

UN-GGIM Expanded Bureau Meeting

7-9 December 2016, UN Headquarters, New York

UN-GGIM: Arab States Activities



UN-GGIM: Arab States

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



- The establishment of the UN-GGIM: Arab States came in fulfillment of Decision 4/111 of the Fourth session of United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), held in New York in August 2014.
- UN-GGIM: Arab States held three Meetings
 1. Riyadh 1st Meeting Feb 2015
 2. Algeria 2nd Meeting July 2015
 3. Abu Dhabi 3rd Meeting Feb 2016



Four Working Groups

- 1. WG1: Institutional Arrangements , Legal and Policy Issues, Awareness and Capacity Building**
(Chair: United Arab Emirates and Vice-Chair: Morocco)
- 2. WG2: Fundamental Data and Geo-Standards**
(Chair: Tunisia and Vice-Chair: Qatar)
- 3. WG3: Geodetic Reference Frame**
(Chair: Algeria and Vice-Chairs: Lebanon and Saudi Arabia)
- 4. WG4: Integration of Geospatial & Statistical Information**
(Chair: Oman and Vice-Chairs: Egypt and Kuwait)



#	Location & Date	WG1	WG2	WG3	WG4
1	Riyadh, Nov. 2015			√	
2	Tunis, Feb. 2016		√		
3	Abu Dhabi, Feb. 23 2016	√	√	√	√
4	Doha, May 2016		√		
5	Riyadh, Nov. 2016			√	



- Agree to re-assess the priorities for the activities
- Create a mutually acceptable action plan for all member states.
- Increase the cooperation with UNGGIM NIA
- Re-circulate the existing UNGGIM NIA-questionnaire through Member States



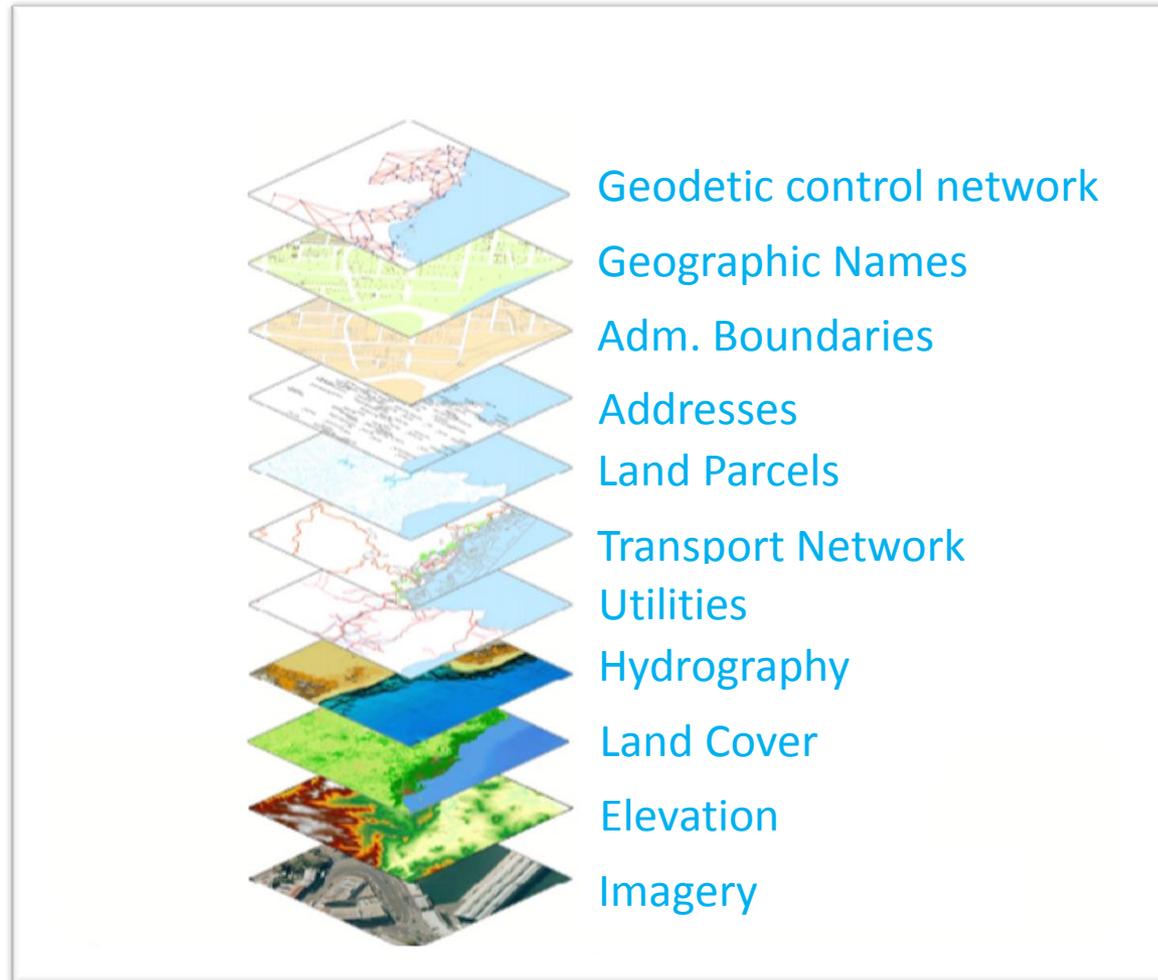
- Present National experiences in building Geospatial Information Infrastructure
- Agree on the Importance of Geospatial Information Infrastructure for decision-making at all levels
- Develop the Geospatial Information Infrastructure components according to best practices
- Analyze the Themes / Layers Questioners
- Agree to start with 11 Themes by the members to be used as Fundamental Data Themes
- Adopt and implement international standards to develop the national fundamental data infrastructure



UN-GGIM: Europe WGA	Africa Reports	ANZLIC	UNGGIM NIA	UNGGIM: Arab States
	Geodetic control network	Positioning		Geodetic control network
Geographical names	Geographic names	Place names	Geographical names	Geographic names
Administrative units	Boundaries	Administrative boundaries	Administrative units	Administrative boundaries
Addresses		Geocoded addressing		Addresses
Cadastral parcels	Land Tenure	Land parcel and property	Cadastral parcels	Land parcels
Transport networks	Transportation	Transport	Transport networks	Transport networks
Hydrography	Hydrography	Water	Hydrography	Hydrography
Area Management	Land management units/areas			
Orthoimagery	Imagery	Imagery	Imagery	Imagery
Elevation	Hypsography	Elevation and depth	Elevation	Elevation
Land cover	Natural environment	Land cover	Land Cover	Land cover
Land Use				
Buildings			Settlements	
Statistical Units				
Land Use				
	Utilities and services			Utilities
	Drainage			



UN-GGIM: Arab States Fundamental Data Themes / Layers



Future Plan

- Identify available technical source material on Geospatial data and standards
- Assess existing fundamental data and geo-standards
- Fix the relevant geospatial data categories
- Compile existing specifications and geospatial datasets
- Identify / Select fundamental subsets
- Define ways and objectives to complete / harmonize selected subsets



GRF WG 3rd meeting held in Riyadh from 22nd to 24th November 2016

- 20 representatives of 10 Arab countries:
Algeria, Egypt, Jordan, Lebanon, Morocco, Oman, Qatar, Saudi Arabia, Sudan, and Tunisia.
- Meeting Agenda
 - Discuss Questionnaires Analysis results
 - Establishing Data Center
 - Establishing Analysis Center
 - CORS for ARABREF
 - Geospatial Information exchange Protocol
 - Capacity Building Program in Geodetic Reference frame
 - Arab Countries achievements
 - Geodetic Reference Frame Road Map



GRF WG 3rd meeting held in Riyadh from 22nd to 24th November 2016



General Commission for Survey(GCS) - Saudi Arabia, organized GRF symposium on 24 Nov 2017 as Regional Practice includes:

- Geodetic Activities in GCS, (Eng.Othman Alkoryief)
- The International Terrestrial Reference Frame (ITRF) for science and societal applications, (Dr.Zuhier Al-Tamimi, IGN)
- Developing improved geoid model for KSA ,(Prof.Rene Forsberg,DTU)
- Towards a modern reference frame for the KSA, (Dr.Julia Talaya, ICGC)
- A Preliminary Vertical Datum Definition for KSA ,(Dr.Mehmet Emin,GCS)
- Satellite altimetry and GOCE contribution to the pre-definition of KSA national vertical reference frame –SANVRF, (Dr.Georgios Vergos, Geodesy & Surveying)
- Geodetic activities towards definition of KSA spatial reference system, (Dr.Rossen Grebenitcharsky ,GCS advisor)
- Toward a Nationl Strategy for Goespatial Information , (Dr.Saad Al-Hamlan, NCGIS)

<https://1drv.ms/f/s!Aj8zqFpZX9pmltdtJJvcOcqlAEnodOQ>



GRF WG 3rd meeting Recommendations

REC-I	Main Recommendation
REC-01	Encourage UN-GGIM-AS members to coordinate their contribution to ARABREF at the national level
REC-02	Approval of the need to establish ARABREF: an Arab common geodetic reference frame for cross-boundary geodetic, geospatial, geophysical, and other applications
REC-03	Approve the principle, importance and spirit of data sharing to support the realization of ARABREF
REC-04	Define two phases for building the ARABREF: <ul style="list-style-type: none"> • Phase 1: GNSS data analysis of ARABREF CORS network • Phase 2: physical geodesy data analysis of ARABREF vertical network (e.g. Geoid, gravity, leveling, tide gauges) • Adopt and start with Phase 1



GRF WG 3rd meeting Recommendations

REC-I	Main Recommendation
<p>REC-05</p>	<p>Provide GNSS data (RINEX and metadata files) of at least 10%, with an appropriate distribution of the CORS network of each country</p>
<p>REC-06</p>	<p>Establish 2-3 Data Centers to store and archive GNSS CORS RINEX and metadata files with privilege access to all AS Members</p>
<p>REC-07</p>	<p>Establish at least 2-3 Analysis Centers for routine daily analysis of ARABREF CORS network, and should be extended to all Arab Member States.</p>



- Exchange of statistical data and geographic information among the Member States
- Develop plans for the improvement of the use of geographic information systems and technology in the field of spatial statistical information to support various statistical sectors and benefit from the available data
- Develop the human resources and expertise in the use of statistical data and geographic information in different sectors
- Encourage all Member States to have assessment report for their current status regarding integration of statistical and geospatial information against the global Statistical Geospatial Framework



Draft Agenda for the 4th Meeting on 21-23 February 2017 in Qatar

- **Develop the framework for the on-going Program for all WGs to achieve the desired objectives of UN-GGIM**
- **Integrate and align with the activities of the UN-GGIM to adopt international standards, policies, criteria and methodologies for management of geospatial information**
- **Introduce the National practices of Member States**
- **Introduce the International Best practices by International Experts**
- **Coordinating with committee members about “**The initiative on Land Governance Arab Region**” by Land Administration and Management Group (Mr.Willi Zimmermann request to join the UN-GGIM: Arab state next Meeting (Qatar ,Feb2017))**



- Looking forward to continue its efforts to meet the needs and challenges of the Arab region while seeking alignment with the work of UN-GGIM
- Continue to contribute to the work of the UN-GGIM and take necessary actions upon requests by the Committee of Experts
- **Next 4th plenary meeting on 21-23 February 2017 in Qatar**



Thank You!



UN-GGIM: Arab States

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

