



**‘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

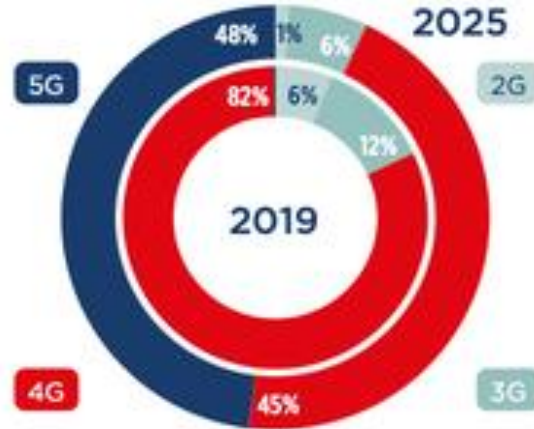


- Fifth generation wireless technology
  - Faster data speeds
  - Lower latency
  - Better connectivity between devices
- 5G usage scenarios are well documented
- 5G network technology is essential infrastructure for a national digital transformation

## North America



### TECHNOLOGY MIX\*



### SUBSCRIBER PENETRATION



### SMARTPHONE ADOPTION



## Sub-Saharan Africa



### TECHNOLOGY MIX\*



### SUBSCRIBER PENETRATION

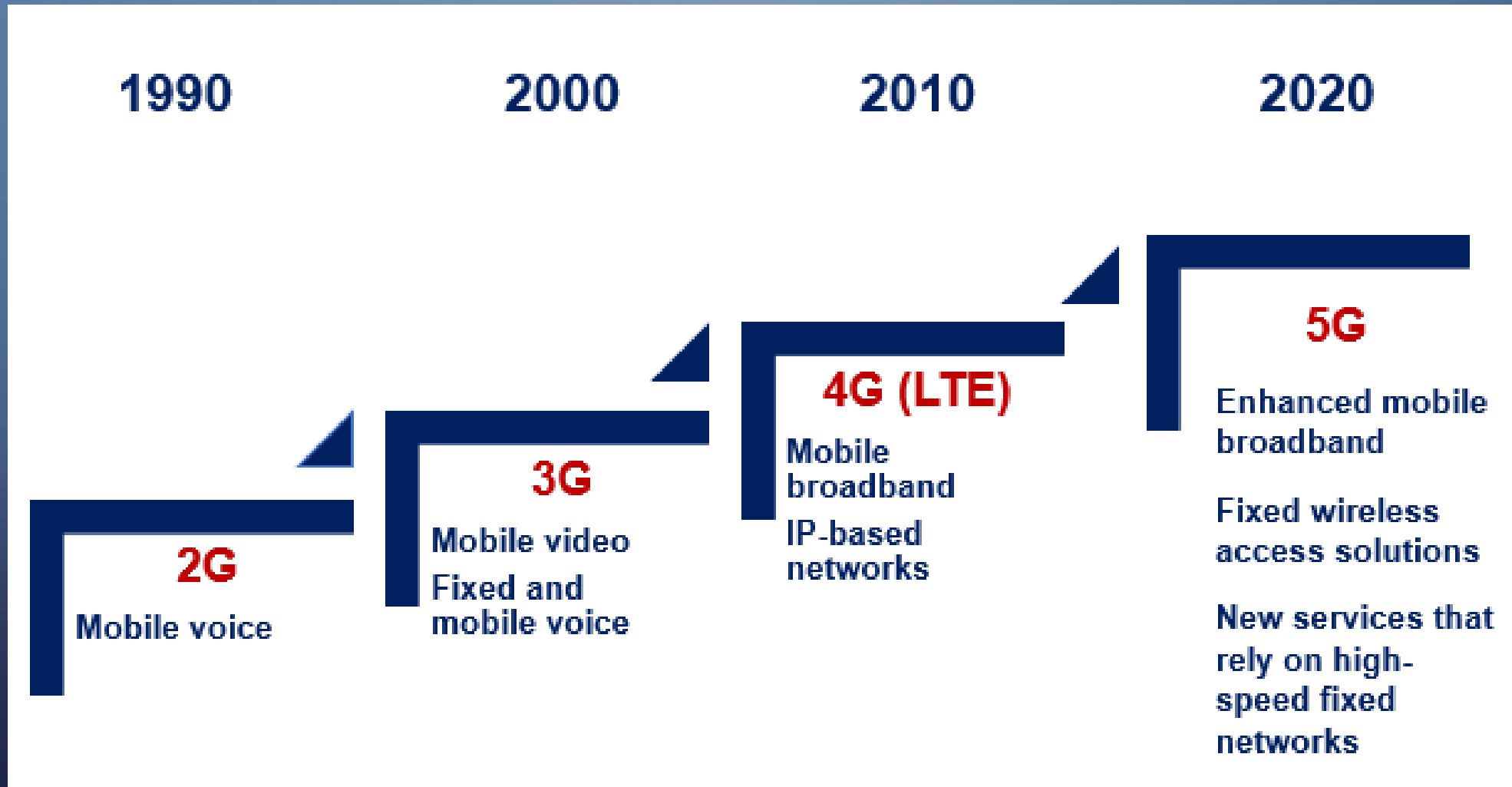


### SMARTPHONE ADOPTION



Source:  
GSMA

# THE PATH TOWARDS 5G IN SOUTH AFRICA



# 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

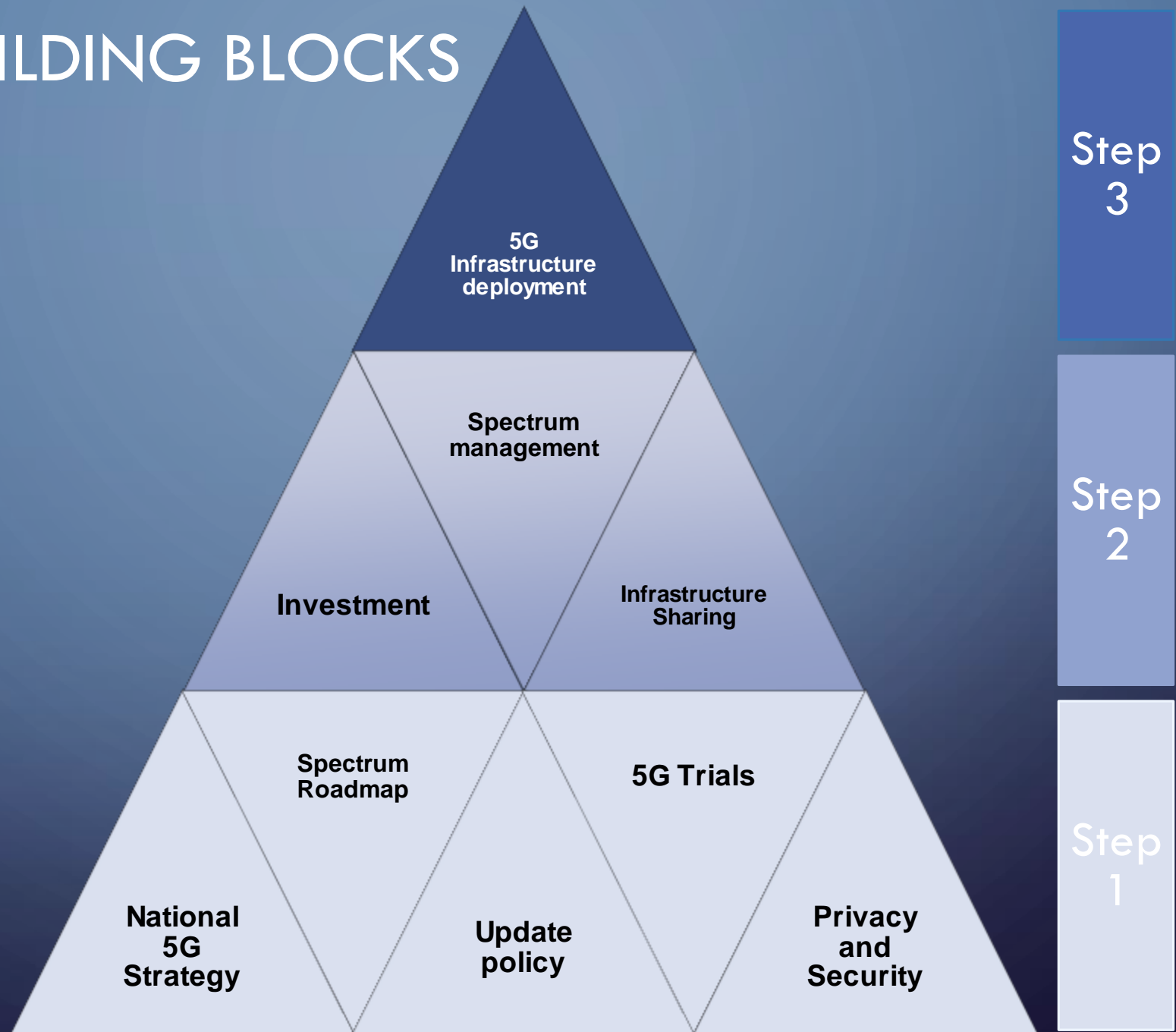


# 5G DEVELOPMENTS AROUND THE WORLD

- Experiences of countries and developments concerning their 5G national strategies:
  - United States
  - United Kingdom
  - European Commission
  - Singapore
  - South Korea
  - China
  - Germany
  - Australia
  - South Africa
- Research is on-going as new policy developments arise.
- Africa perspective.



# POLICY BUILDING BLOCKS



# 5G REGULATORY POLICY FOR SOUTH AFRICA

