

## Real-Time Location Technology



Innovative Location Technology

# The InnoVate Platform

## InnoVate Platform

**The system** is a unified solution for collecting, analyzing and presenting mobile users location.

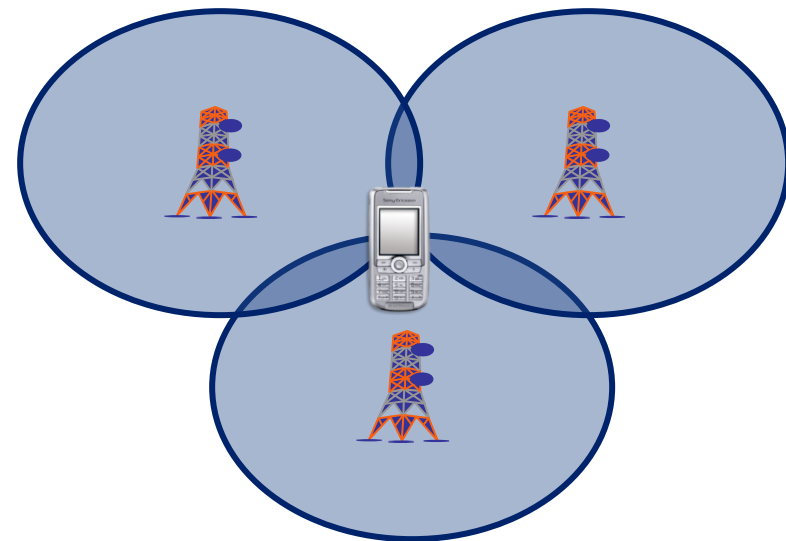
Running on the **InnoVate platform**, it provides this data in real time, from anywhere in the world.



## Real-time Information

The system delivers real-time information on mobile users including:

- User status: user on\off, busy\not busy
- General info: hosting country,  
hosting operator, MSC (switch)
- User Location: Cell-ID  
(accuracy of 50-200m in urban area)



## Key Benefits

- ***Global coverage*** – delivers location information from all over the world
- ***Stealthy*** – All queries hidden from user and use only network information
- ***Real-time information*** – online network interrogation about mobile user status and locations
- ***Flexible deployment methods*** – installable on customer premises or to use a secured connection to one of the hubs around the world
- ***Multiple terminal support*** – delivers information to control stations or mobile handheld units in the field

# The System

## Innovative Location Technology

- Locator
- Analyzer
- System
- Logout



**Locator**

- ▶ Standard
- ▶ Advance
- ▶ Import

**Robot**

- ▶ User on net
- ▶ Safe Zone
- ▶ Country Zone
- ▶ Point 2 Point
- ▶ Import

Phone number (MSISDN)  ?

Number of queries  ?

Send query every  ▼ ?

Starting at  Now   ?

Last query at   ?

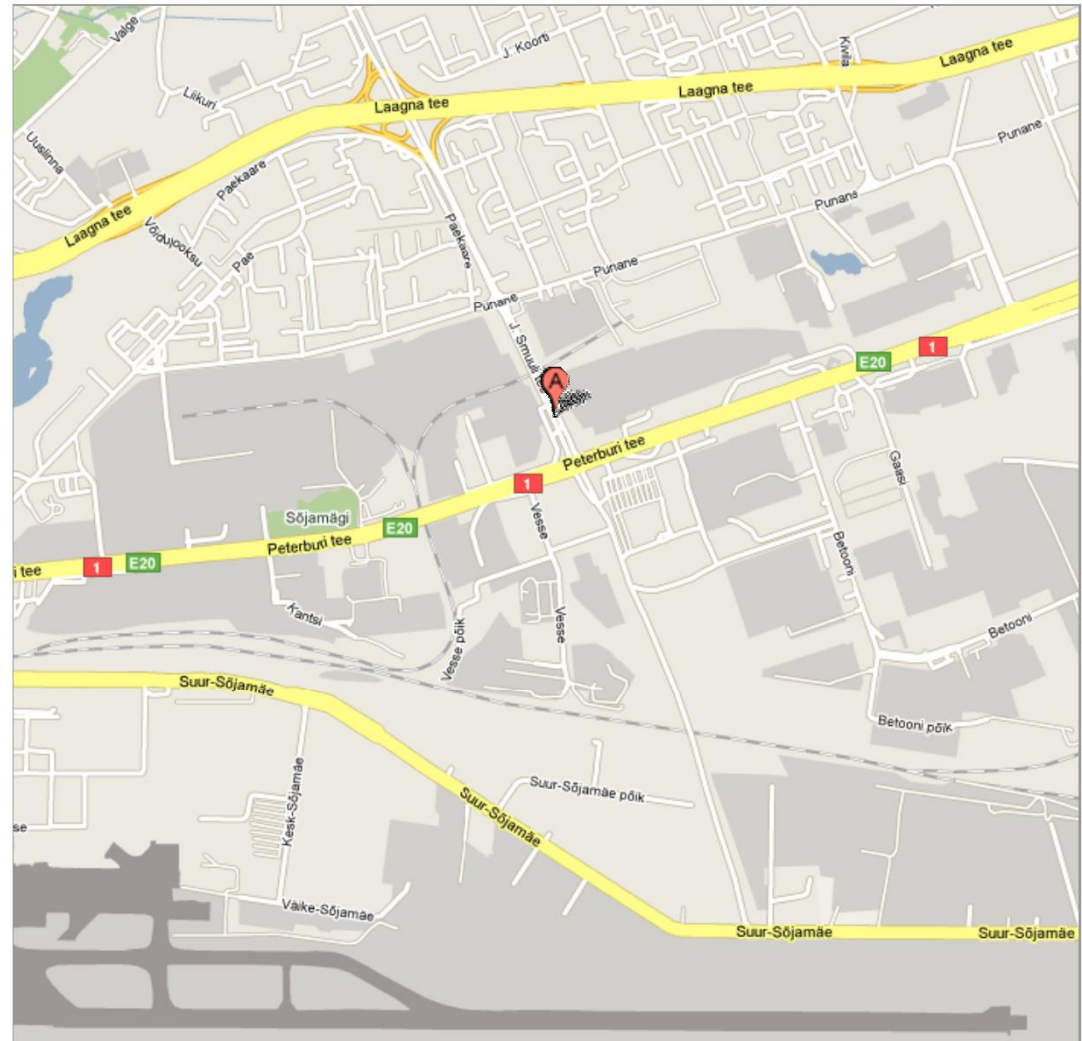
Update in the last  ▼ ?

SEND

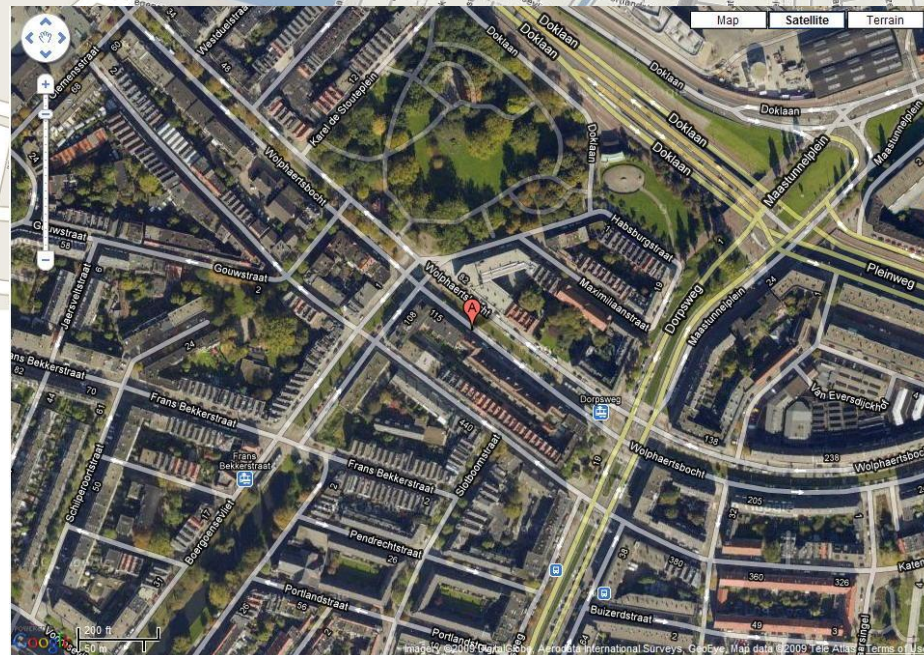
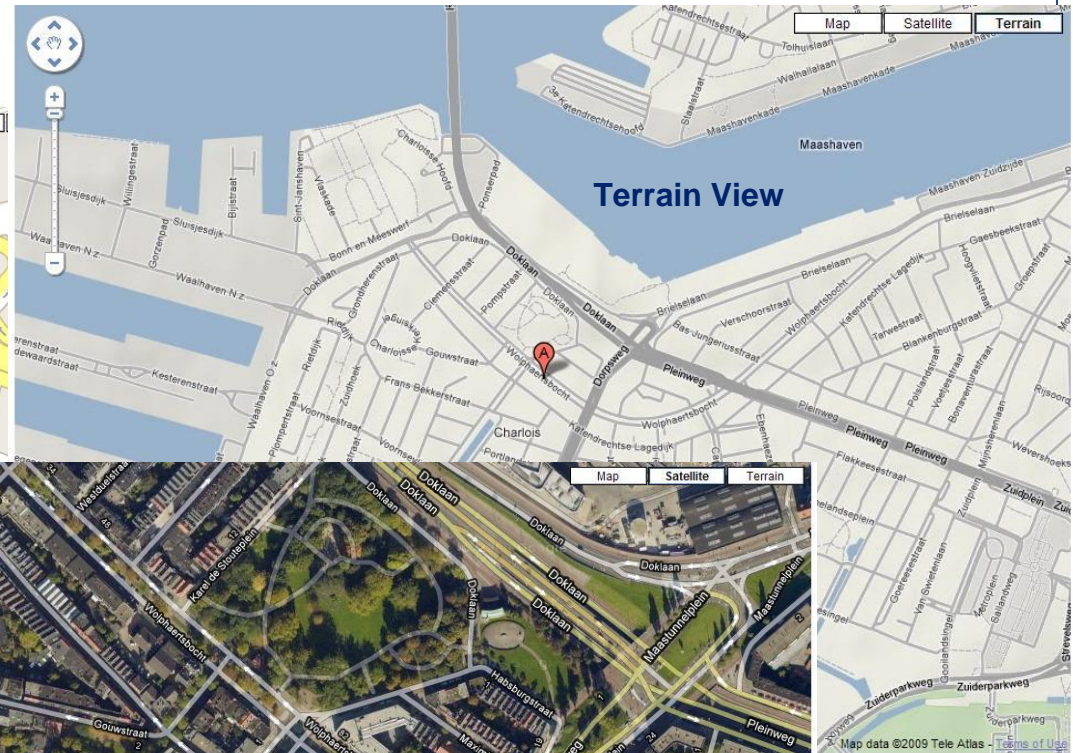
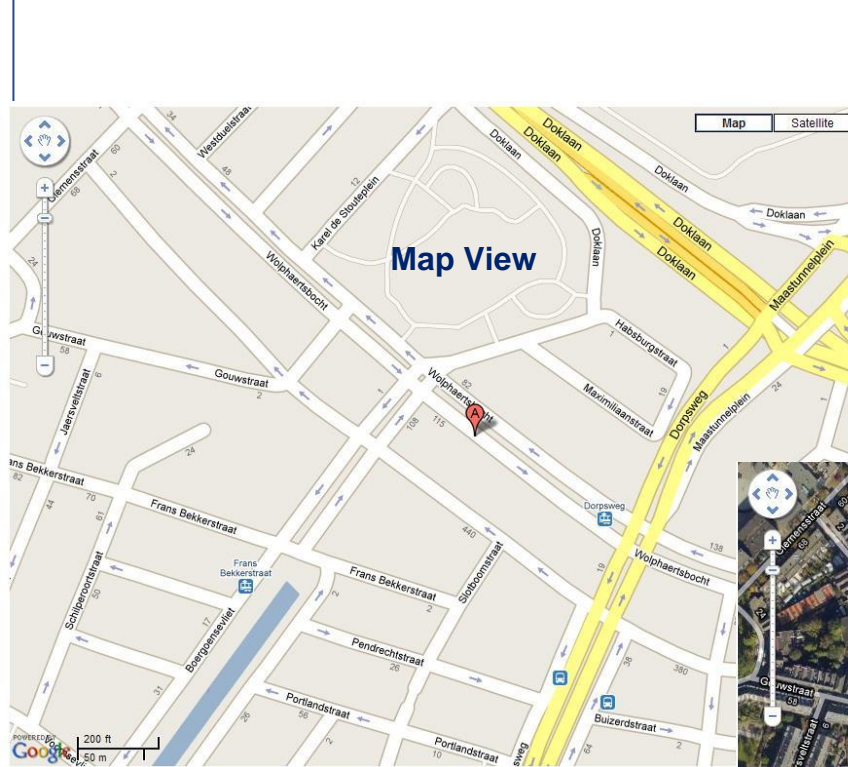


# Analyzing and Presenting Location Info

*Retrieves Cell-ID from GSM networks, analyzes and translates it to longitude / latitude info (connecting to several databases) and displays location on digital maps*



# Mapping Tools – Different Views



**Satellite View**

# Service Flow

Send location request based on phone number (MSISDN)



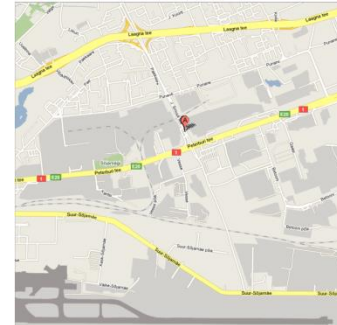
System interrogates GSM networks from all over the world



Retrieves and presents Cell ID and user status

Global Cell ID  
32F48500020278

Plots Cell ID onto digital map



Step I

Step II

Step III

Step IV



# Search Options



**Locator**

- ▶ Standard
- ▶ Advanced
- ▶ Import

to perform real-time queries

to perform complex real-time queries, using criteria

to select numbers from external file for standard and advanced queries

**Robot**

- ▶ User on net
- ▶ Safe Zone
- ▶ Country Zone
- ▶ Point 2 Point

alert as soon as a phone (presently off) is switched on

alert when a phone approaches/moves away from a selected point

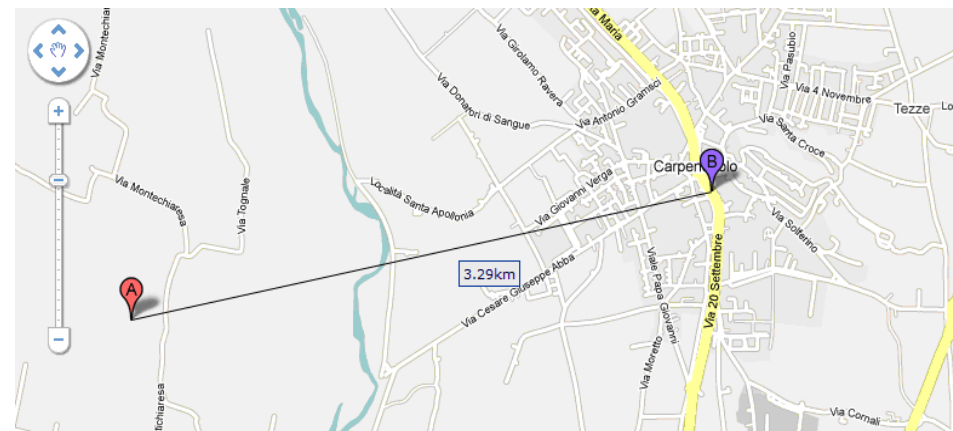
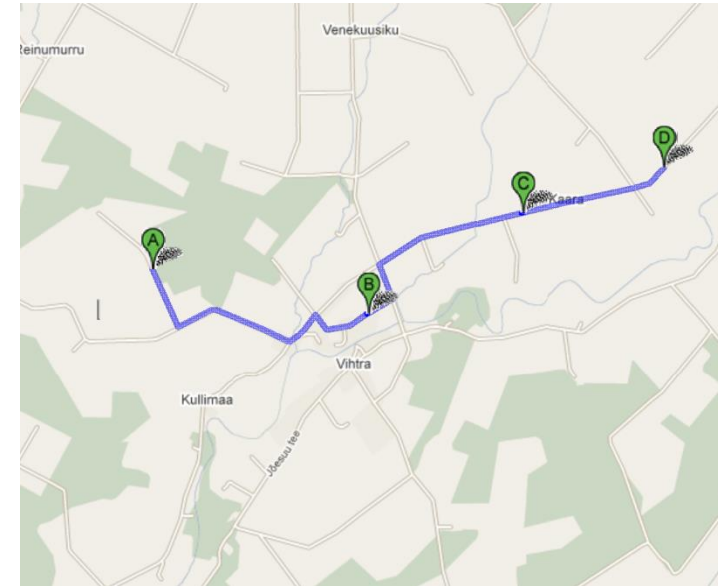
alert when a phone enters/leaves a selected country

alert when 2 phones approach/move away from each other



# Advanced Modules – Robot Pilot

*Customer can submit offline queries, the system automatically follows and reports all target movements when he get in/out of zone, country or near other mobile users*



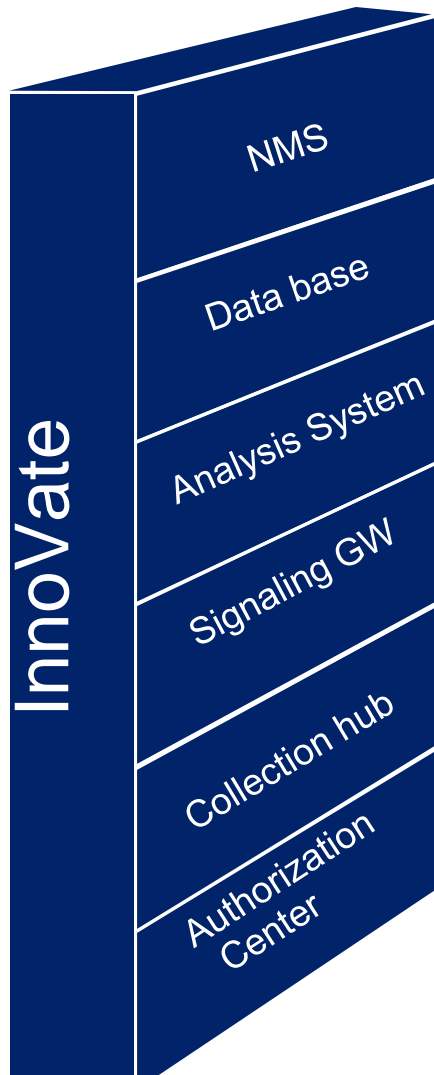
## Runner Module

- The Runner is an optional module that enables field teams to send and retrieve location information on selected targets to their mobile phone, direct them towards a targets by while they are on the move

“Move 1.5 Km North-East, 346 degrees  
to Tafawa Ballewa way”



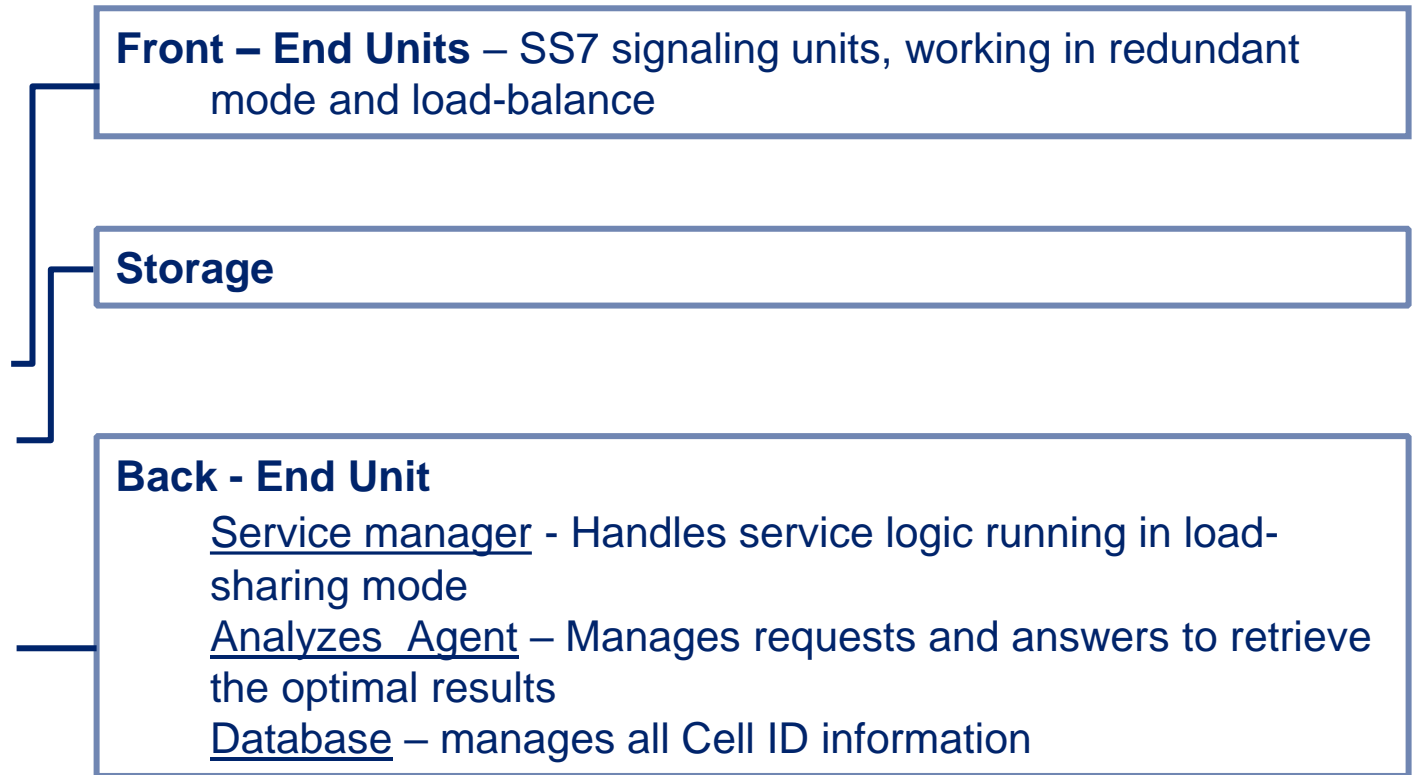
# InnoVate – System Module



The InnoVate system integrates management modules with SS7 gateways, analysis algorithms, databases & map engines to deliver a seamless end-to-end solution

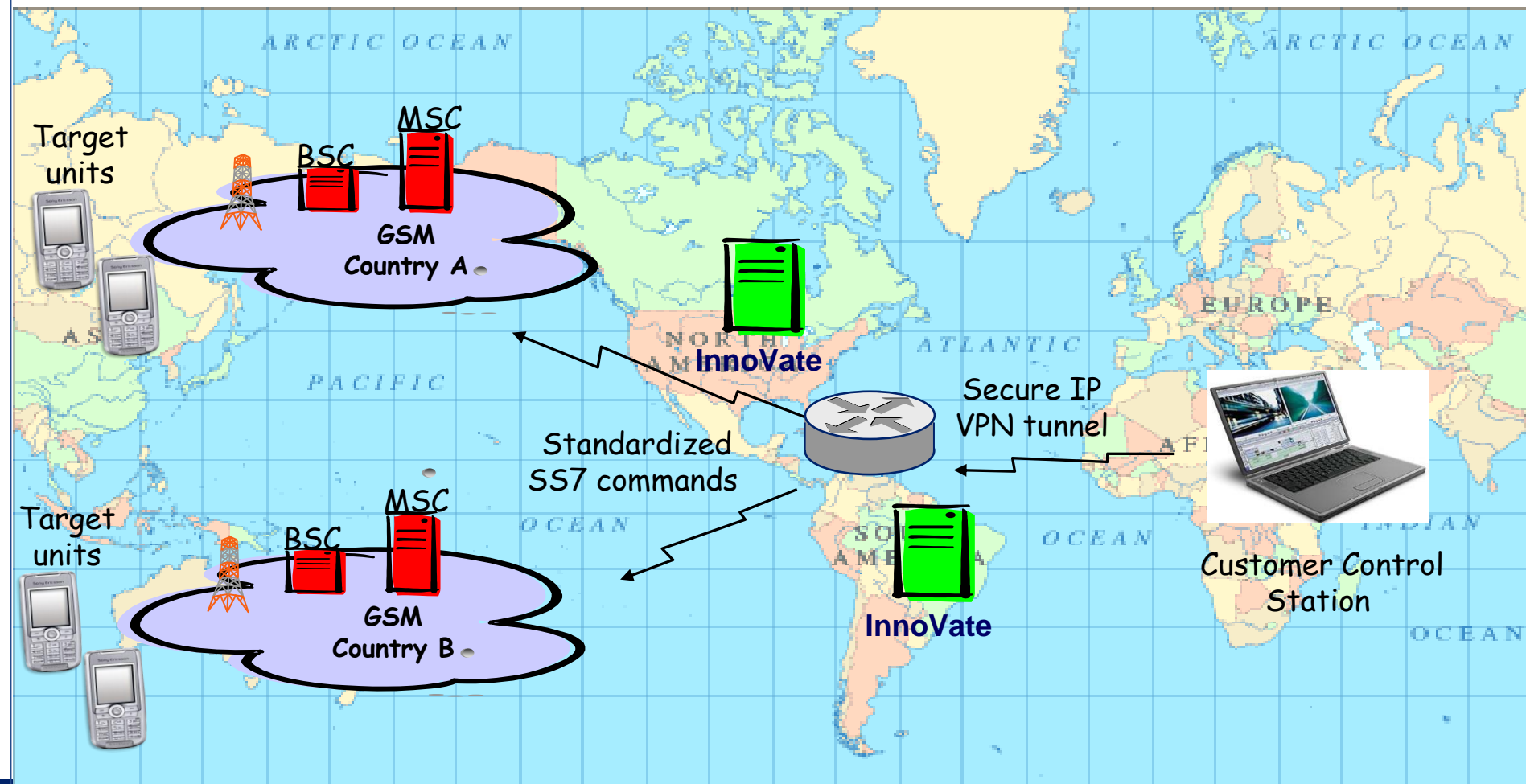
# InnoVate Cabinet

A Telco-grade platform based on COTS (Commercial Off-The-Shelf) modules supporting millions of queries



# Hosted Solution - High level architecture

Customer gets a secured VPN tunnel to one of the hubs managing the worldwide queries



Thank You

