

**First Forum
Seoul, Republic of Korea, 24-26 October 2011**

Global Challenges And Indian Initiatives *

* Submitted by: Mr. Swarna Subba Rao, Surveyor General Of India

GLOBAL CHALLENGES AND INDIAN INITIATIVES

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SURVEYOR GENERAL OF INDIA

GLOBAL CHALLENGES

Most of National Governments are now facing the challenge of:-

- How to clean up legacy problems, restore natural resources and achieve human health protection.
- How to design strategies to allow for future growth while protecting the environment, maintaining bio diversity, safeguarding and preserving cultural and social values.

TECHNOLOGY

- Powerful new technologies have emerged in recent years that greatly improves our ability to collect, store, manage analyze and utilize geo-information and to combine with these other type of social, economical and environmental information.
- Geo-spatial information has become an important tool which can help in addressing the today's emerging global challenges.

PROBLEMS

- Nation states are rich repository of spatial data sets pertaining to specific use.
- These data sets are not integrated.
- Standards and practices adopted vary from time to time.
- There are not common standards and interoperability.
- There is lack of International and Regional planning for Geo-Spatial Information.
- No global mechanism that can play the important leadership role of setting the agenda for the development of global geospatial information and promote its use to address key global challenges.

WAYS TO PROGRESS

- Nations and International organizations in the field of Geo-spatial technology needs to cooperate with each other.
- Common themes of data and standards for them are required to be developed and following of mutually accepted standards by all Nation members.
- Establishing policies and plan that ensure flow of data between different Nations.

GLOBAL GEO-INFORMATION

MANAGEMENT

- GGIM will greatly help in management and analyses of large volume of data, allowing for better understanding of terrestrial processes and better management of human activities to maintain the world socio- economic and environmental quality.
- GGIM will certainly help in better coordinating the activities of Nations and other International organizations in this field by exchange of ideas and experiences.

INDIAN INITIATIVE

- India has established National Spatial Data Infrastructure for acquiring, processing, distributing and improving utilization of spatial data and to serve as a gateway of spatial data being generated by other agencies.
- NSDI has successfully brought out metadata and data exchange standards in tune with International standards.

INDIAN INITIATIVE

- National Map Policy of 2005 has adopted WGS-84 as reference coordinate system along with International system of numbering for all open series map/data in India.
- Indian Govt. has also adopted the role of coordinating and managing Geo-Spatial data and facilitating partnerships among consumers and producers of Geo-spatial Information.

INDIAN INITIATIVE

- India has launched a national e-governance plan to lay the foundation and provide the impetus for long term growth.
- The plan seeks to create the right governance and institutional mechanism for citizen and business centric environment.
- Geo-Spatial Information system and Spatial data infrastructure are important components of the plan.

Innovation in the Management of Geospatial Information in India

- Geo Portals and Web Services
- Applications
- Research & Development

Indo-Canadian Cooperation in S&T/ Geomatics

- India Geo Portal's initial prototype(Dec 2009)
- Workshop on 'Standards and Technologies for SDIs' (Feb 2010)
- Dialogue on Landslide Early Warning System for Munnar, Kerala (Jan 2011)
- National Data Sharing & Accessibility Policy (NDSAP) (May 2011) (India Geo Portal)

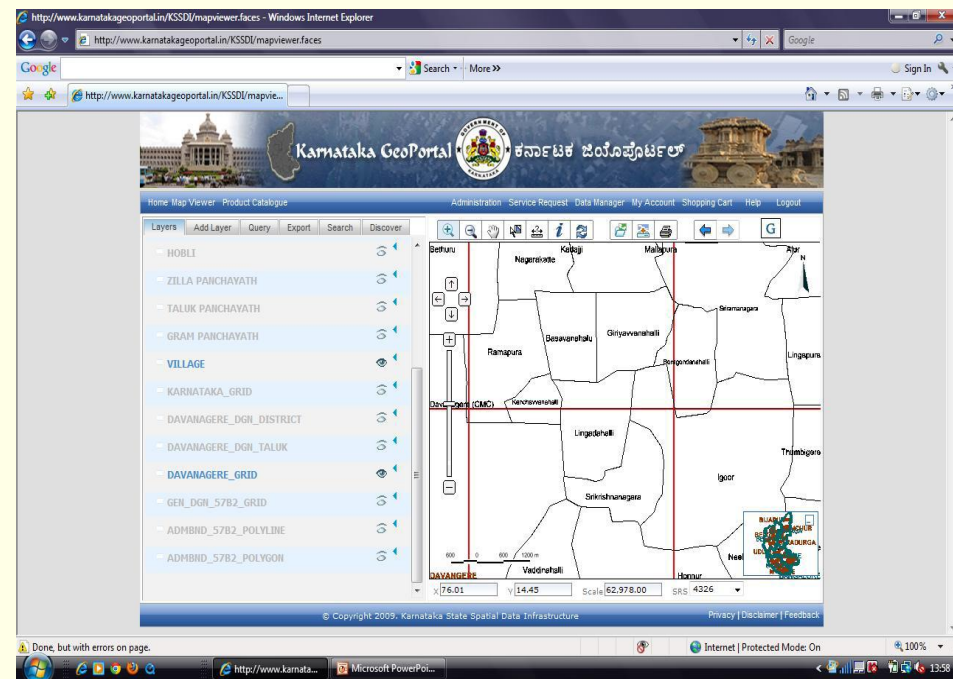
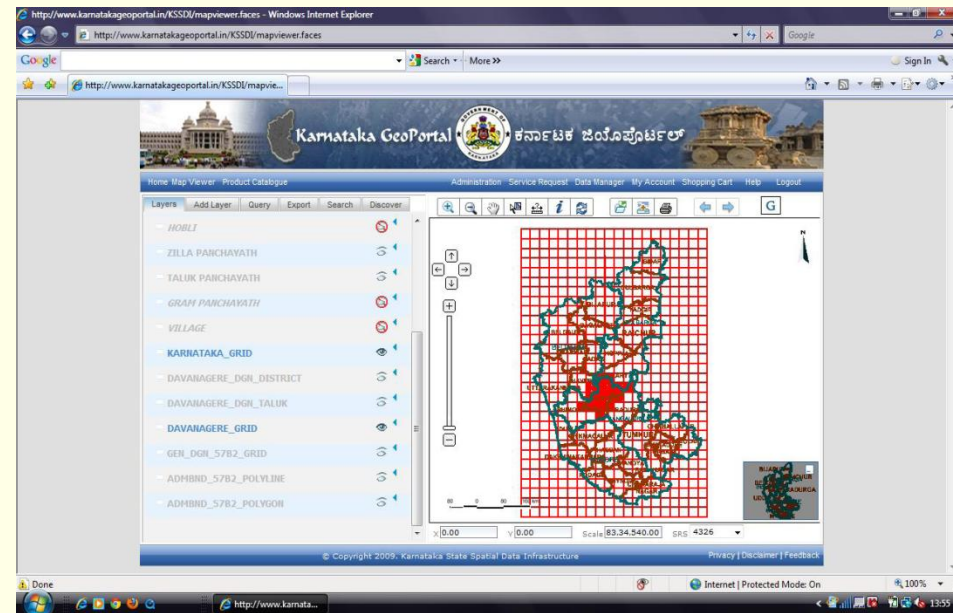


(India Geo Portal)

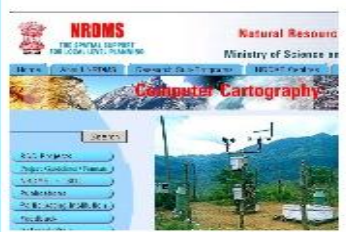


Geo Portals – key features

- WMS, WFS/ GML, CSW
- ISO/ OGC specifications
- Re-engineering of available data with Surveys and Line Departments
- Multi-source data Visualization
- Demonstration and training



- NSDI
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- Organization
- RTI
- Photo Gallery
- GSDI/State SDIs
- NSDI Annual Events



NRDMS Projects

NSDI-10 VIDEO Gallery

» Welcome to NSDI

India is fast moving into being an information and knowledge society - especially with the emphasis on Information Technology and 'transparent' e-governance. [Know More..](#)



Catalogue Search

NSDI Portal Login

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- [Kendriya Vidyalaya Locations in India](#)
- [National Data Sharing and Accessibility Policy\(NDSAP\)](#)



Metadata Search



Survey Of India

» NSDI Agencies/Partners:



Ministries/Departments

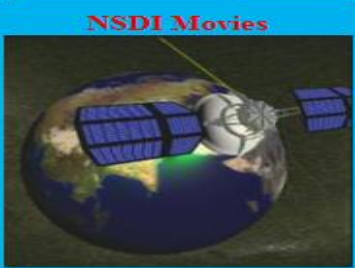
SOI			INHD	GSI
FSI	Census	CWC	CGWB	IMD
NBSSLIUP	NATMO	NCAER	ap-jhb	NDMA

News & Events

NSDI-10



India Meteorological Department



NSDI Movies



Delhi Timeseries

NDRF(National Disaster Response Force)

(Click below for NDRF ZONES across India)



Prakasam District Geoportal

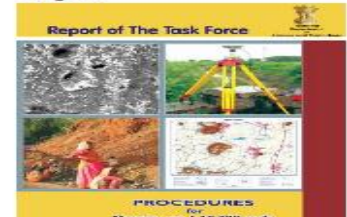
(Best Viewed in Mozilla Firefox browser)



Know Tsunami



Procedure for Mapping or 1:10,000 scale- Task Force Report



State SDI Agencies

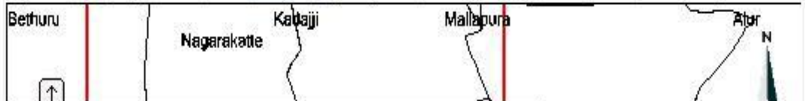
- DSSDI: Delhi State Spatial Data Infrastructure
- KSSDI: Karnataka State Spatial Data Infrastructure
- KSDI: Kerala State Spatial Data Infrastructure
- NESSDI: North Eastern State Spatial Data Infrastructure
- MPSSDI: Madhya Pradesh State Spatial Data Infrastructure
- WBSSDI: West Bengal State Spatial Data Infrastructure
- Village Information System



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Map navigation toolbar with buttons for Layers, Add Layer, Query, Export, Search, Discover, and various map controls like zoom, pan, and print.

- HOBLI
- ZILLA PANCHAYATH



Layer Information

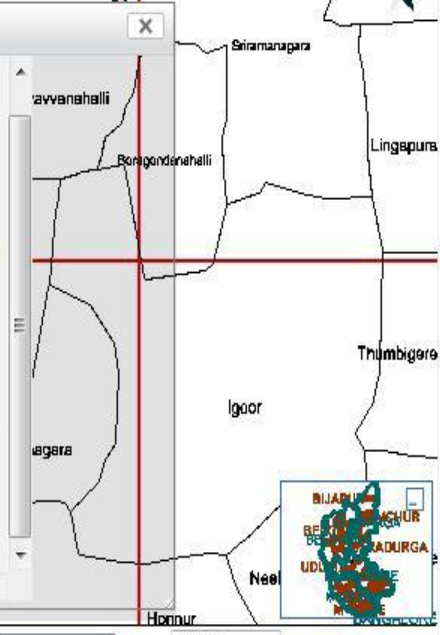
Navigation tabs: DIVISION, DISTRICT, SUB_DIVISION, TALUK, PARLIAMENTARY CON..., LAC, HOBLI

Selected layer: VILLAGE

Other layers: ZILLA PANCHAYATH, TALUK PANCHAYATH, GRAM PANCHAYATH, KARNATAKA_GRID, DAVANAGERE_DGN_DI..., DAVANAGERE_DGN_TALUK, DAVANAGERE_GRID, GEN_DGN_57B2_GRID, ADMBND_57B2_POLYLINE, ADMBND_57B2_POLYGON

GP_CODE	GP_NAME	TP_CODE	TP_NAME	ZP_CODE	ZP_NAME	LAC_C
29_14_0004_9	Igoor	29_14_0004_12	Igoor	29_14_0004_7	Anaji	108

- GEN_DGN_57B2
- ADMBND_57B2
- ADMBND_57B2



Map metadata: X: 76.00, Y: 14.43, Scale: 62,978.00, SRS: 4326

Multi-source data visualisation

http://www.karnatakageportal.in/KSSDI/mapviewer.faces - Windows Internet Explorer

http://www.karnatakageportal.in/KSSDI/mapviewer.faces

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Karnataka GeoPortal ಕರ್ನಾಟಕ ಜಿಯೋಪೋರ್ಟಲ್

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- VILLAGE**
- KARNATAKA_GRID
- DAVANAGERE_DGN_DISTRICT
- DAVANAGERE_DGN_TALUK
- DAVANAGERE_GRID**
- GEN_DGN_57B2_GRID
- ADMBND_57B2_POLYLINE
- ADMBND_57B2_POLYGON
- GoogleMaps



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X: 84,60,999.01 Y: 16,26,265.45 Scale: 8,506.00 SRS: 900913

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http://www.karnatakageportal.in/KSSDI/mapviewer.faces#

Internet | Protected Mode: On | 100%

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THANKS