Information on the GSDI 15 World Conference and the GSDI Association

GSDI – update in a nutshell (1)

- The GSDI Association was **established in 2004** for academic, government, industry entities and individual professionals working or interested in the field of geomatics and Spatial Data Infrastructures.
- GSDI today has **38 Organisational Members** from 20 countries and over **400 Individual Members** from 55 countries with a high concentration in developing nations.
- GSDI has **Special Consultative status with UN ECOSOC** and **supports the UN Global Geospatial Information Management** (UN UN GGIM) initiative**.**
- The GSDI Association is an **Official Observer** to **UN-GGIM Regional Committees,** including **UN-GGIM America and UN-GGIM Europe.**
- GSDI promotes the **Open Data Principles** of **GEO/GEOSS** and has formal liaison with the **Committee on Earth Observation Satellites (CEOS).**
- More information: gsdiassociation.org

GSDI – update in a nutshell (2)

- GSDI is involved in **Spatial Data Infrastructure capacity building activities**, including:
  - the **GSDI Small Grants Program** (in cooperation with URISA's GISCorps volunteers) – 110 grants since 2003,
  - **SDI and geomatics training** opportunities offered by our institutional members, and
  - **SDI-focused workshops** and seminars offered by members globally.
  - Since 2004, the Association has conducted **GSDI World Conferences** around the globe, offering significant networking opportunities and offering the opportunity for SDI researchers and SDI implementers to present their latest work, challenges and solutions. (GSDI was founded partly to continue the GSDI conference series that started in 1996 in Bonn, Germany.)
  - IN 2016, GSDI begins a series of **public webinars** on selected SDI implementation challenges and best practice.
  - More information: gsdiassociation.org

GSDI – update in a nutshell (3)

GSDI have **liaisons and Memorandums of Understanding** with several global organizations, including:

- Joint Board of Geospatial Information Societies (**JBGIS**) – GSDI is current Chair of JBGIS
- International Cartographic Association (**ICA**)
- International Federation of Surveyors (**FIG**)
- International Society for Photogrammetry and Remote Sensing (**ISPRS**)
- International Society for Digital Earth (**ISDE**)
- Centre for Disaster Management and Public Safety (**CDMPS** - Univ. of Melbourne)

More information: gsdiassociation.org

GSDI 15 World Conference

- Venue: Taipei Nangang Exhibition Center

GSDI 15 World Conference

- **Themes**: ***Spatial Enablement in the Smart Homeland - Smart Disaster Prevention, Smart transportation, Smart City***

EO/SDI's relevance to socio-economic and environmental impacts of global urbanization and serving more livable cities were clearly shown among other by **UN, OECD and FIG**.

The **Davos Meeting** in January 2016 called attention to the challenges related to sustainable cities. GIM's 2016 August-September issue reviewed ten **technological drivers** which support urban development and services **in need of transformation**

Organisers: The Global Spatial Data Infrastructure (**GSDI**) Association and the **Taiwan Association of Disaster Prevention Industry** (**TADPI**), with strong support from **Ministry of the Interior** (MOI), government of Taiwan.

15th GSDI World Conference Theme Groups at a Glance

Building Resource Wealth,

Ensuring Community Safety, 4

Securing Water Resources,

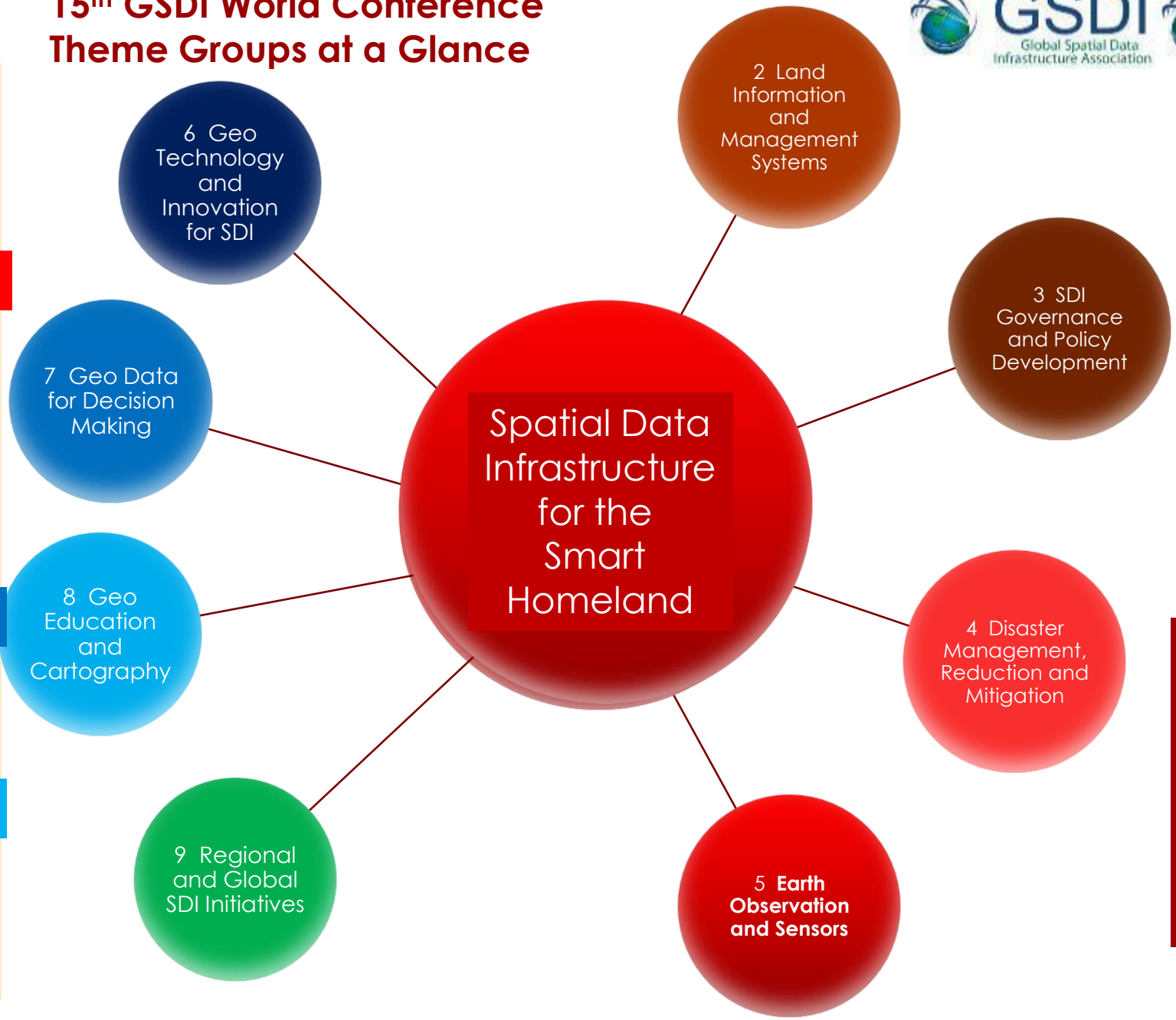
Managing Marine Jurisdictions,

Providing Fundamental Geographic Information, 7

Maintaining Geoscience Knowledge and Capability

8

Above: Relevance to Geospatial Australia's major focus areas



The 15th GSDI World Conference
Theme Groups at a Glance (1/3)

Theme 1: SDI for the Smart Homeland

- SDI for Smart Cities, Smart Territories and Smart Environments
- Location-based Services and (indoor/outdoor)Positioning for Smart homeland
- Indoor SDI (positioning) and Personal SDI Developments
- VGI(Volunteered Geographic Information), Crowdsourcing, and Citizen Science
- Internet of Vehicles (IoV) and Intelligent Transport Systems (ITS)
- Advanced Traffic Management and Application Service Platform
- Application of 4S (seamless, smooth, safety, sharing) in smart transportation

Theme 2: Land Information and Management Systems

- Land Information Systems
- Land and Urban Data Management
- SDI for Low Impact Development (LID)
- SDI for Resilience and Sustainable Development

Theme 3. SDI Governance and Policy Development

- Open Data and Open Government
- E-Government and E-Governance
- Geospatial Legislation and Policies
- Privacy, Security and Institutional Concern

The 15th GSDI World Conference
Theme Groups at a Glance 2/3

Theme 4. Disaster Management, Reduction and Mitigation

- Innovation in Disaster Management Technology
- Disaster Management 'Best Practice'
- Protecting Critical Infrastructure
- Earthquake Mitigation Challenges, earthquake early warning system(EEWs)
- Economic Exposure & Loss Database development
- Hazard Model Development
- Loss estimation, transforming risk and Insurance
- Risk Modelling and Assessment, Mitigation and Management
- Disaster prevention and Emergency Management for smart homeland
- Disaster Response Transportation Management Service

Theme 5. Earth Observation and Sensors

- Observatories (environmental, transportation, logistics, citizen, health, urban)
- Wearable device and technology
- Earth Observation
- Remote Sensing, Survey & Mapping Applications (UAVs, LiDAR, SAR...)
- Sensor Web / Internet of Things (IoT) and Linked Data

The 15th GSDI World Conference
Theme Groups at a Glance (3/3)

Theme 6. Geo Technology and Innovation for SDI
- SDI in the Cloud – Challenges and Solutions for smart homeland
- CyberGIS
- Geospatial Big Data Management and Analytics
- 3D/4D Spatial Data Visualization and Analytics

Theme 7. Geo Data for Decision Making
- Geospatial Decision Support Systems
- Geospatial Business Modelling
- Geo-Intelligence

Theme 8. Geo Education and Cartography
- Geospatial Education
- Web Cartography
- Historic Geo Data Management

Theme 9. Regional and Global SDI Initiatives
- UN-GGIM Global and Regional Initiatives
- GEO/GEOSS Developments
- GEO/GEOSS
- UN Sustainable Development Goals
- European Pan-European SDI – INSPIRE

GSDI 15 – Confirmed Keynote Speakers

- ***Dr Tien-Yin Chou***, President of TADPI and Prof. at Feng Chia University, Taiwan
- ***Mr Ivan DeLoatch***, Executive Director of the Federal Geographic Data Committee (FGDC) Secretariat at USGS, USA
- ***Prof Dr Menno-Jan Kraak***, President of the International Cartographic Association (ICA)
- ***Dr Tso-Chien Pan***, Executive Director and Professor at the Institute of Catastrophe Risk Management (ICRM) of Nanyang Technological University in Singapore.
- ***Ed Parsons***, Geotechnologist at Google, Inc.
- ***Mark Reichardt***, President and CEO of the Open Geospatial Consortium (OGC)
- ***Dr Satoshi Sekiguchi***, Director-General of the Division of Information Technology and Human Factors, Agency of Industrial Science and Technology (AIST), Japan)
- ***Dr Vernon Singhroy***, Canada Centre for Mapping and Earth Observation, Natural Resources Canada
- ***Dr Winnie Tang***, Chairman of Esri China (Hong Kong) Ltd.
- ***Dr Dewayany Sutrisno***, Senior Research Prof., Geomatics Research Center of the Indonesian National Coordinating Agency for Geospatial Information (BIG)
- ***Prof Dr Hidenori Tamagawa***, Department of Urban System Science, Tokyo Metropolitan University, Japan

GSDI activities with GEO (1/2)

- GSDI at the **GEOSS Work Program 2017-2019 Workshop** held in **Geneva, May 2016** (hosted by WMO)

- **Plenary Discussion with intervention of GSDI** - GEO Secretariat Director, Barbara Ryan, reflected positively.
- In the Urban group, **GSDI made a written contribution** raising awareness on the **Smart City session of the GSDI 15 World Conference** on "Spatial enablement in the Smart Homeland", which was reflected in the rapporteur's summary in the final plenary.

- **GSDI President-elect Dave Lovell - met with GEO Secretariat Director, Barbara Ryan,** in London, mid-June.
- GSDI member, **Dr Gabor Remetey**, will represent the Association at the **GEO-XIII Plenary meeting** in St. Petersburg, Russia, in November, along with other GSDI members.

GSDI activities with GEO (2/2)

- GSDI at the 'GEO Initiative on UN Sustainable Development Goals' (GI-18) actions

Participation: and intervention in GI-18 Telecon on 4 October, 2016 with the agenda:

- Updates on IAEG/ UN Activity and GIWG
- Updates on country-level projects
- Update on GPSDD **SDG** module for GPSDD's Data4SDGs Toolbox
- **SDG** Side Event at GEO XIII in St Petersburg
- Update on Report about the added value of EO to SDGs
- Update on the World Data Forum
- Update on Future Earth Workshop
- **SDGs** in the Anthropocene and the 5th GEOSS Science and Technology Stakeholder Workshop
- Other updates

The GI-18 Chair welcomed the information on GSDI 15 with interest and disseminated it to the participants.

GSDI activities of the past six months - CEOS

GSDI has made presentations at:

CEOS WGISS (Working Group on Information Systems and Services) 41st meeting hosted by Geoscience Australia and CSIRO, in Canberra, Australia, on 14-18 March 2016.

CEOS WGISS 42nd meeting hosted by ESA at ESRIN, Frascati, Italy, 19-22 September 2016.

GSDI's official representative to CEOS is **Dr Gabor Remetey**, former Secretary-General of HUNAGI and long-time member of the GSDI Association.

GSDI UN-GGIM Activities

GSDI represented at:

- **4th High Level Forum**, Addis Ababa, Ethiopia, April 2016 (represented by Dr Abbas Rajabifard, GSDI Past-President)
- **UN-GGIM 6th Session**, New York, USA – August 2016 (represented by Dr David Coleman, GSDI President)
- **UN-GGIM Americas Regional Committee** meeting, Mexico City, October 2016 (represented by Rodrigo Vargas, GSDI Member PAIGH
- **UN-GGIM Europe Regional Committee** meeting, Budapest, October 2016 (represented by Dr Gabor Remetey, official GSDI liaison)
- **UN-GGIM Asia-Pacific Regional Committee** meeting, Kuala Lumpur, October 2016 (represented by Dr Abbas Rajabifard, GSDI Past-President)
- Dr Abbas Rajabifard, GSDI Past-President, assumes chair of the **UN-GGIM Academic Network**. Report delivered to UN-GGIM 6th Session meeting in New York, August 2016.

GSDI Allied Activities

GSDI and JBGIS

- GSDI Association assumes Chair of the Joint Board of Geographic Information Societies (JBGIS), Prague, July 2016 (Dave Lovell, GSDI President-elect assumed JBGIS Chair)
- Dr David Coleman chairs JBGIS meeting in New York, August, 2016.

GSDI at the INSPIRE 2016 Conference, Barcelona, Spain, October 2016:

- The GSDI SDI Marine SDI Best Practice Project conducted a workshop at INSPIRE 2016 and presented a poster on the project.

GSDI launches first webinars in the forthcoming GSDI Capacity Building Project workshop series:

- SDI Best Practice in Data Policy – 31 October 2016
- Marine/Coastal SDI Best Practice – 3 November 2016

Acknowledgements

GDI Executive Committee (left to right):

- ***Dr David Coleman***, President
- ***Roger Longhorn***, Secretary-General
- ***Dave Lovell***, President-Elect
- ***Dr Abbas Rajabifard***, Past-President

GSDI Association information:

http://gsdiassociation.org

https://www.linkedin.com/groups/3794985

Conference website:

General information is available from gsdi-15-info@gsdi.org
GSDI World Conference website: http://gsdi15.org.tw/

IJSDIR - International Journal of Spatial Data Infrastructures Research – the SDI journal of JRC will publish selected GSDI 15 papers.