



Action Plan for Geospatial Information Management

Jamal Numan

Ministry of Local Government, State of Palestine

Peter ter Haar

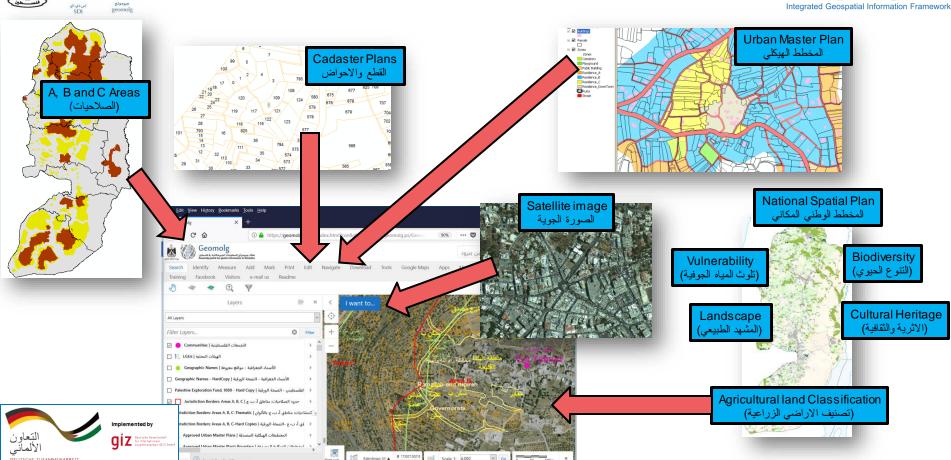
Ter Haar Geoinnovation / World Bank

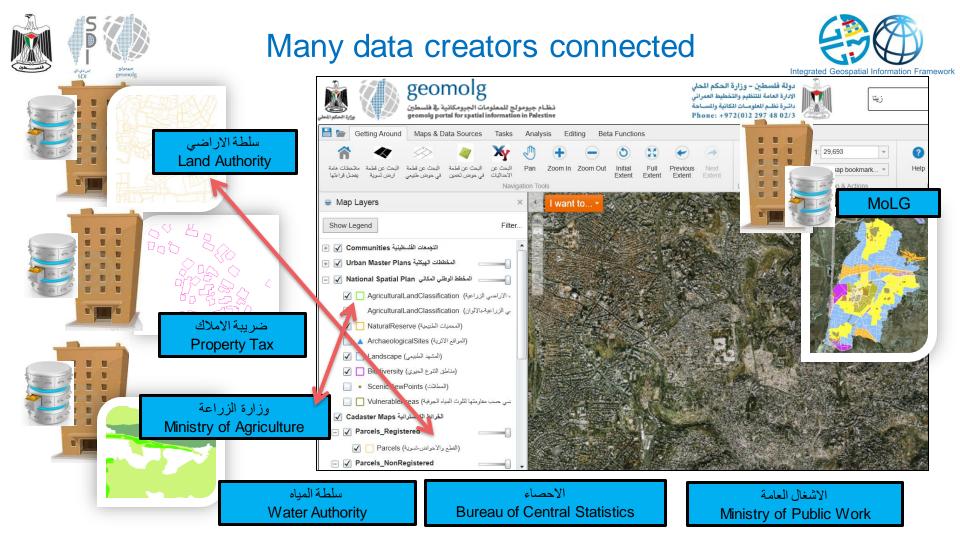
UN-GGIM 8 Side Event Forum on Global Geospatial Information Management 30 July 2018



2012: Geomolg Portal (developed with GIZ)



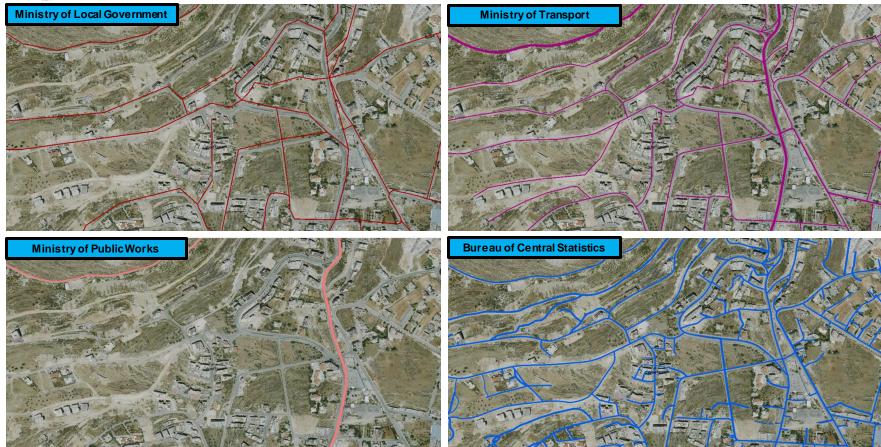






Spatial Data Quality issues









to Lead NSDI

2016: a strong Mandate





دولـــة فلسطيـــن مجلس الوزراء

قرار مجلس الوزراء رقم (17/132/04م.و ار. ج) لعام 2016م مشروع إنشاء البنية التحتية الوطنية للمعلومات المكانية (NSDI)

بناءً على الصلاحيات المخولة لنا قانوناً وتنسيب وزير الحكم المحلى

وبناء على مقتضيات المصلحة العامة

وبعد الاطلاع على القانون الأساسي المعدل لسنة 2003م وتعديلاته؛

قرر مجلس الوزراء في جلسته المنعقدة في مدينة رام الله بتاريخ (2016/12/27م) ما يلي:

المادة الأولى

تكليف وزارة الحكم المحلى بما يلي:

خدوث وزاره الخدم المحدي بن يسي. أولاً: تنفيذ مشروع إنشاء البنية التحتية للمعلومات المكانية في فلسطين (NSDI) بما يتيح الربط والنبادل

الإلكتروني للمعلومات المكانية مع جهات الاختصاص، بالتنسيق مع وزارة الاتصالات وتكنونوجيا

ral cale at

المعلومات.



The Ministry of I Govern (MoLG) with the ordination of Ministry of Tell and Information annology T) Launching patial Data Infrastructure (**

October 2017: National SDI Committee established



قل مجلس الوزراء رقم (50/17/17م، وار.ح) تعام 2017م

تشكيل اللجنة الوطنية لمتابعة تتقيذ مشروع إنشاء البنية التحتية الوطنية للمطومات المكانية

بناء على الصلاحيات المخولة لنا قاتوبا

وتتمريب وزير الحكم المحلى

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قرر مجلس الوزراء في جلسته المنعقدة في مدينة رام الله يتاريخ (2017/10/31م) ما يلي:

المادة الأولى

تشكيل اللجنة الوطنية لمكابعة تتفيذ مضروع إنشاء الينية التحكية الوطنية للمطومات المكانية، <mark>ت</mark>قدم في عضويتها كلاً من:

		.0
فنابة الزراعة	وزارة الاتصالات وتكتواوجيا المطومات	وتلدة الحكم المطي مقرراً"
وزارة الداخاية	وزارة الأوقاف والشؤون الديتية	وزارة النقل والمواصلات
ملطة الأراضي	وزارة التربية والتطيم العالي	وزارة المالية والتخطيط
ممثل عن منسسات التطيم العالي القلسطينية	الجهاز المركزي للإحصاء القاسطيتي	سلطة الطاقة والموارد الطبيعية
	ممثل عن المتظمات الأهلية	ممثل عن القطاع الخاص
	5 -3m = 1 m	

المادة الثانية

تتولى اللجنة تقيم عمل المشروع، والمصادقة على توصيات اللجان الفنية المختصة يضمان تنفيذ المشروع.

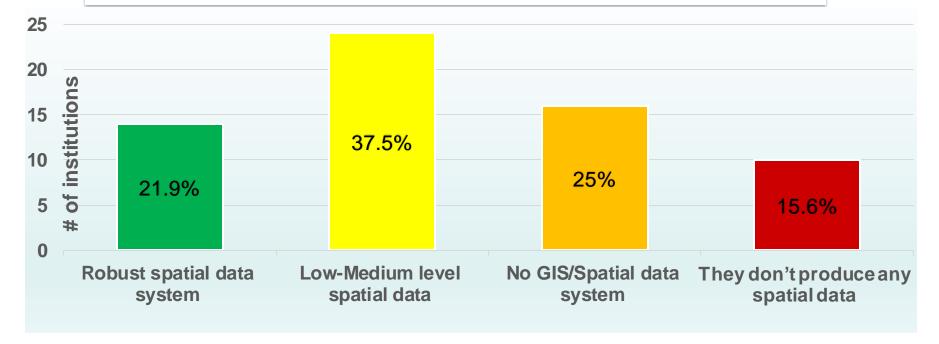
على الجهات المختصة تتفيذ أحكام هذا القرار كل فيما يخصه، وينشر في الجريدة الرسمية.



Survey of 64 Organizations in Palestine



- More than 300 layers are produced
- Duplication in 16 fundamental layers
- More than 30 layers are still required but not produced yet





National SDI Committee



Members:

- 1. Ministry of Local Government (chair)
- 2. Ministry of Telecommunication and Technology
- 3. Ministry of Agricultural
- 4. Ministry of Transportation
- 5. Ministry of Finance and Planning
- 6. Energy Authority
- 7. Ministry of Religious Affairs
- 8. Ministry of Education
- 9. Ministry of Interior Affairs
- 10. Palestine Land Authority
- 11. Palestine Central Bureau of Statistics
- 12. Land and Water Settlement Commission
- 13. Private sector representative: Chambers of Commerce
- 14. Academic Institution representative: Birzeit University
- 15. NGO representative



3rd Meeting: July 2018





National SDI Committee



Task 1: Monitor NSDI Implementation

- Supervise the development of the technical platform and the legal framework that will govern the work of institutions and departments under the NSDI
- Form and appoint representatives to lead or serve on subcommittees or working groups

Task 2: Oversee Communication and Decision-Making

- Hold monthly meetings to assign tasks, discuss the progress of work, and find solutions to challenges
- Oversee decision-making processes, including committee-wide votes on adoption of standards and policies to be put forward to the Council of Ministries for support
- Maintain continuous communication to keep the Council of Ministers apprised of the NSDI initiative's progress

Task 3: Ensure Education and Sustainability

- Arrange exchanges with regional and international partners as necessary to gain experience to implement the project
- Establish domestic trainings to develop the required technical skills to implement the project in participating public, private, and educational institutions

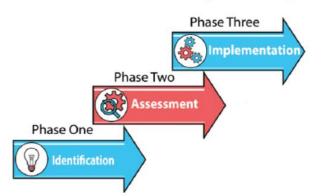


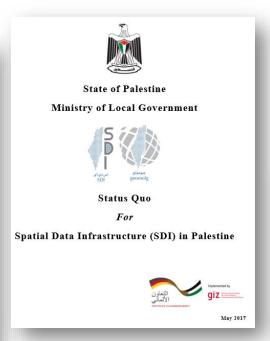


SDI Phases



- 1. Phase I (Kick-off): this includes identifying spatial data producers (stakeholders) and fundamental datasets, developing standards and policies for the technical platform and legal framework.
- 2. Phase II (Needs Assessment): this aims at evaluating the technical capacities of spatial data producers and their willingness to share data in accordance with the set of standards and policies. Producers who have legal and technical capacity to share data can embark on a project immediately. Those who fail to have the proper legal or technical aspects will have their needs identified so that they can be met in the next phase
- Phase III (Implementation): physical support is introduced for producers who failed to have the adequate capacity. This includes hardware, software, training, and staffing.







State of Palestine

Ministry of Local Government



Comparison Study

For

Spatial Data Infrastructure (SDI) Development in United Arab Emirates, United Kingdom, Turkey and New Zealand



Implemented by

giz Industrial Industrial
Transcription (Industrial
Tr

November 2017



2018: World Bank involvement





The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT INTERNATIONAL DEVELOPMENT ASSOCIATION

Marina Wes, Country Director P.O. Box 54842, Jerusalem Tel (Office): 02-236-6500 Fax (Office): 02-236-654:

mwes@worldbank.org

February 26, 2018



H. E. Dr. Rami Al-Hamdallah Prime Minister Palestinian Authority Ramallah

implementation Action Fian.

- TA 4: Providing additional assessment to property tax once the scope of the project financed by the Netherlands is defined.
- TA 5: Supporting the Ministry of Local Government to assess progress made in the establishment of the Spatial Data Infrastructure under the GeoMoLG and preparing an action plan that is in line with international best practices; and
- TA 6: Providing support in the development of a strategy to establish a Geodetic Reference

Excellency

The recent Sup



May 2018: Start developing an Action Plan





The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT INTERNATIONAL DEVELOPMENT ASSOCIATION

Marina Wes, Country Director P.O. Box 54842, Jerusalem Tel (Office): 02-236-6500 Fax (Office): 02-236-6543

mwes@worldbank.org

May 10, 2018



H. E. Dr. Rami Al-Hamdallah Prime Minister Palestinian Authority Ramallah

> Subject: Support to the Palestinian Land Sector Mission May 21 - June 01, 2018

Excel

2018.

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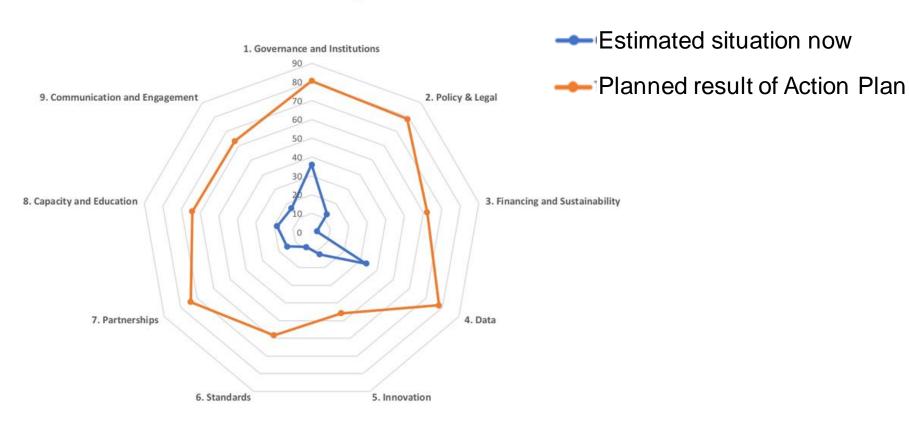
The mission will meet and coordinate closely with representatives from your office, and other relevant sector stakeholders including the Technical Committee, Palestine Land Authority, Land and Water Settlement Commission, and Geo-MoLG. The joint mission would highly appreciate the opportunity of meeting with you for further consultation and guidance.



Diagnostic of current and target situation





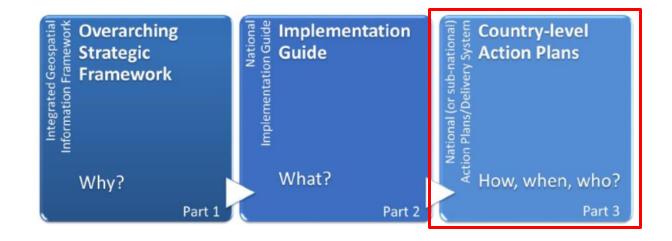




Action Plan for Geospatial Information Management



- 5 Year Action Plan to kick start development of the data infrastructure
- Reform Area V of the Road Map for Reforming the Palestinian Land Sector
- UN-GGIM Integrated Geospatial Information Framework as guidance for the development of this Action Plan





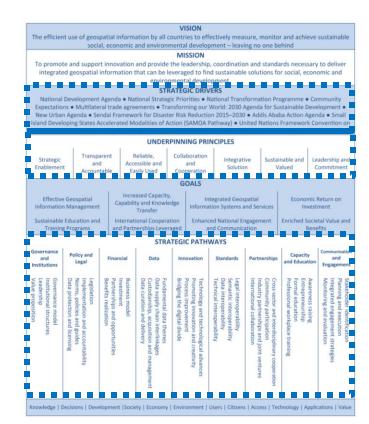
Application of the Framework



The Geospatial Information Framework was used as guidance and structure in developing the Action Plan, most importantly:

- Strategic Drivers
- Underpinning Principles
- Strategic Pathways

Application was adapted to the specific situation in the State of Palestine, the status of GI and the existing projects







Strategic Drivers: clear link to National Policy Agenda



tegrated Geospatial Information Framework



National Policy Agenda 2017-2022



Putting Citizens First

December, 2016

					1	
Pillar 2: Government Reform						
National Priorities	National Policies	Enabling Geospatial Information				
Government Governmen	7. Responsive Local Government	improve services to citizens. Municipality's engineers will be more responsive since they can access all types of data remotely, and so they can inspect and respond without the need to by physically in the field.		Palestine's Ivironment	Local spatial data will foster collaborative community planning with emerging residential neighborhoods balanced with business and agricultural areas.	
				Palestinian		
				werty.		
				ing Social	Accessible and accurate information will give citizens more security about their rights, opportunities for public participation or legal action Geospatial information related to gender will prove the reality about the gender equality and strengthen and fasten the effort to fill any gap between genders in any aspect (education, employment) Young people are the most frequent users of public space and yet are rarely consulted during urban planning processes. Our goal is to incorporate young people's Accessible and accurate coverage of educational facilities improves the information provision to parents, teachers and education planners.	
	Improving Services to Citizens	Provides a whole-of-government approach offering citizens a single window to all government information. Having the most updated geospatial data allow concerning bodies receive and respond to complains faster and allow them to distribute and dispatch their resources efficiently.		Access to		
				iality and ent.		
Government According Trans	Strengthening Accountability and	data.		Our Future.		
	Transparency			arly and Pre- cation.		
	10. Effective, Efficient Public Financial Management	Provides opportunities to remove duplication of effort and increased efficiency of data creation and use.				
Pillar 3: Sustainable Development		rimary and Education.	Geospatial information can play a significant role in the curriculum (geography, economy, history,)			
National Priorities	National Policies	Enabling Geospatial Information		ition to	Provides a foundation for employment opportunities in spatial	
Independence		Increased availability and usability of spatial data will create a more diverse and efficient service base and realize an increase in economic and social benefits as a result of new products and services.			information and technology.	
				th Care	Supports efficiency of health care planning and matching citizens to available health resources.	
	Opportunities			izens' Health	Location information about health facilities will improve access.	
	1			w men ber	ng.	Monitor disease by location. Say you have cancer in Nablus and maybe its linked to a factory, it will help create the right images and make fast

	S. TYON MONEY	Monitor disease by location. Say you have cancer in Nablus and maybe its linked to a factory, it will help create the right images and make fast decision that will fasten the response and improve the health by respond in the right time.		
Resilient Communities	26. Ensuring Community and National Security, Public Safety and Rule of Law.	Mapping Palestinian security force access enables the government to measure spatial patterns, assess vulnerabilities and respond proactively with preventative measures.		
	27. Meeting the Basic Needs of Our Communities.	Conducting needs assessment surveys are more effective when the data has a geographic tag and can support problem-identification across a jurisdiction and promote gap-filling.		
	28. Ensuring a Sustainable Environment and Adapting to Climate Change.	Integrated spatial information from across the government sector to monitor and manage land degradation, pollution, water resources, biological diversity and waste disposal.		
	 Revitalizing Agriculture and Strengthening Our Rural Communities. 	Integrated spatial information from across the government sector to monitor and manage land degradation, pollution, water resources, biological diversity and waste disposal.		
	30. Preserving Our National Identity and Cultural Heritage	Accessible and accurate map coverage of cultural heritage to support preservation.		

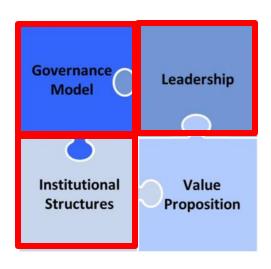


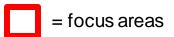
SP1: Governance and Institutions



Primary focus is on capacity building of the institutions and establishment of working groups

- 1.1 Establish a Geospatial Information Coordination Unit
- 1.2 Establish (additional) working groups
- 1.3 Institutional Review







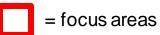
SP2: Policy and Legal



This is an area that is currently hardly developed. A broad basis of policies and legislation will need to be established.

- 2.1 Development and implementation of a Geospatial Policy Framework
- 2.2 Development and implementation of a Monitoring Framework





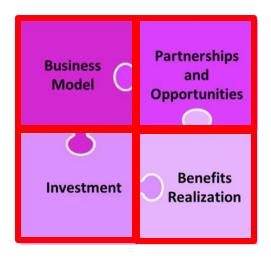


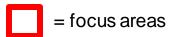
SP3: Financial



This is an area that is currently underdeveloped. Palestine is very dependent on external investment. A nationally accepted business model is required for sustainability.

- 3.1 Economic Study & Inventory
- 3.2 Development of a Business Plan for Geospatial Information Management



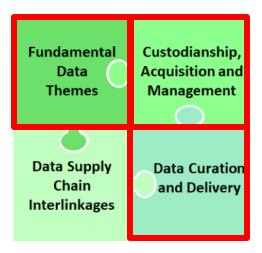


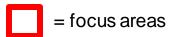


SP4: Data (1)



- There are many data suppliers that create data for their own processes.
- Duplication of effort and missing fundamental data.
- Important datasets (such as ortho-imagery) are nationally created but still ad-hoc.
- Data distribution infrastructure needs strengthening.
- Geodetic infrastructure needs rebuilding.



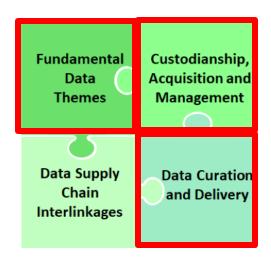


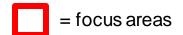


SP4: Data (2)



- 4.1 Development of a Geodetic Reference Frame
- 4.2 Strengthening of the Geomolg data distribution infrastructure
- 4.3 Development of Functional Area datasets
- 4.4 Development of a definitive Road Network
- 4.5 Review of the specification of the Ortho-imagery layer
- 4.6 Development of a Utility Networks dataset
- 4.7 Development of a Public Service points dataset
- 4.8 Development of a Metadata Catalog
- 4.9 Research into potential for addressing in Palestine





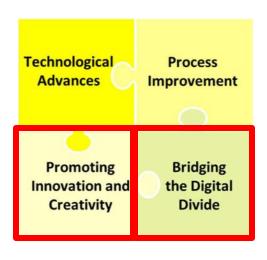


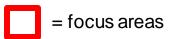
SP5: Innovation



Focus on promoting innovative use of data and getting more groups involved through technology

- 5.1 Build an Application Programming Interface
- 5.2 Create a public website (local innovation website)
- 5.3 Open Source Platform
- 5.4 Location Intelligence applications





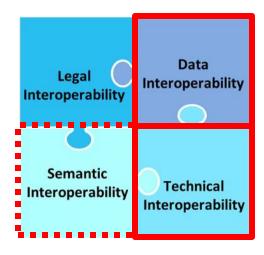


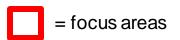
SP6: Standards



Data suppliers each have their own standards now. Primary focus on technical and data interoperability between data suppliers and users.

- 6.1 Identification of the current data standards in use
- 6.2 Development and implementation of standards policy
- 6.3 Implementation of standards policy







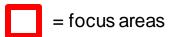
SP7: Partnerships



Primary focus on partnerships with private sector (for financial sustainability) and international (for knowledge sharing and investment)

- 7.1 Stakeholder analysis
- 7.2 Create partnership model
- 7.3 Implement partnership model





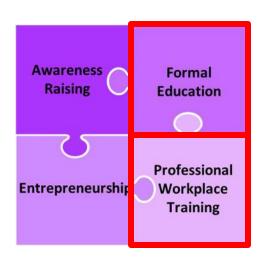


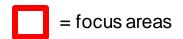
SP8: Capacity and Education



Level of GI knowledge is low, especially GI developer skills. This makes use of open source software vulnerable.

- 8.1 Inventory into the status and availability of geospatial skills
- 8.2 Development and implementation of knowledge exchange programs
- 8.3 Development and implementation of professional training programs
- 8.4 Collaboration with academic sector to adapt curricula







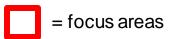
SP9: Communication and Engagement



The new National SDI Committee and the implementation of the Action Plan will require regular communication with a wide group of stakeholders, including the citizen.

- 9.1 Stakeholders analysis
- 9.2 Semiannual Workshops
- 9.3 Quarterly Newsletter
- 9.4 Create a web forum







Action Plan conclusions



- 7 Principles
- 33 Actions for 9 Strategic Pathways, including institutional arrangements, technology, data collection and capacity building
- High Medium Lower priority
- 5 Year implementation period
- Guidance to investment decisions by government, the World Bank and other donors
- Validation, confirmation and planning the execution in the second half of 2018





State of Palestine

Action Plan for Geospatial Information 2018-2023

July 2018



Action Plan: leading to results





25 July 2018: The 4th National SDI Committee meeting discussed Terms of Reference of the SDI Committee and the Standardization working group









Questions and Feedback, Please.

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