ORDNANCE SURVEY INTERNATIONAL

The role of geospatial technology in defence and security
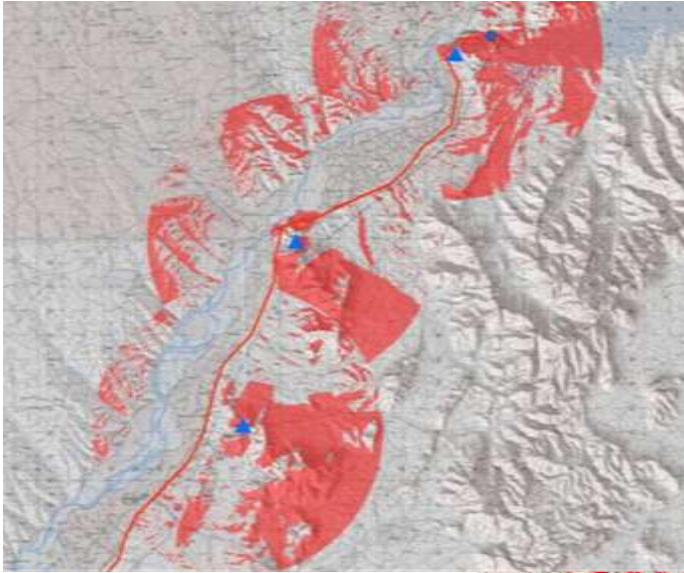
Colonel (Retired) John Kedar CGeog(GIS) FInstRE FRGS
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10 April 2017
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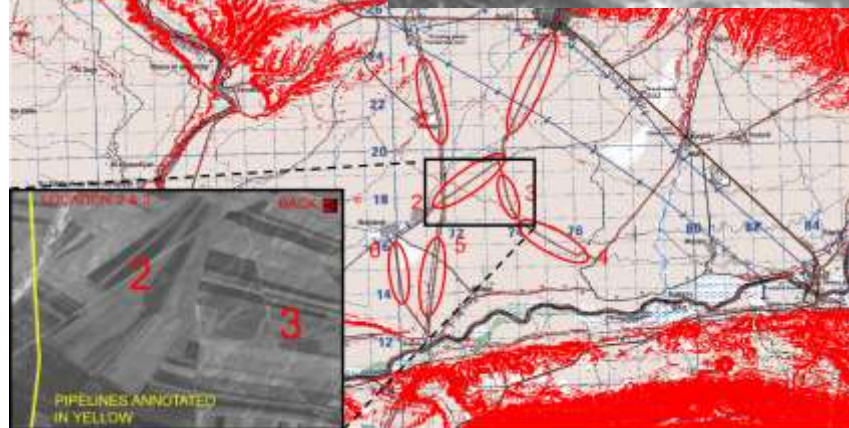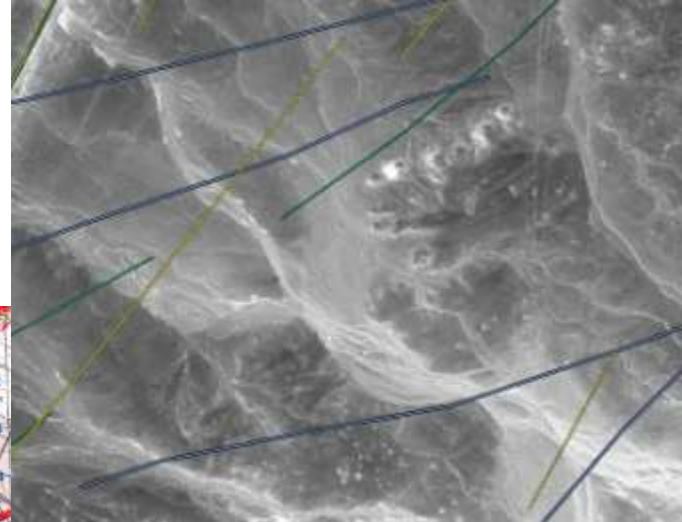# Security and Land administration are the leading justification for national geospatial capabilities
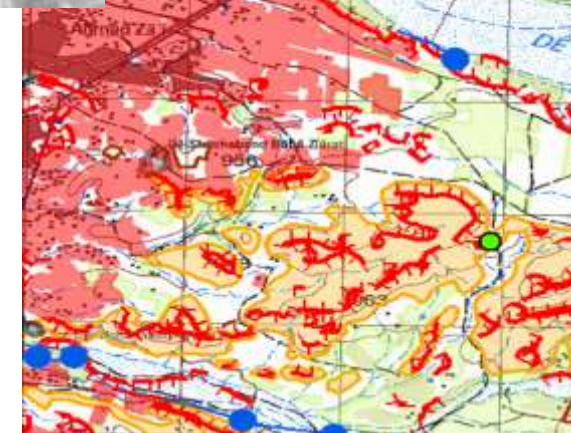
What is geospatial doing for Border Security?

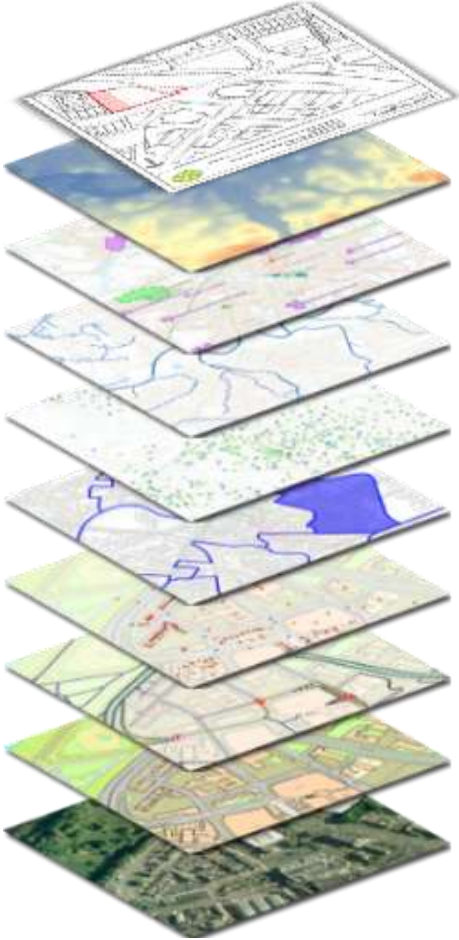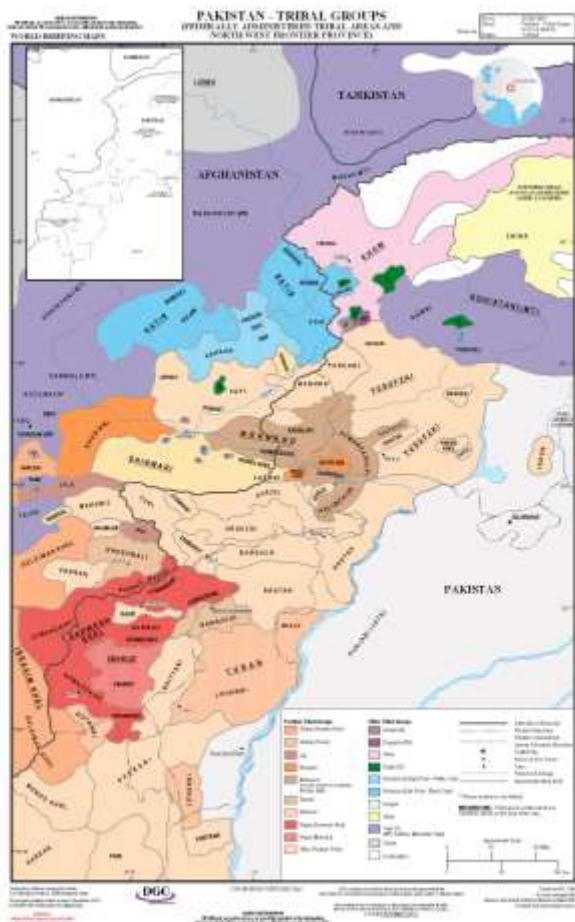Change Detection

Sensor Planning

Contingency Planning

Command and Control

Responding

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Internal security – responding to the 'threat within'

Cadastre
Elevation
Land Cover
Water Network
Names Gazetteer
Administrative Boundaries
Address
Highways
Topography
Imagery

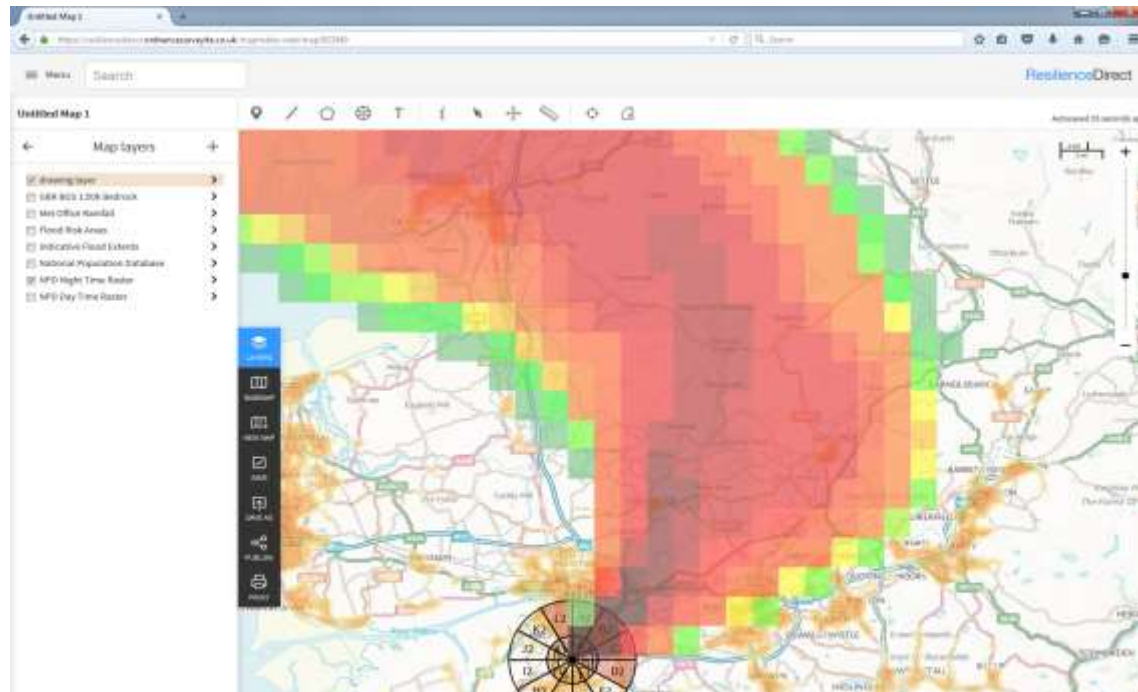People and Place   Networks   Geography   History   Culture and 'Tribe'   Patterns
Detail

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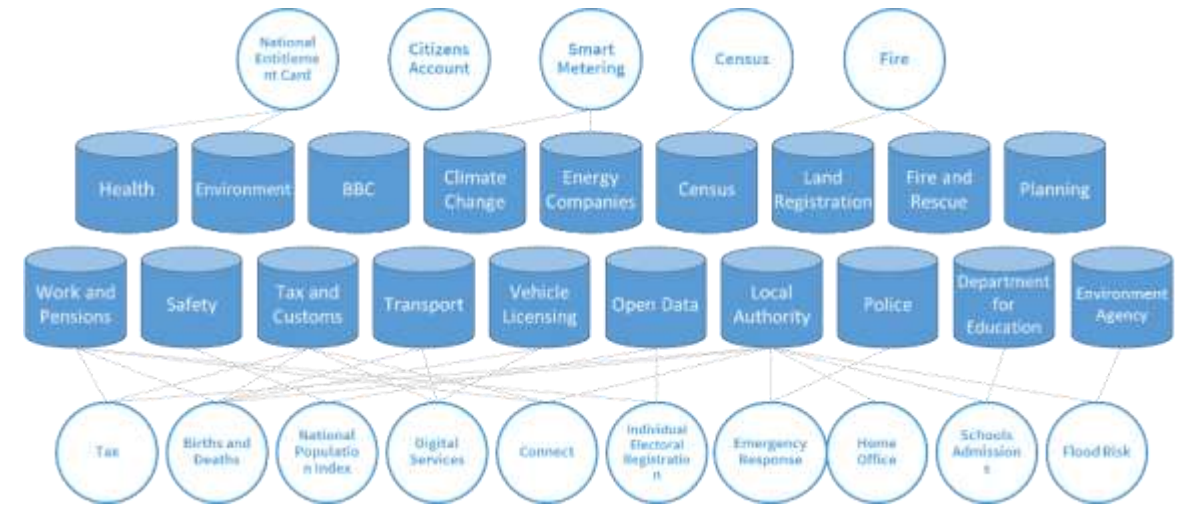# Resilience – a common understanding using location

ResilienceDirect

Cabinet Office

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National addressing contributes to security

- It is the link between databases

- Addressing is essential for effective:
  - ✓ intelligence
  - ✓ security planning and response
  - ✓ logistics
  - ✓ Navigation

- Think Cities and 3D

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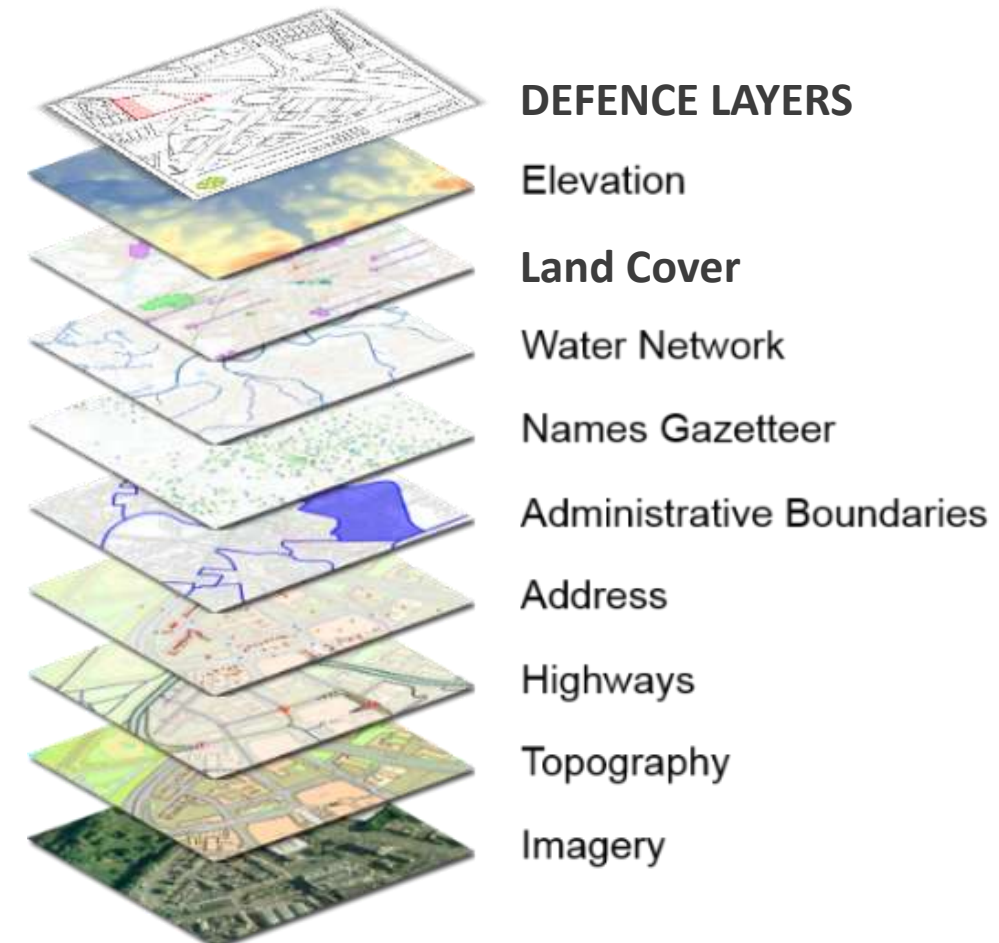# Not just data and systems but experienced people

Security organisations use GIS and OS embeds people into government decision making

Army Engineers embed specialist GIS experts into all operational units

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A question of security?

The enemy uses satellite imagery, Google Earth, GIS and social media to plan.

UK Policy: See it, map it. Defence and security can protect value added data.

Homeland

Overseas MOUs and

National Security stronger if trusted, maintained geospatial
Coproduction
information is shared across the whole of government – common
understanding

DEFENCE LAYERS

Elevation

Land Cover

Water Network

Names Gazetteer

Administrative Boundaries

Address

Highways

Topography

Imagery

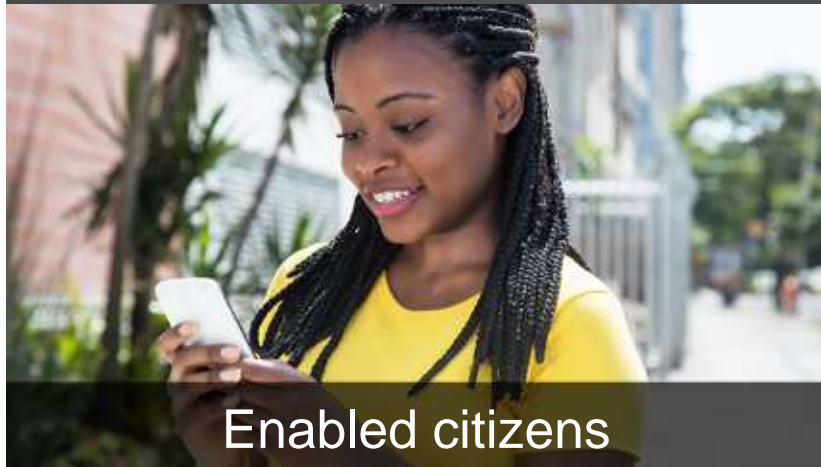# Good government and a growing economy helps national security

Effective government

Economic growth

Efficiency gains

Enabled citizens

National infrastructures

Protection of assets/resources

The same trusted, maintained geospatial information enables this

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Geospatial data and analysis supports decisions across National Security, from Section Commander to the Commander-in-Chief: Policy, people, data, standards and technology

Same fundamental geospatial data for all aspects of a government's work provides common understanding for national security

Better government and economic development is aided by the same geospatial data

"The importance of geographic support in warfighting is one of the 5 key lessons identified by this brigade".

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