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PRESENTATION

TELECOMMUNICATIONS IN CRISIS: PERSPECTIVES OF THE FINANCIAL SECTOR ON REGULATORY IMPEDIMENTS TO SUSTAINABLE INVESTMENT

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Telecommunications in Crisis: Perspectives of the Financial Sector on Regulatory Impediments to Sustainable Investment

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Introductory Observations

- Adverse financial market conditions are focusing attention on the impact of regulation on investment flows
- Importance of regulators understanding how investors approach investment decisions
- Always an opportunity cost: higher risks and less attractive expected results mean finance will flow elsewhere
- Viability of investment is assessed by analysing estimated projections of future financial results and risks
- Financial analysts benchmark performance of telecom companies, relying on detailed operational and financial ratios

Introductory Observations Operating and financial ratios used in financial analysis of telecom companies		
Subscribers (or lines)	Average revenue per user (ARPU)	Operating revenues
Employees per subscriber (or line)	Revenue/minute	EBITDA (Earnings before interest, taxation, depreciation and amortization
Minutes of use per subscriber (MOU/Sub)	Subscriber acquisition costs (SAC)	EBITDA margin (EBITDA over revenues)
Churn rate	Enterprise value (EV) per subscriber (EV/Sub)	Free cash flow (FCF)
		Debt/EBITDA
Country penetration	Capex/Sub	Debt/market capitalization
	Capex/Minutes of Use (MOU)	Enterprise value (EV)/EBITDA
		Capex/revenues
		FCF yield
		Price/earnings (P/E) ratio
		Earnings per share (EPS)
		Return on equity (ROE)

Introductory Observations

- Regulatory conditions have a major effect on the ratios used to decide whether to invest
- The paper focuses on the effect of regulation on expected:
 - Revenues
 - Costs
 - Overall profile of regulatory risks
- Key concerns:
 - develop institutional mechanisms to increase input from investors into the regulatory process
 - improve transparency of regulatory process to investors

Revenues: Retail Price Regulation of Fixed Line Operators

- Historic distortions created by cross-subsidies and traditional price regulation
- Competitive pressures on traditional price structures
- Rebalancing of fixed line prices is not complete in most markets—both developed and developing markets
- Continued price regulation introduces many rigidities including inflexibility to respond to competitive markets, embedded subsidies to special groups and government entities
- In some markets inflexibility to respond to growing mobile and Internet-related traffic

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Revenues: Disparity of Fixed and Mobile Price Regulation

- Global mobile penetration surpassed fixed in 2002
- Mobile penetration exceeds fixed in 97 markets
- Increasing evidence of fixed-mobile substitution in developed and developing markets
- Major telecom operators cite fixed-mobile substitution in their Management Discussion and Analyses as a competitive effect reducing revenues
- Notice the impact on investment flows of a light-handed mobile price regulation
- Justification for differing regulatory approaches?

Revenues: Effect of Retail Price Controls on Wholesale Services

- Inappropriate retail price regulation can introduce significant distortions in wholesale services:
 - Create barriers to investment by new entrants
 - Create distortions between retail and wholesale price structures
- Concerns about mandating uneconomic investment by incumbents
- Concerns about price squeeze of new entrants

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Revenues: Price Regulation of Wholesale Fixed Line Services

- Risks of policies relating to wholesale price regulation that are not balanced and do not permit infrastructure-based approach to access
- Alternative approach based on tighter regulation of fixed line network has major flaws
- Concerns about separating fixed line network into a separate regulated public utility—the UK Railtrack model
- Creating adequate incentives to investment by incumbents and new entrants

Revenues: Mobile Roaming and Termination Charges

- Increased regulatory focus risks treating roaming and termination as isolated regulatory concerns
- Importance of cash flow in the sector as a whole
- Concern about competition policy focusing too narrowly and not dealing with the impact of regulation overall on the sector
- Provide leeway for market-driven pricing adjustments?
- Benefits of industry-regulator consultative processes

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Impact of Regulation on Projected Costs

- Impact of regulation on cost structures of telecom service providers including the cost of licenses, spectrum, and build-out and USO obligations
- Conflict between government policies to develop telecom sector and incentives to finance other social programs and obligations
- Telecom sector has often been utilized as a cash cow to finance other budgetary priorities
- Impact on sector growth and long-term tax revenues

Costs:

Government Revenues and Licensing

- Imposing license/confession fees on revenues are "off the top" of revenues and independent of operators' profitability
- Trade-off current revenues for long-term tax revenues
- Spectrum auctions put government in role of exclusive seller of a unique resource
- Disclosure of future regulatory initiatives can be real concern
- Structuring bidding to maximize revenues in face of operational and technological uncertainties—case of 3G specific auctions and WiFi developments

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Costs:

Build-out and USO Obligations

- Effective pricing policies can reduce waiting lists and expand infrastructure
- Lesson from explosion of investment in mobile infrastructure
- Potential for new technologies including wireless LAN technologies to provide services in rural areas
- Establishing right price signals for investment in rural areas and then targeting subsidies
- Eliminating embedded subsidies in existing rate structures
- Risks of bureaucracy in USF administration

Improving the Risk Profile

- Removing areas of uncertainty about key policy issues
- Dealing with jurisdictional conflicts and regulatory complexity
- Developing new mechanisms for dealing with dispute resolution and consensus building and strengthening the nexus between investors and regulators

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Improving the Risk Profile: Reducing Regulatory Uncertainty

- Complexities of transition from concession-based industry structure to license-based structure
- Process concerns about the transition from revenue division to interconnection-based relationship between local exchange and long distance operators
- Need to define the competitive arrangements between long distance and local exchange operators
- Addressing changes in jurisdictional roles of national and regional regulators

Improving the Risk Profile: New Institutional Mechanisms

- Complexity of technical and economic issues implicated by regulation
- Creating avenues for more direct input by key industry players and investors
- Increasing the likelihood that outcomes will succeed through regulatory forbearance
- Increasing capabilities to deal with private dispute resolution
- Using virtual fora with access to benchmark-related information to facilitate dispute resolution and consensus building
- Critical opportunity to build new nexus between investors and regulators

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Overview of Key Recommendations (1)

- Focusing on investment-oriented regulatory policies and on better flow of information between regulators and investors
- Revisiting traditional approach to retail price regulation of fixed line services
- More attention to the implications of mobile-fixed substitution with respect to ongoing retail price regulation

Overview of Key Recommendations (2)

- Focusing more attention on the nexus of retail and wholesale price regulation
- Removing distortions created by restrictive retail price regulation
- Creating new and more favorable environment for investment in alternative infrastructure
- Reducing the incentive of government policy makers to seek short-term financial return from the telecom sector

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Overview of Key Recommendations (3)

- Developing a more limited and focused approach to regulation, especially to achieving objectives of rapid expansion and accessibility of network infrastructure
- Developing new mechanisms to improve private dispute resolution and consensus building in the telecom sector
- Improving the flows of information between investors and regulators through institutional innovations