



Public-private partnerships: National Mapping and Geospatial Agencies

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"A politician is not interested in doing things that have no societal impact"
(Governor of Vihiga County, Kenya)



Economic growth



National infrastructures



**Protection of
assets/resources**



Education



Gender Equality



SDGs



Tenure Security

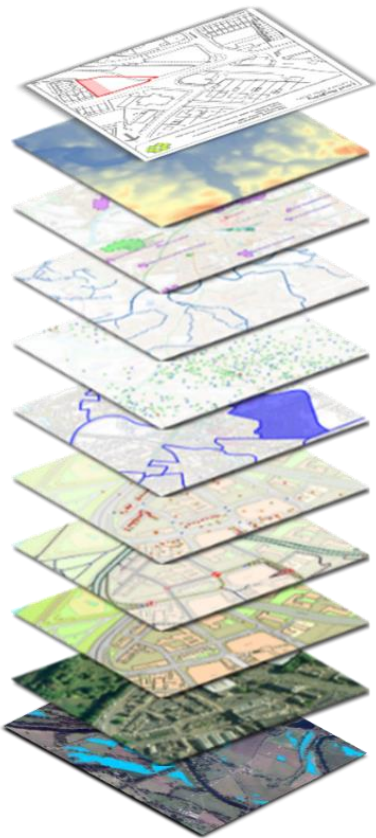


Health



Safety

What is fundamental geospatial data?



Geographical Names

Addresses

Functional Area

Settlements

Land Parcels

Transport Networks

Elevation/Depth

Population Distribution

Land Cover/Use

Geology/Soils

Physical Infrastructure

Imagery

Water

Available

Accessible

Useable

Fit for Purpose (content,
currency & accuracy)

Trusted

Create once, use many

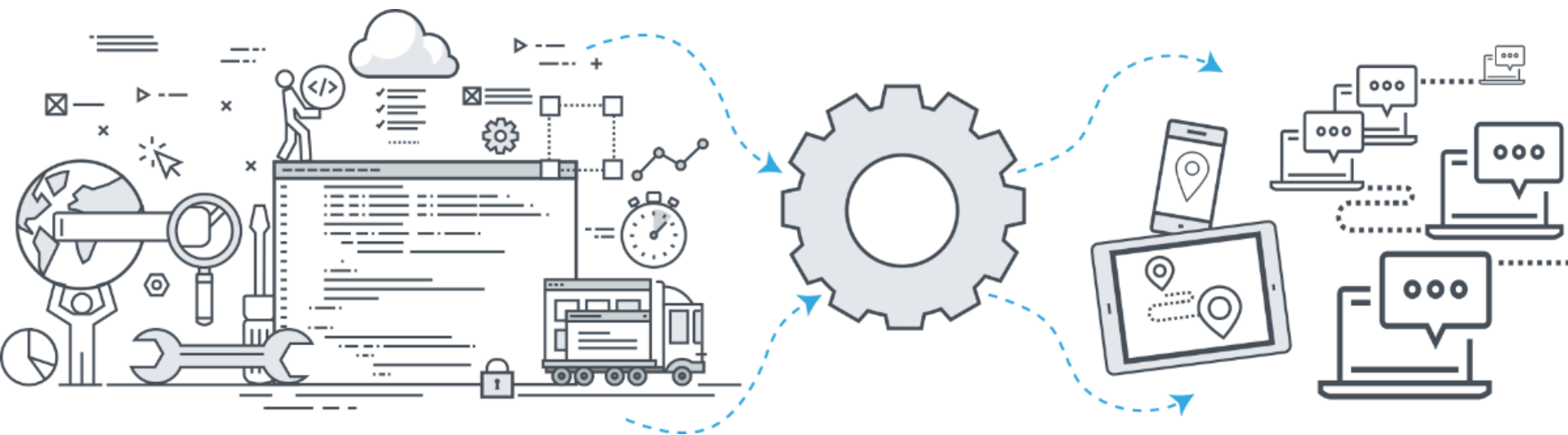
It's a scary world for NMGAs

- Making large amounts of raw data actionable
- Pace of change in geospatial technologies
- IoT, automation, 4th Industrial Revolution
- Requirement: Currency, accuracy, detail
- Competition: Crowd, Google etc, other government agencies
- Public task v open data v commercial business
- Access to political and fiscal investment
- Capacity to change

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The NMGA factory



Capture Data

Multi source
Multi format

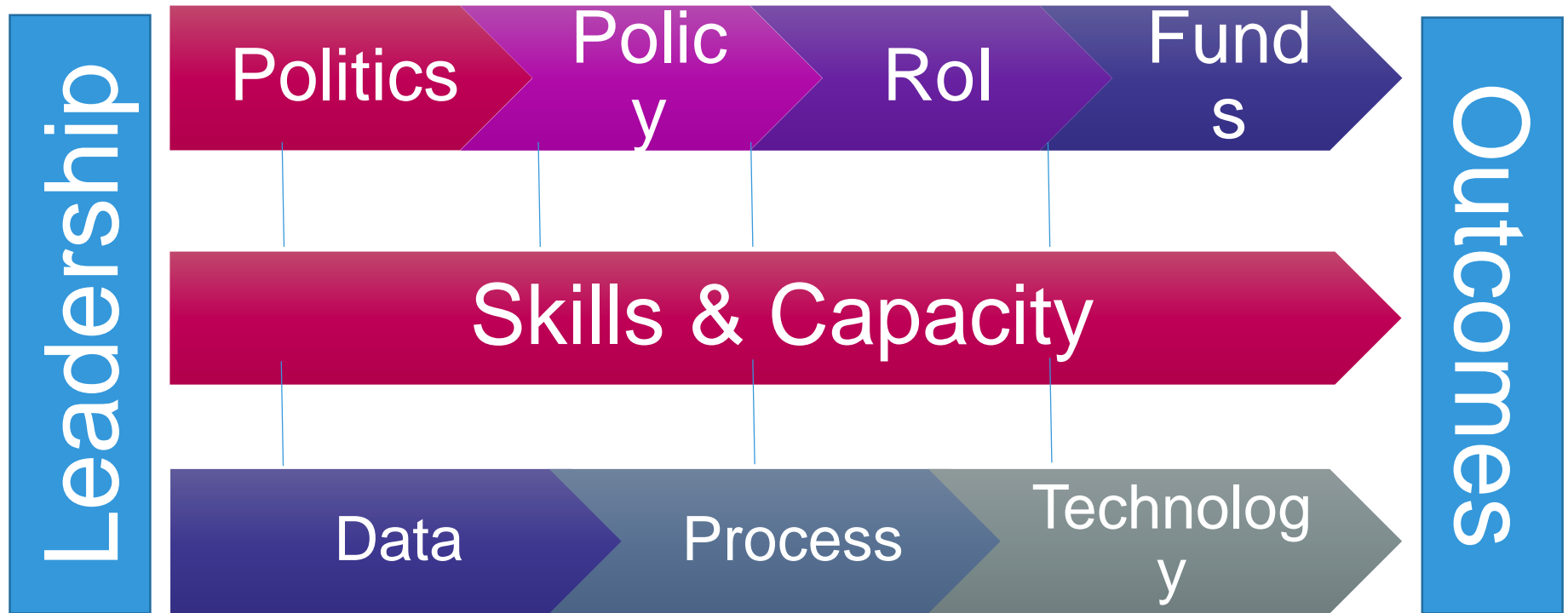
Agile
Architecture
Interoperable
Maintained

Optimised outputs
In whatever shape or
form you need



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Capacity to change - a wider view of the necessary platform for progress ?



Transformation.....takes time

- Tech and processes for comprehensive GI data creation, management and services
- Creating Fundamental data
- Building capacity
- Establishing models and policies that accelerate the benefits of GI

Project funding: Tech, processes, training, initial data, policies, standards. business and government enablement

Benefits

NMGA Capability Growth

Ongoing partnership

PPP - Building, serving and exploiting data

Where will capital, slow capacity change or staff retention impact transformation?

Private sector provide managed services – long term not project focus

Acquire Data



Data Acquisition Methods
[Third Party; common collection and dissemination standards]

Collect & Maintain



Cloud based architecture to collect & maintain Geospatial & other suitable data.
A repeatable design pattern

Refine & Derive



Cloud based architecture to refine & derive from Geospatial & other suitable data.
A repeatable design pattern

Exploit

	Commercially Centric [Analytics]
	Human Centric [Cartography]
	Machine Centric [IoT, etc.]
	Asset Management [Address, etc.]
	Networks [Highways]
	Geocentric [Topography]

Value is provided to data consumers through a series of appliances that are centred on specific purposes

PPP is two way

- Last Week's UK Budget Announcement
 - “The UK has some of the best geospatial data in the world, and much of it is held by public bodies.
The potential economic value of this data is huge.
 - **To further boost the digital economy,** the government will work with Ordnance Survey, and the new Commission, to **establish how to open up freely the OS MasterMap data to UK-based small businesses**
- Training, innovation and incubation



Thank you

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