‘SMART’ REGULATION IN THE DIGITAL ECOSYSTEM: A SOUTH AFRICA FIT FOR THE DIGITAL AGE

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THE RESEARCH QUESTION

• The research focuses on the principle issues Regulators are grappling with in the context of digital markets

• Regulation and good practice introduced in the international arena to remedy competition concerns on key areas of the digital market
  ○ The deployment of the 5G network
  ○ Blockchain
  ○ Data algorithms
  ○ Artificial intelligence and cybersecurity

• Regulation to support an agenda for ‘South Africa fit for the digital age’
A DEVELOPING DIGITAL ECONOMY

• There are some distinguishing features of developing market economies

• Our economy is smaller, enforcement resources more constrained and jurisdictional reach more limited relative to the major jurisdictions

• Regulation must be appropriate for specific industrial settings such as automotive, healthcare, energy and public services sectors. This presents a challenge for creating homogenous, consistent and efficient policy for all industries
MAKING THE 5G VISION A REALITY

• Fifth generation wireless technology
  ○ Faster data speeds
  ○ Lower latency
  ○ Better connectivity between devices
• 5G usage scenarios are well documented
• 5G network technology is essential infrastructure for a national digital transformation
THE PATH TOWARDS 5G IN SOUTH AFRICA

1990
- Mobile voice

2000
- Mobile video
- Fixed and mobile voice

2010
- Mobile broadband
- IP-based networks

2020
- 5G
  - Enhanced mobile broadband
  - Fixed wireless access solutions
  - New services that rely on high-speed fixed networks
5G REGULATORY CHALLENGES

• The deployment of 5G raises interesting legal and regulatory issues
  ○ Spectrum allocation
  ○ Shared spectrum
  ○ Network deployment
  ○ Infrastructure sharing
  ○ Bundling by operators
  ○ Privacy and security challenges
  ○ Power density regulations
  ○ The Investment challenge
5G DEVELOPMENTS AROUND THE WORLD

• Experiences of countries and developments concerning their 5G national strategies:
  o United States
  o United Kingdom
  o European Commission
  o Singapore
  o South Korea
  o China
  o Germany
  o Australia
  o South Africa

• Research is on-going as new policy developments arise.

• Africa perspective.
POLICY BUILDING BLOCKS

Step 1:
- National 5G Strategy
- Spectrum Roadmap
- Update policy
- Privacy and Security

Step 2:
- Investment
- 5G Trials

Step 3:
- 5G Infrastructure deployment
- Spectrum management
- Infrastructure Sharing
5G REGULATORY POLICY FOR SOUTH AFRICA

- Collaboration
- Spectrum
- 5G Ecosystem
- Infrastructure
- Security
- Impact
- Deployment