

ORDNANCE SURVEY | TRIMBLE | IBM

Blockchain for Land Administration

*Smart Land Registries – a
tangible model seeking value
for all parties*

Andy Wilson, Region Director, Ordnance Survey International
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The team



Trusted
government
geospatial
partner



Leading
international
geospatial
solutions provider



Strong proponent of
Hyperledger
blockchain
technologies

Land Administration Services and Platform

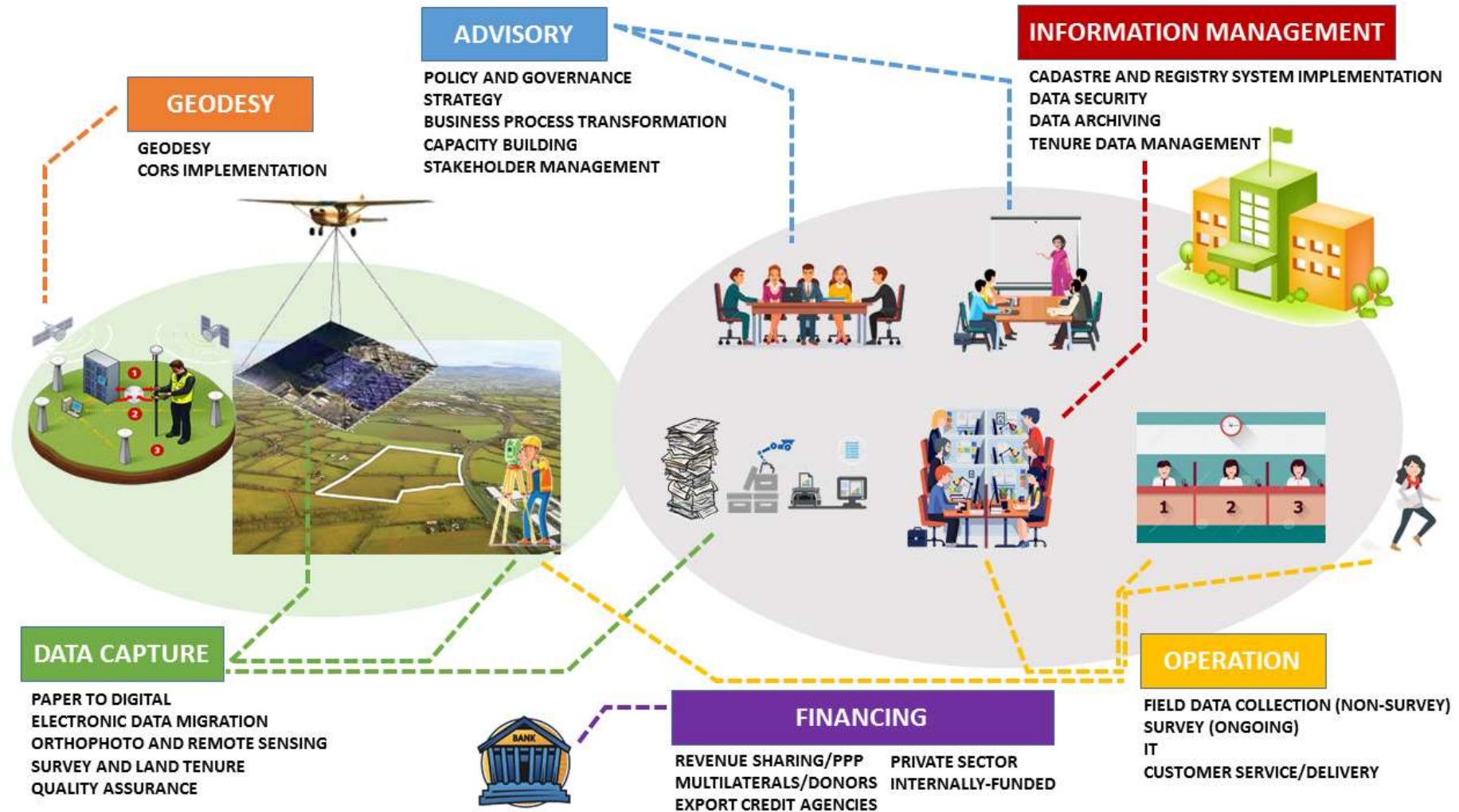
Low risk migration to an
evolving digital land authority

The Smart Land Registry

Finding real value

Blockchain

Land administration services and platform



Towards the Smart Land Registry

Codified registry

- Codified titles, RRRs, geometry
- Data quality improved

Digital services to enable transactions

- New digital services
- Innovation ecosystem of applications

Appropriate legal framework

- Innovation enabling legal framework
- Legally binding digital artefacts

*Smoother, faster, more efficient transactions
Enabling of economic growth
Reduced cost of operation of registry
Happier citizens*

Challenges for the land authority

Paper-based records/Archaic computer systems

**Near term
challenges**

Low quality / heavily siloed data

Unsustainable technology

Exclusion from formal land registration

Financial constraints

Inefficient processes

Poor integration across government departments

Limited market liquidity

Limited foreign investment

Lack of trust in the land authority

**Long term,
strategic
challenges**

Addressed by
moving to the
Smart Land
Registry



Blockchain technology – seeking value

- Enable transactions when a single authority holding the data and carrying out the transaction is not acceptable

*Add
real value*



*Ignore the
hype*

- Faster transactions?
- Data quality fixed?
- Root of title consensus?
- Legal issues avoided?
- Data collection simplified?



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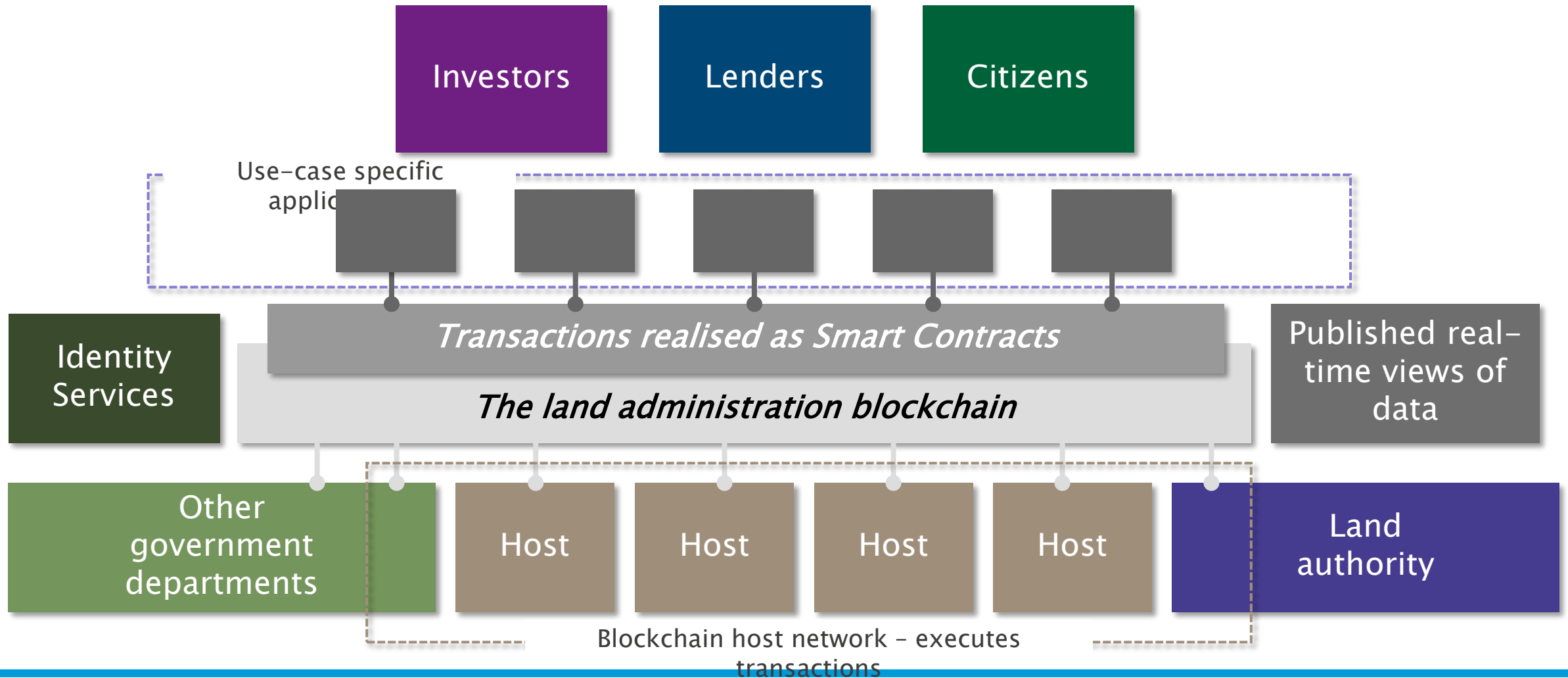
**Long term,
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Registry



**Blockchain
adding
value**

A blockchain based land authority



Blockchain: Value vs problems

Value to be had

- Increase trust – high visibility of transactions
- Smooth information flow
- Increase market liquidity
- High-trust foreign investment

Problems to overcome

- Is the technology mature enough?
- Are your citizens digitally enabled?
- What about data confidentiality?
- Legal framework changes?

Value from blockchain:

- *Must move to the Smart Land Registry **first***
- *Significant change in the way land transaction happen is needed*
- *Focus on the value – is it worthwhile?*

Thank you

Andy Wilson

Region Director

www.os.uk

Andy.wilson@os.uk

+44 7770 447901