## **SDI 3.0**

### **Delivering Place - Transforming Government**

UN – GGIM Exchange Forum

Doha, Qatar February 2013

Mark Sorensen, CEO The GPC Group





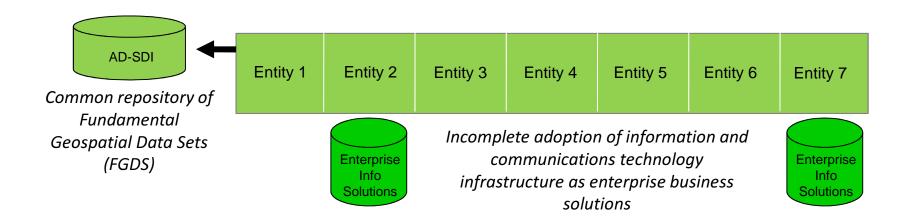
### **Proposition**

- "Delivering (geospatial) Place" depends on for Whom? What? When? Where? Why? and How?
- SDI evolving technologies massively converging
- Mobile telephony vanguard of global information technology adoption
- Opportunity to leverage SDI and other Community Information Infrastructure to transform government and evolve new approaches to deliver Place to new audiences in new ways



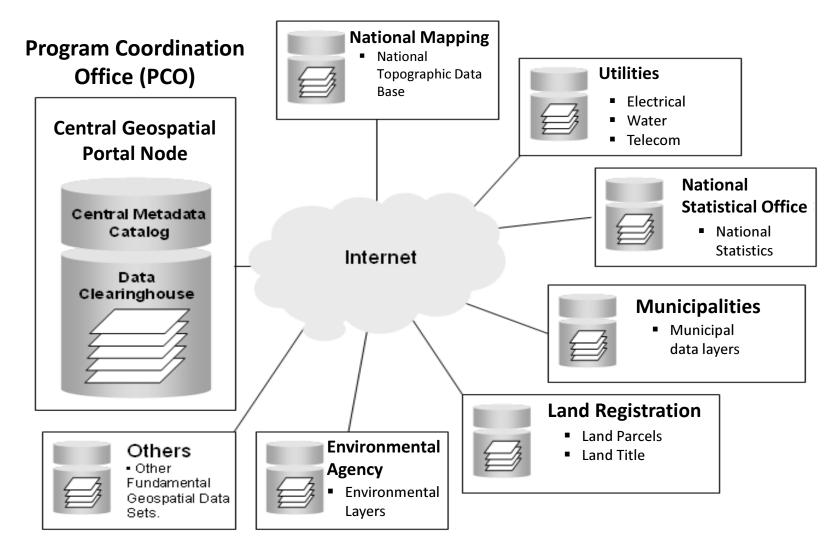
### **SDI 1.0**

SDI as a concept recognized GIS data as a fundamental infrastructure that supports national physical, cultural and economic development and environmental protection, akin to highways, telecommunications networks, health and educational facilities.





#### **Network of Interoperable Nodes**





### SDI Growth Paced with Technology Adoption Stages

. Central patial Portal Node
Central Metagorial Portal Por

Important to understand the progression of technology adoption....

technology adoption.

Level 1 – Awareness, What I was a superior of the control o

Wow!! Collectively we have a lot of existing information and expertise!!



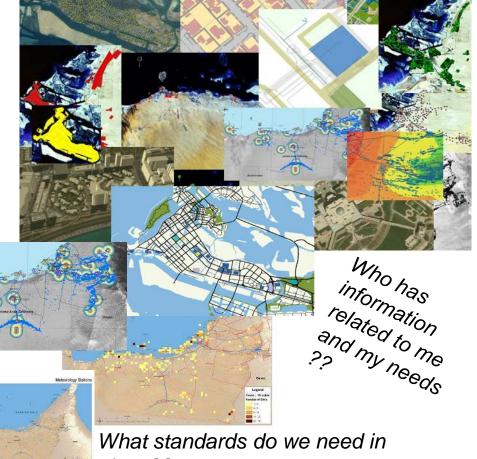


### **AD-SDI Growth Paced with Technology Adoption Stages**

Now I can see what others are doing and planning!!

Important to understand the progression of technology adoption....

**Level 2 – Basic Capacity and Inventory** What do I have, and where ??



place??

#### **Instant SDI**

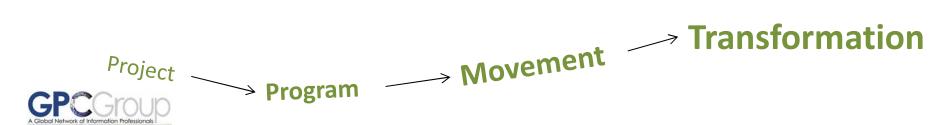
New and Improved!!...

Effective and progressive Enterprise GIS, GIS Federations, and SDI's are not events or projects, or rubber-stamp models.....

...but rather institutional "movements" that must be carefully guided through stages of development that fit each unique situation

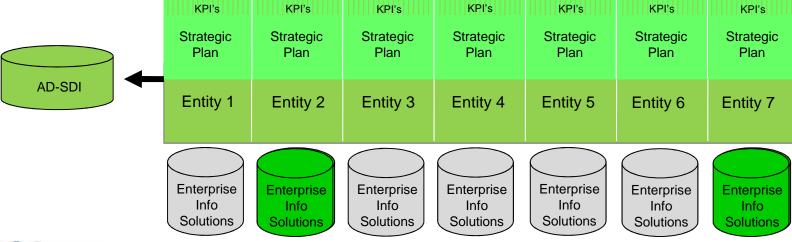


A Movement (versus a Program) implies fundamental organizational transformation as a core eventual outcome



## What is Spatial Data Infrastructure (SDI)? 2.0

SDI 2.0 involves the institutionalization of the SDI framework as a permanent function of government, codified in policies, regulations and financial structures, advanced GIS capability pervasive across stakeholder community, and data custodians updating their information through ongoing business transactions, and making this information immediately available to the community. GIS and SDI recognized as key enabling environment for strategic planning and sector-based policy making.





### **AD-SDI Growth Paced with Technology Adoption Stages**

Understanding builds capacity, builds more understanding.....

**Level 3 – Enterprise GIS Development, Business Streamlining, and Expansion**  interesting and attentiongrabbing applications!

We can do some



It is getting easier to coordinate with others.....



## AD-SDI Growth Paced with Technology Adoption Stages

Now I can link my procedures with those of others!!

Draft - Abu Dhabi Waste Stream Process Diagram - Draft

Important to understand the progression of technology adoption....

Level 4 – Inter-Sector

Business Integration and

Expansion

Information Infrastructure Touch Points

We can process our NOC's

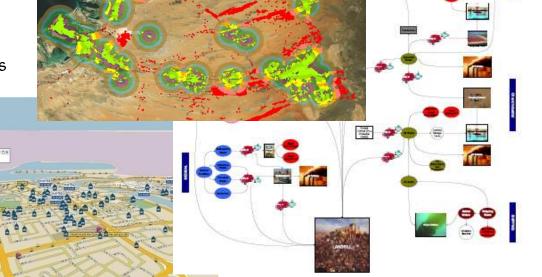
Tel Level Decimal Making

G-Society

Tel Level Decimal Making

Tel Level

I can see by my analysis that our issues need to be coordinated.....

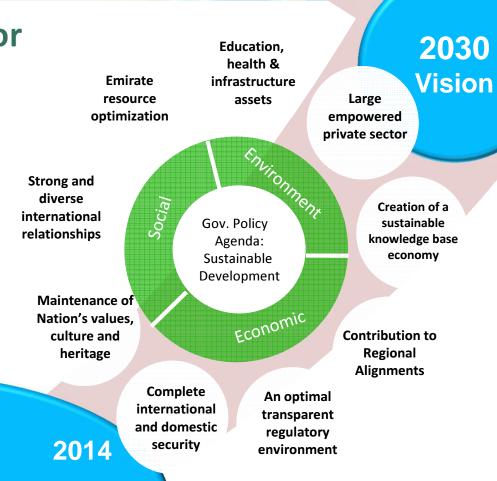


Dévelopment review and more than 30 agencies....

What government business processes need linking??

### Long-Term Vision for Nation Set by Government Policy Agenda

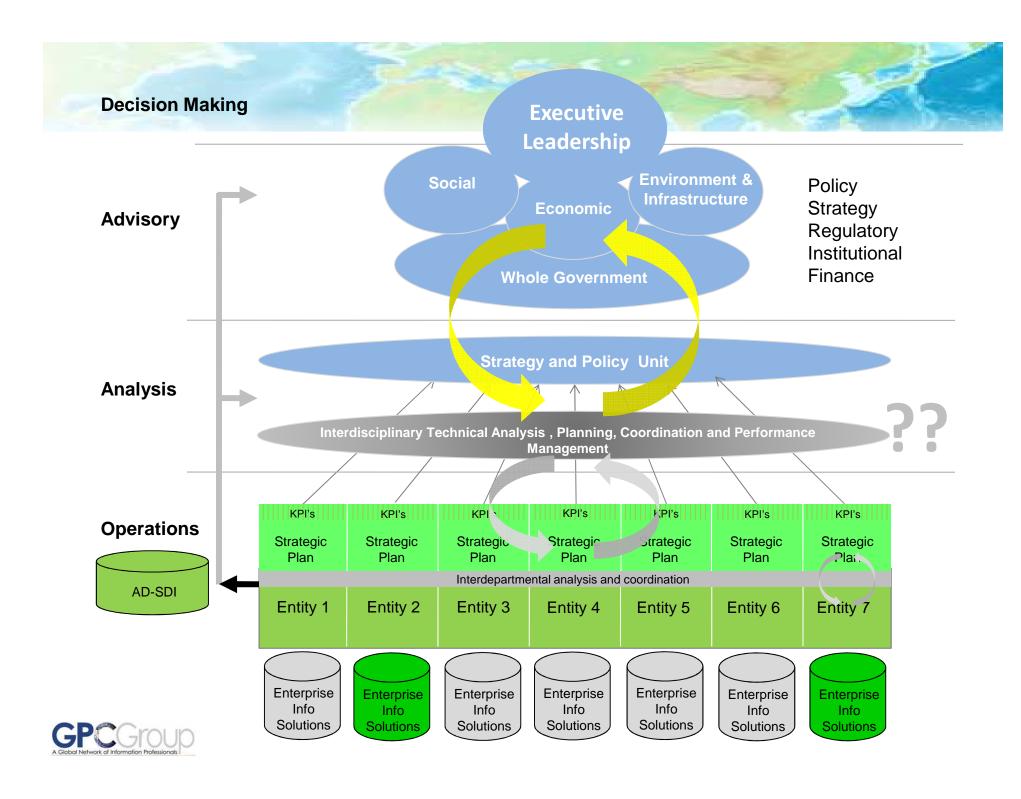
How can GIS and SDI contribute to the achievement of this agenda?



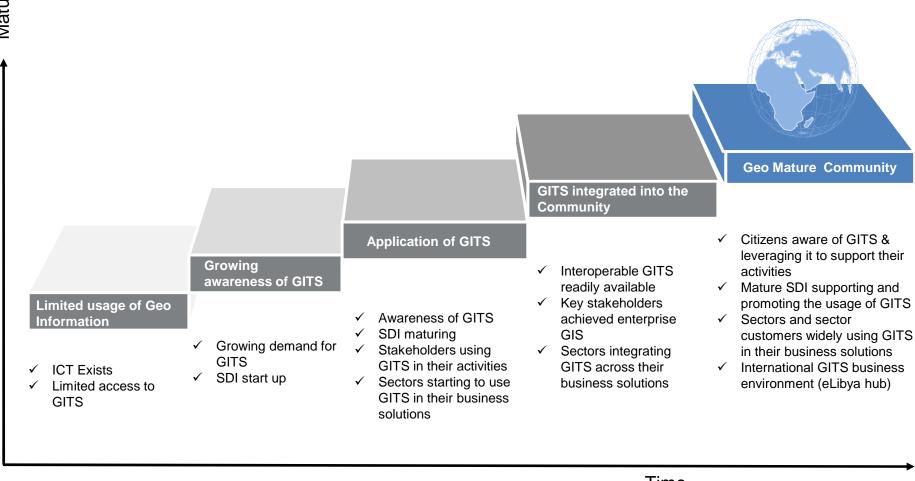
**SDI Strategic Plan** 

2011

2010

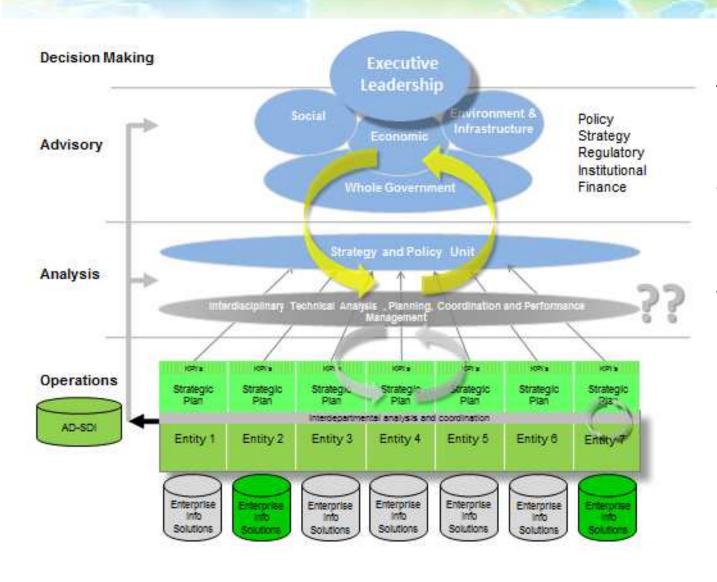


### **Entity GeoMaturity Program**



Time





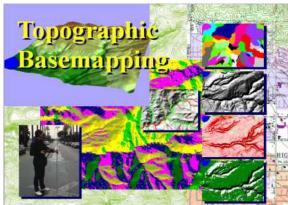
The process of analyzing government business, conducting gap analysis and preparing well considered program design can be shaped to provide technology assisted structural improvements











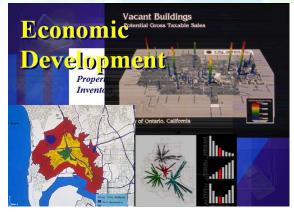


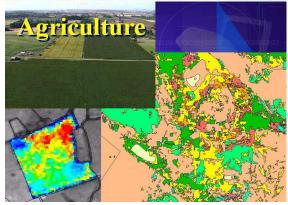








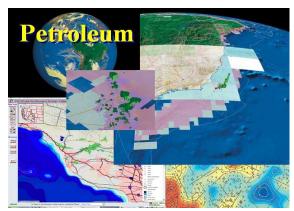
















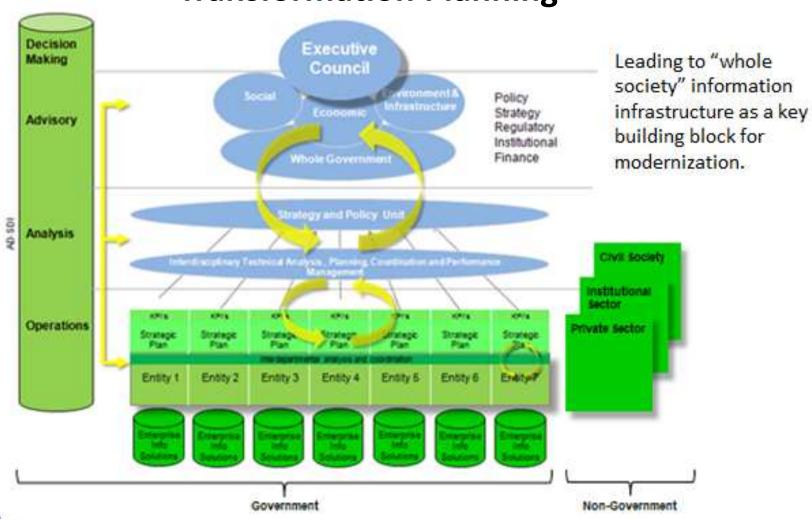


# What is Spatial Data Infrastructure (SDI)? 3.0

SDI 3.0 continues operational functioning for data clearinghouse management. Accurate, up to date, reliable data provides enabling environment for informed decision making. Also builds on interdisciplinary foundations towards more collaborative and systemic planning, policy making and coordinated interventions. Location-enabled social networking, global connectivity and free flow of information, opinions and ideas provides a fertile opportunity to recraft and retool government engagement with constituencies.

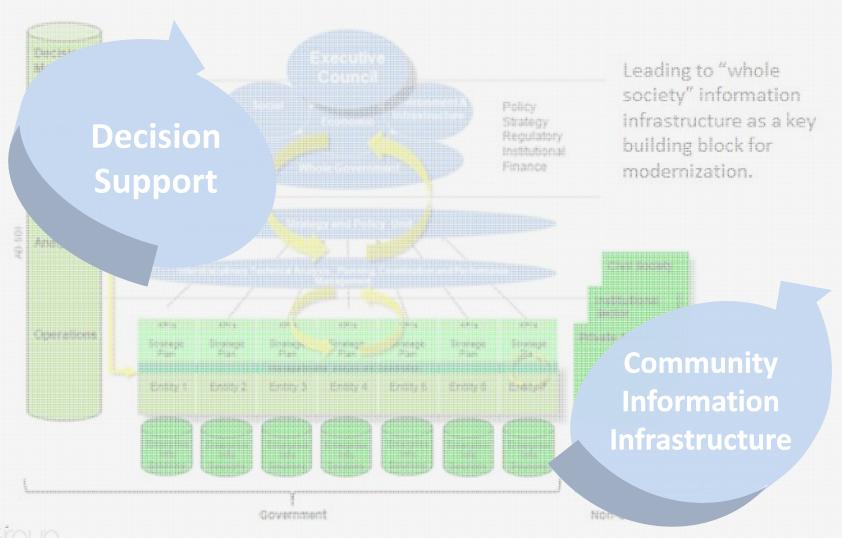


### SDI Can Be Integrated with Government Transformation Planning



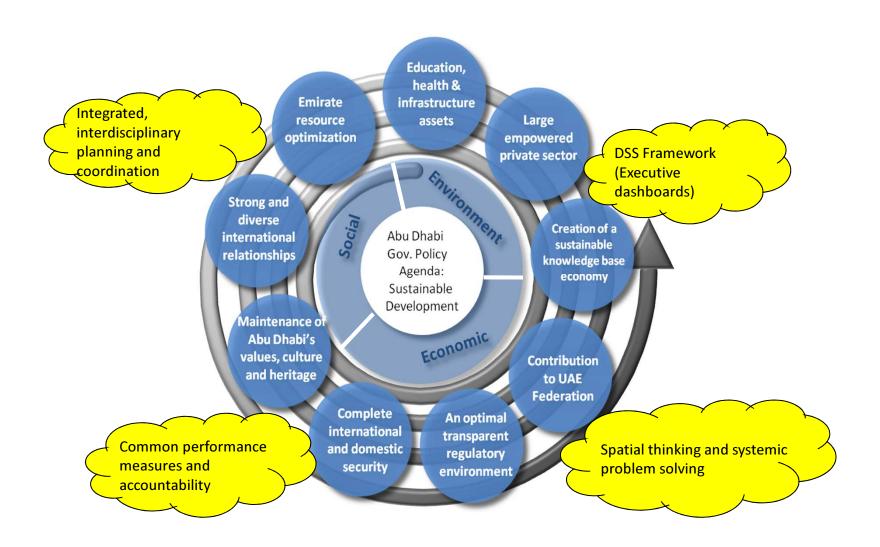


### **Two Emerging Frontiers**





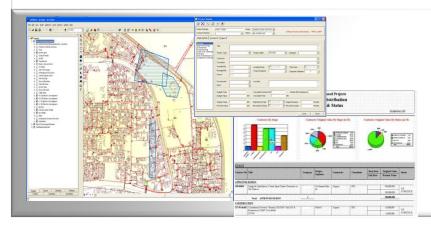
### DSS will empower GeoIntelligence and GeoDesign...

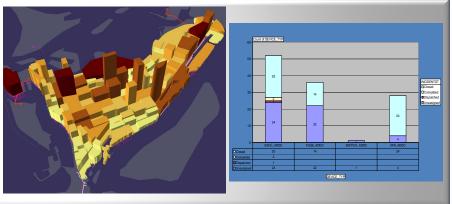




#### **Executive Dashboard Framework**





























ICT4D and the informal economies of the world





### **Many Challenges**

- Basic infrastructure often lacking
- Semi-literate members of community
- Financial instability
- Lack of local capacity to operate and maintain
- Lack of government ability to invest
- Lack of critical mass to attract private sector investors
- .....etc.



### GeoVillage

Community Information Infrastructure

Putting Information and Communications
Technologies to Work for Local Community
Development

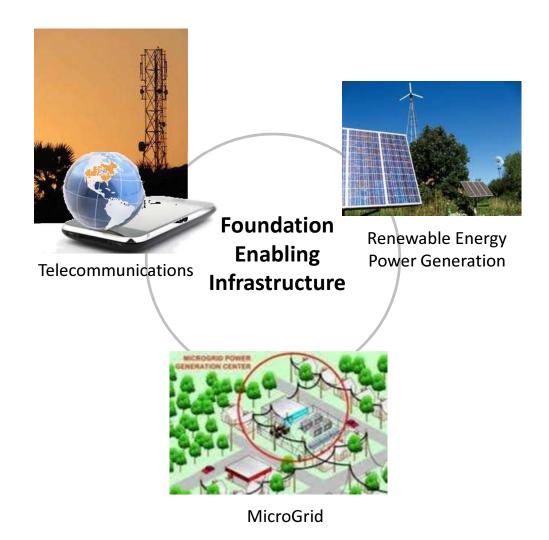






### GeoVillage

#### Community Information Infrastructure





### GeoVillage

Community Information Infrastructure

#### gvNET

**gvVIEW** 

Mobile Phone, Internet, **Email and VolP** 

**Geographic Information System** 

#### **gvPROJECT**

**Project Management and Monitoring System** 

#### **gvSUCCEED**

**Best Practices and Success Stories** 

#### gvBANK

**Electronic Banking Services** 

#### **gvHEALTH**

**Remote Health Network Services** 

#### Internet

oundation

Power Generation

Enabling

Infrastructure

**Cloud Computing** 

Resources

**gvCOMMUNITY** 

**Local Community Website** 

#### **gvFINANCE**

**Access to Microfinance Networks** 

#### **gvTRADE**

Market Prices, Barter, **Exchange, Local and Export Sales** 

#### gvJOBS

**Employment Opportunities** 

#### **gvLEARN**

**Remote Learning Network Access** 

Telecommunications

#### gvGROW

**Agriculture Extension Services** 



## Onward!!....



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