

Value of Geospatial Information in National Economy A Case Study of India



GDP growth expected to accelerate between **8.1 – 8.5** per cent in 2016-17

India ranks **130 out of 189** countries in the ease of doing business, moving up 12 places from last year in ease of doing business

India's **16-place jump** to the 55th rank in the World Economic Forum's Global Competitiveness ratings for 2015

Foreign exchange reserves were **US\$ 352.51 bn** as on December 18, 2015

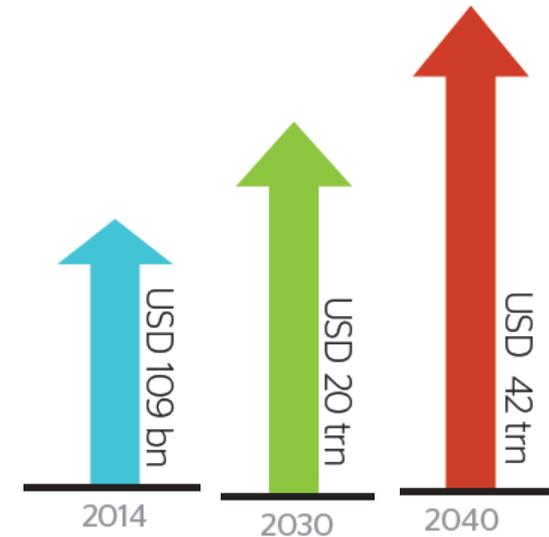
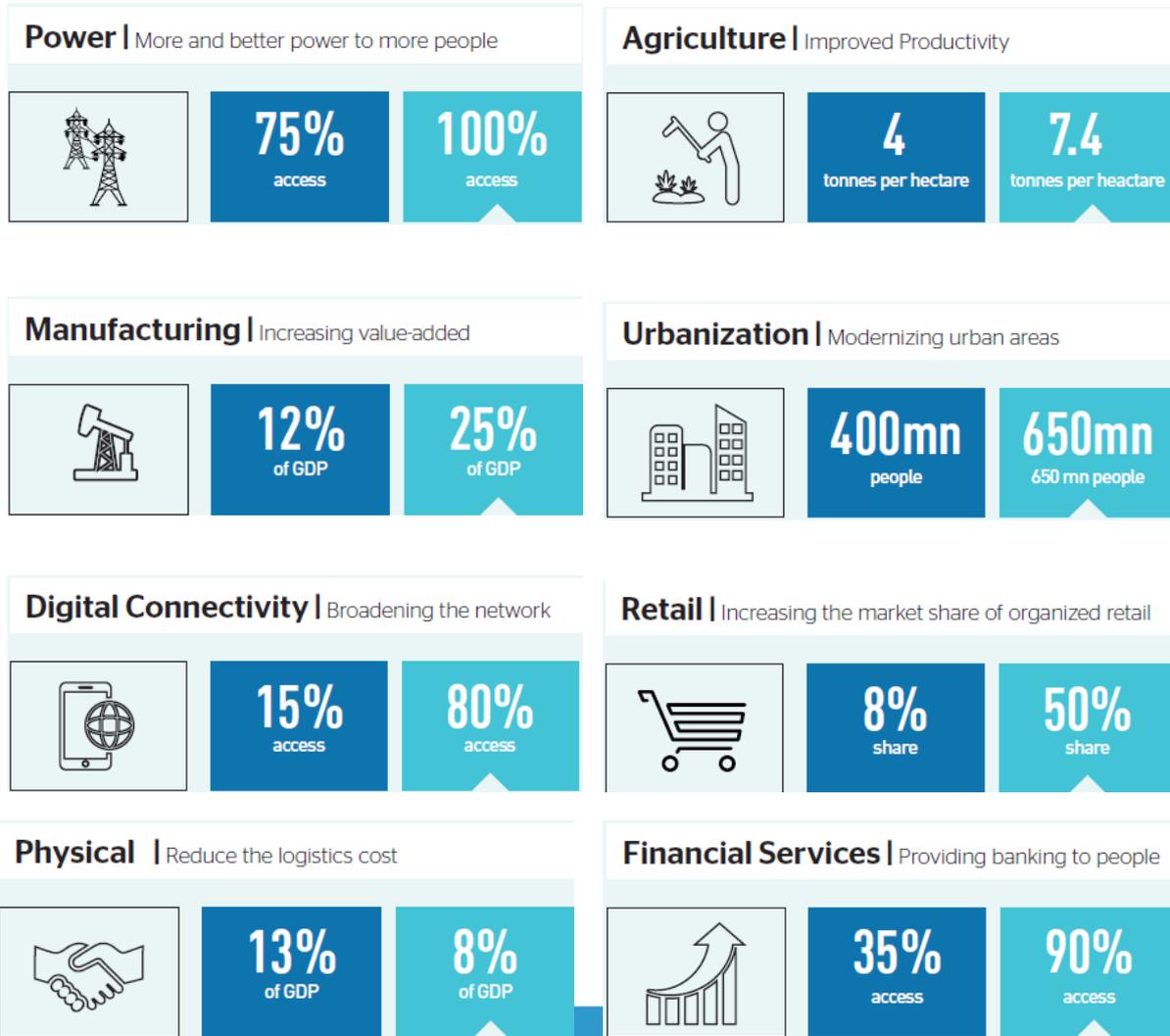
Over **6% points** decline in inflation since late 2013, Inflation likely to remain in the 5-5.5 % range

Agriculture and allied sectors contribute **17.9%** to GDP and has grown by 3.7% in 2014-15

Over **900 mn** cell phone users and close to 600 million unique users. This number is increasing at a rate of 2.82 million per month

Recovery of **industrial production** is led by the infrastructure sectors

Aim by 2040



CHALLENGES IN INDIA

GEO TECH CAN HELP

590 mn people to live in Indian cities by 2030



GST and integrated solution for smart sustainable cities

105 ltr water per head as against demand of 140 ltr



Low cost affordable water reso, management system

20 mt of grain loss due to bad warehouse facilities



Complete ecosystem of service can improve

24% loss in electricity in transmission & distribution



Geospatial key to reduction of this loss

Natural disaster account for total loss of \$ 13.8 billion

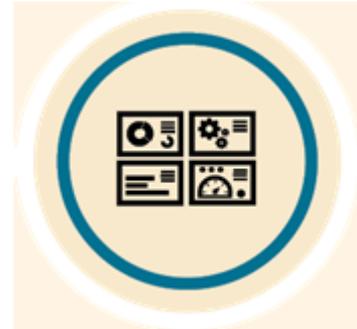


Spatial Planning for disaster mitigation and management

GEOSPATIAL DRIVING KEY PROJECTS



Smart Cities and AMRUT program, both requires a centralised information system based on GIS



The **National Mission for clean Ganga** deals with extensive spatial data and analysis for the Ganga basin



The **Digital India** vision areas has a specific focus on leveraging Geospatial Information Systems for decision support systems & development



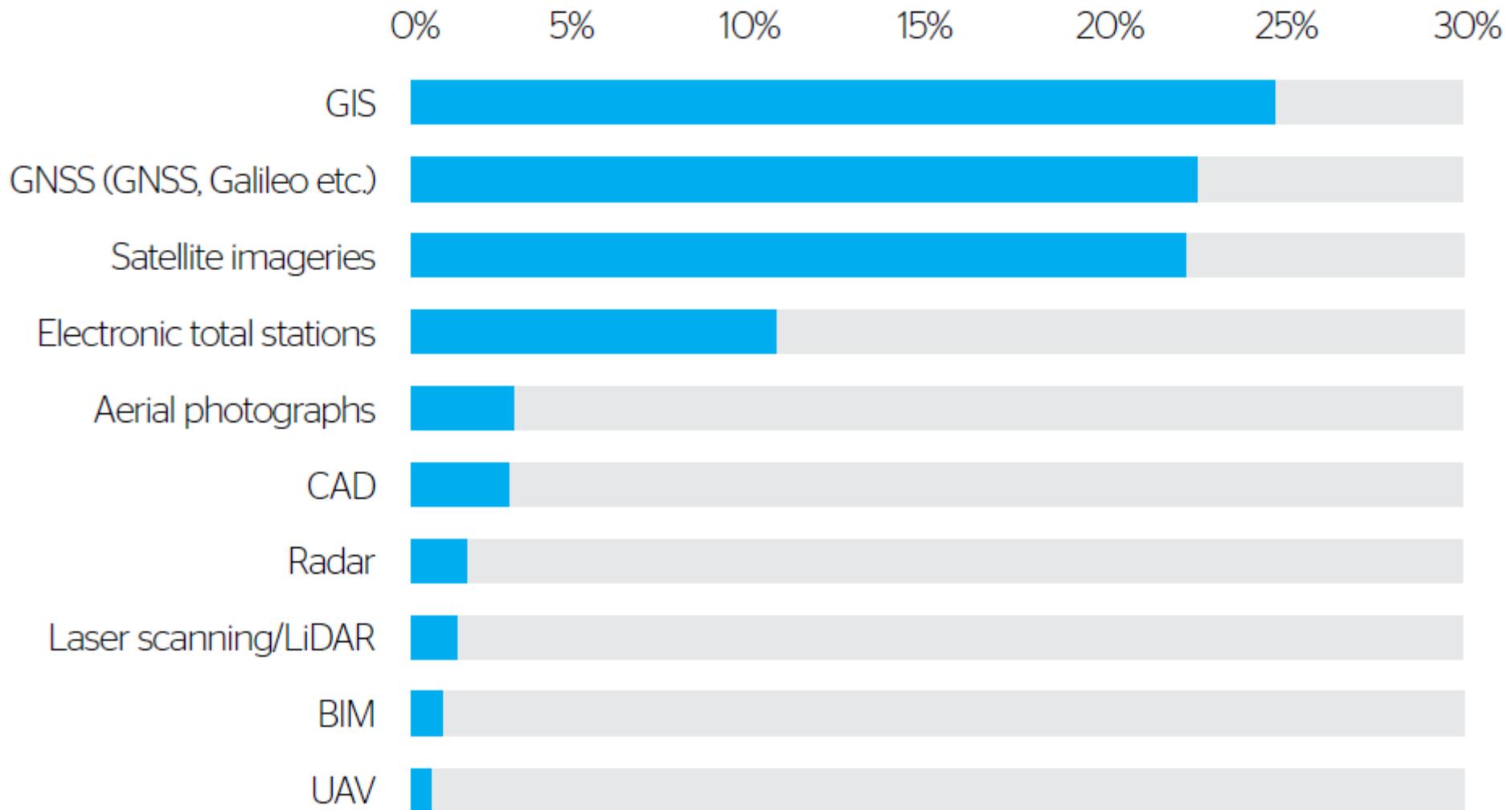
Geospatial Technologies provide a holistic approach to **interlinking of rivers** based on existing geoinformatics tools and techniques

GEOSPATIAL TECHNOLOGY IN INDIA

TRENDS AND OPPORTUNITES

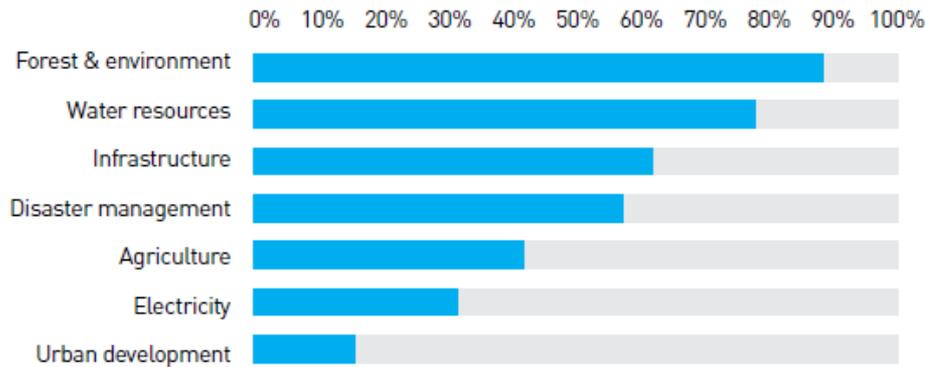


Technology –wise Adoption

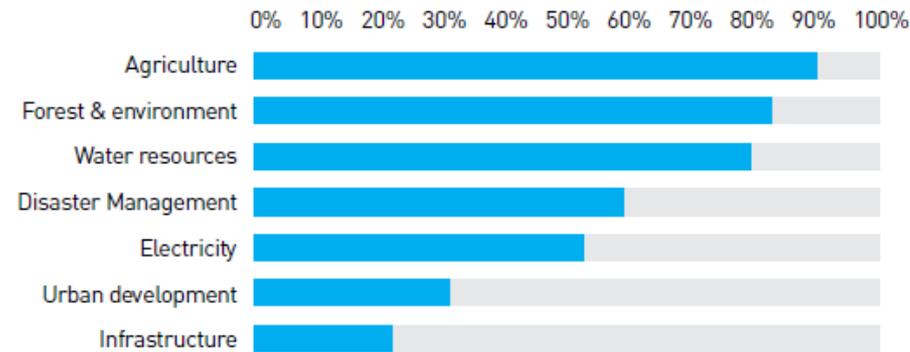


Industry-Wise Adoption

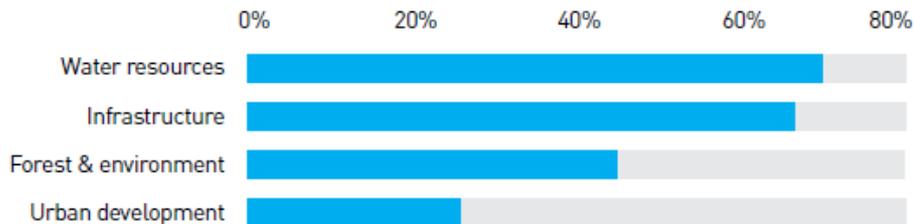
Industry-wise adoption of GNSS



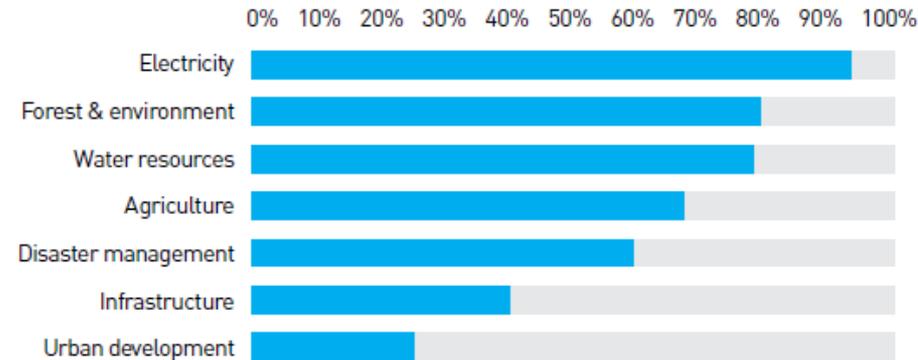
Industry-wise adoption of Satellite Remote Sensing



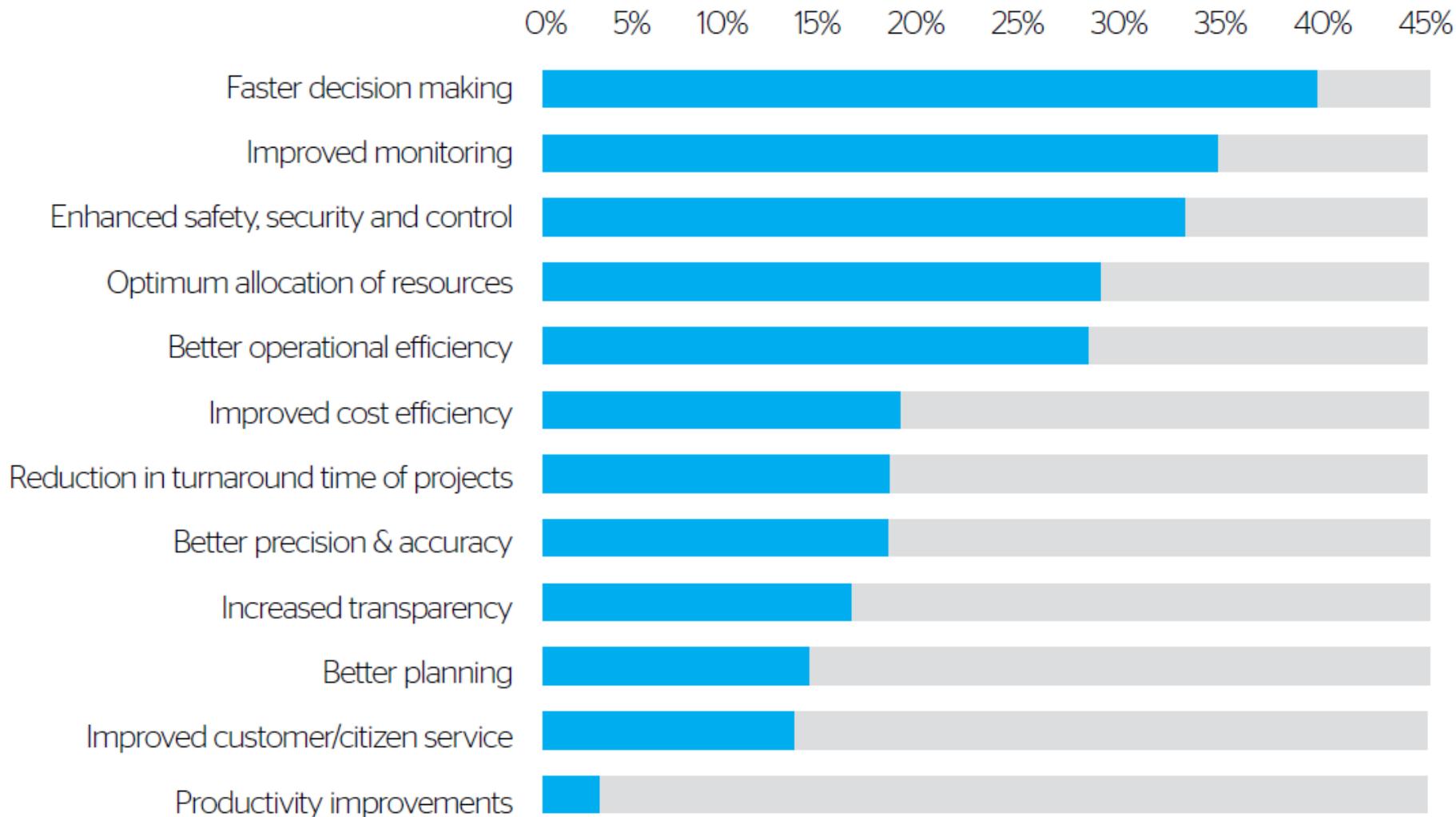
Industry-wise adoption of Electronic Total Stations



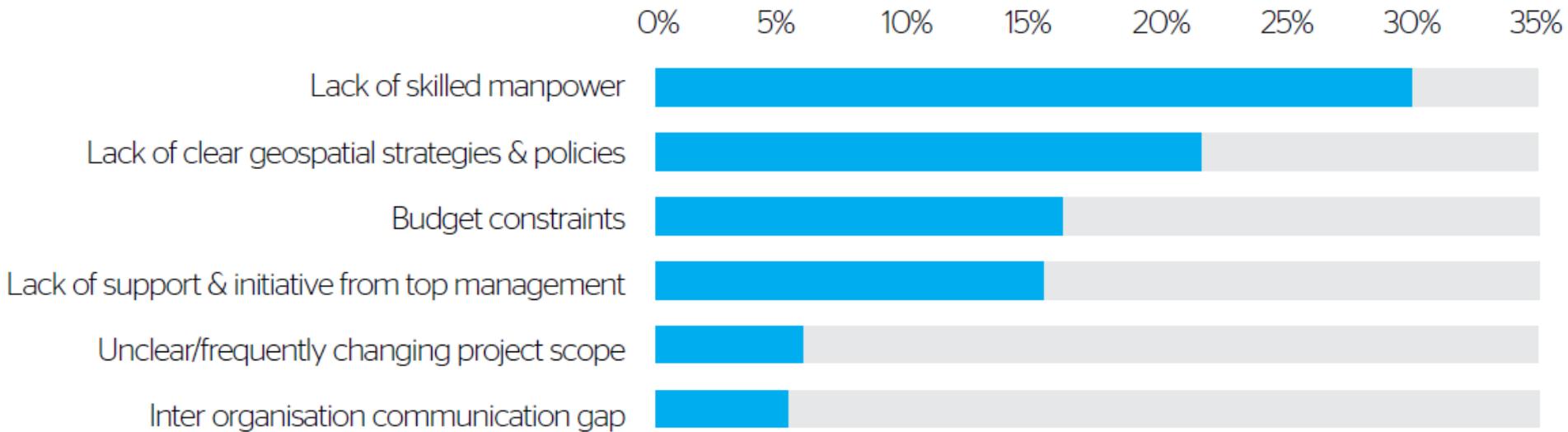
Industry-wise adoption of GIS



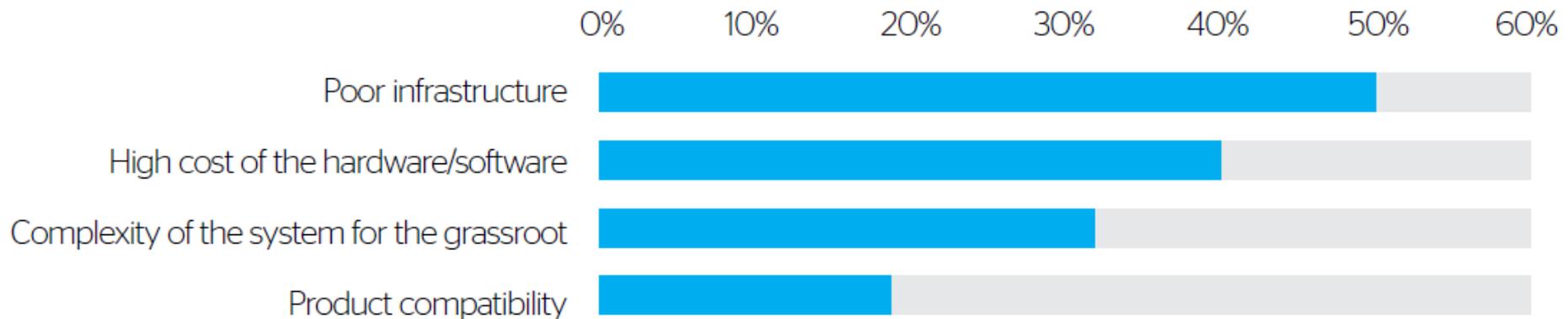
Benefits Derived



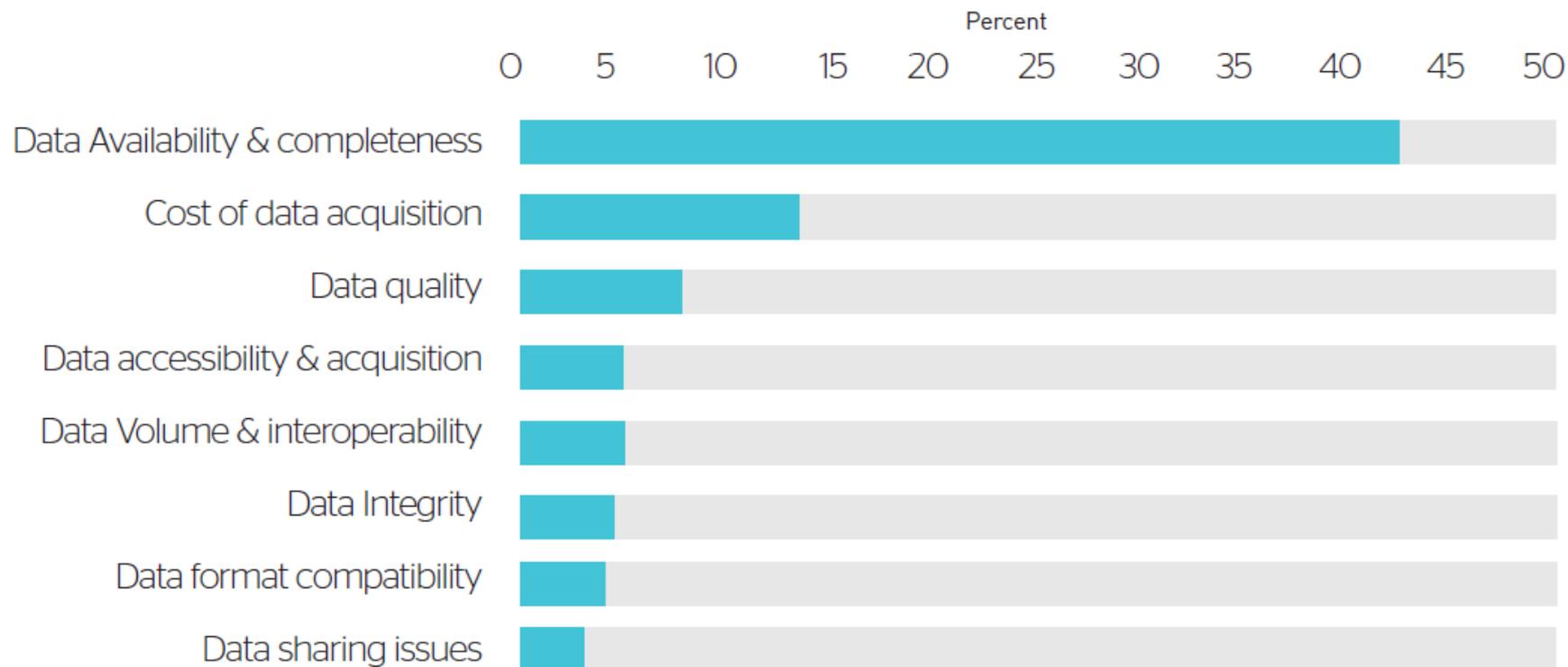
Challenges - Organizational



Challenges - Technological



Challenges – Data Related



VALUE PROPOSITION OF GEOSPATIAL TECHNOLOGIES



India



12 - 15%
growth at a
cumulative annual rate



\$4 bn
market



\$3 bn
The annual budget of
government agencies for
GIS services is estimated
to be



\$20 bn
Market - expected to be
by 2025

USD \$6 billion in savings

Thank You...