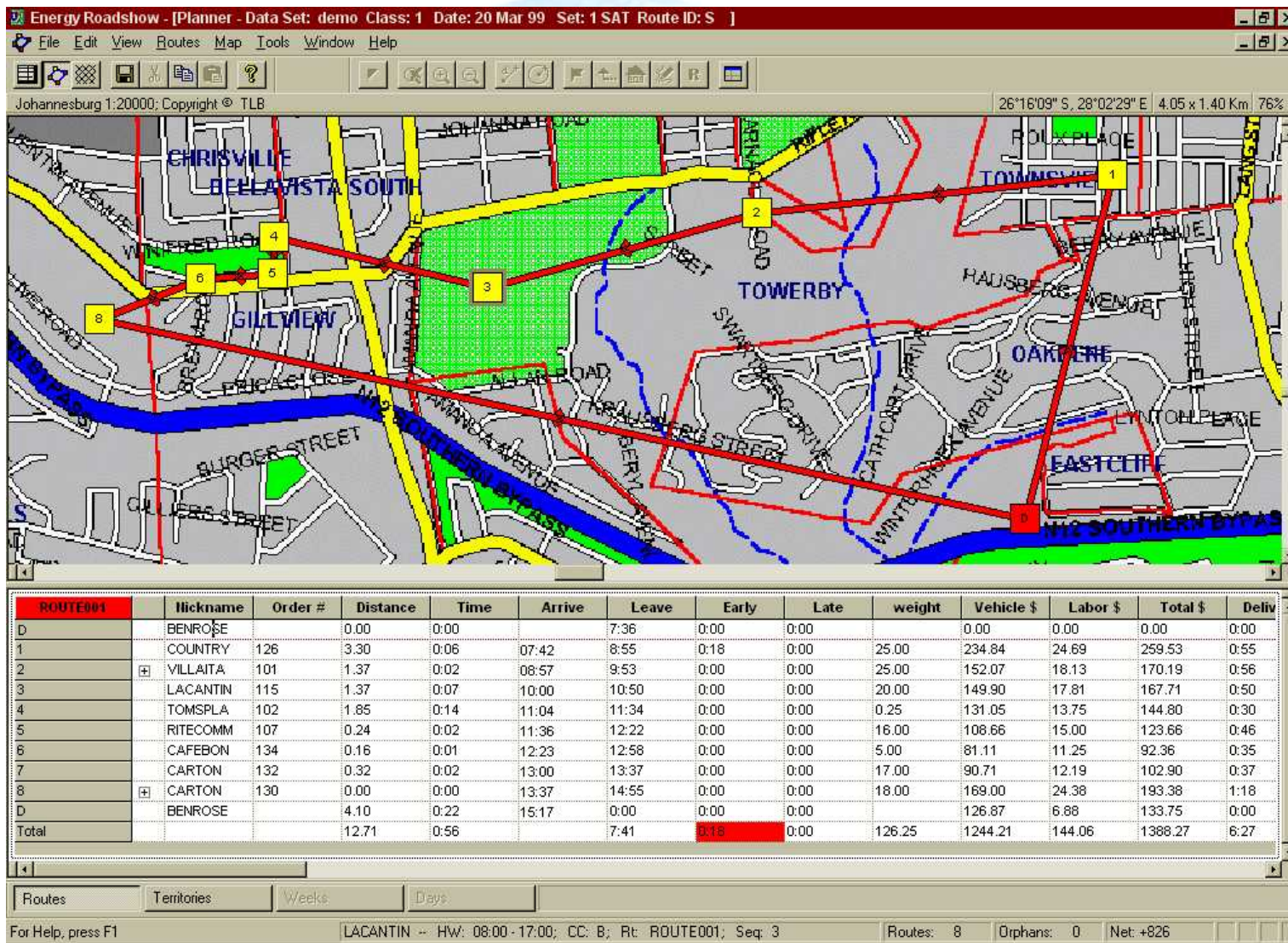
Start Inboxes - Microsoft Outlook CTRACK 2000 1.2.2 - [...] 4:27 PM

Map showing locations around Potchefstroom, Vanderbijlpark, and Vereeniging. Green dots indicate vehicle locations.

| Mobile | # | Time | Status | Speed (km/h) | Position |
|------------|------|-----------------------|---------|--------------|-------------------|
| MVF 079 GI | 0152 | 06 Sep, 2002 18:25:05 | Normal: | 99 | 14.0km E of Parys |
| MVF 079 GI | 0153 | 06 Sep, 2002 18:28:08 | Normal: | 89 | 9.2km E of Parys |
| MVF 079 GI | 0154 | 06 Sep, 2002 18:31:08 | Normal: | 100 | 4.2km E of Parys |
| MVF 079 GI | 0155 | 06 Sep, 2002 18:34:08 | Normal: | 55 | 0.4km E of Parys |
| MVF 079 GI | 0156 | 06 Sep, 2002 18:37:08 | Normal: | 102 | 2.7km SW of Parys |
| MVF 079 GI | 0157 | 06 Sep, 2002 18:40:08 | Normal: | 106 | 7.3km SW of Parys |



Routing





Remote Access

- Gain positional information and have immobilising facility from personal cell phone.



Register/Edit Remote Access

Cellphone Number:

Access Type

☐ Poll Only

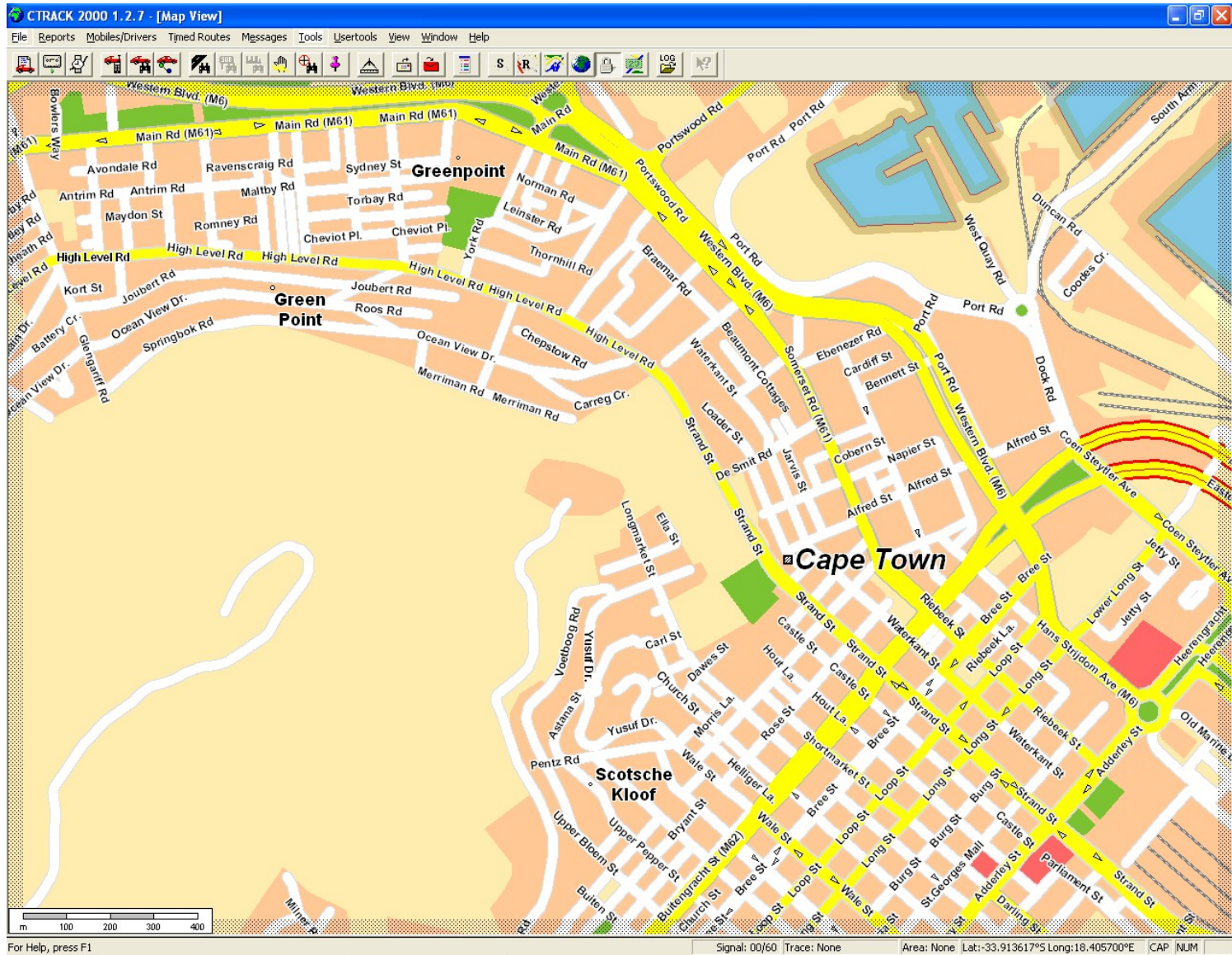
☐ Poll and Immobilise

OK Cancel





Navigation



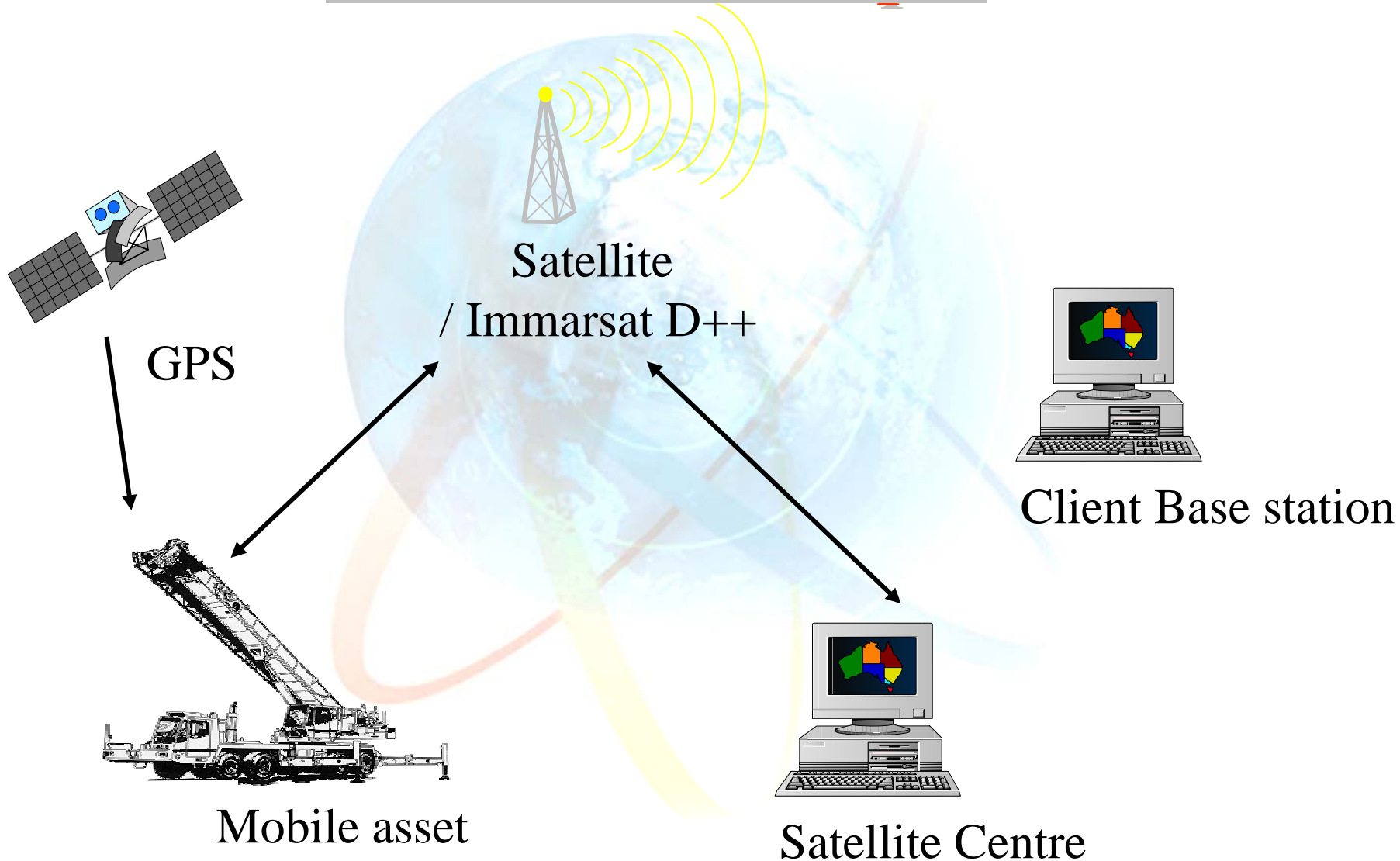


Work Flow Peripherals



- Palm top Navigation
- Laptop integration
- Barcode scanners
- POD Signature Verification
- Smart cards

Satellite Concepts



TECHNOLOGY EXPECTATIONS



Customer Service

DigiCore
FLEET MANAGEMENT

CTRACK 2000 1.2.6 - [Map: Road Atlas Level]

File Reports Mobiles/Drivers Timed Routes Messages Tools User tools View Window Help

Office

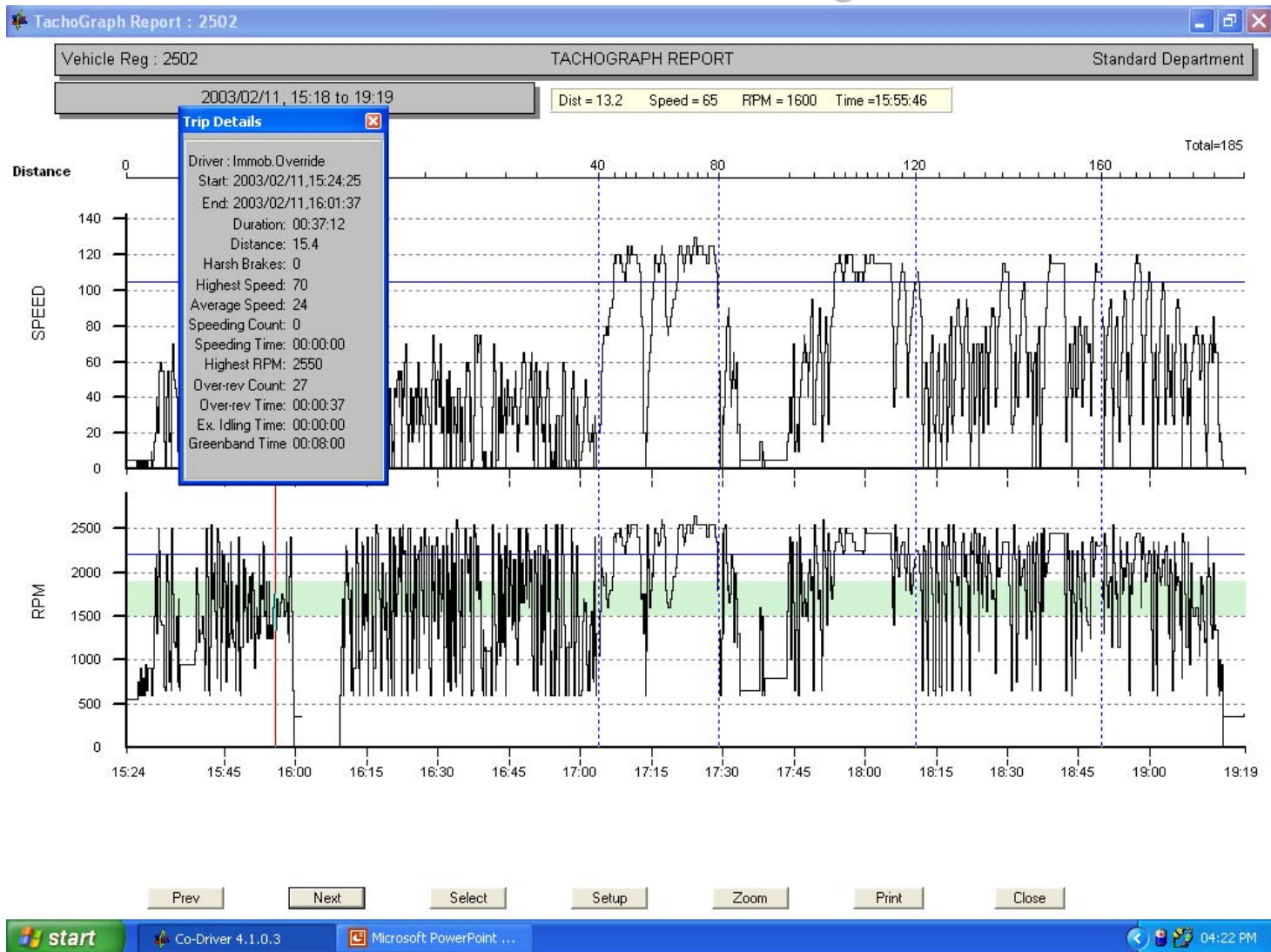
Microsoft

For Help, press F1

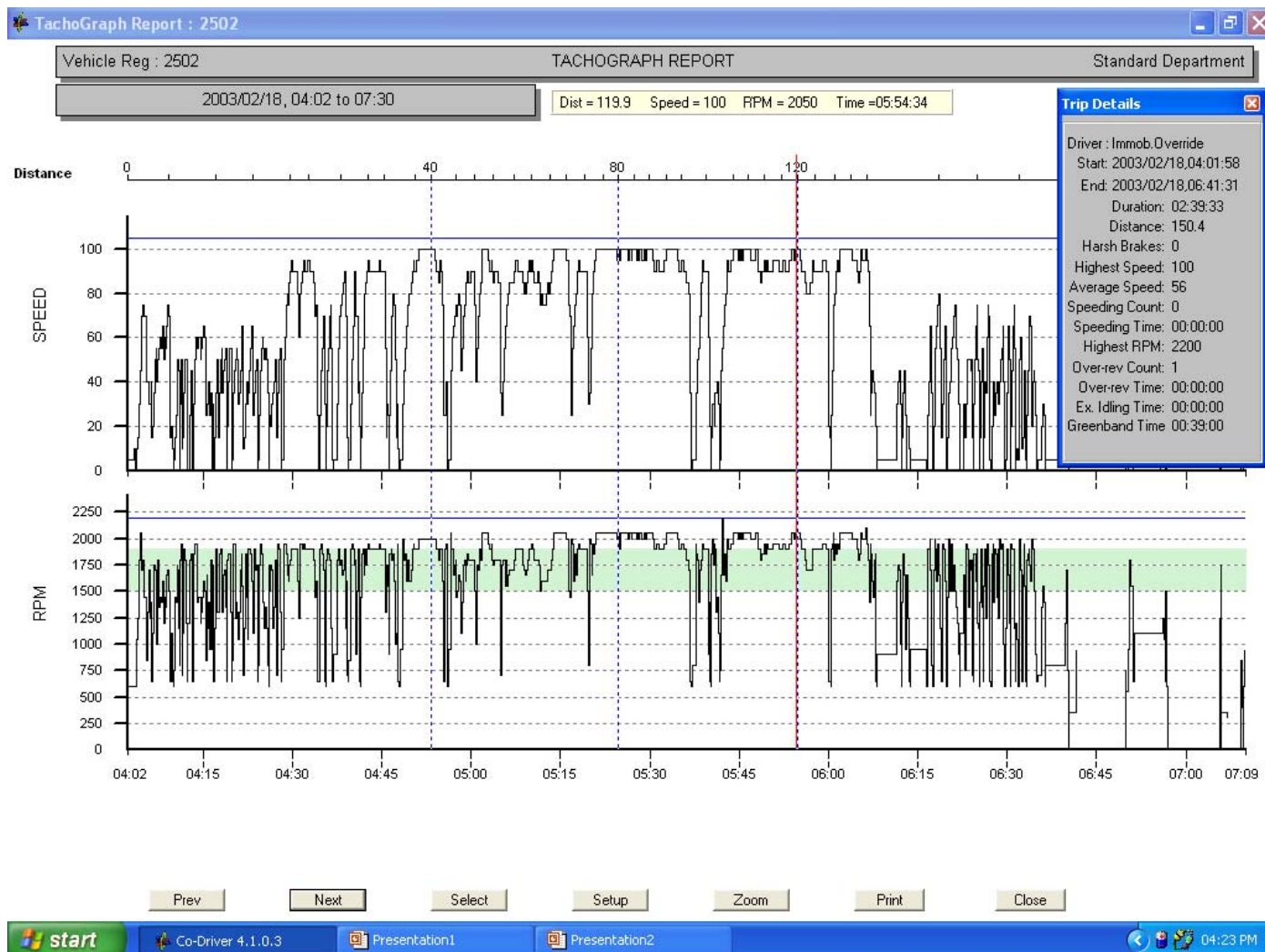
Signal: 00/60 Trace: None Area: None Lat: 26°33'20.0"S Long: 28°57'13.0"E

Start In-box - Microsoft Outlook 2003 DigiCore Presentati... CTRACK 2000 1.2.6 - [...] 2:18 PM

Abuse Before



Abuse After



FUTURE

- **INTERFACE TO OEM NAVIGATION SOLUTIONS**
- **INTERFACE TO CAN DATA – FUEL CONSUMPTION ETC.**
- **UPGRADABLE / MODULAR/ SCALABLE**
- **MOBILE FINANCIAL TRANSACTIONS- TAXI RECAP**
- **STANDARD TELEMATICS MANAGEMENT SOFTWARE SOLUTIONS**

Thankyou