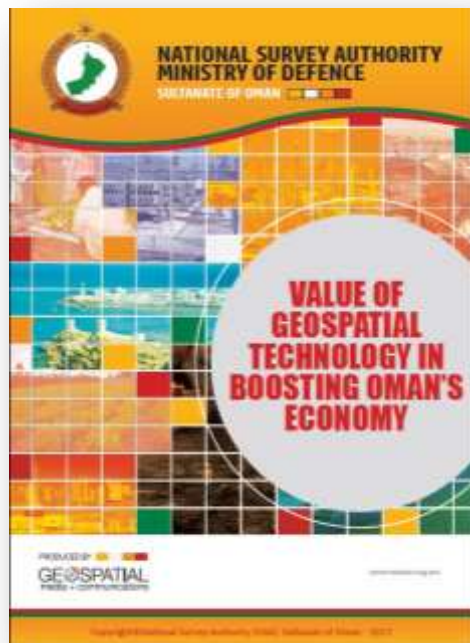


# VALUE OF GEOSPATIAL TECHNOLOGY IN BOOSTING OMAN'S ECONOMY



## RESEARCH REPORT KEY FINDINGS

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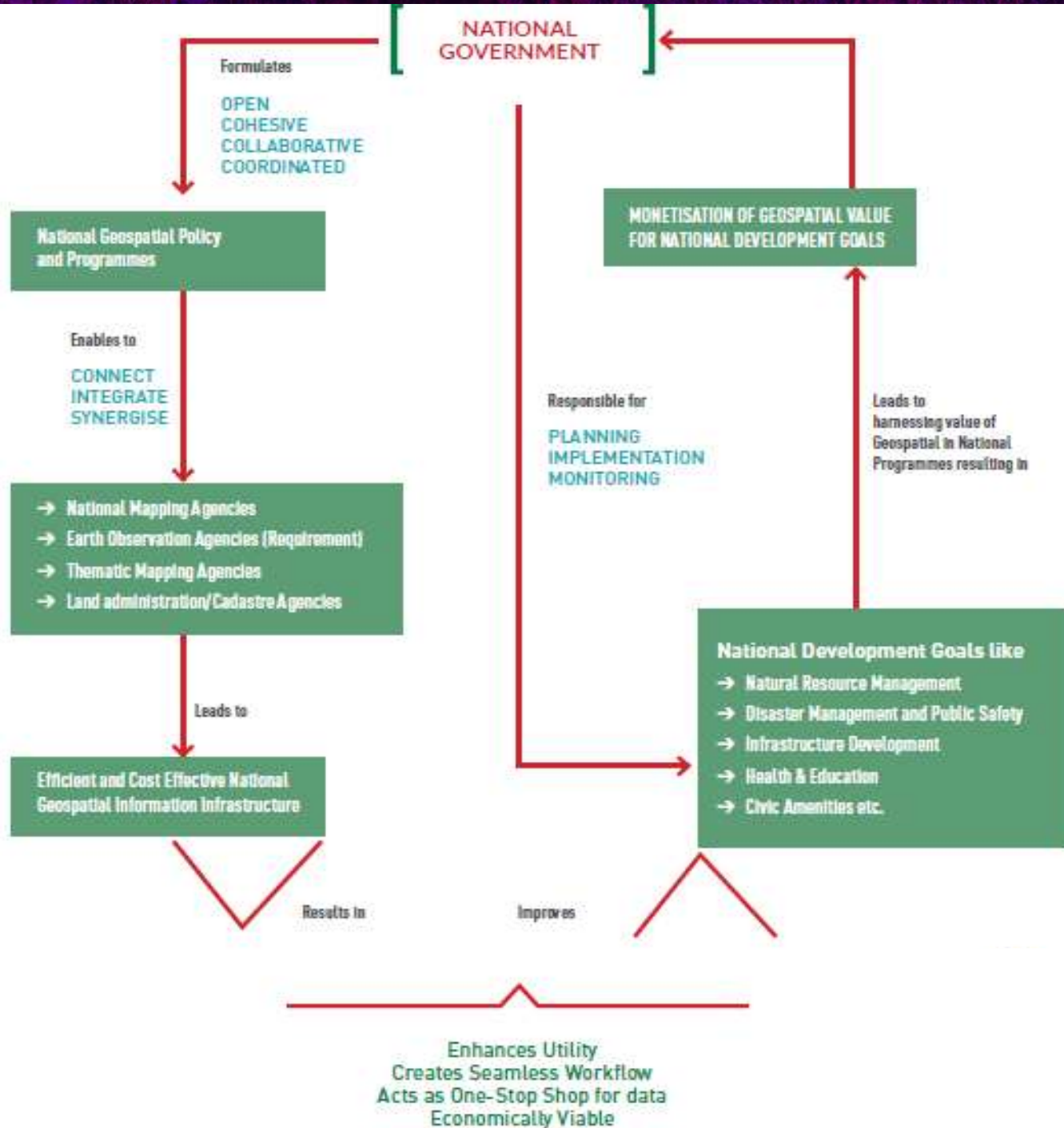
**Geospatial Media and communications**

# OUTLINE

- ❑ Oman Today & Tomorrow, Transformative Scenarios
- ❑ Future Trends of Geospatial Technology Applications in Oman
- ❑ Recommendation for the Future

# OMAN TODAY & TOMORROW, TRANSFORMATIVE SCENARIOS

# Incremental Value of Stakeholders in Geospatial Value Addition to the Economy



# INTRODUCTION

To evaluate the present and to define the way forward, the research study assesses Oman's geospatial ecosystem in the following four parameters:

- **Geospatial Data Infrastructure and Policy Framework**
- **Institutional Capacity**
- **Industry Fabric**
- **User Adoption Level**

# GEOSPATIAL DATA INFRASTRUCTURE & POLICY FRAMEWORK

## + STRENGTHS

- More openness from government data providers
- Procuring data takes 6 months
- Spatial data has been transferred into digital format
- Quality levels of geospatial data are well-defined
- National Continuously Operational Reference Station Network (OMANCORSNET) established

## - WEAKNESS

- Organizations contributing to ONSDI do not adhere to common standards and technical specifications
- Process of accessing data is manually driven
- Lack of public-private engagement

# INSTITUTIONAL CAPACITY

## + STRENGTHS

- Inclusive geospatial programs in schools and university curriculums
- More opportunities of geospatial training for teachers
- Educational universities like Sultan Qaboos University are involved in national geospatial projects like – coastal erosion projects, water quality, etc.
- Induction programs that lead to employment by NSA

## - WEAKNESS

- Students don't want to be 'geospatialists' but engineers
- Value addition of geospatial education not recognized
- Job ready students from universities is a challenge

# INDUSTRY FABRIC

## + STRENGTHS

- Collaboration with foreign geospatial industry players
- Presence of geospatial consultants who understand the culturally different industry of Oman
- Service Oriented geospatial industry
- Geospatial use active in workflows

## - WEAKNESS

- Not a well-established geospatial industry ecosystem
- Mostly outsource their products (data/content) and services from foreign countries
- Economic slow-down has resulted in negligible fund allocation for geospatial projects
- Lack of public-private partnerships
- Adoption of new geospatial technology is slow and user community is still dependant on traditional methods and data



# USER ADOPTION LEVEL

The real-value of technology is assessed on how and to what level it is being implemented by the end user.



Oil & Gas



Utilities



Telecommunications



Municipality



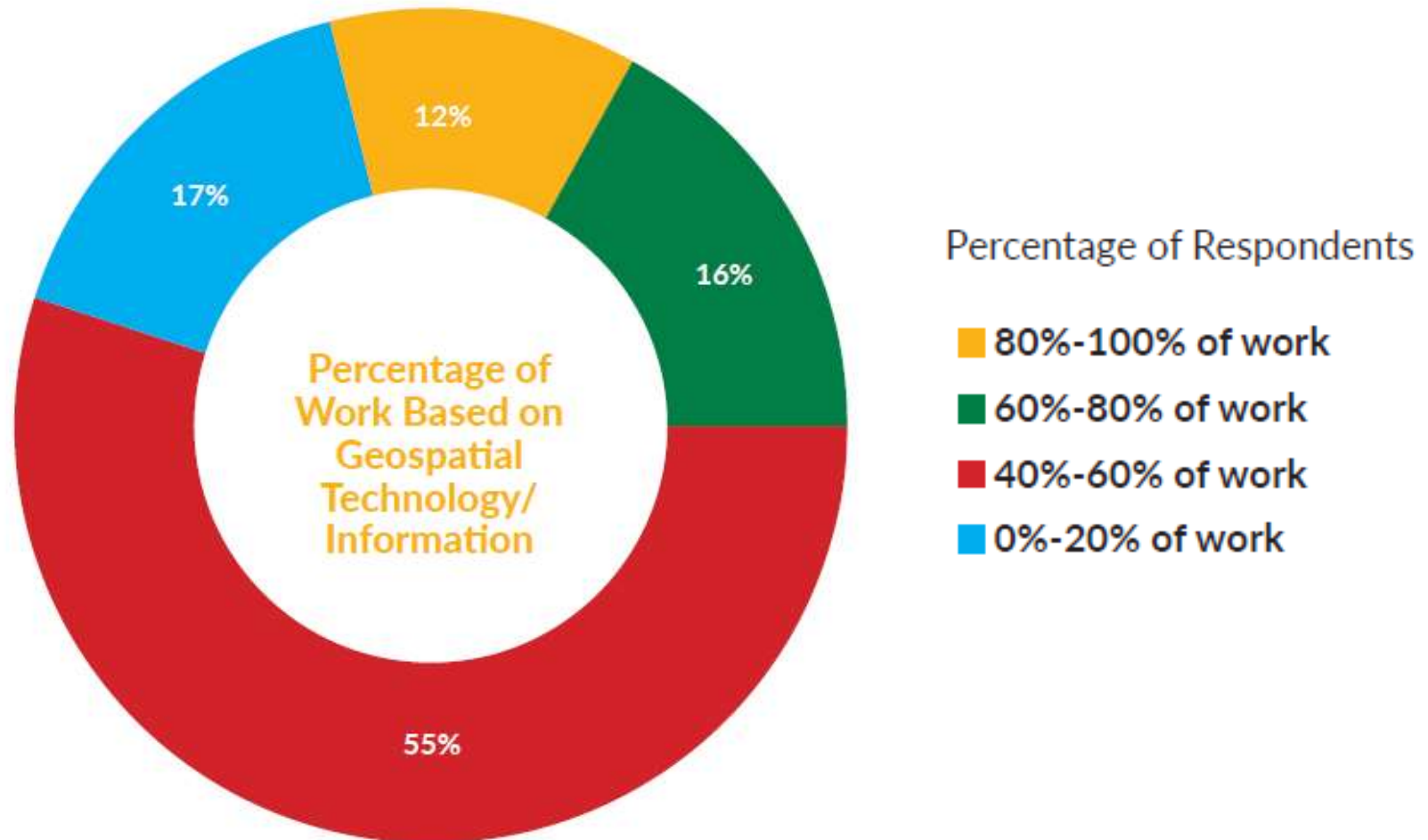
Infrastructure



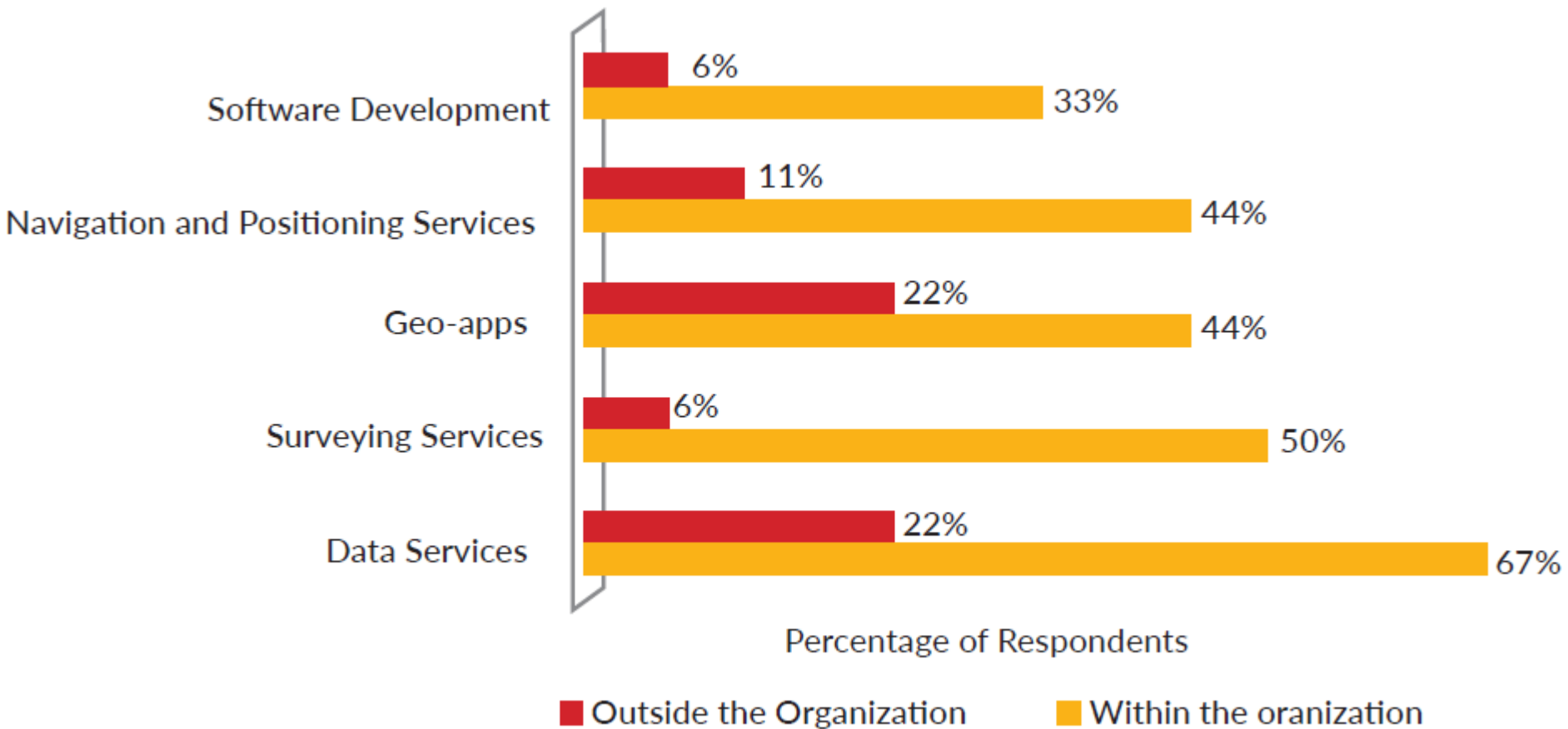
Defence

**Significant users of  
Geospatial Technology  
and Information in Oman**

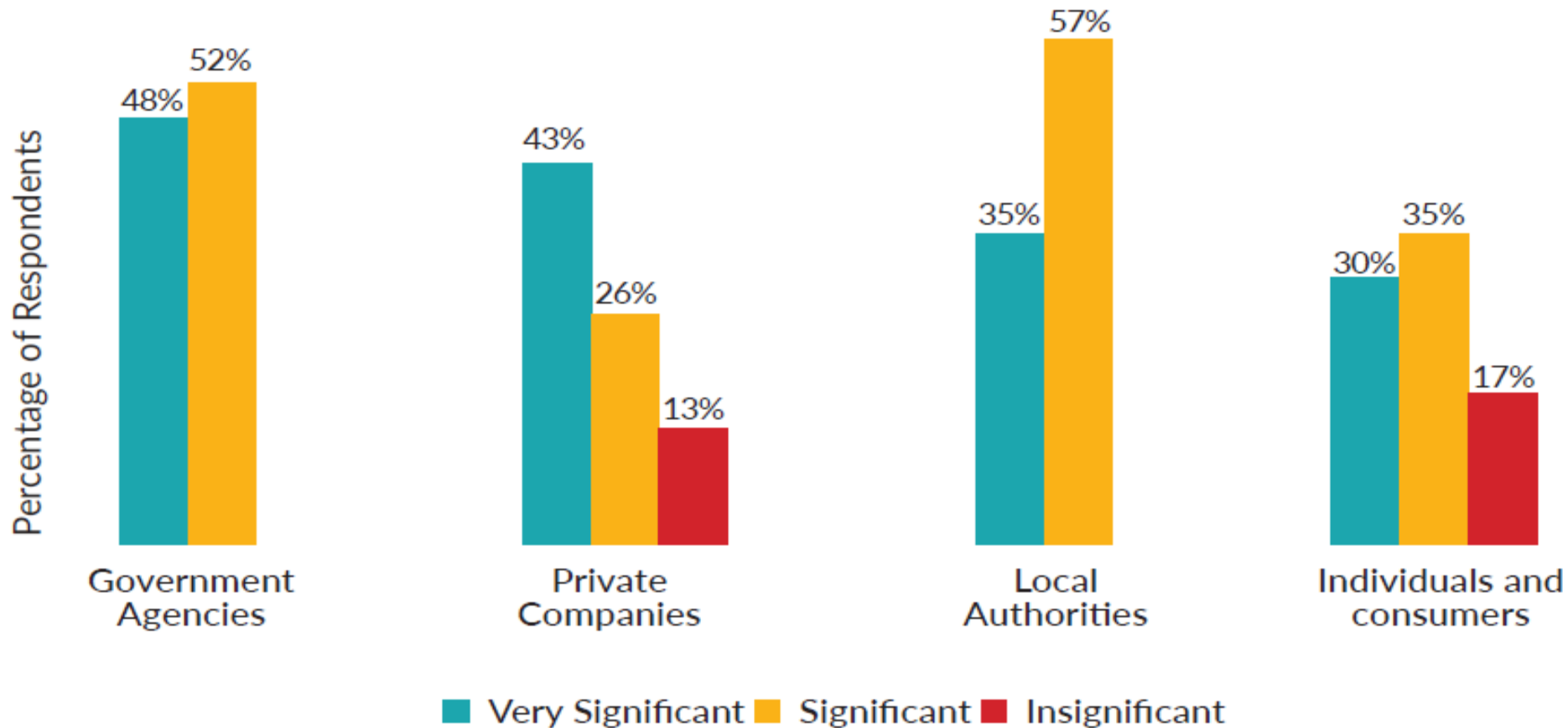
# Work based on Geospatial Technology/Information



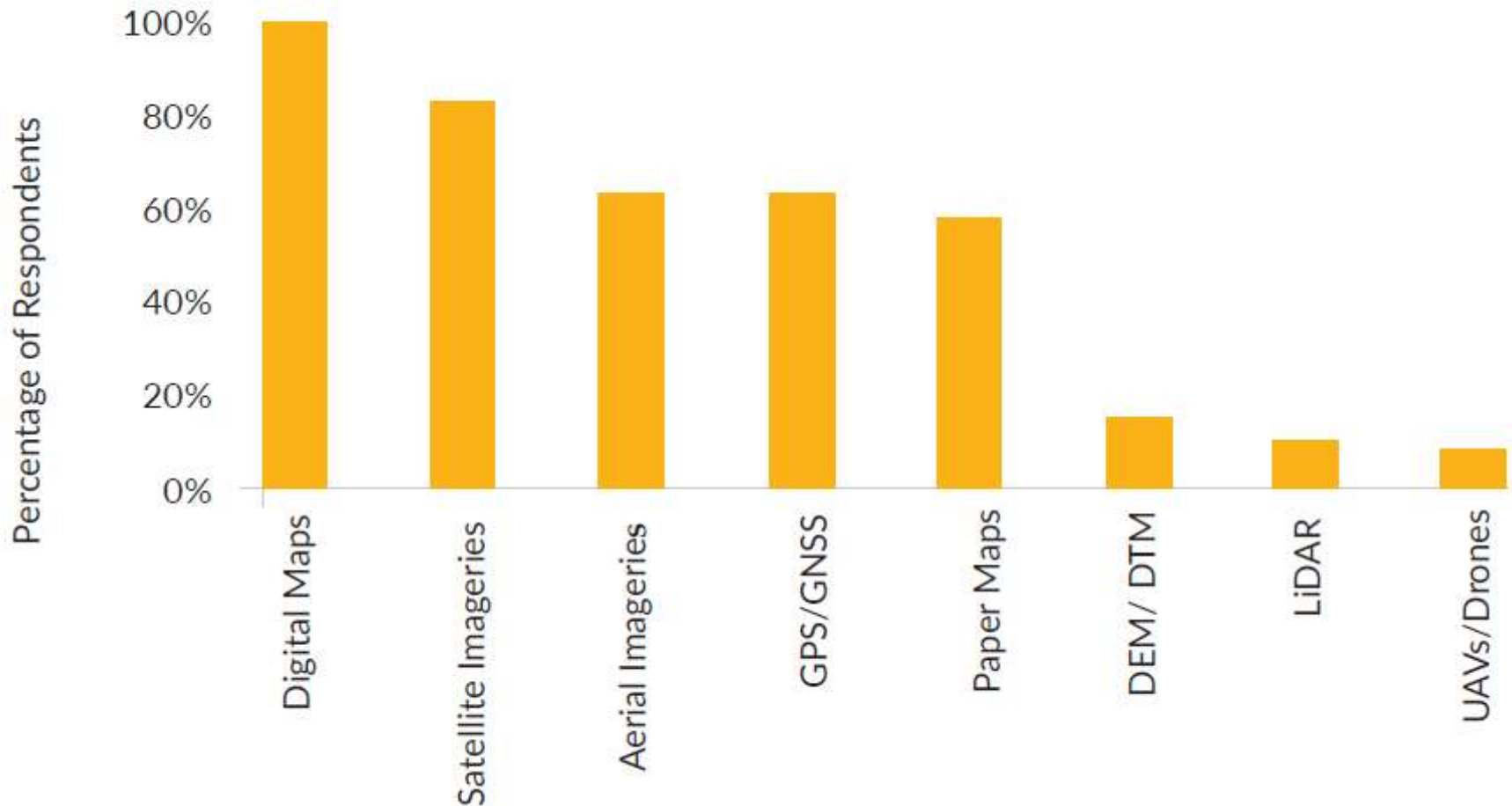
# Services offered by Geo-Division of Users



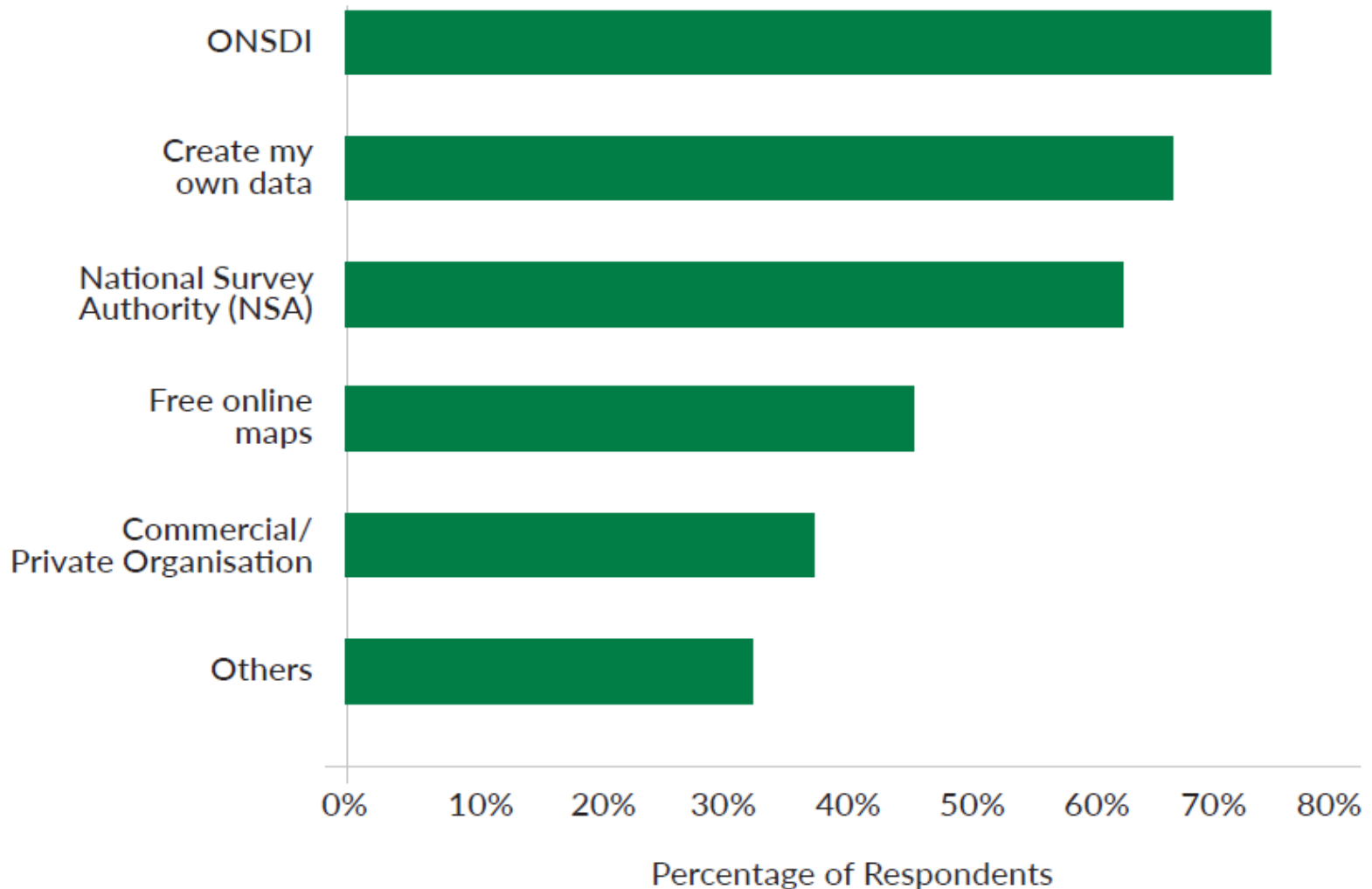
# Beneficiaries of the Benefits arising from use of Geospatial Technology



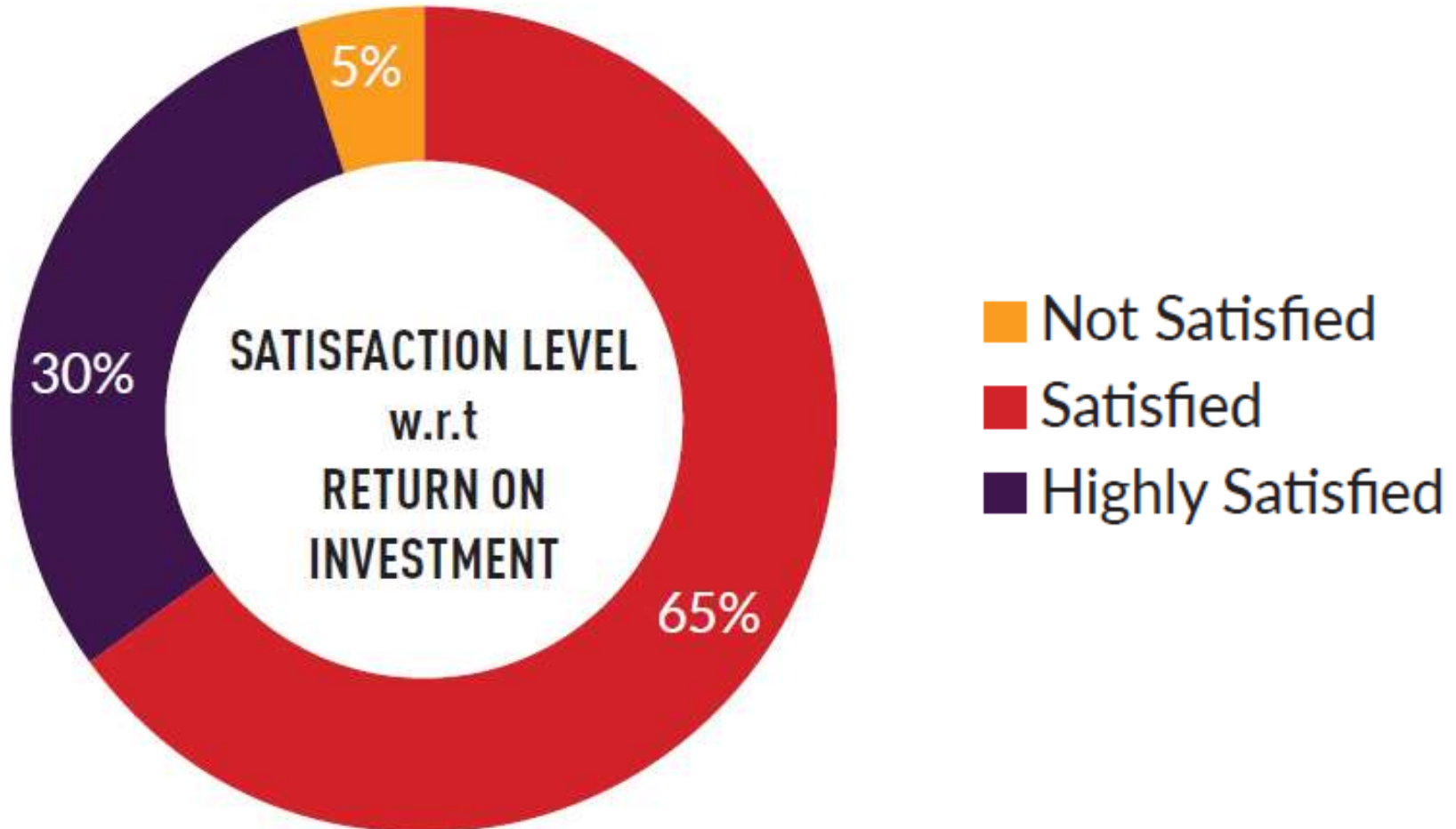
# Types of Geospatial Technology/Information Used



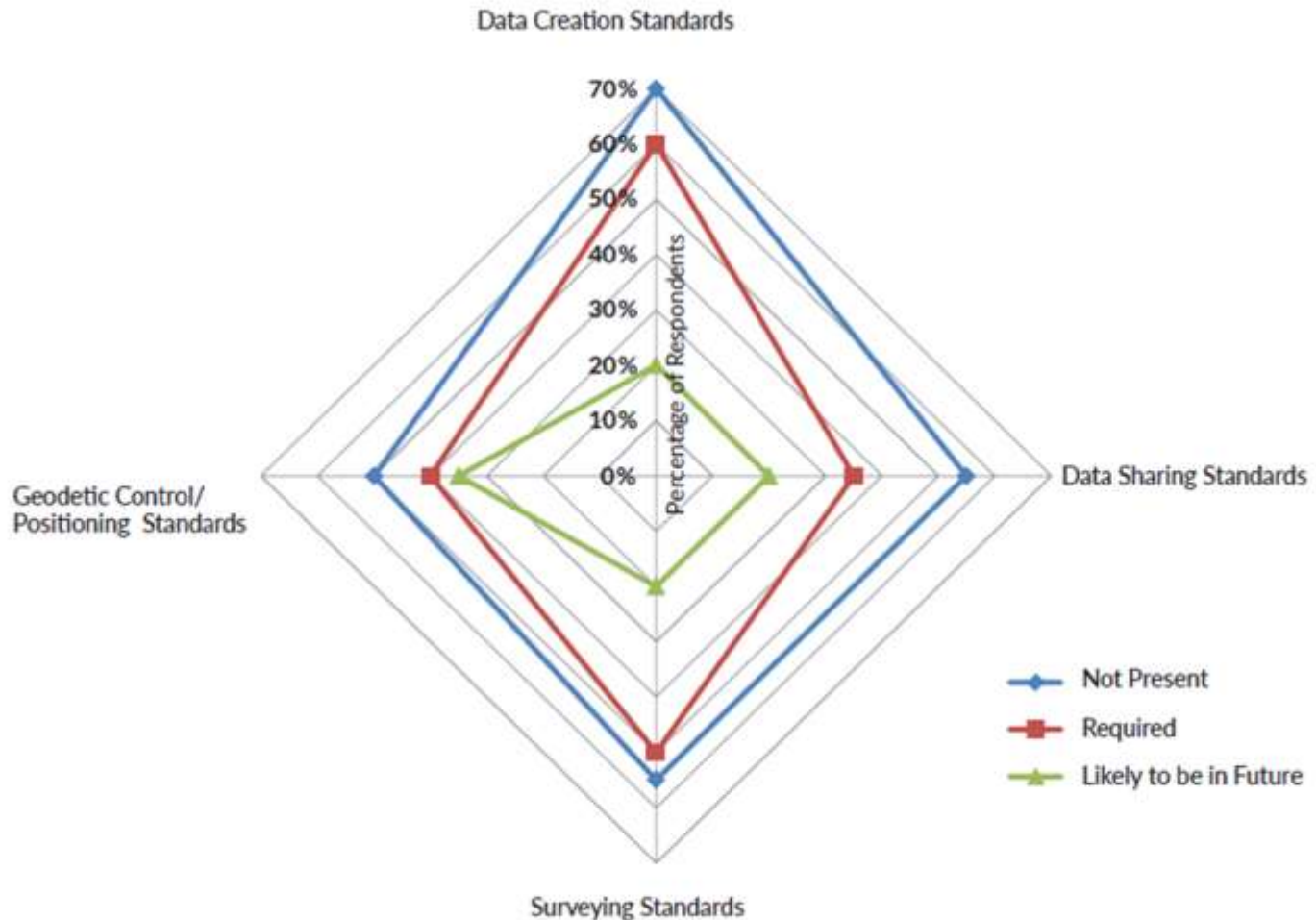
# Popular Data Sources for Geospatial Information



# Satisfaction Level w.r.t Return On Investment (ROI)



# Challenges faced by users with respect to Standards





# USER ADOPTION LEVEL

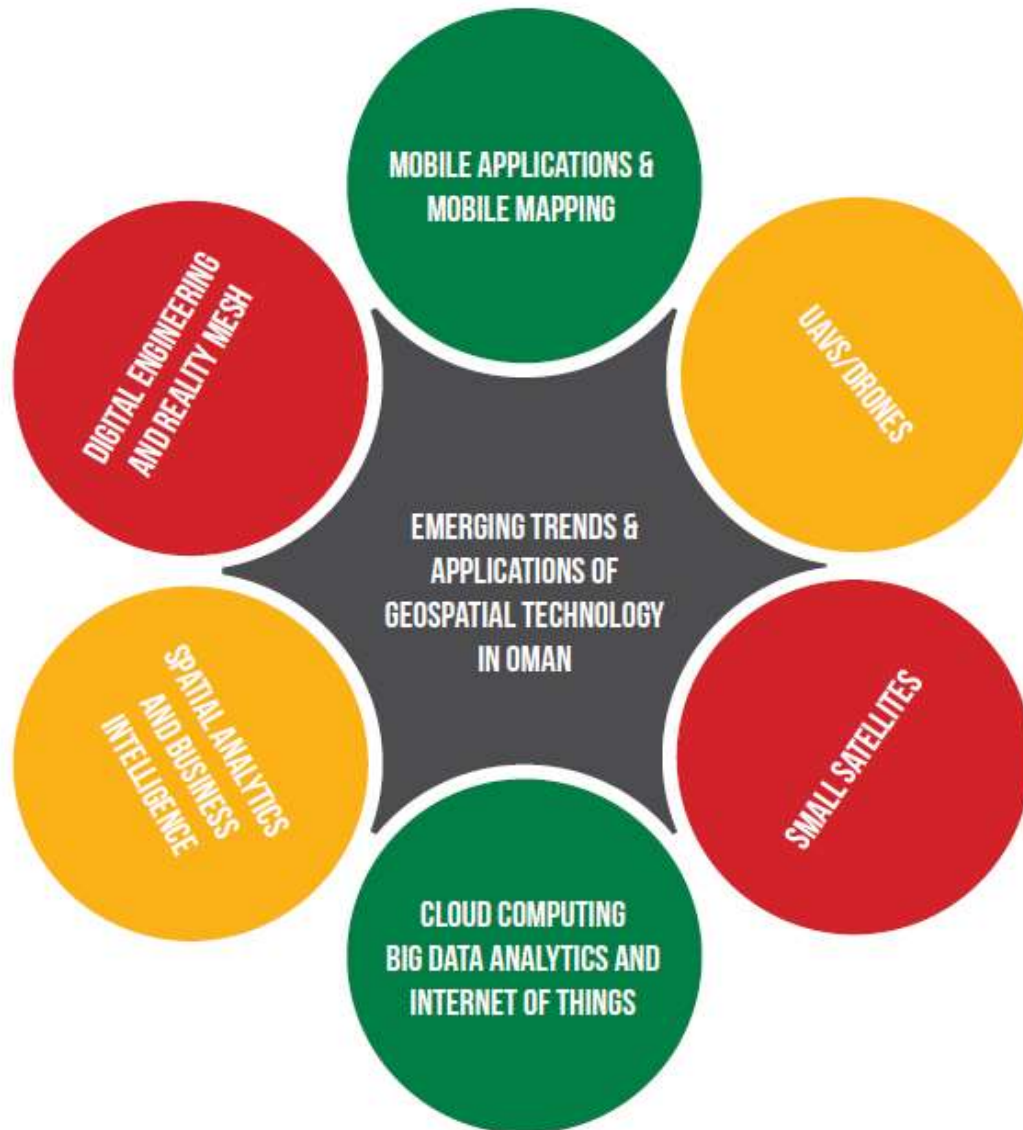
## + STRENGTHS

- ONSDI is gaining traction as the data source for spatial data
- NSA remains as the most important data source for most users
- Return on Investment is the major benefit derived from use of geospatial technology
- Geospatial technology is being integrated into everyday workflow management

## - WEAKNESS

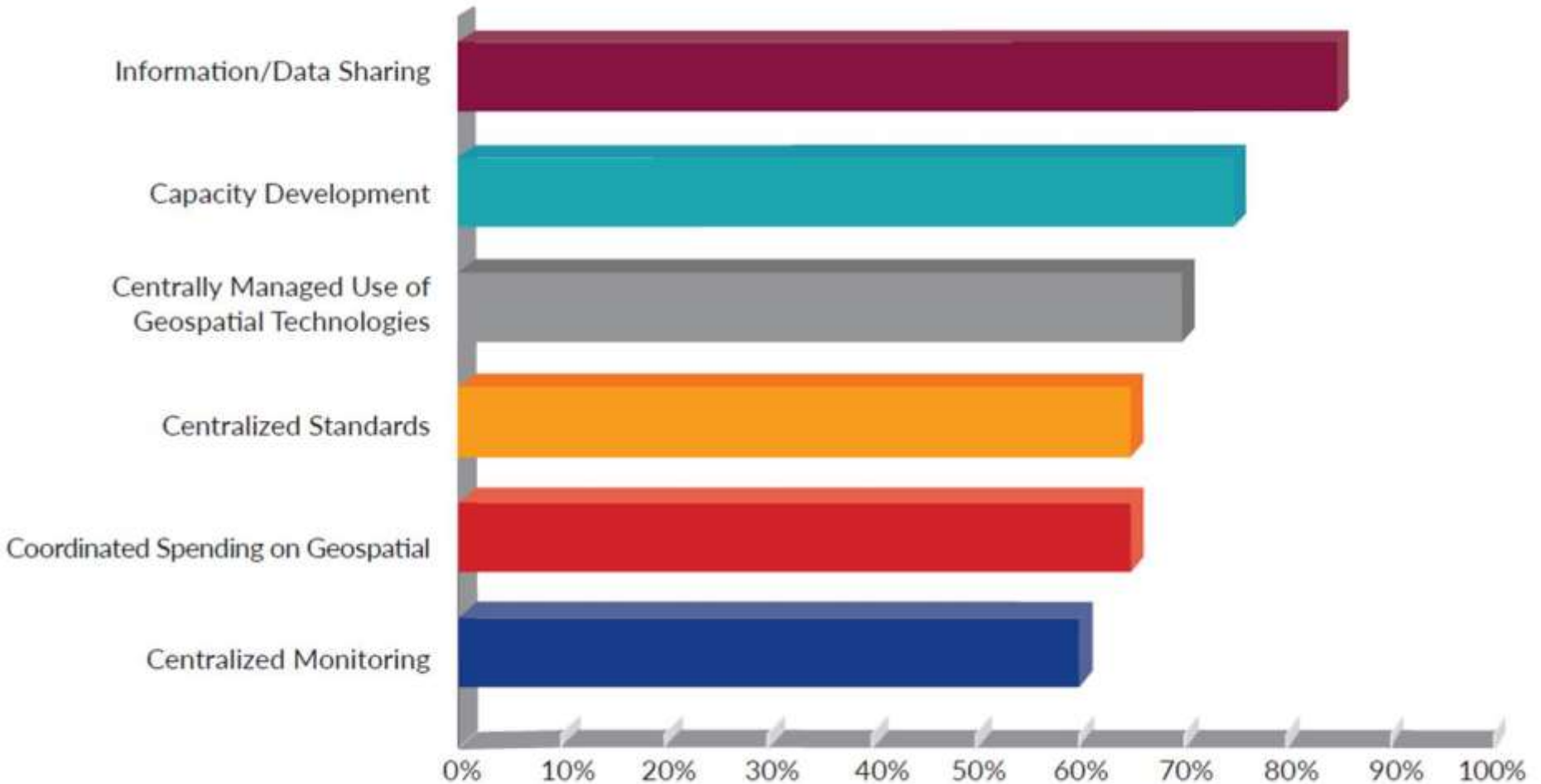
- Lack of unified data standards
- Lack of supportive policies
- Dependency on traditional methods
- Lack of complete and interoperable data

# **FUTURE TRENDS OF GEOSPATIAL TECHNOLOGY APPLICATIONS IN OMAN**



# RECOMMENDATION FOR THE FUTURE

# Desired Salient Features of a National Geospatial Policy



# THANK YOU