Geospatial Big Data

Getting Big Value from Big Data

Geo-Informatics and Space Technology Development Agency (Public Organization)

www.gistda.or.th

80% +

of Big Data

is **Geospatial Big Data** due to the vast networks of GNSS, satellites, cell towers, IoT, etc.

Geospatial Big Data & Analytics

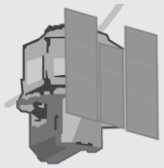
Geospatial big data refers to spatial data sets exceeding capacity of current computing systems. A significant portion of big data is actually geospatial data, and the size of such data is growing rapidly at least by 20% every year.

Satellite Constellation

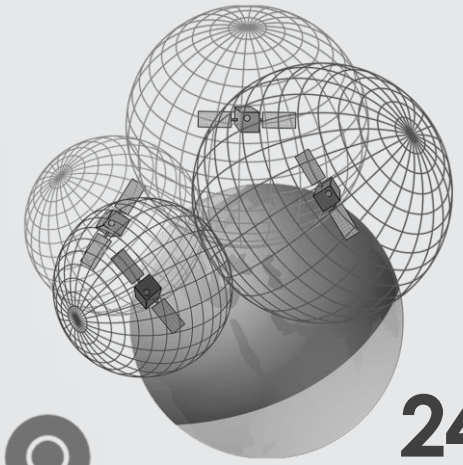
20+ Active Satellites

1.6 Satellite Image Tera Byte per day

Thaichote



GNSS



GPS

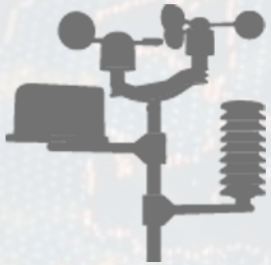
245+ IGS Cors Reference Stations

Real-time Sensor

Automatic Identification System/ VMS

EVERY MINUTE

1,000+ Weather, Hydrological & Air Quality Stations



Crowdsourcing

Citizens as a Sensors

Everywhere & Every time

Social networks

VGI

Volunteered Geographic Information

Other more …

- UAVs / Drones
- Mobile Mapping System (MMS)
- CCTV
- Car Tracking / Logistic
- Cellular Tower
- Coastal Radar Station

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"Value-Centric"
Start from the value

Business Process

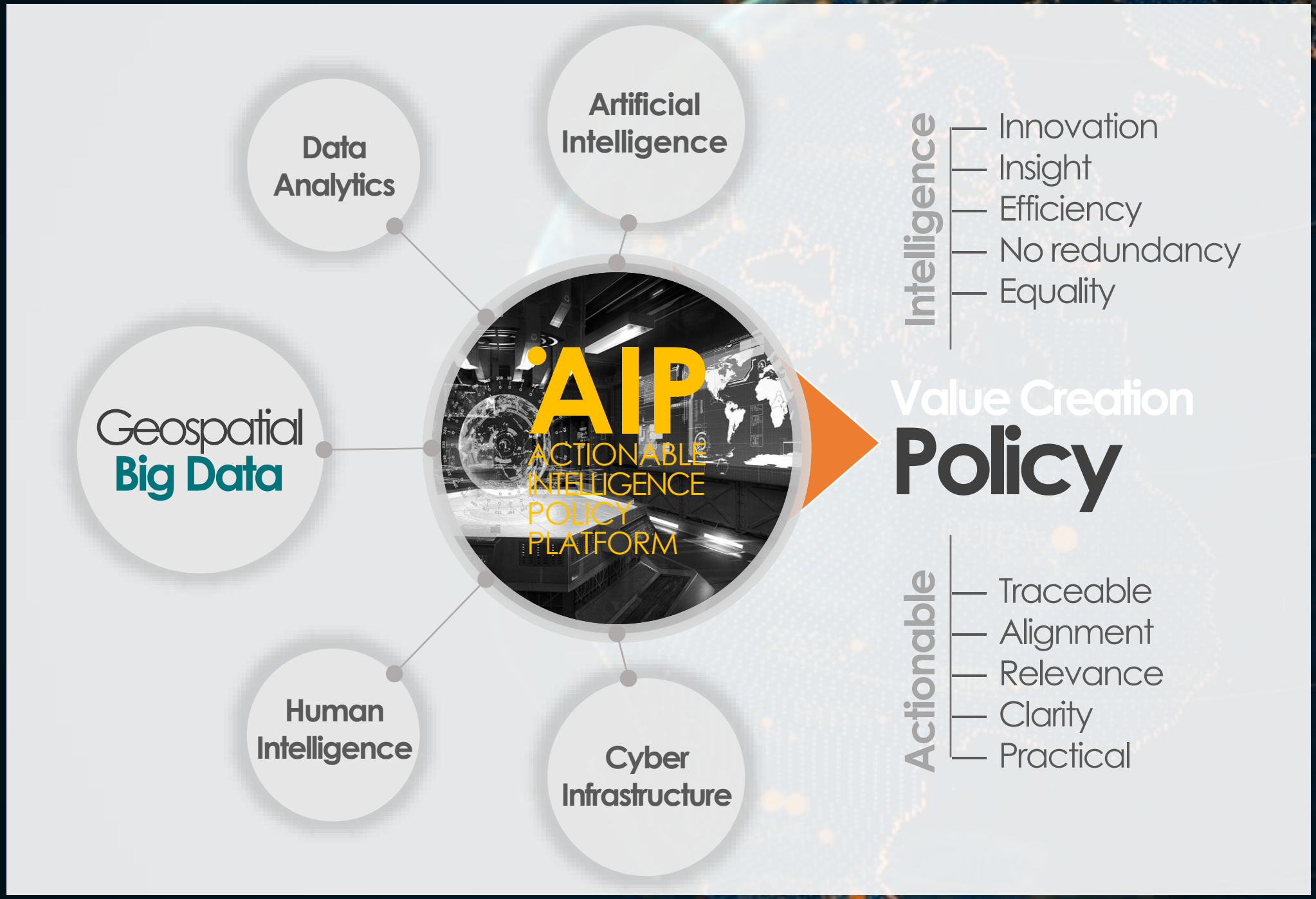
Analytics

Engineering Process

"Data-Centric"
Start from the data

Geospatial **Big Data**

Geospatial **Big Values**

Actionable Intelligence Policy

Enable platform to efficiently generate high value (i.e. policy) for the right people in the right place at the right time through the intelligence analytics across the multiple dimensions of data and technology