

Triple

ENTAMS

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General Authority for Fish Resources Development

مشروع تحديد مواقع متكامل

أيدي مصرية



استخدام تقنيات الكمبيوتر . ووسائل الاتصالات . والأقمار الصناعية . وأحدث أساليب البرمجة

تحديد مواقع . اتصال بالقمر الصناعي . اتصال مباشر بالإنترنت
 إرسال رسائل على شبكات المحمول . كاميرات مراقبة . الاتصال
 بالصوت والصورة . شبكة اتصال لاسلكية . مراقبة ومتابعة حية
 الاتصال المباشر الحي بالصوت والصورة مع طاقم المركب من غرفة المتابعة
 إرسال إشعارات وقت الحاجة . أعلى نسبة دقة بأقل تكلفة عالميا
 نظام المتابعة آمن ومشتر بالكامل . دقة الأداء وسهولة الاستخدام
 يعمل باللغة العربية . ومجهز للغات الأخرى ، وتطبق باللغة العربية

الجهاز متعدد الاستخدامات

(كمبيوتر & جى بي إس & متابعة & إنترنت & اتصال & دعم فنى حى)

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Abstract

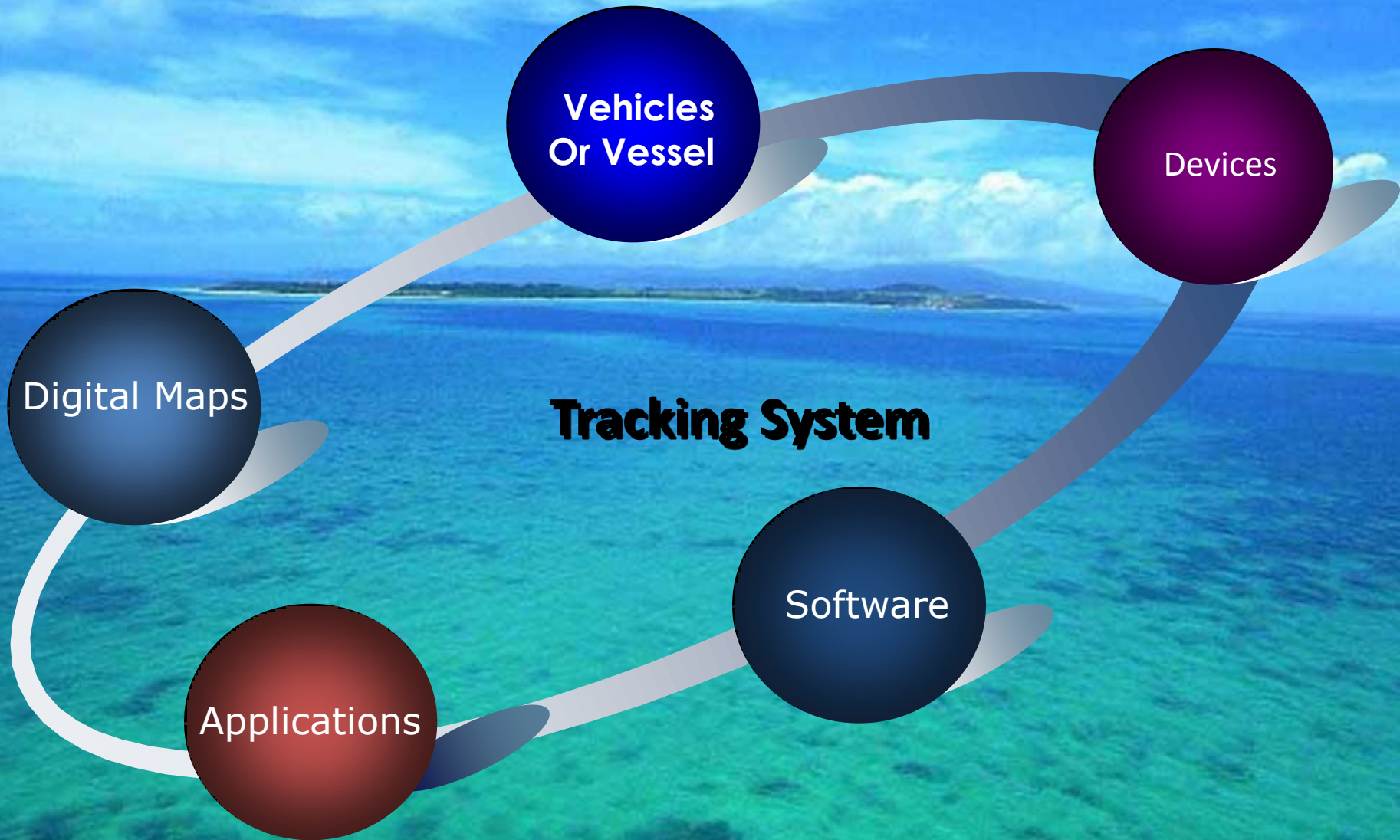
In the beginning was designed navigation •
device (Satellite) keys in Arabic low-cost to
fishermen about 600 \$ to 700\$ were
provided with feature tracking and as soon as
we finished we started in the second a trace
of the compound found the device by the
way two networks first terrestrial networks
(mobile) and the second tracking satellite
network Coordination with FAO for the
possibility of work experience of the Egyptian
system for tracking vessels...

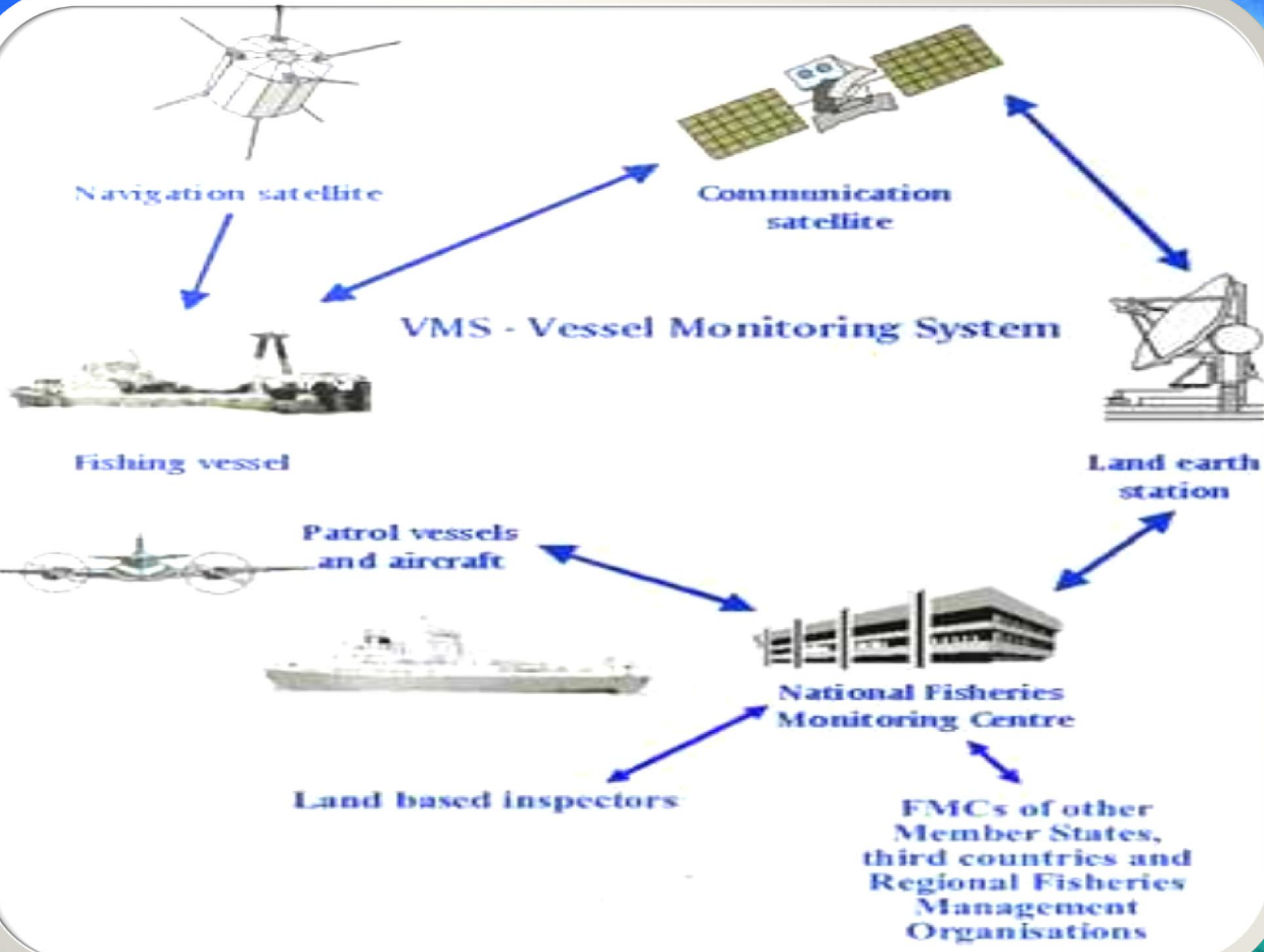
Following are details •



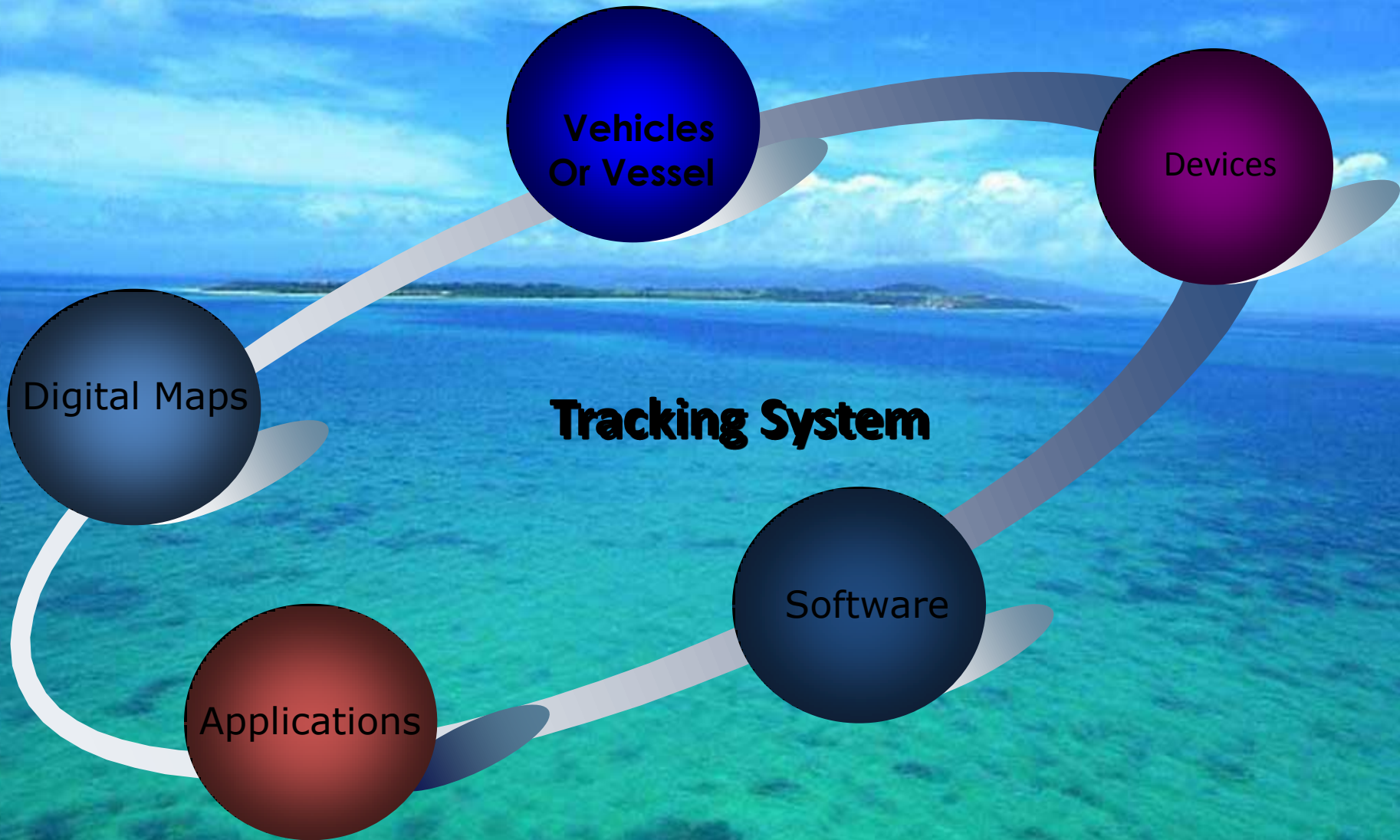
Automatic Vehicle (or Vessel)
Location System (AVL/GIS
System)

System components





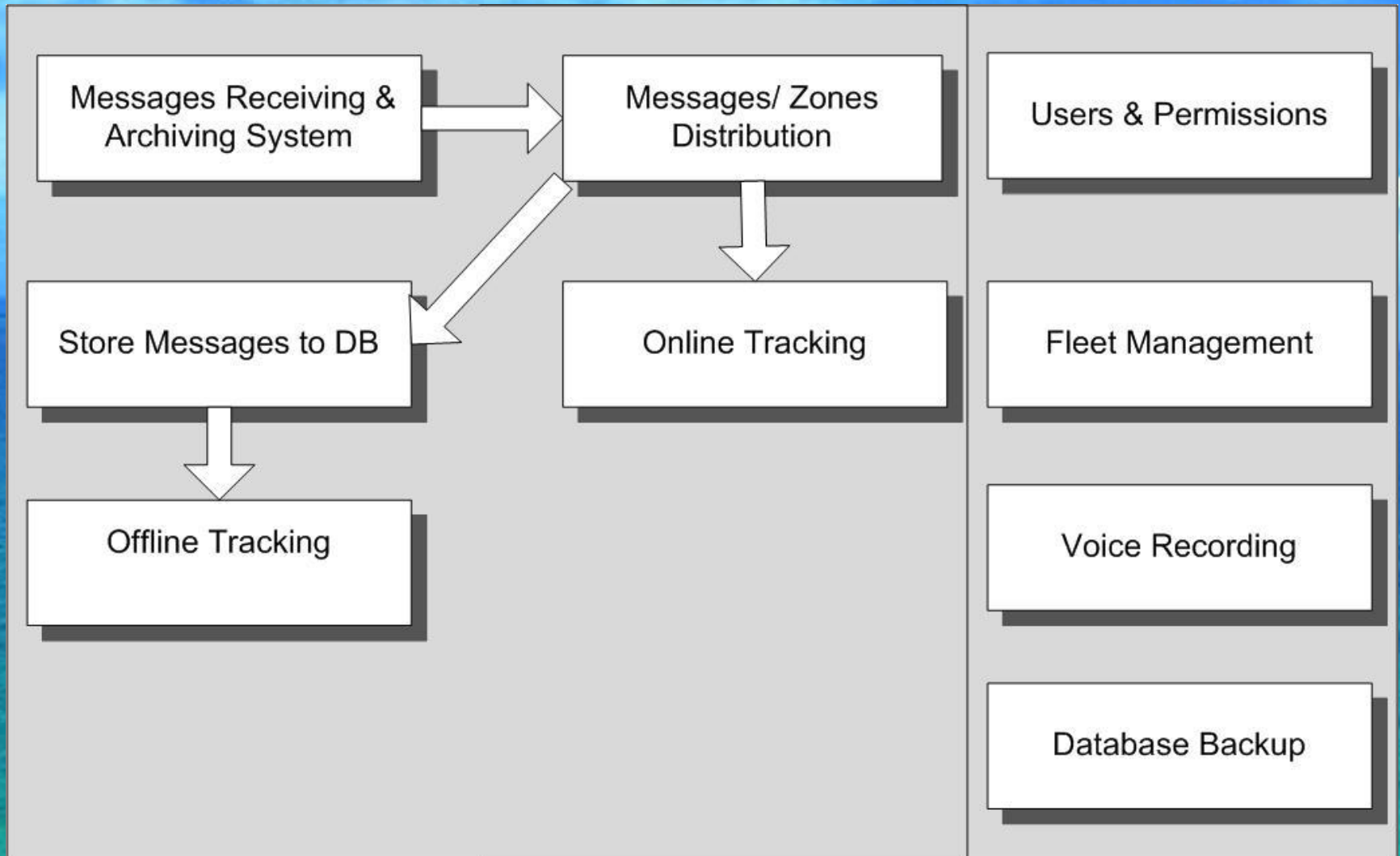
System components



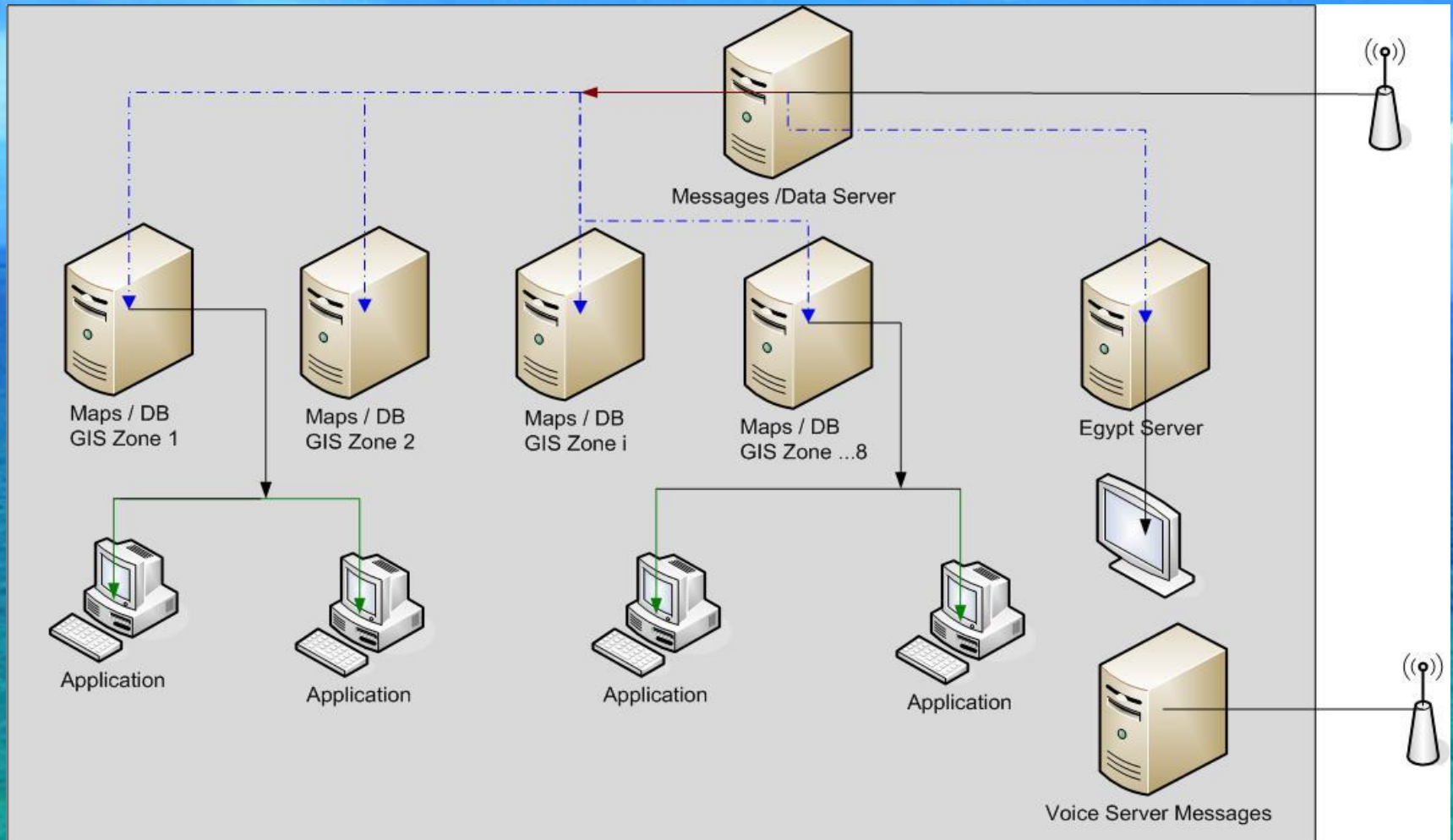
Online Tracking

An aerial photograph of a tropical island. The water in the foreground is a vibrant turquoise color, transitioning to a deeper blue as it extends towards the horizon. The island in the distance is lush with green vegetation and has a small town or settlement visible on its coast. The sky is a bright, clear blue, filled with scattered, wispy white clouds. The overall scene is serene and picturesque.

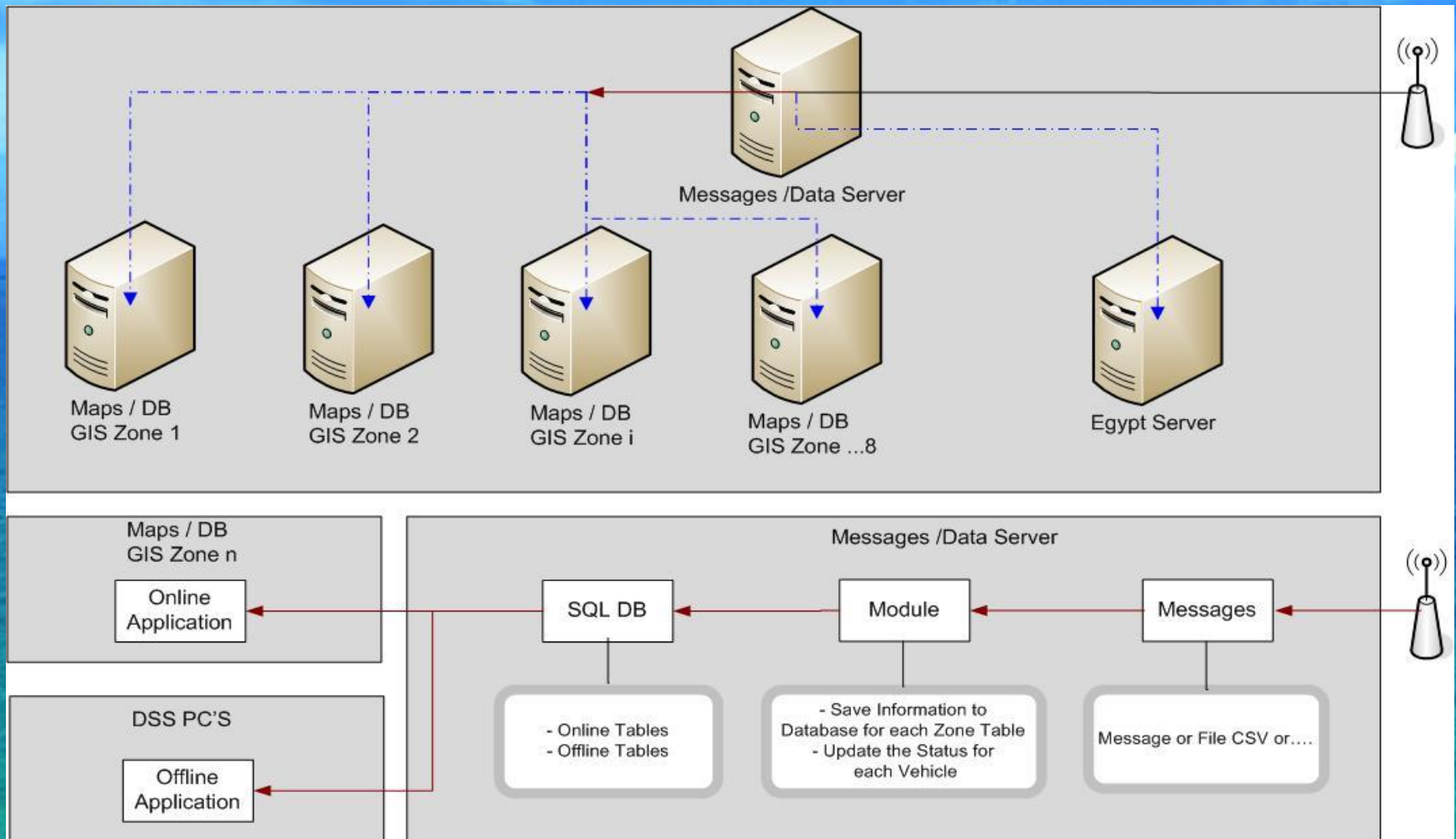
Applications



Control Room



Application Development



Online Tracking

The screenshot displays the AVL System Online Tracking interface. The main map shows a city area with five numbered vehicle locations: 1 (green), 2 (red), 3 (red), 4 (green), and 5 (green). The interface includes a Map Legend, Vehicles Status, and All Vehicles panels.

Map Legend

- Cairo
- giza
- all_builds
- Districts_geo

Vehicles Status

- 2 Not Available (In Work)
- 3 Not Available (Problem)
- 1 Available
- 4 Available
- 5 Available

All Vehicles

- 1 Car No. 1
- 2 Car No. 2
- 3 Car No. 3
- 4 Car No. 4
- 5 Car No. 5

Offline Tracking

An aerial photograph of a vast, clear ocean. The water transitions from a deep blue in the distance to a vibrant turquoise and light green in the foreground, indicating shallow depths. In the middle distance, a small, low-lying island with some buildings and vegetation is visible. The sky is a deep blue, filled with scattered, wispy white clouds. The overall scene is bright and serene.

Applications

GIS System •

Offline Tracking System •

Land Mark Locator •

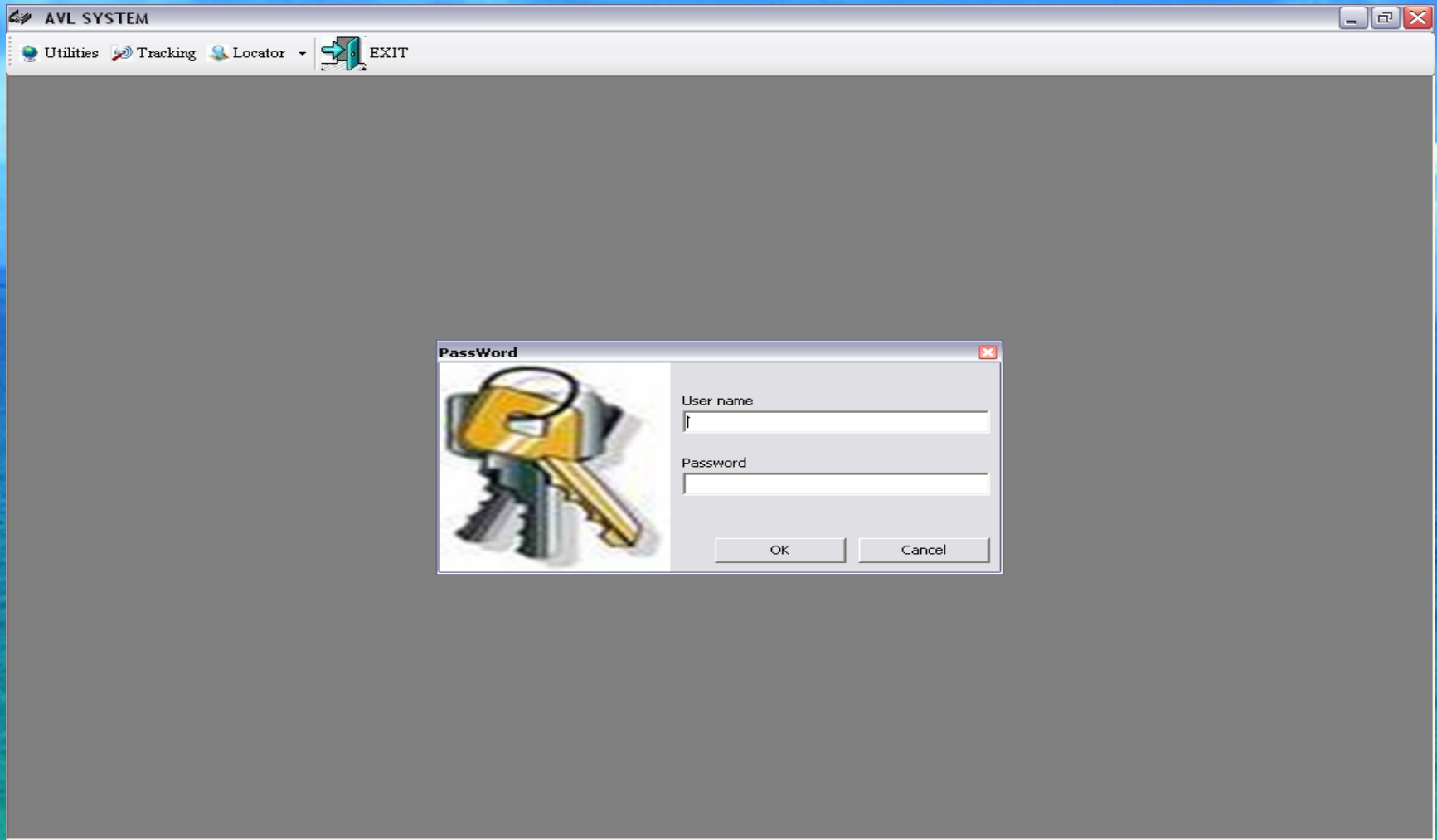
Navigation System •

Fleet Management System •

GIS System

Is an application that helps the average user the basic functions of GIS easily through screens using simplified and expressing a comprehensive control functions in the presentation of digital maps and databases of geographic information systems in accordance with the proposed design of the user with control in the selection of strata layers displayed and arranged, color, and style of display and control functions in View map (zoom in and zoom out and view the scenery and view the previous total) and measure distances and coordinates and functions of the modified maps and functions of converting files CSV files resulting from the tracking devices to shape files and data files.

GIS System



GIS System

The screenshot displays the AVL SYSTEM GIS application window. The interface includes a menu bar (Utilities, Tracking, Locator, EXIT), a toolbar with navigation and editing tools, and a main map area showing a city street grid with purple building footprints. Three callout boxes highlight key components: 'Tools' points to the toolbar, 'Layers' points to the Legend panel, and 'Layer Properties' points to the Layer Properties dialog box.

Tools

Layers

Layer Properties

Layer Properties	
Bounding Box	315750.266355522,
Bounding Box	3299980.82231665,
Bounding Box	0, 0
Comments	
File name	C:\Shp\giza.shp
Handle	2
Projection	WGS 1984 UTM Zone
Legend Properties	
Expanded Legend	False
Legend Picture	(none)
Symbology	
Coloring Scheme	[None]
Display Name	giza
Dynamic Visibility	Disabled
Label Setup	Edit...
Labels Visible	True
Line Color	DimGray
Line Style	IsNone
Line Width	1
Map Tooltip Filter	None
Map Tooltips Enabled	False
Vertex Color	Black
Vertex Size	2
Vertices Visible	False

Offline Tracking System

This allows the application displays flight (detailed view) by the vehicles on digital maps, with a view and identify ways through which to view multiple reports for this flight (report year, the report is based on the region, the report is based on the speed, the report is based on streets).

Offline Tracking System

The screenshot displays the AVL System interface, titled "نظام التحليلات الجغرافية - AVL System". The main window shows a map with a yellow tracking path. The sidebar on the left contains the following elements:

- Trips** section:
 - Trip ID: 1001090920090909 (highlighted with a blue circle and a callout box labeled "View Trip")
 - Fast Preview (selected) / Full Preview
 - Start button
 - Stop button
- Data** section:
 - Easting (E): 326723.570813
 - Northing (N): 3326137.62274
 - Speed: 45
 - Date: 8/26/2003 9:30:10 AM
 - Serial No: 4
 - ID No: 157
 - Refresh button

The map shows a yellow path starting from the bottom left, moving north, then east, then north again, and finally east towards the right edge of the map. A blue callout box labeled "View Trip Data" points to the sidebar area.

Offline Tracking System

The screenshot displays the AVL System software interface. The title bar reads "AVL System - نظام التحليلات الجغرافية". The menu bar includes "GIS Utilities", "Fleet management", "Tracking", "Locator", and "EXIT". The main window features a map of a city street grid with two tracking routes: a blue route and a green route. A blue callout box with the text "View 2 Trips" is positioned over the blue route. On the left side, there is a "Trips" panel with the following controls:

- Tracking**
 - Trip ID: 1001090920090909
 - Fast Preview Full Preview
 - Start button
 - Stop button
- Data**
 - Easting (E): 326723.570813
 - Northing (N): 3326137.62274
 - Speed: 45
 - Date: 8/26/2003 9:30:10 AM
 - Serial No: 4
 - ID No: 157
 - Refresh button

Offline Tracking System

The screenshot displays the AVL System software interface. The title bar reads "AVL System - نظام التحليلات الجغرافية". The menu bar includes "GIS Utilities", "Fleet management", "Tracking", "Locator", and "EXIT". The main window features a map with a blue tracking path and a "Generate Report" callout. On the left, a "Reports" panel is visible with the following options:

- Normal Report
- TrackID Report
- Speed Limit Report

The "TrackID Report" option is selected, and a "Show Report" button is located below the options. The map shows a blue path with a green segment, and a callout box with the text "Generate Report" points to the path.

Offline Tracking System

Tracks limited Report

Main Report

TrackID Limited Report 4

Vehicle ID: 1002 **Driver ID: 101**

Date	Latitude	Longitude	Speed
8/25/2003 6:45:49 PM	3,326,299.133	326,854.361	21
8/25/2003 6:47:06 PM	3,326,907.341	327,303.679	36
8/25/2003 6:47:10 PM	3,326,936.357	327,340.932	42
8/25/2003 6:48:20 PM	3,327,049.165	328,007.446	19
8/25/2003 6:48:27 PM	3,327,032.003	328,040.772	32
8/25/2003 6:48:45 PM	3,326,830.315	328,082.326	38
8/25/2003 6:48:55 PM	3,326,748.942	328,111.115	28
8/25/2003 6:50:07 PM	3,326,548.228	328,196.062	14
8/25/2003 6:51:37 PM	3,325,553.137	328,321.966	44
8/25/2003 9:24:56 PM	3,327,515.554	332,224.961	71
8/25/2003 9:25:24 PM	3,327,706.781	332,661.125	59
8/25/2003 9:25:30 PM	3,327,756.025	332,739.495	57
8/25/2003 9:25:54 PM	3,327,971.269	333,117.719	78
8/25/2003 9:26:16 PM	3,328,325.563	333,492.007	83
8/25/2003 9:26:41 PM	3,328,592.449	333,888.651	57
8/25/2003 9:26:52 PM	3,328,670.452	334,035.888	58

Trip Report

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Offline Tracking System

The screenshot displays the AVL System interface, titled "نظام التحليلات الجغرافية - AVL System". The main menu includes "GIS Utilities", "Fleet management", "Tracking", "Locator", and "EXIT". The interface features a map of a city street grid. On the left, a "Reports" panel is visible, containing the following options:

- Normal Report
- TrackID Report
- Speed Limit Report

The "Speed Limit Report" option is selected. Below it, there is a dropdown menu showing ">" and a text input field containing "20". A "Show Report" button is located at the bottom of this panel. A blue callout box with the text "Speed Report" points to the "Speed Limit Report" option.

Offline Tracking System

Speed Limited Report

Main Report

Speed Limited Report

Date	Latitude	Longitude	Speed	TrackID
9/9/2009 09:15:10	3,325,648.959	326,207.866	21	1
9/9/2009 09:20:01	3,325,501.365	326,351.883	30	1
9/9/2009 09:25:12	3,325,593.480	326,750.700	32	1
9/9/2009 09:30:10	3,326,037.881	327,065.842	40	1
9/9/2009 09:35:23	3,325,859.356	327,287.821	45	1
9/9/2009 09:39:40	3,325,263.663	327,509.810	40	1
9/9/2009 09:45:00	3,325,415.258	328,105.351	35	1
1/9/2009 8:10:20	3,327,023.249	327,152.468	21	2
1/9/2009 12:10:00	3,326,124.807	326,529.845	40	2
12/9/2009 10:15:23	3,325,696.792	328,143.250	21	3
12/9/2009 11:00:00	3,325,713.034	329,339.769	22	3
8/25/2003 6:45:49 PM	3,326,299.133	326,854.361	21	4
8/25/2003 6:47:06 PM	3,326,907.341	327,303.679	36	4
8/25/2003 6:47:10 PM	3,326,936.357	327,340.932	42	4
8/25/2003 6:48:27 PM	3,327,032.003	328,040.772	32	4
8/25/2003 6:48:45 PM	3,326,830.315	328,082.326	38	4
8/25/2003 6:48:55 PM	3,326,748.942	328,111.115	28	4
8/25/2003 6:51:37 PM	3,325,553.137	328,321.966	44	4
8/25/2003 9:24:56 PM	3,327,515.554	332,224.961	71	4
8/25/2003 9:25:24 PM	3,327,706.781	332,661.125	59	4
8/25/2003 9:25:38 PM	3,327,756.825	332,700.485	57	4

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Trip sort ID

Trip # 1

Trip # 2

Trip # 3

Trip # 4

Speed Report

Offline Tracking System

The screenshot displays the AVL System software interface. The main window is titled "AVL System - نظام التحليلات الجغرافية". The interface includes a menu bar with "Utilities", "Fleet management", "Tracking", "Locator", and "EXIT". Below the menu bar is a toolbar with icons for "Track", "Query", "Back", and "Refresh".

A "Query" dialog box is open, showing search criteria. The "Trip Date" section is selected, with a date range from "1980/01/01 12:51:00" to "2009/12/22 01:50:26". Other options include "Vehicle" (1001), "Driver" (Ahmad Mohamad), and "TripID" (1001090920090909). The "View on DataGrid" button is highlighted with a blue circle.

Below the query options is a table with the following data:

Trip_ID	TripStt	TripEnd	DriverName	DriverID
1001090920090...	9/9/2009 9:09 AM	9/9/2009 3:09 PM	Ahmad Mohamad	1
1001010920090...	9/1/2009 7:10 AM	9/1/2009 1:10 PM	Ahmad Mohamad	3
1002120920091...	9/12/2009 10:0...	9/12/2009 1:00 PM	Mostafa Mahmoud	2
1003250820030...	8/25/2003 6:46 ...	8/25/2003 12:4...	Ahmad Mohamad	3
1002170520050...	5/17/2005 1:46 PM	5/17/2005 7:46 PM	Ahmad Mohamad	1
1003121120091...	11/12/2009 2:0...	11/12/2009 5:0...	Omar Mohamad	4

A blue callout box labeled "Date Search" points to the date range input fields in the query dialog. The background shows a map of a city street grid.

The Windows taskbar at the bottom shows the Start button and several open applications: Windows Live..., Microsoft Pow..., System Speci..., MapWindow, MapWindow (...), AVL System - ..., Utilities5.1 - P..., and Query. The system clock shows 1:51 PM.

Offline Tracking System

AVL System - نظام التحليلات الجغرافية

Utilities Fleet management Tracking Locator EXIT

Track Query Back Refresh

Search by the driver and the trip to show on the map

Query

Trip Date
From: 1980/01/01 12:51:00 To: 2009/12/22 01:50:26

Vehicle: 1001

Driver: Ahmad Mohamad

TripID: 1001090920090909

View on DataGrid View on Map

Trip_ID	TripStt	TripEnd	DriverName	DriverID
▶ 1001090920090...	9/9/2009 9:09 AM	9/9/2009 3:09 PM	Ahmad Mohamad	1
1002170520050...	5/17/2005 1:46 PM	5/17/2005 7:46 PM	Ahmad Mohamad	1
*				

Close

start Windows Live ... Microsoft Pow... System Speci... MapWindow MapWindow (... AVL System - ... Query1 - Paint Query EN 1:52 PM

Land Mark Locator

This application allows the user to search all the hallmarks of (rocks, places of gathering fish, ports, borders, oil rig, ...) about the point at which stopped at the space after selecting a user who is looking.

Land Mark Locator

The image shows a screenshot of the 'AVL SYSTEM' application window, specifically the 'Land Mark Locator' feature. The interface includes a menu bar with 'Utilities', 'Tracking', 'Locator', and 'EXIT'. Below the menu is a toolbar with navigation icons. The main area is a map of a city with various landmarks highlighted in different colors: blue for schools, green for sports centers, orange for mosques, and pink for embassies. A legend on the left side of the map lists these categories with corresponding color swatches. Below the legend is a list of landmark names in Arabic, including 'نادي الزمالة', 'مسجد الجامعة الشاذلية', 'سفارة عمان', 'سفارة', 'كنيسة', 'مستشفى السلام', 'مستشفى السلام', 'سفارة أنجولا', 'مسجد مصطفى محمود', and 'عيادة مسجد محمود'. A 'Refresh' button is located below the list. At the bottom left, there is a 'Locate' section with a 'Within 1000 Meters' input field and a 'Locate' button, along with a 'Back' button.

AVL SYSTEM

Utilities Tracking Locator EXIT

Location

- فنادق
- مطاعم
- شرطة
- هيئات حكومية
- سفارات
- مدارس
- مستشفيات
- مكاتب
- نوادى
- كنائس و مساجد
- جامعات
- معاهد

LandMarks Name

- نادي الزمالة
- مسجد الجامعة الشاذلية
- سفارة عمان
- سفارة
- كنيسة
- مستشفى السلام
- مستشفى السلام
- سفارة أنجولا
- مسجد مصطفى محمود
- عيادة مسجد محمود

Refresh

Locate

Within 1000 Meters Locate

Back

Navigation System

This application allows the user to show the battle of Mo on the map with manifest data on the vehicle traveling in such coordinates, the speed of the vehicle and the height above sea level .. Show that with a voice warning messages when you approach a distinctive signs

Navigation System

البحر المتوسط

ادوات التحكم مثل
تكبير, تصغير, اختيار
عنصر و قياس
مسافة بين نقطتين

ادوات

بيانات ال GPS الاتصال

حفظ

تغيير

تصغير

تعريف

اختيار

خروج

تكبير للكل

تكبير للسابق

محررة الخريطة

قياس المسافة

Lat: 29.991 Long: 24.420

Connect to the remote GPS

البحر المتوسط

العلامات المميزة

2000 2000 2000 1000 1000 1000

libiya (libya) ra's lanuf alburayqah azizuwytih surt

tulmaythah darnah

gutubruqimbs mina bardiyah gulf of salum sidi barra

الاتصال بآلة GPS

سرعة الاتصال 9600 مخرج الاتصال COM2

اتصل

اتصال تلقائي غلق

GPS Connect

ادوات

بيانات ال GPS اتصال

حفظ اختيار تكبير تصغير تعريف

خروج تكبير للكل تكبير للماسح محرحة الخريطة قياس المسافة

Lat: 29.900 Long: 25.715

Point location data of the GPS device

The screenshot displays a GPS application interface. At the top, the title bar reads "البحر المتوسط" (Mediterranean Sea). The main map area shows a coastal region with various locations labeled in Arabic, including "surt", "libiya (libya)", "ra's lanuf", "al burayqah", "azizuytinah", "tulumaythah", "darfnah", "gutubria", and "sidi barra". Bathymetric contours are visible, with labels for 1000, 2000, and 3000 meters. A blue callout box points to a specific location on the map, containing the text: "Alpha Signed point data Coordinates, speed, direction and height above sea level". Another blue callout box points to a compass icon in the bottom right, labeled "Compass".

In the bottom right corner, there is a window titled "بيانات ال GPS" (GPS Data). It contains the following information:

- Status: No Fix
- خطوط الطول (Y): (Longitude)
- خطوط العرض (X): (Latitude)
- عدد الاقمار الصناعية: (Number of satellites)
- الارتفاع: (Altitude)
- PDOP: (Precision Dilution of Precision)
- HDOP: (Horizontal Dilution of Precision)
- VDOP: (Vertical Dilution of Precision)
- السرعة: (Speed)
- الجهة: (Direction)

A compass rose is also visible in this window. At the bottom left of the application, the coordinates are displayed as "Lat: 33.165 Long: 18.849".

Satellite data from the GPS

The screenshot displays a GPS application interface. The main window shows a map of the Mediterranean Sea with various locations labeled in Arabic, including Ras Kaboudia, Misratah, and Surt. A blue callout box with the text "Satellite data and number" points to a small window titled "بيانات ال GPS" (GPS Data). This window contains a circular plot of satellite signals, a table of DOP values, and a checkbox for "إظهار البوصلة فقط" (Show compass only).

العلاقات المميزة

البحر المتوسط

المساحة

الخيارات

تعريف

تصغير

تكبير

حفظ

خروج

تغيير للفل

تغيير للمساق

محرك الخريطة

بيانات ال GPS

البيانات

الاقمار

NMEA

عدد الاقمار الصناعية المستخدمة:

PDOP: HDOP: VDOP:

نسب اشارات الاقمار

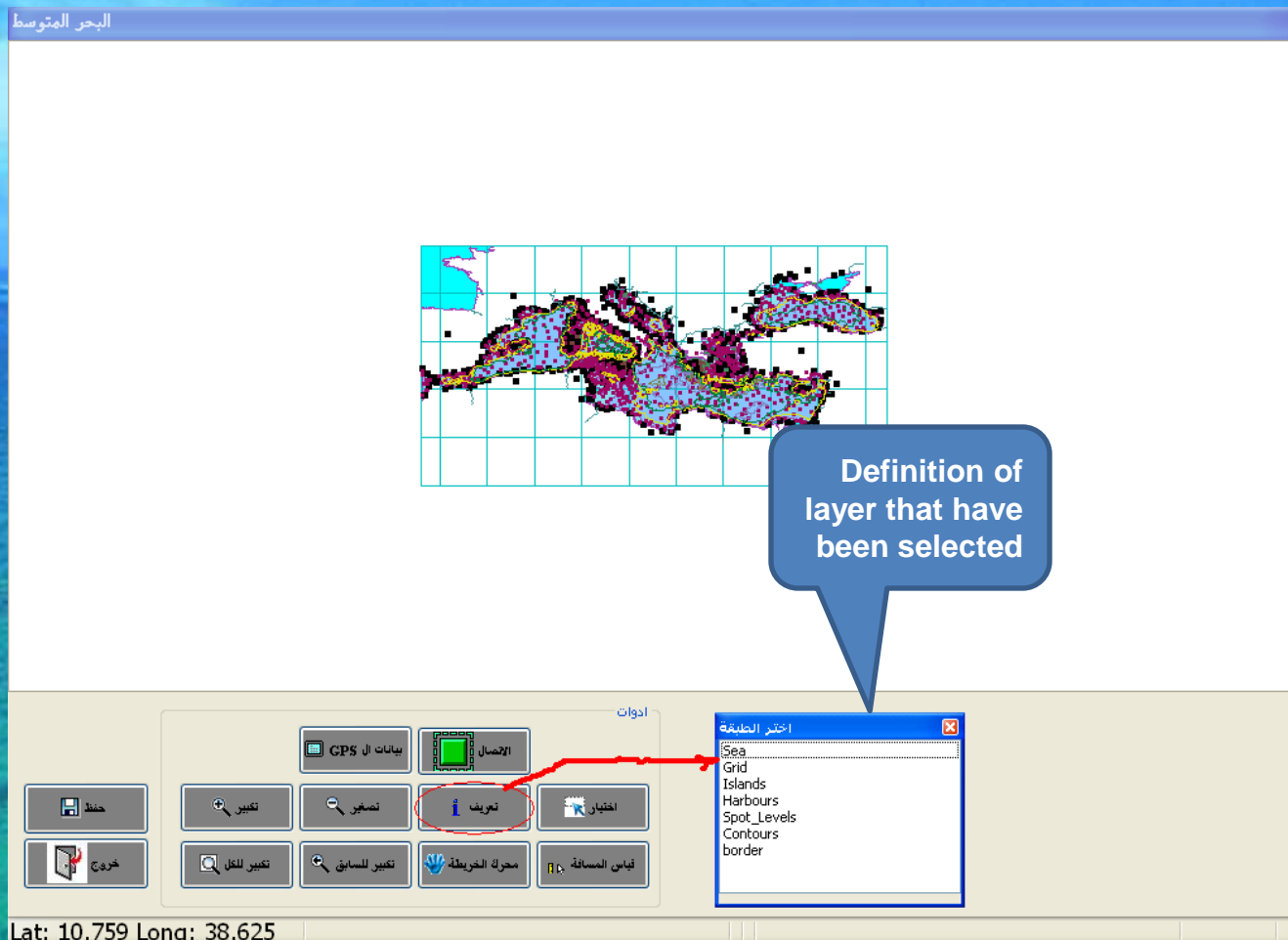
إظهار البوصلة فقط

اغلق

Lat: 29.583 Long: 15.324

Definition of the map data

البحر المتوسط



Definition of layer that have been selected

ادوات

بيانات الـ GPS الاتصال

حفظ

تغيير

تصغير

تعريف

اختيار

خروج

تغيير للكل

تغيير للسابق

محو الخريطة

قياس المسافة

اختار الطبقة

- Sea
- Grid
- Islands
- Harbours
- Spot_Levels
- Contours
- border

Lat: 10.759 Long: 38.625

The Landmarks

البحر المتوسط

Landmarks List

- العلامات المميزة
- بومة يتبول
- بغاز
- مخور
- شعب مرجانية
- حوشة
- منطقة محظورة
- منطقة حدودية
- مياه ضحلة
- مكاتب
- قنار

ادوات

بيانات ال GPS اتصل

حفظ اختيار

تكبير تكبير للكل

تصغير تكبير للمسايق

تعريف محرك الخريطة

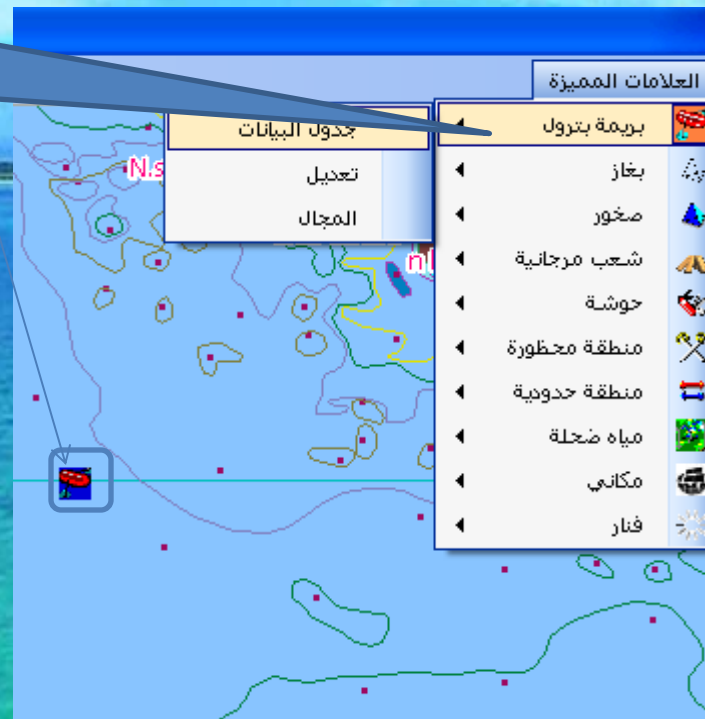
قياس المسافة

خروج

Lat: 36.338 Long: 23.575

Control Settings landmarks

Control markings (such as to show the data table, modify and add a sign, warning messages when be near of them)



Control to show my location on the map



Fleet Management System

Fleet management system is characterized by the fleet that covers all the requirements of the institution and ensure that it achieve a set of goals that revolve around the reduction of transport costs, and optimal use of the resources of the fleet, as well as the integration of fleet management system, system management workshops, warehouses, and distribution system products.

Fleet Management System

AVL System - نظام التحليلات الجغرافية

Utilities Fleet management Tracking Locator EXIT

Fleet Management Menues

Vehicles

Drivers

Employees

Employees Trips

Trips

Look Up Codes

Vehicle Types

Sectors

GPS Units

BACK

1 of 4

Move first

Move previous

Move next

Move last

Add new

Delete

Save Data

Report

Back

Vehicle Details

Vehicle ID: 1001

Vehicle Plate Number: 123GHI

Sector: Cairo

GPS: A32

Vehicle Manufacturing Details

Vehicle Color: white

Vehicle Motor Number: 11

Vehicle type: Chevrolet

Vehicle Chassis Number: 258963341

Vehicle Model: 2002

Vehicle Manufacture Date: 9/2002

License/Repairing Details

Vehicle License Start Date: 11/2/2001

Vehicle License End Date: 11/2/2011

Vehicle Repair Date: 11/2/2009

Vehicle Accidental History: False

Report

GPS Sector Vehicle Type Vehicle Model All

Create Report

عرض بيانات المركبة

القوائم المختلفة لأسطول المركبات

إظهار تقارير عن المكبات

Fleet Management System

AVL System - نظام التحليلات الجغرافية

Utilities Fleet management Tracking Locator EXIT

Fleet Management Menus

- Vehicles
- Drivers**
- Employees
- Employees Trips
- Trips

Look Up Codes

- Vehicle Types
- Sectors
- GPS Units

BACK

Move first
Move previous
1 of 4
Move next
Move last
Add new
Delete
Save Data
Report
Back

Driver Details

Driver ID: 101
Driver Name: Ahmad Mohamad
Driver Address: 6 elzohour st
Driver Mobile: 0111010101
Driver Home Tel: 023546987
Driver Identify: 1254780

License Details

Driver license ID: 123458
Driver license Start Date: 12/12/2003
Driver license End Date: 12/12/2013

Hiring Details

Driver Insurance: True
Driver Hiring Date: 11/2008

Showing driver data

Reports show the driver

Various lists of the vehicle fleet

Showing driver data

Reports show the driver

Reports

Trip Report

25/08/2003 06:45:49 بتاريخ 4,000,585 تقرير عام عن خط سير المركبة

Street Name	District	Entry Speed (Km/hr)	Date / Entry Time	Distance From Start (Km)
شارع جامعة الدول العربية	العجوزة	21	25/08/2003 06:45:49م	0.75
شارع ٢٦ يوليو	العجوزة	36	25/08/2003 06:47:06م	1.512
كوبرى ١٥ مايو				10م 1.559
شارع الجبلية				20م 2.236
شارع ٢٦ يوليو				27م 2.274
شارع المنصور محمد				45م 2.48
شارع صلاح الدين				55م 2.567
شارع الكامل محمد				07م 2.844
كوبرى ٦ أكتوبر				37م 3.86
شارع غمرة				56م 12.578
شارع معمل التكرير - الفرز سابقا				24م 13.055
كوبرى ٦ أكتوبر				30م 13.148
حارة نور الدين	الظاهر	78	25/08/2003 09:25:54م	13.588

Reporter

Reporter

Normal Report

Speed Limit Report Km/hr

Distance Limit Report

District Limit Report

NO of Stops Report Stop Speed Km/hr

Report Cancel

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Reports

frmReport_m

Main Report

Vehicles Report

Vehicle_ID	Vehicle Plate Number	Vehicle Type Name	Color	Manufacture Date	Repair Date	Sector Name	GPS Type
1001	123GHI	Chivrolet	white	9/2002	11/2/2009	Cairo	A32
1002	24FRLO	Toyota	Red	6/2004	11/2/2009	Cairo	X1
1003	123DSR	Nissan	red	7/2007	11/2/2009	Cairo	X23
1004	15893584	Toyota	Blue	11/2009	11/2/2009	Giza	X23

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

I want to introduce the idea

In countries that suffer from the difficulty of applying stop fishing Following are suggested •

the work of a group of vessel in the period to stop fishing in order to experience deep-sea fishing or economic waters of those countries, provided installation of tracking devices and monitoring of those ships selected so as to encourage fishermen to accept periods stop fishing and the application of surveillance and tracking of fishing vessels gradually each year in these countries and thus give time Fish growth and the preservation of fish production to those countries and provide a return to fishermen in times of application downtime and surveillance systems for vessels •

Thank You!

