

growing international cooperation

**Geospatial Information, Standards, Policies and Solutions:
Simplifying and Amplifying Value Impact in World Economy and Society**

sanjay kumar

**geospatial media: world geospatial industry council:
radiant earth foundation: open geospatial consortium**



why we need to cooperate?



वसुधैव कुटुम्बकम्

WORLD IS ONE FAMILY

Vasudhaiva Kutumbakam is a Sanskrit phrase which appears in the ancient Vedic scripture of Maha Upanishad.

The phrase *consists* of the words:
"vasudhā" - meaning the earth;
"ēva" - meaning indeed; and
"kutumbakam" - meaning family.

The verse is engraved in the entrance hall of Parliament of India.







GEOGRAPHIC
INFORMATION
TOWN

地理信息小镇



why we need it more today?

The World Economy Runs on GPS

Bloomberg
BusinessWeek



**Geospatial Analytics will
Eat the World and You
Won't Even Know It**

– Forbes

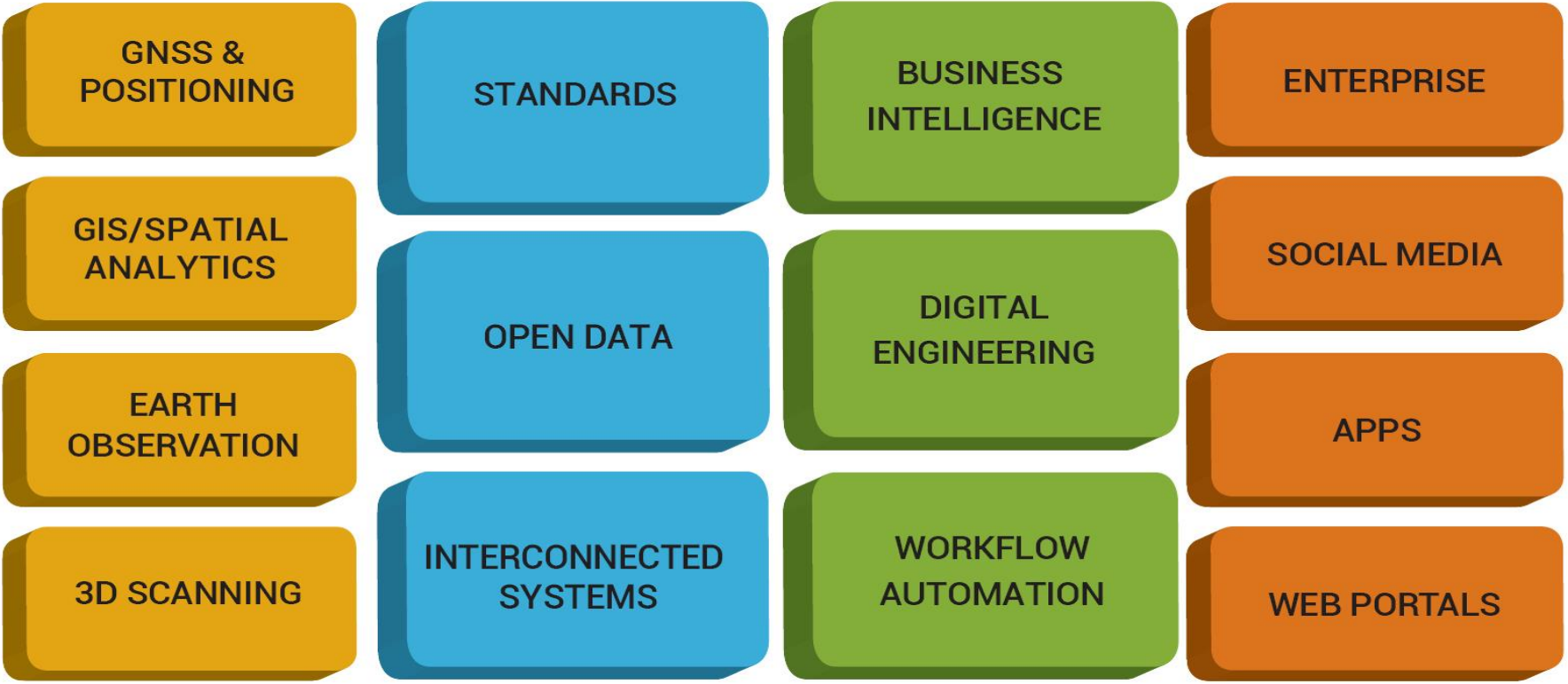
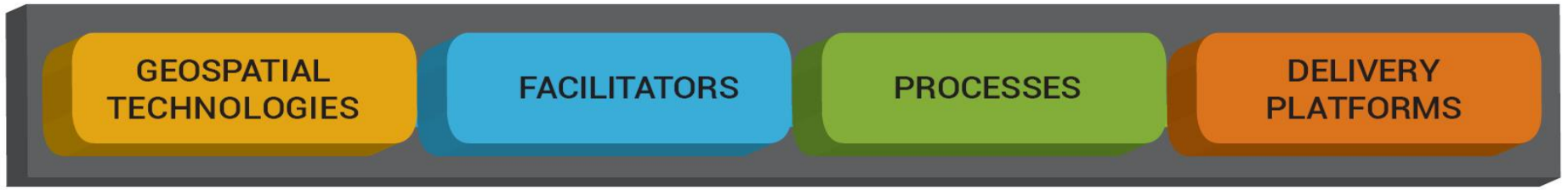
data is the new oil

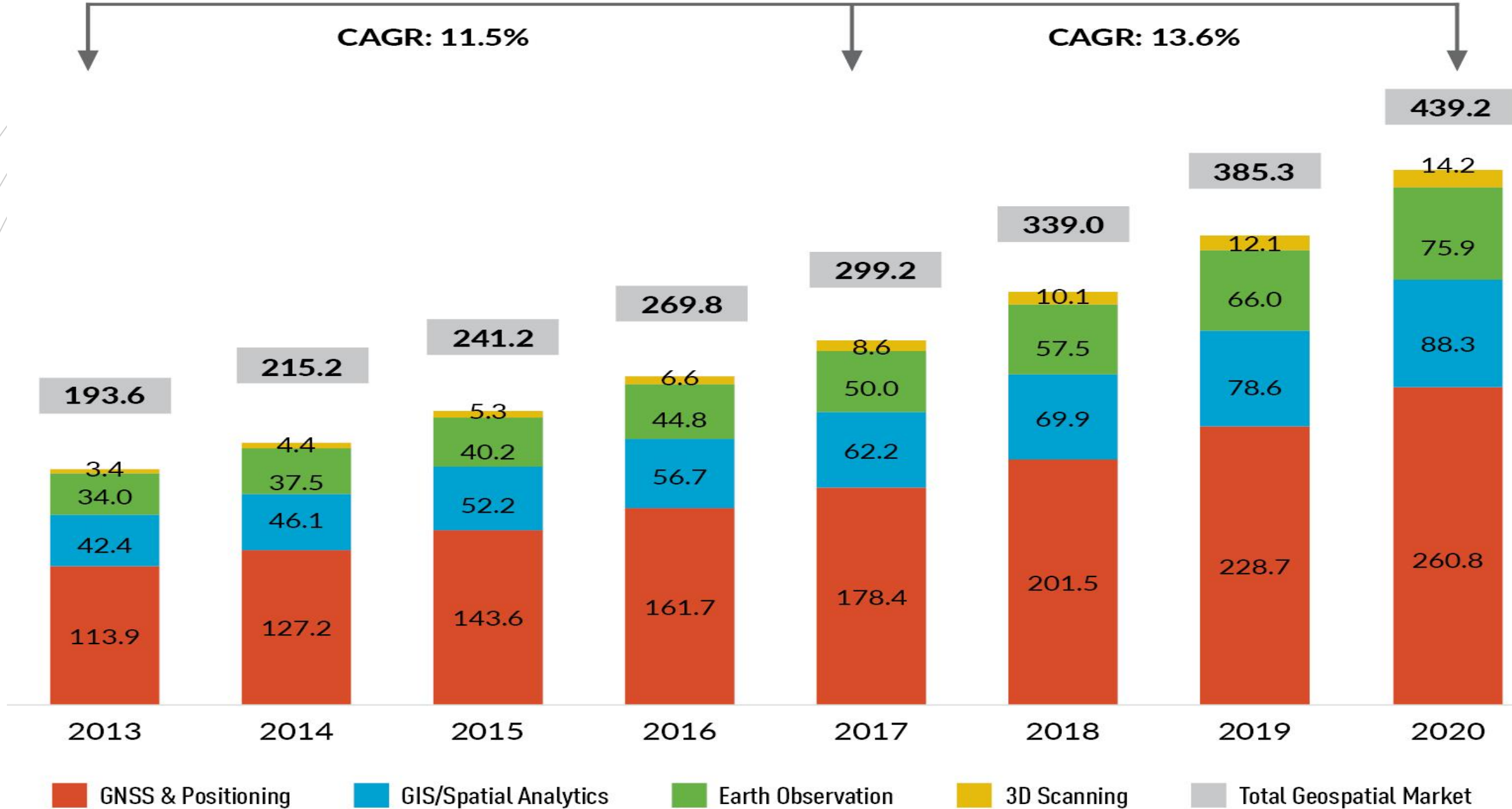


have you built refineries for it?

The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A large red speech bubble is centered on the page, containing the text.

global geospatial industry overview and trends





Source: Adapted from Market Research Reports available in public domain (list available in the reference section) and Geospatial Media Analysis

Precision

Meter

- Healthcare
- Emergency Response
- Oil & Gas
- Transportation
- Navigation
- Disaster Management
- Marine
- Urban Infrastructure
- Utilities
- Assest Management
- Defense and Internal Security
- Retail and Logistics

Meter

> 10 Meters

- Navigation
- Environment
- Tourism
- Telematics
- Forestry
- Water Resources
- Land Use
- Climate Change Social
- Infrastructure Sanitation
- Business Analytics
- BFSI

> 10 Meters

Millimeter

- Industrial Workflow
- Building Engineering
- Engineering
- Manufacturing
- Metrology
- Seismology

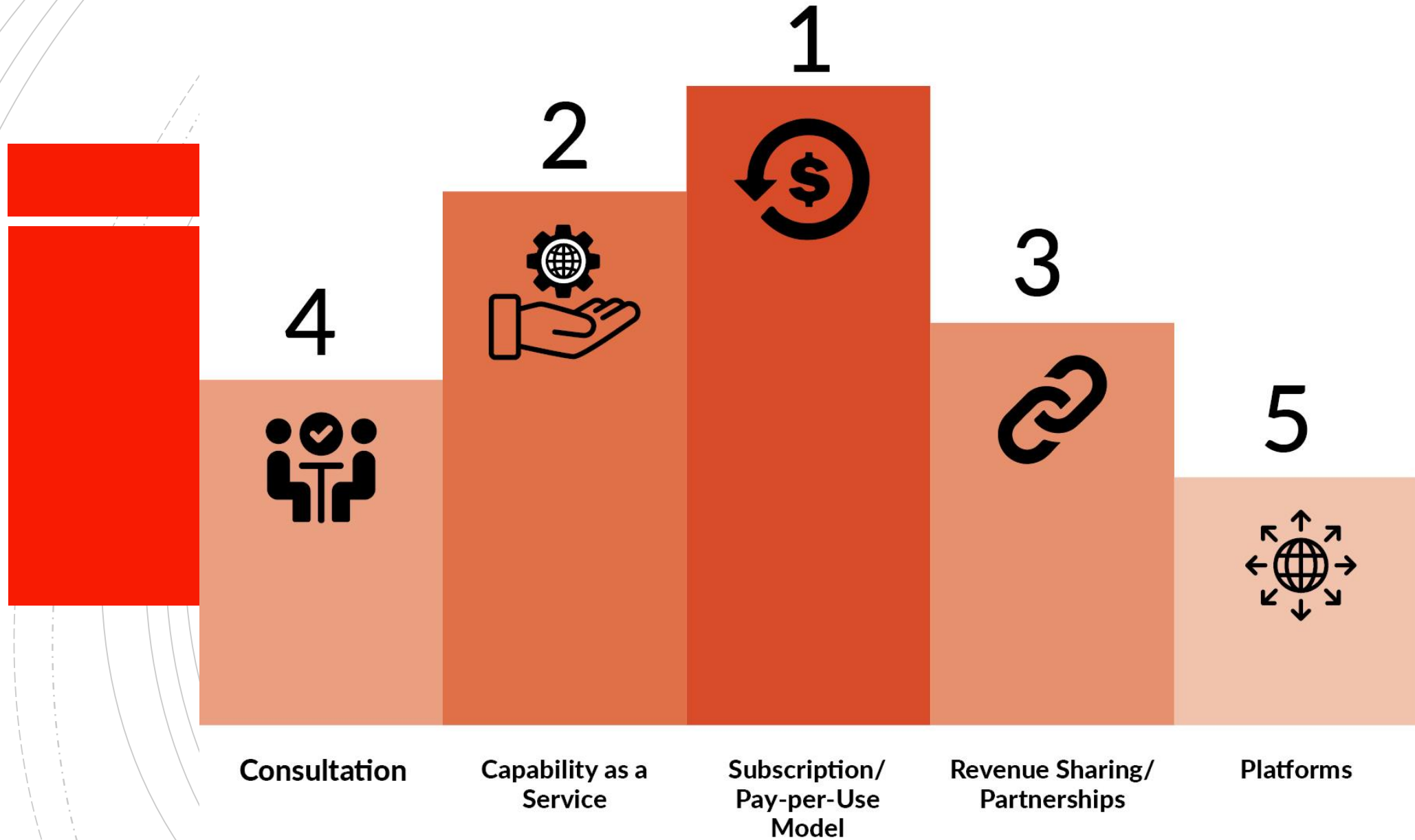
Millimeter

Centimeter

- Architecture
- Mining
- Autonomous Vehicles
- Indoor Positioning
- Building Information
- Archaeology
- Heritage
- Land Administration
- Machine Control
- Precision Agriculture

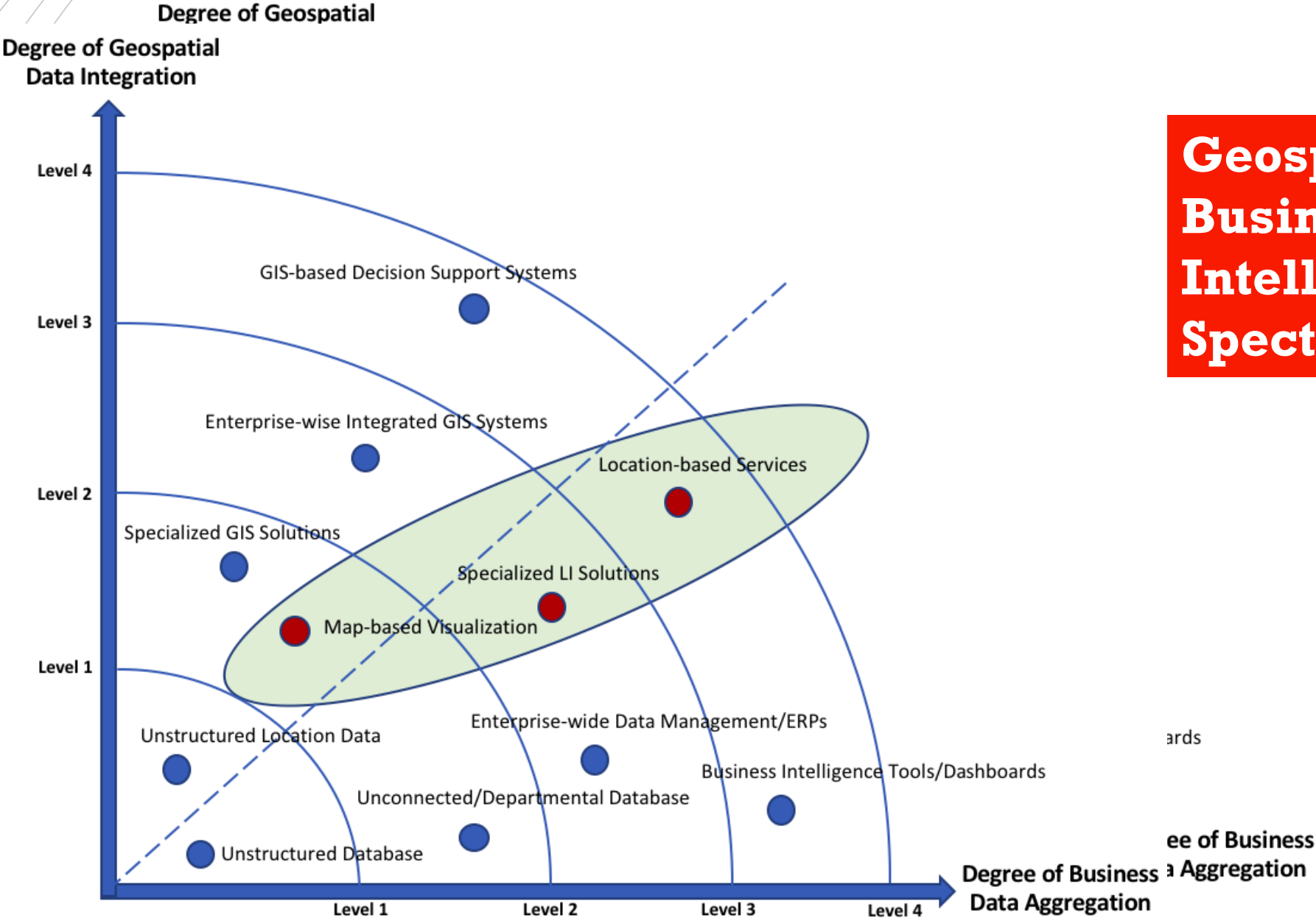
Centimeter

Position



Source: Geospatial Media Analysis

Geospatial and Business Intelligence Spectrum



ards

ee of Business
a Aggregation

Infrastructure of today is NOT infrastructure of tomorrow

75% of the Infrastructure that will exist in 2050,
does not exist today!!

Global Population by 2050

9.2 Billion

Urban Population by 2050

6.5 Billion



US\$40 Trillion

Investments required by 2050 for basic
infrastructure construction to meet the
DEMAND

Technology for Resilient Infrastructure

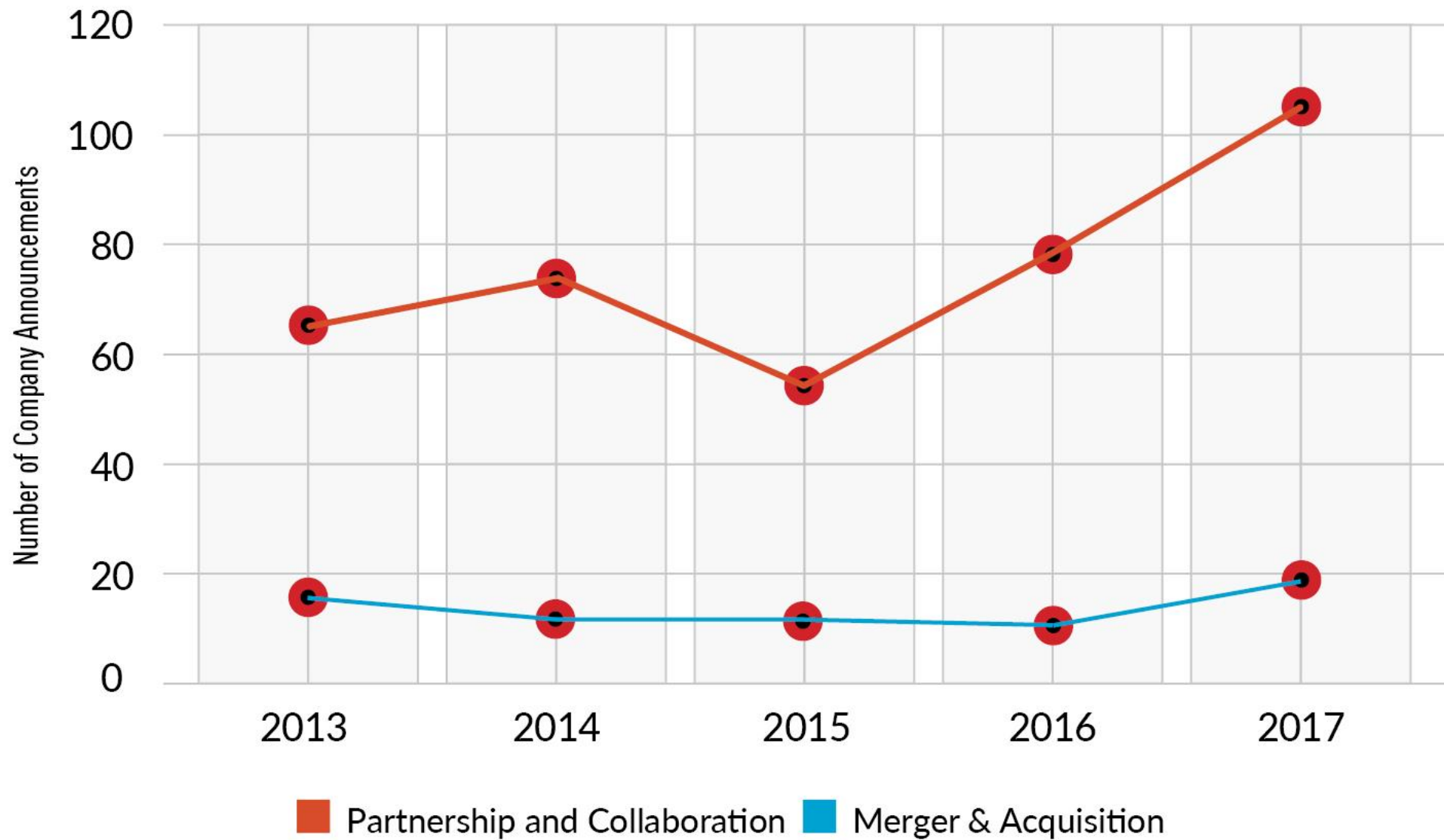
For planning, designing, building and managing resilient and sustainable infrastructure

For enhancing productivity gains and developing cost-efficient and cost-effective workflows processes

Enhancing construction lifecycle through spatial modelling and risk modelling

Optimize workflows that allow users to reliably access, update and use BIM data in spatial context

**Intelligent and
Connected BIM
Workflows &
Geospatial Data
Solutions and
Infrastructure**



Source: Geospatial Media Analysis

CONSUMER BENEFITS



Consumers value digital maps at up to
US\$105 PER USER
resulting in total benefits of
US\$347 BILLION PER YEAR.



Digital maps reduce travel time by
12% ON AVERAGE.
The value of time saved is
US\$264 BILLION
based on local wage rates.



Consumers save more than
21 BILLION HOURS
per year The value of time saved is
US\$283 BILLION.

BUSINESS BENEFITS



Geospatial services industry
generated revenue of approximately
US\$400 BILLION IN 2016.



Geospatial services productivity
impact in sectors representing
75% OF GLOBAL GDP.



Digital maps have supported over
US\$1 TRILLION
of yearly sales for businesses.

SOCIETAL BENEFITS



CO2 emissions from vehicles
could be reduced by
1,686 MILLION MT
efficient trips, reduced congestions.



Potential employment directly
linked to digital maps of over
4 MILLION JOBS GLOBALLY.



Emergency response times
DECREASED BY 20%
resulting in more lives saved.

A red speech bubble with a white outline and a downward-pointing tail. The text "geospatial information" is written in white, lowercase, sans-serif font inside the bubble. The background features faint, light gray concentric circles and dashed lines, suggesting a map or a globe.

geospatial information



Radiant Earth
Foundation

EARTH IMAGERY FOR IMPACT

Connecting people globally to Earth Imagery,
geospatial data, tools and knowledge to meet the
world's most critical challenges

Global Partnerships



- ★ Headquarters
- Government
- NGOs
- Commercial

A red speech bubble with a white outline and a small tail pointing downwards. The bubble is centered on a white background with faint, light gray concentric circles and dashed lines. The text 'geospatial standards' is written in a white, lowercase, sans-serif font inside the bubble.

geospatial standards

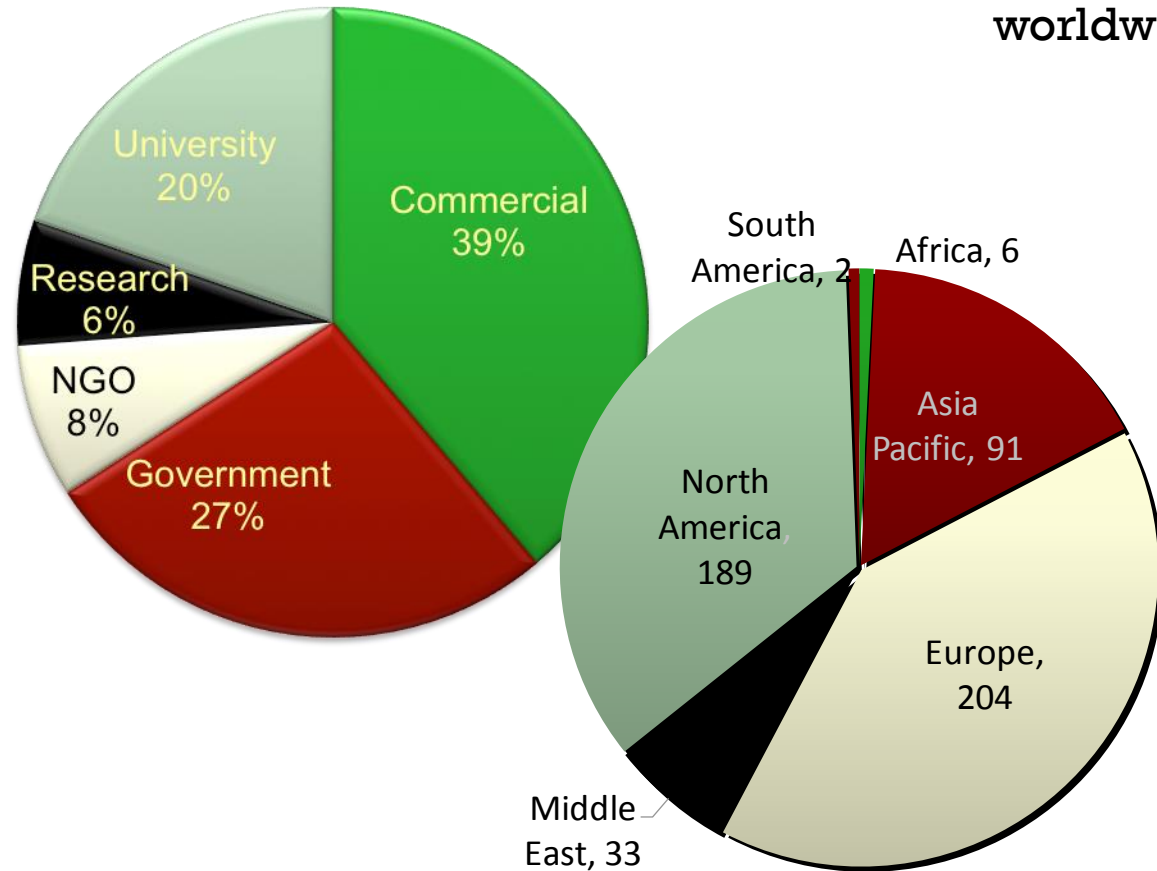
The Open Geospatial Consortium

Mission:

To serve as the global forum for the collaboration of geospatial data / solution providers and users.

To advance the development and use of international standards that support the seamless use of geospatial information and technologies.

Over 520 member organizations worldwide



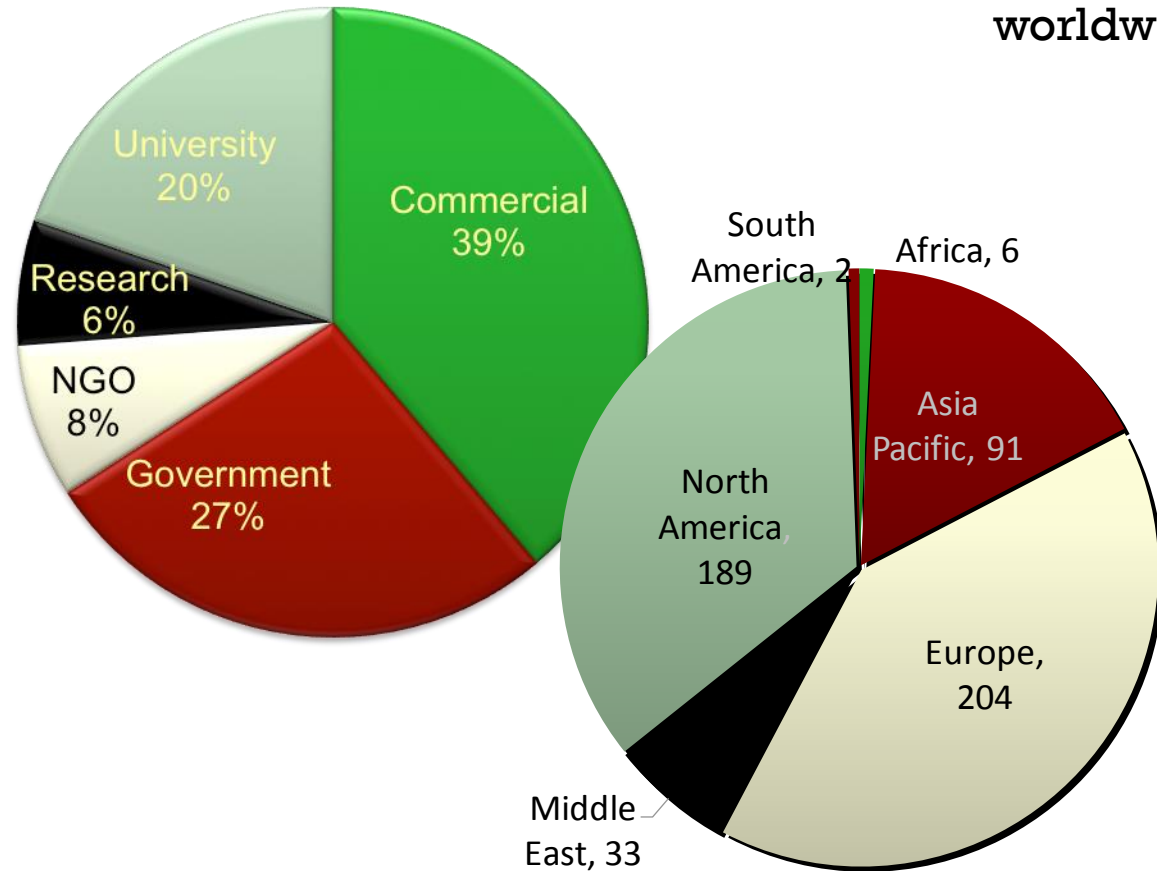
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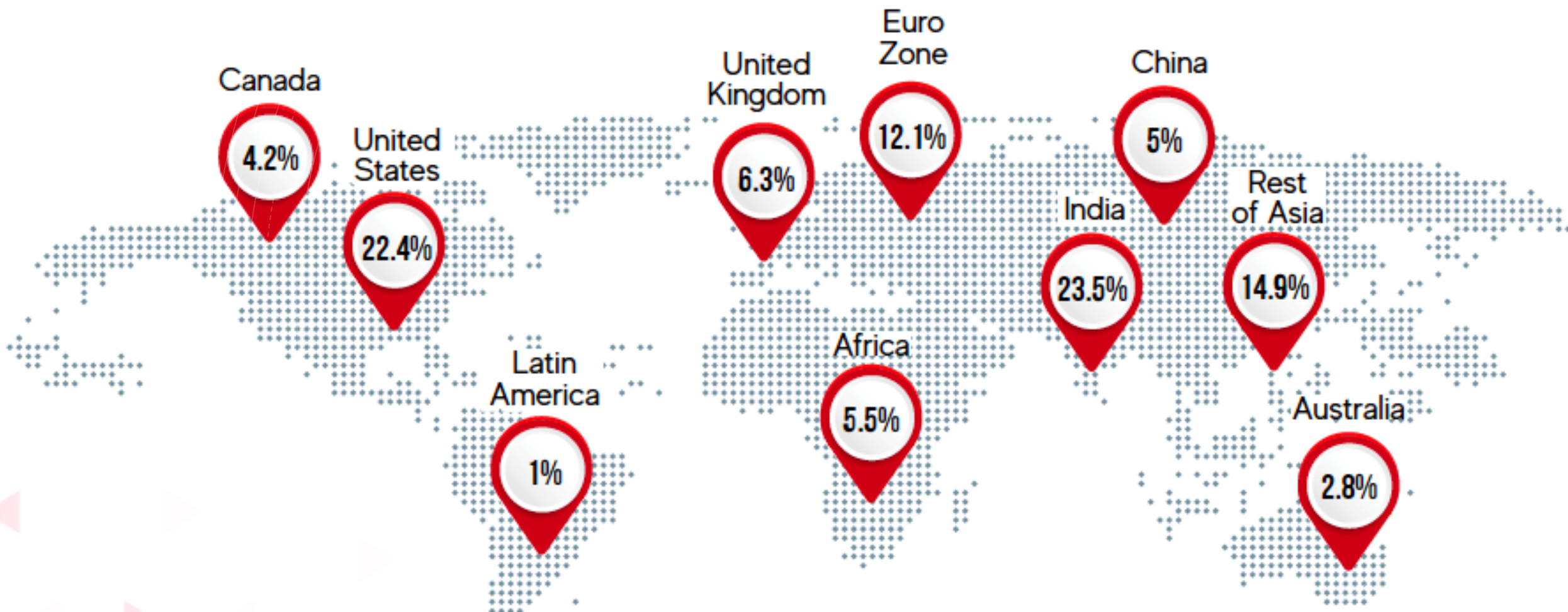


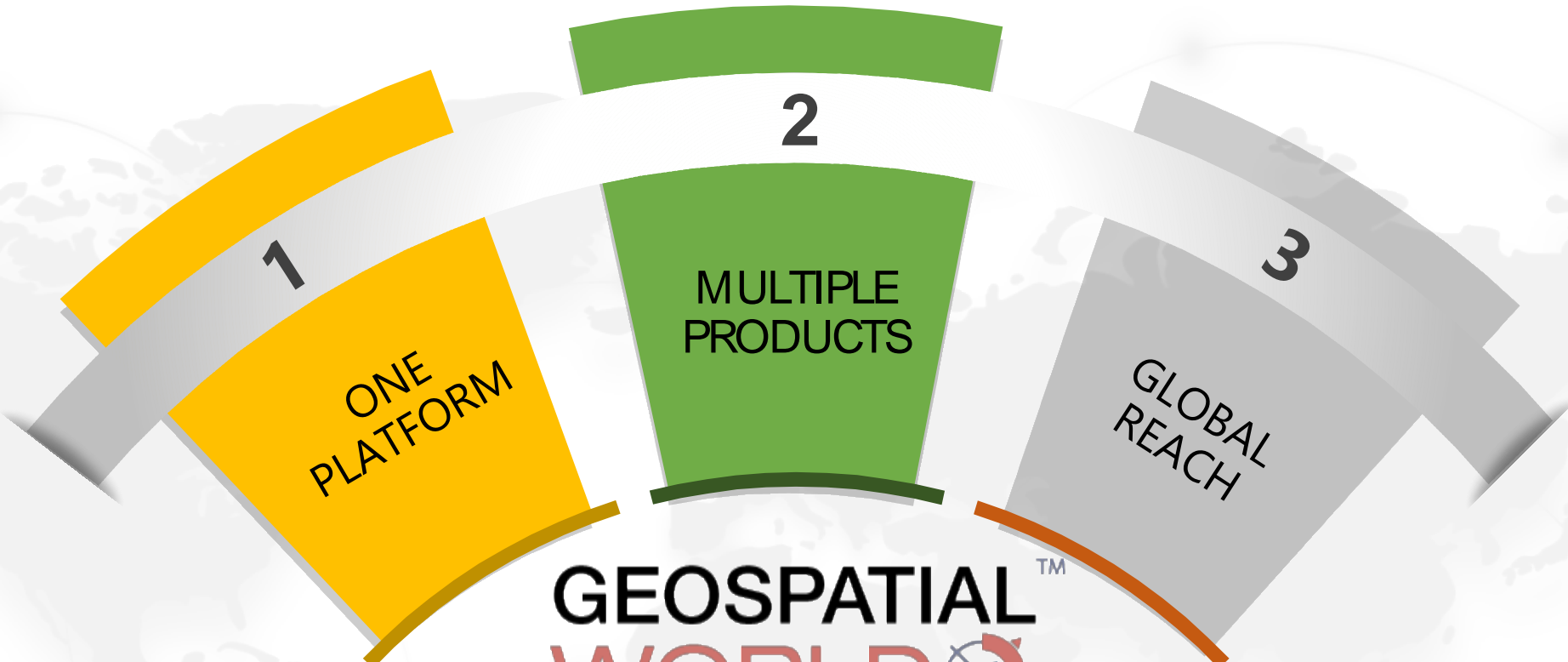
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geospatial media and
communications

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The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A prominent red callout box is centered on the page, containing the text 'geospatial world industry council'.

geospatial world industry
council

**To be a collaborative platform to
advance role of geospatial
industry and strengthen its
contribution in world economy
and society.**



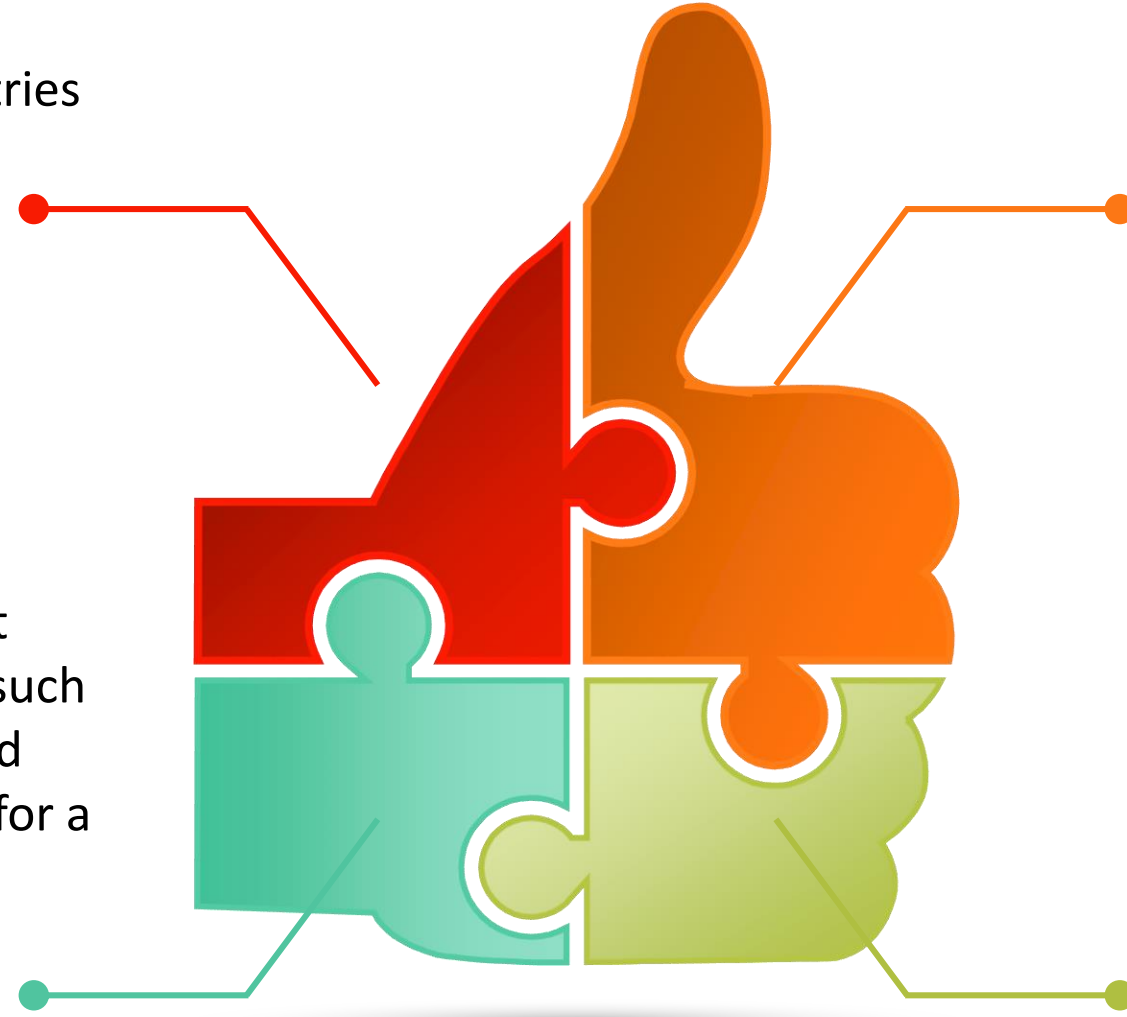
World Geospatial Industry Council

GLOBAL MEMBERS



WGIC IN A NUTSHELL

Represent and contribute in policy making – across industries to optimize uptake



Extend engagement with user industries and communities to create a positive environment

Strengthen and complement global geospatial initiatives such as UNGGIM, GEOSS, etc., and national/regional programs for a better world

Build working platforms for incubation and innovation through Public Private Partnerships



what makes it happen!!!







‘being open’ comes with discipline of evaluating ideas and innovating feasibilities of incorporating, and in many cases adapting, those ideas in workable mode.



United Nations World Geospatial Information Congress

联合国世界地理信息大会





thank you