



Disruptive Technologies

How will telecom operators emerge from
the onslaught?

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Impact of the Telecom Sector

Mobile services not only improve lives but impact incomes as a GDP contributor

Greater impact on growth in many countries than any other sectors

A 10% increase in mobile penetration in developing countries leads to a 4.2% increase in productivity

Stimulator of commerce







The Internet of Things (IoT) has the potential to create massive disruptions in telecommunications.

How?

50 billion connected devices by 2020. That equates to 6.58 connected devices per person (Cisco)



The Internet of Things;

Vodafone's fourth annual IoT Barometer Report:

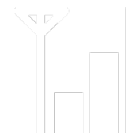
- **IoT is increasingly at the heart of today's business landscape.** 76% of businesses say that IoT will be “critical” to their success, and adopters allocate more budget to IoT than to cloud or analytics.
- **IoT is being used to drive business change.** Already 37% of adopters say they run their entire business on IoT, and 48% say they're using IoT to support large-scale business transformation.
- **Enterprises are seeing dramatic results.** 63% say they've seen “significant” return on investment, and on average they measure a 20% improvement in metrics like revenue, cost, downtime and utilisation.
- **IoT is integral to enterprise IT.** More than 90% of adopters say they already integrate IoT data with cloud, mobile, analytics and ERP.





What is the challenge?

- Disruption of current mobile architecture
- Privacy
- Data security
- Standards and protocols
- Need for more spectrum





Big Data



- Data collection
- storage
- dissemination



Where do we go from here?

