

GIS for all

Democratization of benefits of GIS Technologies and Practices

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Traditionally large scale industries like Utilities, Infrastructure and Government sectors etc have got large share of the GIS deployment.

Signs are emerging suggesting things are changing and more segments have needs for GIS.



Let's look at few examples....

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An Emergency Service Provider.....



One of the challenges we face to launch services in a new state is availability of decent quality **base map data** which we can use to allocate and route the ambulances more efficiently and save precious times and more lives

EMRI executive



An e-commerce start-up.....



I can optimize logistics costs if I can **determine accurate locations** of the customers from their addresses. I have to rely on “local knowledge” of the workforce to accomplish that thus limiting my flexibility in who I can hire.....



A mid size bank.....

LOCATE ANY BANK BRANCH IN INDIA

(Select Bank Name then State then District then branch to see Details)
BankIFSC.com has All 151 Computerised Banks and their 103452 Branches Listed.

Guide:-

🔄 Click to Refresh Corresponding List

🔒 Field Disabled/Not Selected

Please look for the correct name of the bank, e.g. "Federal Bank" is Actually "The Federal Bank."

🔄

🔄 ANDHRA PRADESH ▼

🔄 HYDERABAD ▼

🔄 AMBERPET ▼

Details of , AMBERPET

Bank:

Address: H.NO:2-3-70/70/7, AMBERPET, HYDERABAD, ANDHRA PRADESH, PIN 500013

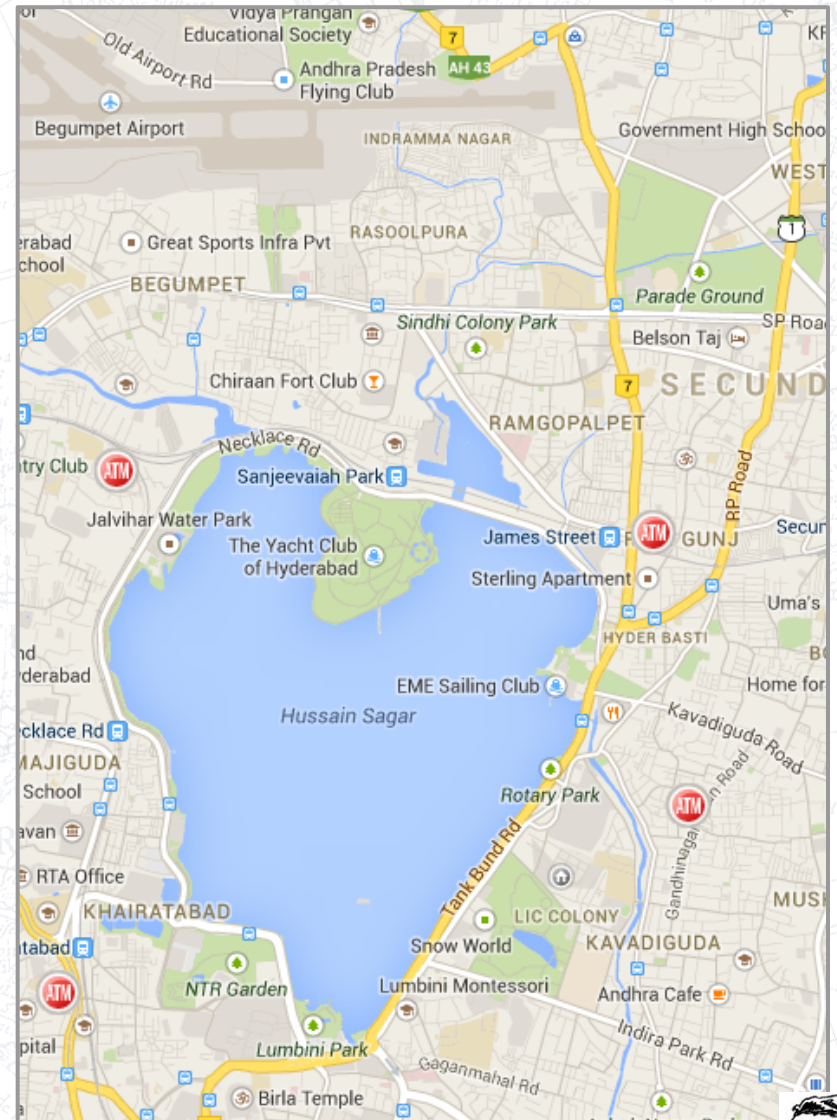
State: ANDHRA PRADESH

District: HYDERABAD (Click [here](#) for all the branches of "AXIS BANK" in "HYDERABAD" District)

Branch: AMBERPET

Contact: SHRI D B SRIKANTH

IFSC Code: UTIB0001808 (used for RTGS and NEFT transactions)



I want to embed a Branch/ATM locator in my website so my customers can see ATM locations on a map. But I don't know a **company** which can help in collecting the ATM locations as well as **implement the solution end-to-end.**

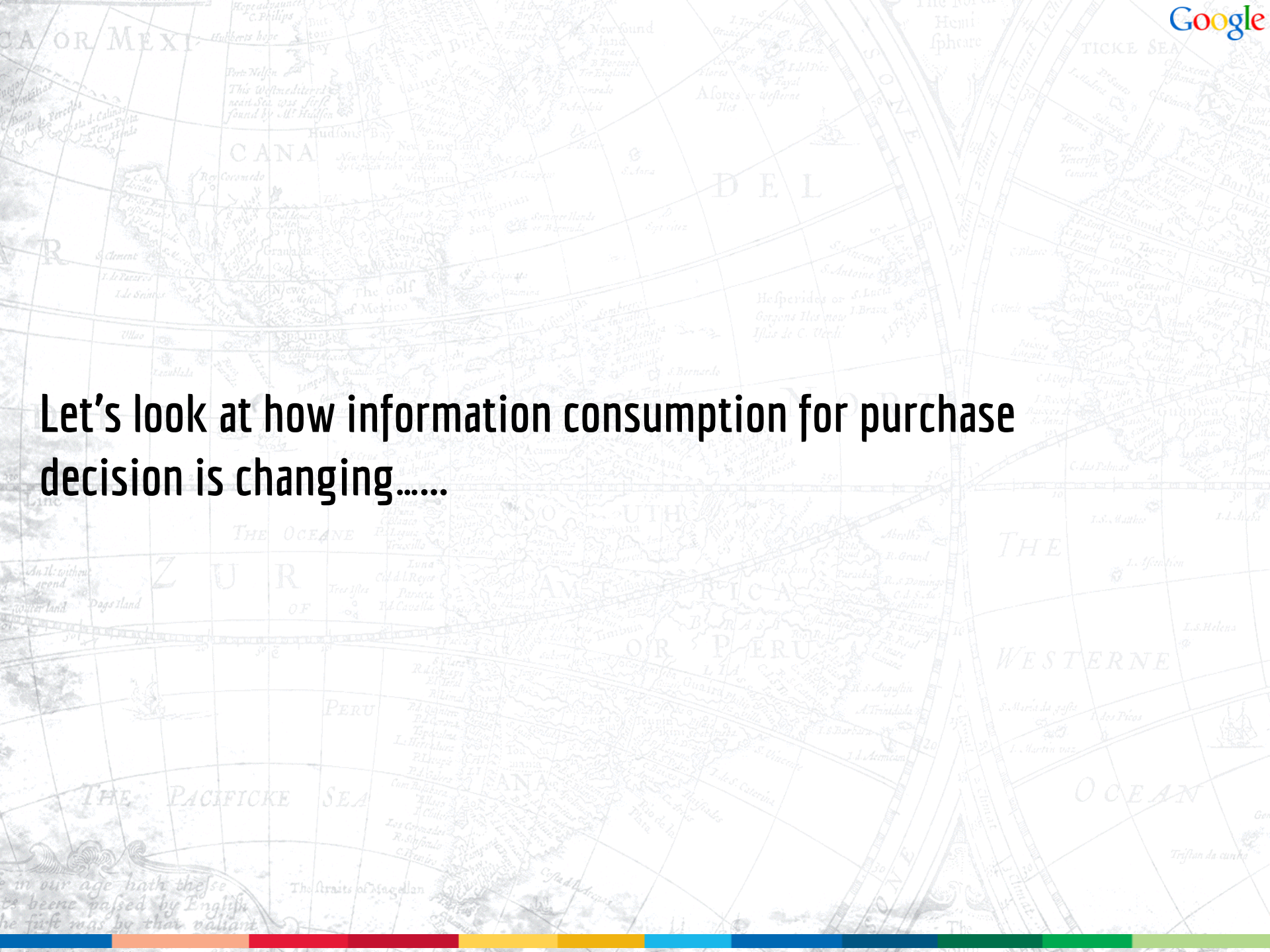




E-commerce, Emergency response, Services Industry etc represent new set of enterprises which'll need GIS technologies to succeed in delivering efficient services at lower cost

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Let's look at how information consumption for purchase decision is changing.....



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Enterprises need to be GIS enabled to extend reach to their customers.....



India **#1** in Internet growth globally
213 M internet users annual growth rate of **42%**

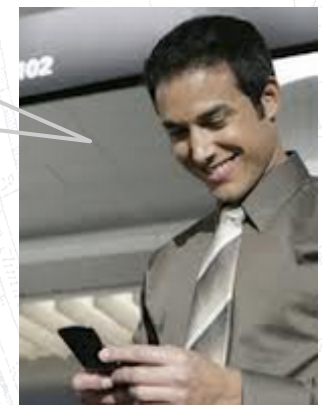
875 M mobile phone devices
49% internet capable
 (50% of internet users Mobile only)

25% individuals using maps / directions on Mobile

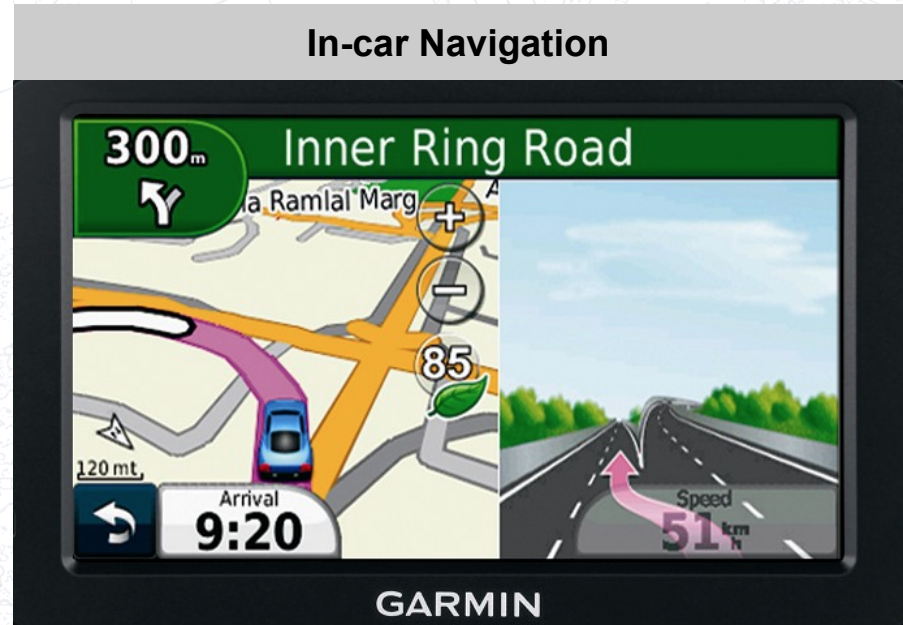
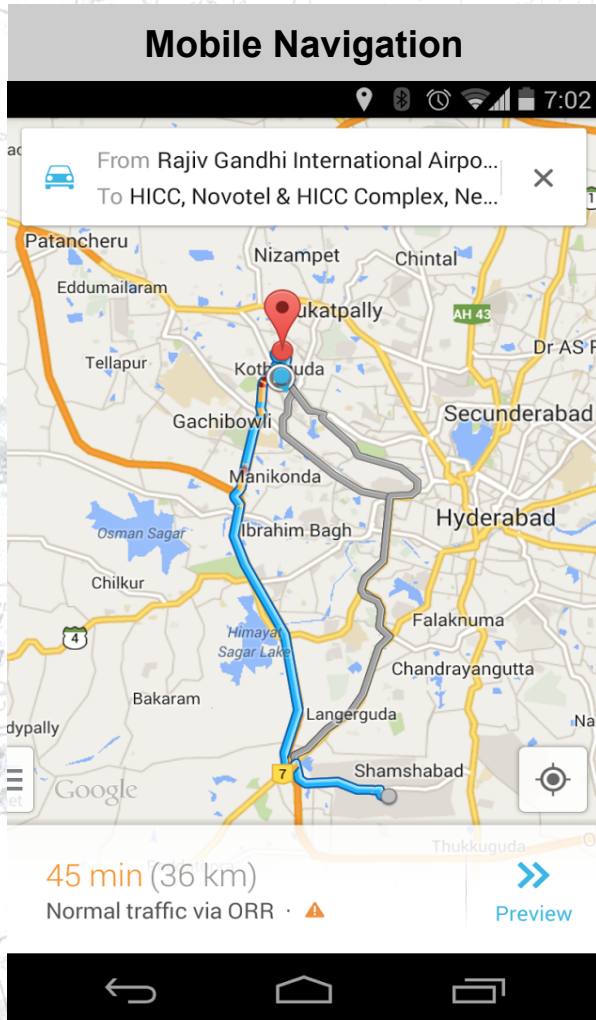


Let me check some nice restaurants nearby

Which cab service can reach me the quickest



Lower penetration of GIS services in individual consumers.... a big opportunity



81% mobile users in the US access maps / directions

only **~20%** of India's internet users use maps / navigation

GIS Consumer Segments Evolution



Large Enterprises

Have resources for investment in GIS solutions

Large size but few customers

High awareness about new technologies

Leverages diverse functionalities of GIS

Small & Medium Businesses

Budget constraints

Long tail customers

Low awareness

Need limited functionalities

Individuals

Cost conscious Prefers an app over buying a new device

Huge number of consumers

Varied awareness levels

Use cases are dynamic and cover spectrum of savvy to first time users

SMB segment presents a viable opportunity as penetration is low but potential is huge



Key Geospatial Services

Consumer Facing

Web maps for customers / business present on maps

Resource locator (Branch locator etc.)

Internal

Location based business / consumer intelligence for strategic decisions

Handheld, vehicle based or other navigation and positioning devices

Fleet management, routing, or other geographic systems

Usage among SMBs



45-50% of SMBs believe that geospatial services are important for carrying out their business

Challenges/Gaps in making GIS-for-All an attractive opportunity

Talent

Limited availability of GIS
Talent, Research and
Knowledge

Awareness

Lack of Awareness about GIS
benefits in SMBs and individual
segments

Focus @bottom of pyramid

GIS Industry focusing on the Long-Tail of
Customers

Gaps in ⚡ Ecosystem

Accurate Data

Lack of Reliable, Accurate and
Updated data

Locally relevant solution

Lack of investment in developing
locally relevant solutions (Geocoding
issues)

Affordability

Unavailability of Affordable GIS
Solutions for SMBs

What needs to be done to enable the growth in new segments

What needs to be done

Relevant Initiatives

Government - Industry Collaboration

- Skill development in GIS technologies
- Awareness drive about GIS benefits among SMBs

1. National Taskforce on Geospatial Education
2. GIS Start-ups bringing cost effective solutions and catering to SMBs

Government Led

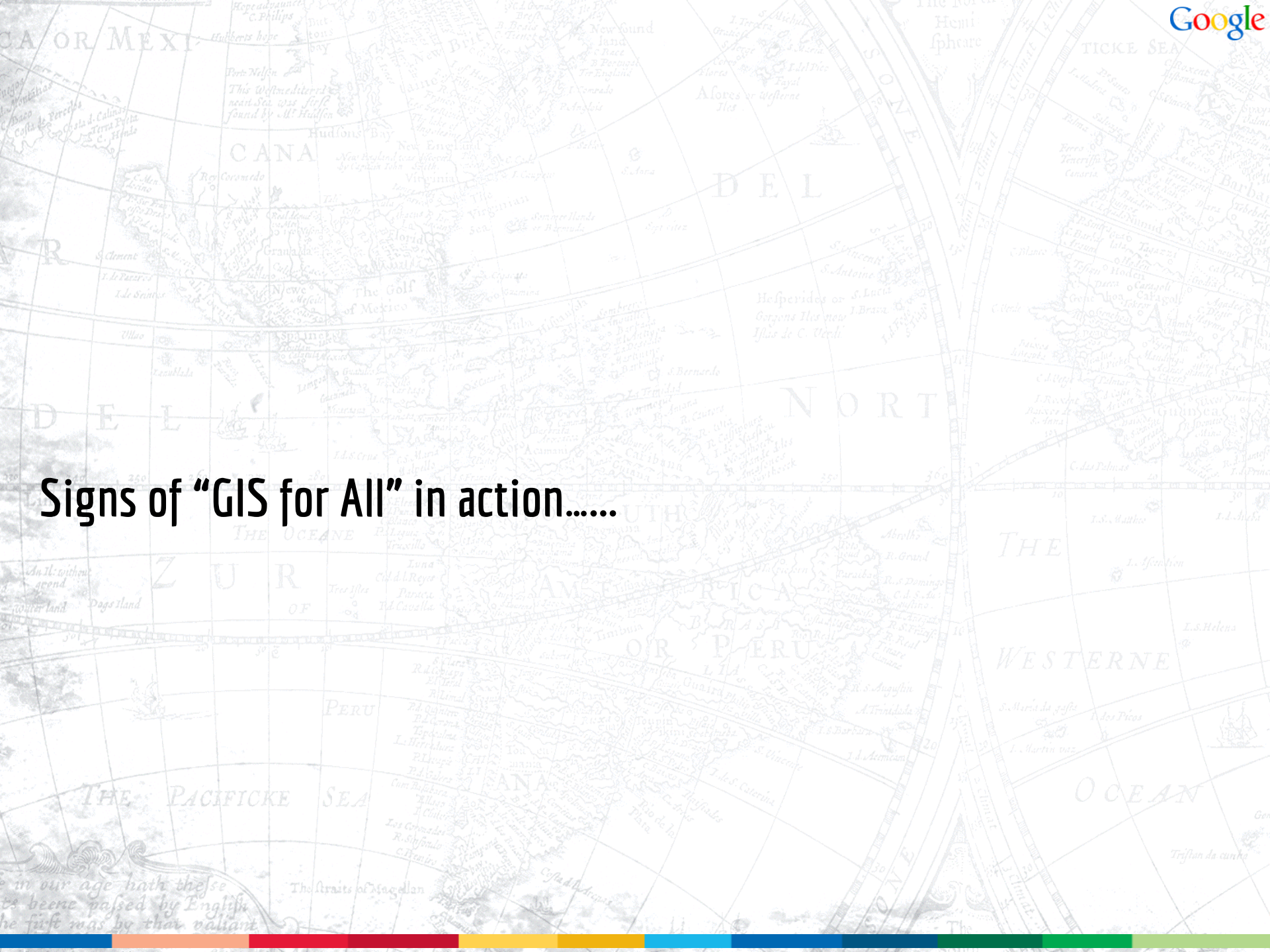
- Clear policy framework for data collection, dissemination and usage
- Making more and more datasets available for open access

1. National Data Sharing and Accessibility Policy ([NDSAP](#)) under formation
2. [UIDAI](#)
3. [NSDI](#)
4. [NLRMP](#)

Industry Led

- Innovative and customizable solutions to cater to bottom of the pyramid SMEs
- Making locally relevant solutions: Geocoding engine for unstructured addresses

1. Resource locator (ATM, Branch, Store etc)
2. Navigation in local languages
3. Offline navigation



Signs of "GIS for All" in action.....

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Success Story - EMRI leveraging GIS

EMRI's new app to cut down response time

Bushra Baseerat, TNN Feb 2, 2014, 04:33AM IST

Tags: GVK EMRI

HYDERABAD: In an effort to cut down on the emergency response time, the GVK Emergency Management and Research Institute (EMRI) has now developed a mobile application, set to be launched later this month. The app, officials said, has been devised to automatically pick up the location of the caller and flash the same at its centralized call centre. This is expected to reduce the response time by a crucial three minutes. At present, the response time, in case of medical emergencies in urban areas, is 13 minutes.

"If the application is uploaded on a mobile, the call centre will pick up the location automatically. The call centre executive will not have to pose numerous questions to the distressed caller to verify the address. He will only need to confirm it and dispatch the nearest ambulance or police team," said Siddhartha Bhattacharya, chief operating officer, GVK EMRI.

Improving emergency response using GIS

Success Story - Live tracking of bus



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Features

Passenger Alerts

The passenger gets realtime periodic SMSes about the location, delay info of the bus.

Using google maps, they can also track the exact location of the bus through out the journey.

YourBus

Your journey details:

Service Number: CHN-BNG

Destination: Bangalore

Date: 19th March 2012

Vehicle number: KA02AA4738

Departure Info: Your Bus crossed (Koyambedu) at 2:15 pm.

Location Info: National Highway 4, Tamil Nadu, India

Delay Info: Your Bus is delayed by **30 mins**. We apologize for the delay.

Current location of your vehicle, at **3:18 pm**, on **Google Maps** is [here](#).

(**Note:** Refresh this page every time you want to access the Google Maps link.)

We love to hear your [feedback](#) about this service.

SMBs leveraging GIS - Live tracking of bus location

Success Story - pharmacy store locator

Find a Pharmacy

Address

Radius

- 1 Apollo Pharmacy, BEGUMPET(ERUKALA BASTHI) (0.0 km)**
D No-11-243/2/A/C., Shop-4, Erukala Basthi,, HYDERABAD
- 2 Apollo Pharmacy, MALLEPALLY (0.0 km)**
D.no.11-3-604/1/1,2,3, New Mallepally, Masjid Road, HYDERABAD
- 3 Apollo Pharmacy, KUKATPALLY(BALAJI NAGAR) (0.0 km)**
D.no.15-21-78,Shop No.1&2, Balaji Nagar,Balanagar(mo),Kukatpal, RANGAREDDY
- 4 Apollo Pharmacy, ABIDS - BOGGULAKUNTA (0.8 km)**
D.No 4-1-1024, Bogulakunta, Abids, Hyderabad, ABIDS - BOGGULAKUNTA, HYDERABAD, ANDHRA PRADESH
- 5 Apollo Pharmacy, AZAMPURA (CHADERGHAT) (0.9 km)**
D.No.16-7-383/7, Azampura.H



SMBs leveraging GIS to increase reach - Pharmacy store locator

To Sum it up.....

Historic Focus

- Large scale industries and sectors

Emerging segments

- SMBs in services and emerging sectors like E-commerce present untapped huge market opportunities
- This opportunity has to be leveraged by innovative, scalable, cost effective solutions
- Productivity improvement @ scale adds to economic growth

Developing the ecosystem

- Building talent pool
- Investment in driving innovations to make locally relevant solutions
- Progressive policy framework are prerequisite to tap the “GIS-for-All” Opportunity



Thank You
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