

Agenda

- 9.00 Registration
- 9.15 Welcoming (Ashley Hili, PA)
- 9.30 Introduction (Prof. Saviour Formosa)
- 9.45 The Malta NSDI Strategy (M. Bonazountas)
- 10.00 Questions & Replies
- 11.00 Closure

Presentation

Marc Bonazountas
EPSILON Malta Ltd
bonazountas@epsilonmalta.com







Malta NSDI

Spatial Data Infrastructure for the Maltese Islands Developing Integrated National Spatial Information Capacity

INFORMATION DAY

Appeals Boardroom | St. Francis Ravelin, Floriana





Overview of this "short" presentation

- Introduction
- NSDI perception
- The Malta NSDI
- Staff & Training
- Cost of implementation
- Stakeholders participation
- Closure with Q/A







Introduction

- The SIntegraM programme
- The Stakeholders Interviews
- Mission of the MT-NSDI
- Strategy for a MT-SDI
- The Malta NSDI components
- The outcome & benefits of the MT-NSDI
- The next step for the Stakeholders (to make it happen)

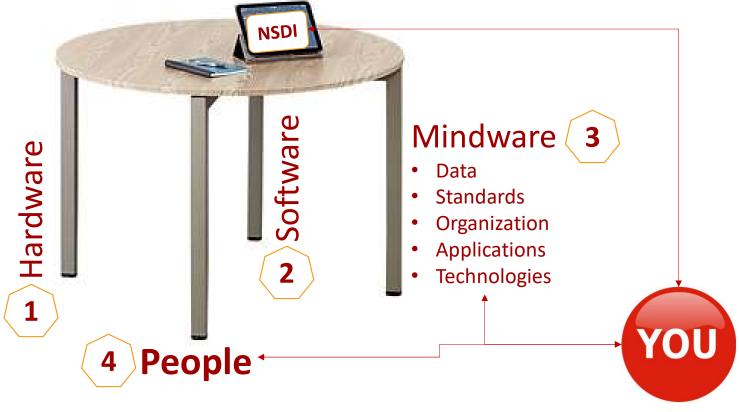






NSDI pillars for success

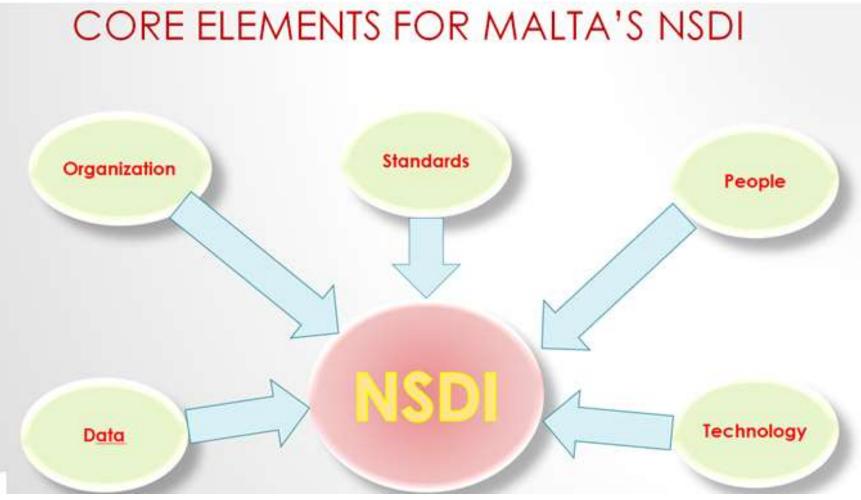














NSDI in Malta ... ?

The Needs....

- Basic reference map
- Better information needed for policies and decision making
- Improvement of existing information flows
- Revision of approach to reporting and monitoring, moving to the concept of sharing of information

....The Situation

- Policy restrictions (pricing, copyright, access rights, licensing)
- Lack of co-ordination across boarders and between levels of government
- Lack of standards (incompatible information and information systems)
- Existing data not re-usable, (fragmentation, redundancy, inability to integrate)

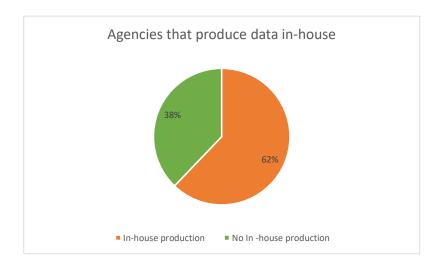






The Stakeholders' Interviews

- 37 personal Interviews with 80+ people
- Statistical Analysis of info received
- On Data use, production and linkage
- Key interviews results
 - SIntegraM is a "Must"
 - Geodetic Reference System of Malta
 - Stakeholders business as usual
 - New Authority
 - Training Centre & assistance
 - Applications needed
 - INSPIRE compatibility
 - Web-technology
 - Common GIS software architecture
 - MITA as repository









NSDI perception (based on the interviews)

- On geodata
- On NSDI and NSS (National Spatial Strategy)
- Goals of an NSDI (based on the interviews)
 - Effectiveness
 - Capabilities
 - 3. Leadership
 - 4. New entity & Legal issues
 - 5. Legal issues related to Spatial Data
 - 6. Technology issues







Technology, Legal, Lessons learnt

- Trends & considerations
- Integration of existing data 2D and 3D
- Vector, raster data (Copernicus, UAV, aerial), other
- Alignment of information with geodetic systems
- Alignment of thematic layers to a common reference system
- Use of geo-standards (e.g. INSPIRE, OGC, ISO)
- Legal framework & infrastructure
- Well known EU NSDIs
- Lessons learnt







The Malta NSDI

Methodology

- Interviews
- Approach Strategic Components Model

Components analysis

- Four structures analysed
- One structure proposed

Structure proposed

- Independent Authority
- Under the MTIP (Ministry of Transport, Infrastructure and Capital Projects)
 - Board of Directors
 - Steering Committee
 - · Secretariat Office
 - · Technical Departments
 - Legal Department
 - Financial Services Dept









Organisational needs

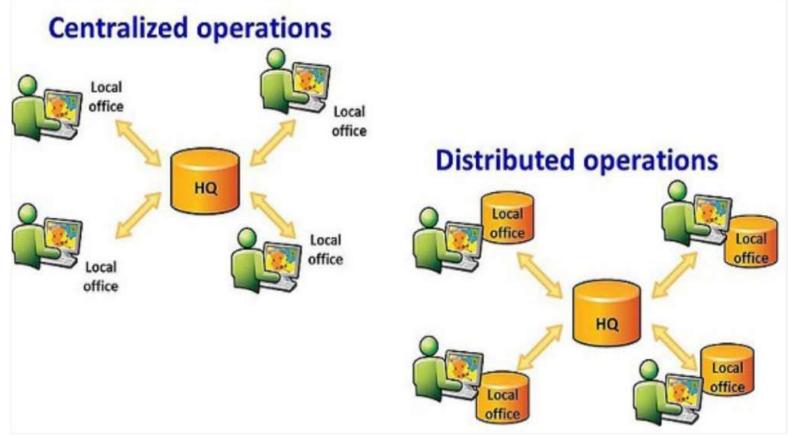
- Strategy
- Legal Framework
- Financial model
- Monitoring Audit
- Data component important (which first)
- Rules
- Standards (geo-spatial, other)
- Agreements
- Technology | Architecture
- Human Resources







Technology operations









Technologies Involved/Needed

- Datum & Projection System (WGS84/UTM)
- ❖ The National "Hub" GeoPortal
- The H/W and S/W
- The Datasets & Standards (INSPIRE, ISO), transformation, validation, cost
- New Datasets Guidelines by the Authority
- The Data Repository
- The Metadata
- The Training activities
- The Agreements
- The linkage between Stakeholders and data interoperability and conformance (technical, syntactic, semantic)







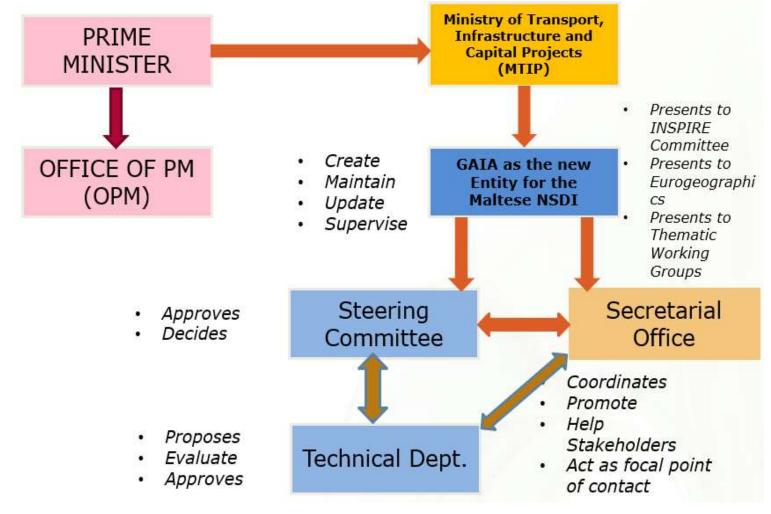
Tangible Benefits

- Minimisation of cost (single basemap)
- Reduction of duplication
- INSPIRE compatibility
- Best handling of geodata
- Added value products (e.g., emergency)
- Policy assistance
- Coop of Stakeholders
- Easy EU Reporting (e.g., SEIS)













Cost



- -- Capital Cost (6,14 + 2,5 hw/sw = €8,64 million)
- -- Operating & Maintenance Cost = 20% = €1,5 m
- -- Annual Revenue = €1,1 5,1 million

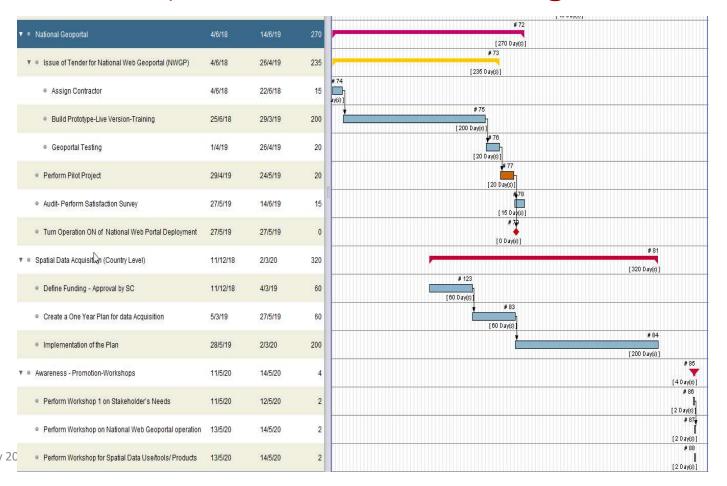
Action	Action Description	Cost (thousands of Euros)
1	Governance – Initial Activities	900
2	Stakeholders	400
3	Legal- Policy Framework	1300
4	Quality – Security	200
5	National Interoperability Framework (NIF)	350
6	Maltese Foundation Spatial Data	500
7	Education – Training - Awareness	250
8	Spatial Data Framework	1100
9	National Geoportal (in procurement via SIntegraM)	600
10	Spatial Data Acquisition (Country Level)	250
11	Awareness - Promotion	300
	TOTAL	6.140







Time Table (36 months overall, e.g. Education)









Upcoming Steps



- www.malta-nsdi.eu
- National Reference Coordinate System contract
- SIntegraM Dissemination Portal contract
- Aerial Photography contract
- UAV extraction data contract
- Authority Establishment
- Training
- Pilot projects/modules contract INSPIRE based (model. Prototype, simulate)
- *****











Ashley Hili | Prof. Saviour Formosa | Prof. Marc Bonazountas

