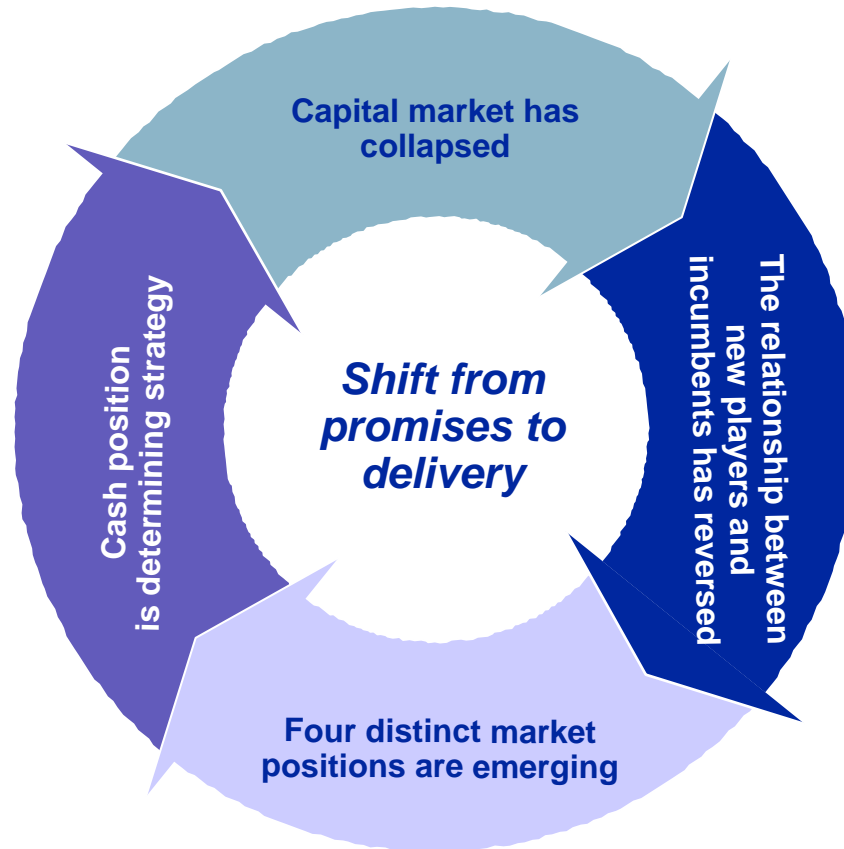


Shifting from Future Performance to Short-term Profitability

Telecom and Media Trends in a Turbulent Market

Focus has shifted from future performance to short-term profitability

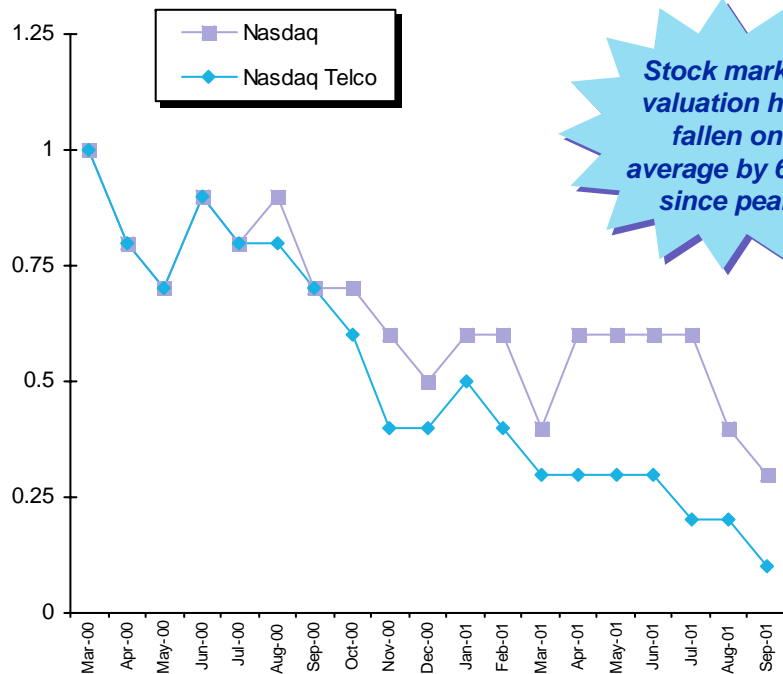


We will look at these developments in turn.

The capital market collapse has influenced all aspects of the TMN industry



Telcos/Media Market Performance



Stock market valuation has fallen on average by 60% since peak

Drivers of Market De-rating

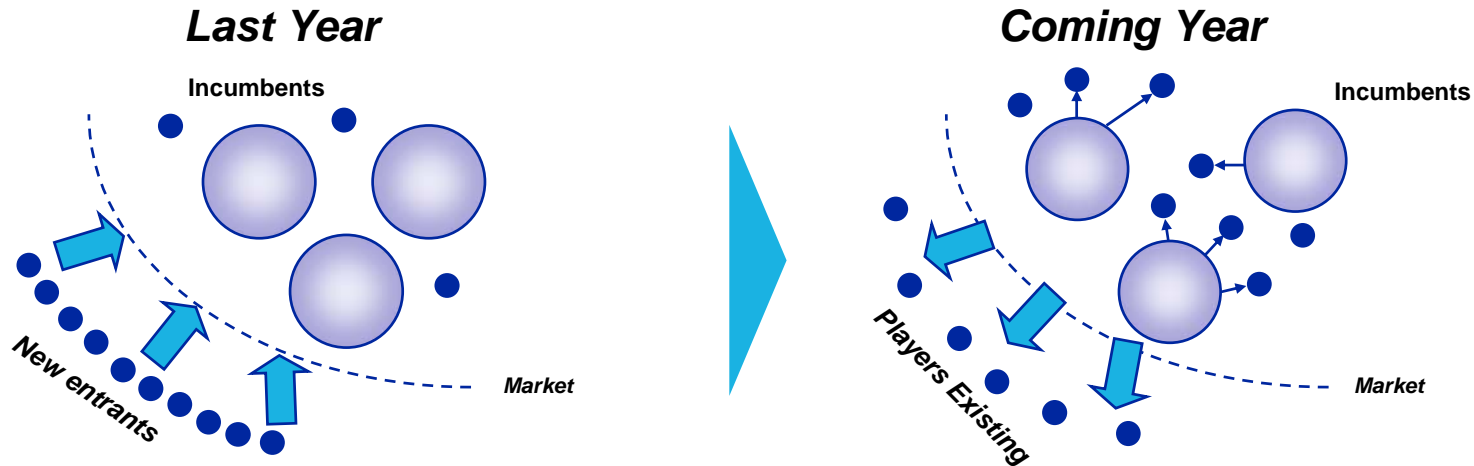
- **Telcos:**
 - Concerns over capital expenditure:
 - Rollout of broadband networks
 - Licence fees for 3G networks—in excess of €125bn globally
 - Technical delays:
 - GPRS/ASDL rollout
 - Debt burden:
 - European telcos need to finance up to €150bn of debt in 2001
- **Internet/Tech:**
 - Fragile business models, e.g.:
 - Portals unable to use access charging
 - Lack of finance/concerns over returns:
 - Capital was not being committed to sector, e.g. 3G auctions
 - Capital committed would not yield returns, e.g. 3G payback
- **Media:**
 - Bleak advertising outlook:
 - Reduction in global advertising growth from 6.8% to 1.3% for 2001

The market is placing a premium on results with rigid performance expectations.

a. "Media Space 2001", Mike Hilton, ABN AMRO.



The attacker/defender relationship has reversed



Market Dynamics

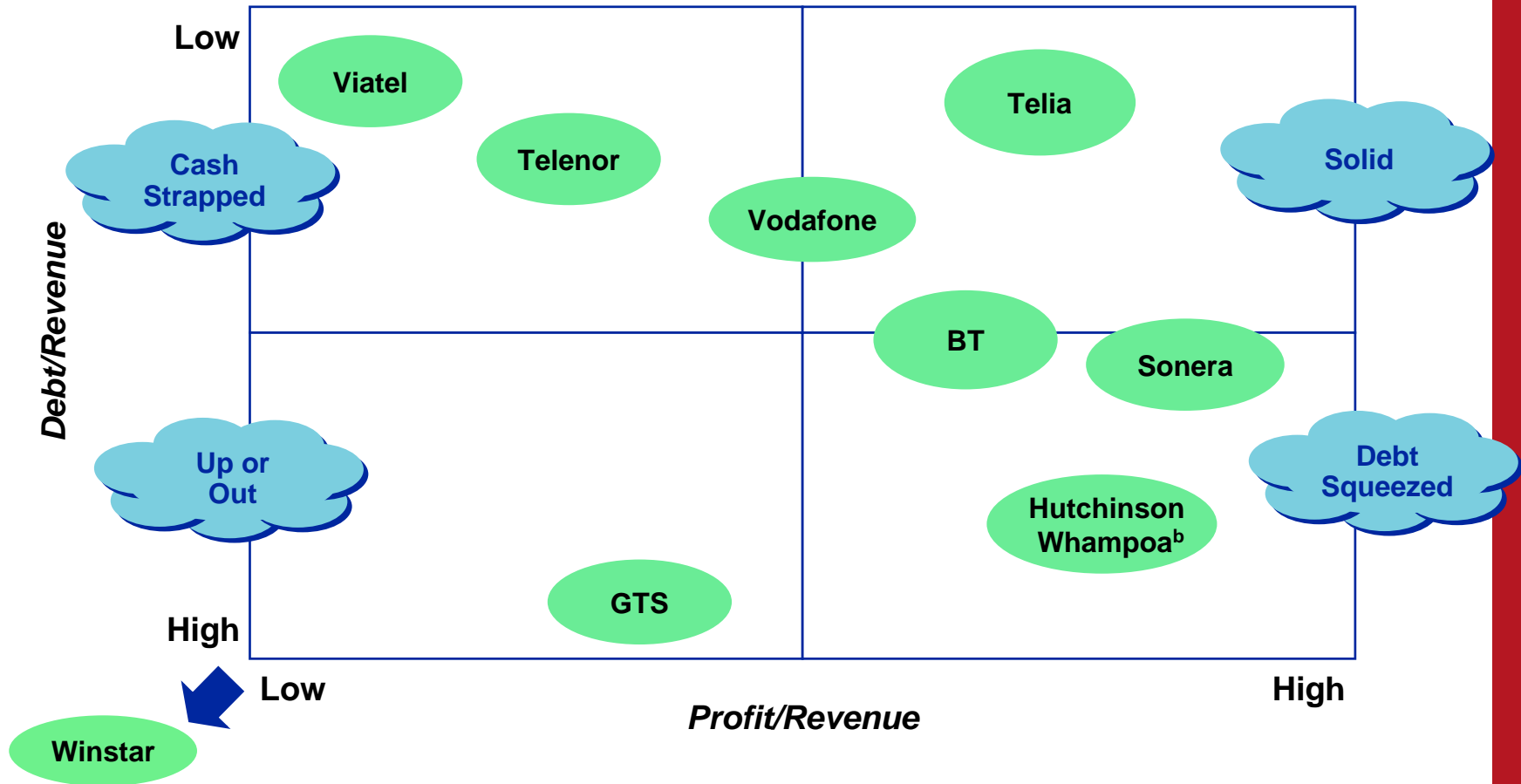
- New entrants took on the role of attackers
- New entrants followed cherry-picking strategies to gain customers
- New entrants market capitalisation increased based on future growth potential
- Established players were considered to be large and unresponsive

Market Dynamics

- Incumbents have absorbed some of new entrants, e.g.:
 - Energis buying Ision
 - FT buying Equant
 - Wind buying Infostrada
- Other new entrants will be forced to leave the market, e.g.:
 - Winstar
 - Teligent
 - 360 Networks
- Pressure on new entrants to deliver will cause strain and render them vulnerable, e.g.:
 - GTS
 - Viatel
- Incumbents will face similar pressures, yet their critical mass will be a relative strength



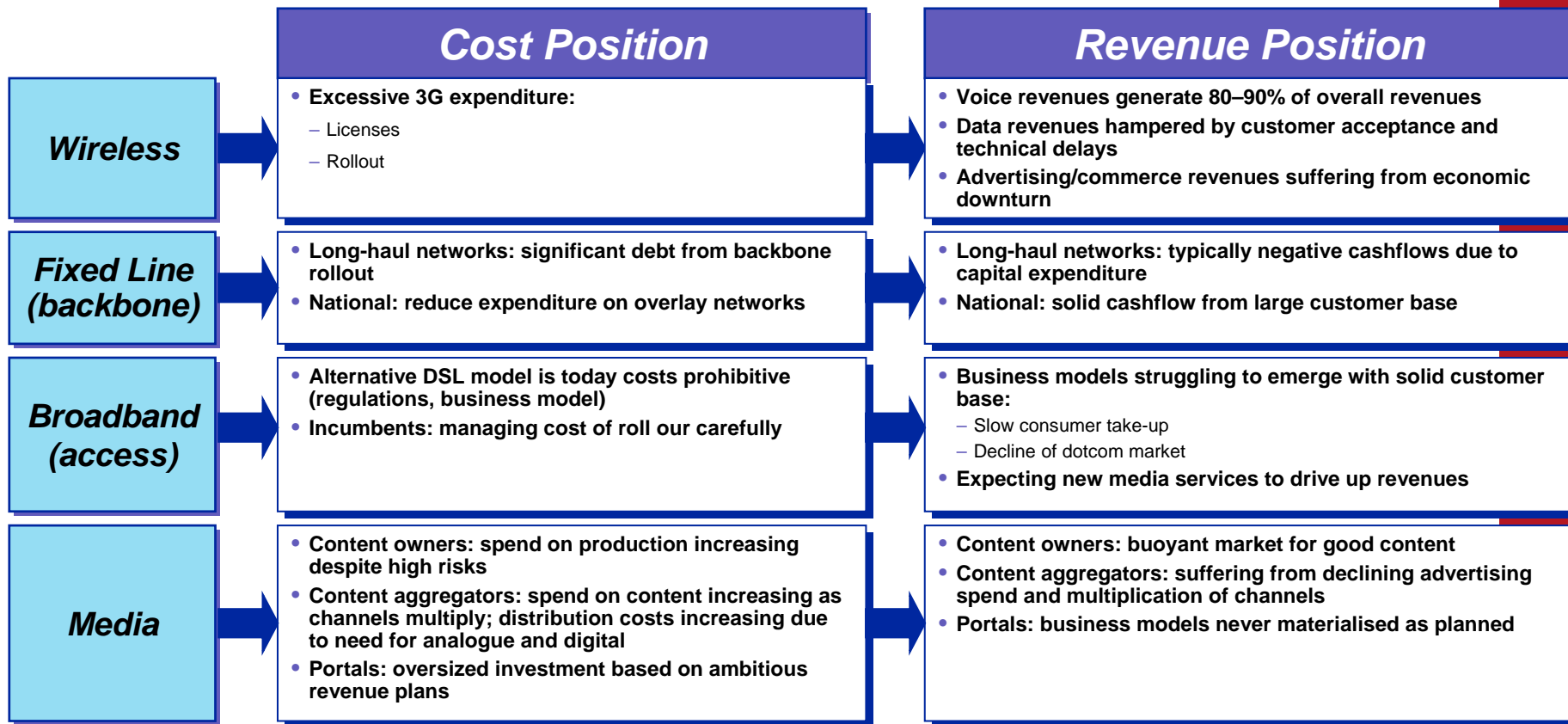
Four distinct market positions are emerging



a. Adjusted March 2001 data; b. Conglomerate data.



Players' cash position is impacting their strategy



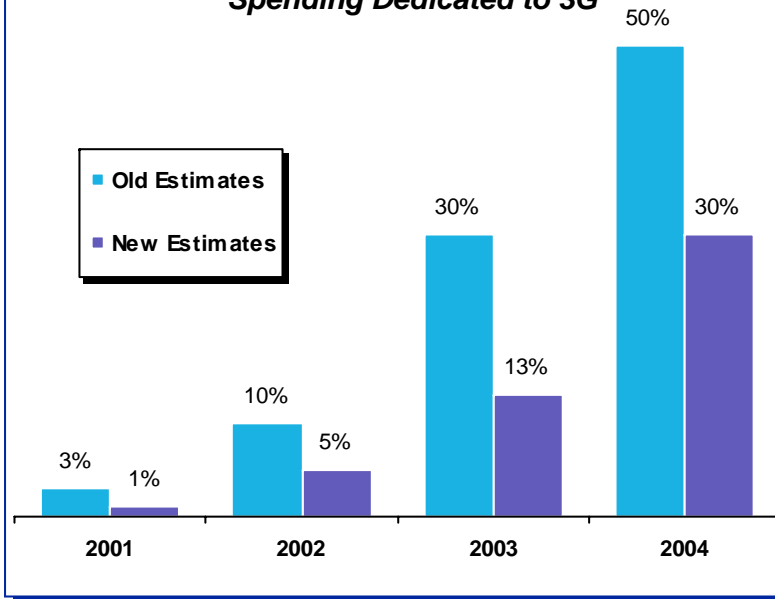
Equipment vendors supporting Telecom and Media companies with financing are now feeling the impact of the downturn.



3G deployment is continuing but at a slower pace with players searching for cost-efficient solutions

Estimated 3G Capital Spending

Carriers' Estimates Proportion of Capital Spending Dedicated to 3G



Strategy

• Partnerships:

- Between licence holders, e.g.:
 - Netcom AB (now Tele 2) and Telia in a 100% joint venture to share infrastructure build cost
- Between operators and hardware manufacturers, e.g.:
 - Motorola to supply BT Cellnet with GPRS handsets
- Between operators and MVNOs

• Prioritised infrastructure deployment, e.g.:

- Netcom and Telia have been targeting cities as a priority in the roll-out in Scandinavia

• Withdrawal from costly projects, e.g.:

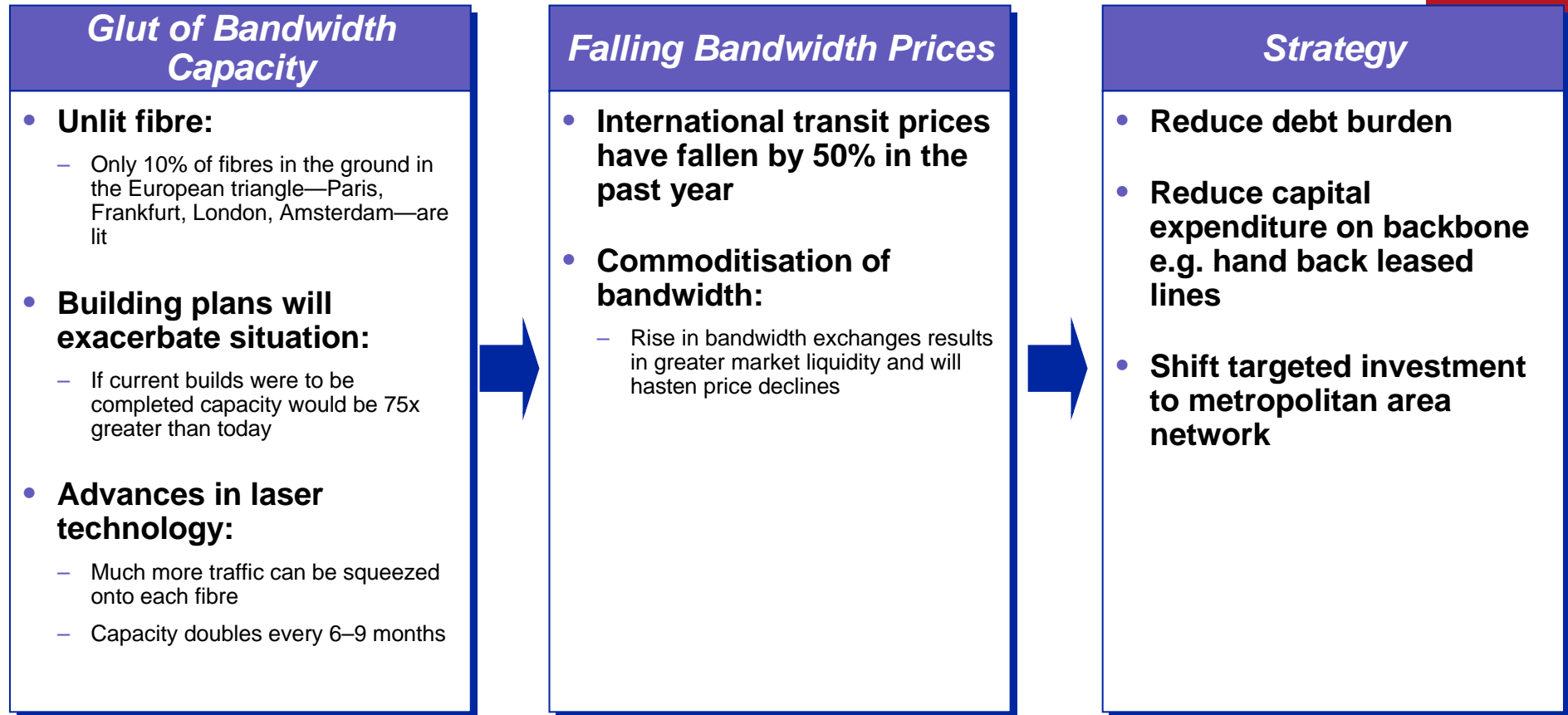
- Sonera gave one 3G licence back for free rather than add to €4bn spent to date

A reduced level of 3G capital spending and increased partnerships throughout the value chain will continue.

Source: ING Baring, 2001.



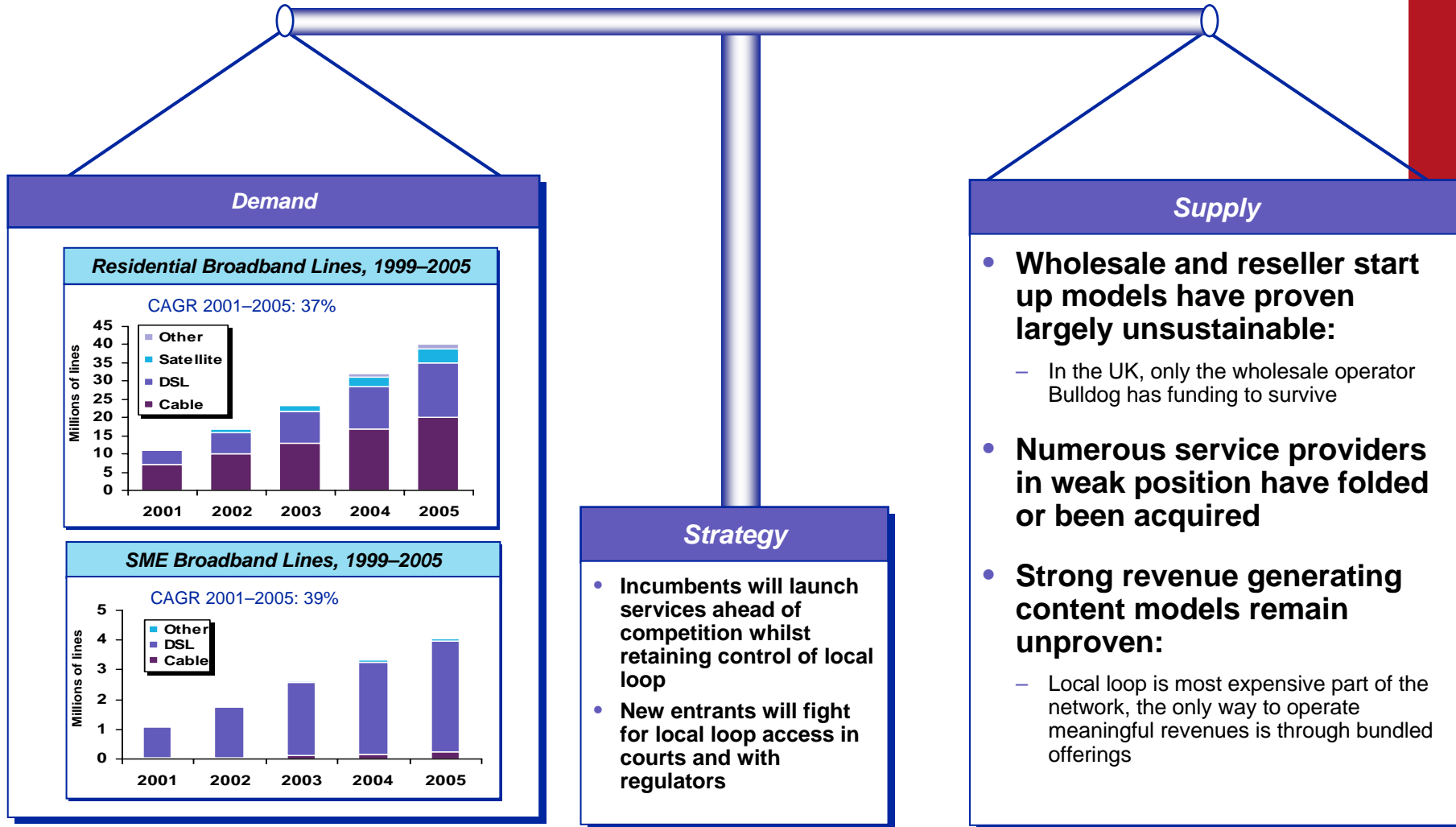
Telco's core transport business is pressurised by excess bandwidth capacity and falling prices



Source: America's Network, ING Baring, 2001, Company Reports, Financial Times, Yankee Group.



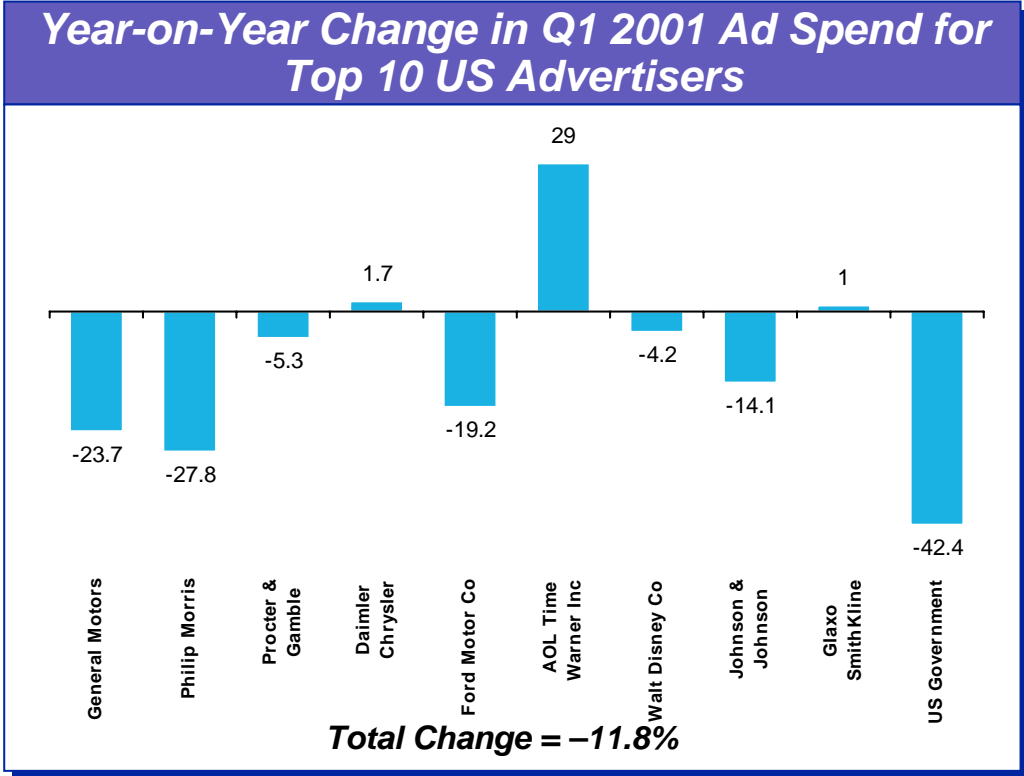
Incumbents controlling local loop access will benefit from the positive broadband demand outlook



Source: JP Morgan, "Broadband 2001: Industry Analysis", 2001.



Ad spend has collapsed, forcing media players to capitalise on consumers willingness to pay for “high-value” content



Strategy

- **Overall: Leverage investment in “high-value” content:**
 - Branded/niche
 - Interactive
 - Personalised
- **Content owners and aggregators: Charge premiums for “high-value” content, e.g.:**
 - Productions with Hollywood actors/actresses
 - Premium channel TV
- **Portals: Move to subscription based model:**
 - Free content models proved unsustainable

Additionally, players must continue to invest in content digitisation and preparation of content for new delivery platforms.

Source: "Media Space 2001", Mike Hilton, ABN Amro.
 a. AOL Time Warner merger explains increased Q1 adspend in 2001.

The new media industry is shaping up but will develop at a slower rate than anticipated

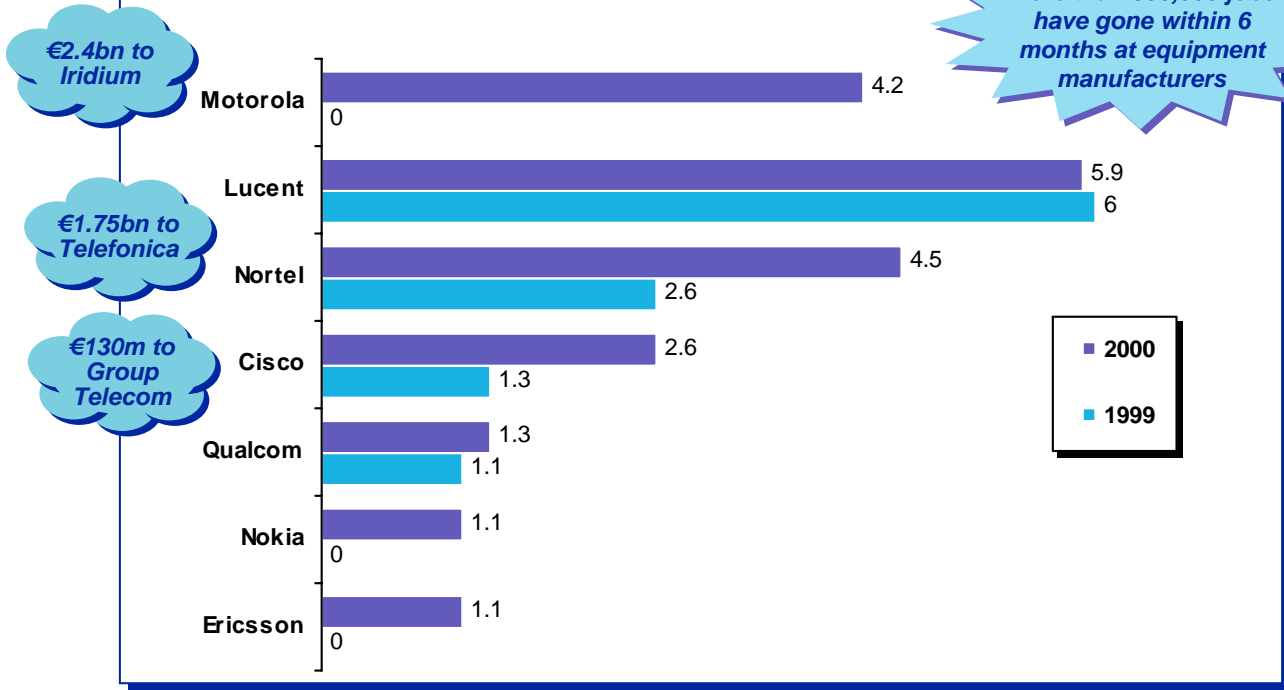
Key Media Trends

Trend	Description
Digitisation of content	<ul style="list-style-type: none"> • Content owners will digitise their libraries to realise the benefits of digital distribution: <ul style="list-style-type: none"> • Reduction of distribution costs • Increased ease of global distribution • This requires new skills in the area of digital asset management
Content moving to subscription-based / on-demand models	<ul style="list-style-type: none"> • Free content models have proven unsustainable • Subscription / on-demand models compensate uncertain future advertising revenue streams • Content providers seeking new revenue streams
Evolution of new content delivery platforms	<ul style="list-style-type: none"> • Identify the best place to store content and sell to the customer • Video-on-Demand, Personal Video Recorder (PVR), DVD • Video streaming over the Internet (e.g. Big Brother) • Increase interactivity and personalisation of content and advertising
Differentiation in content creation	<ul style="list-style-type: none"> • Brand <ul style="list-style-type: none"> • Increasing importance of talent brands and quality to differentiate • Branded artists, production and rights becoming increasingly expensive • Niche / experimental content <ul style="list-style-type: none"> • Regionalisation, new content models • e.g. Big Brother / Survivor shows



Equipment vendors entered into financing to protect volumes but are facing massive industry restructuring

Vendor Financing Commitments, 1999–2000
(€ billions)



Recent Activity

- Winstar is in bankruptcy, putting Lucent's loan at risk
- Vectris, upon entering bankruptcy, has defaulted on a €65 million loan from Cisco
- Default rate on telco loans could increase from 1% last year to 5–10% this year affecting both growth and the bottom line
- 100 rated companies defaulted on €3bn worth of debt in first half of 2001—€20bn was attributable to telcos

Equipment vendors are getting squeezed from all corners.

Source: TotalTelecom; The Street.com; The Standard Europe; Company Filings; *Financial Times*; CGE&Y.

Note: 1999 figures for Nokia, Motorola and Ericsson unavailable.



Indebtedness and a continuing economic downturn are prompting companies to exit, sell, rationalise or merge

Result	Reasons	Examples
Exit	<ul style="list-style-type: none"> • Unable to service debt: <ul style="list-style-type: none"> – Default on loan payments. 	<ul style="list-style-type: none"> • Winstar, Teligent, 360 Networks have filed for bankruptcy
Sell	<ul style="list-style-type: none"> • Unable to gain further funding 	<ul style="list-style-type: none"> • Atlantic Telecom selling Dutch, German, UK operations • One.Tel sold UK business to Centrica
Rationalise	<ul style="list-style-type: none"> • Unable to continue heavy capital expenditure alone 	<ul style="list-style-type: none"> • Sonera gave back one of its 3G licenses for free • DT and BT sharing expenditure costs for expansion of 3G networks
Merge / Demerge	<ul style="list-style-type: none"> • Desire to gain scale through consolidation • Desire to restructure business and balance sheet 	<ul style="list-style-type: none"> • Webraska and Airflash, the location-based mobile service specialists, will merge in a bid to be market leader • BT Spinning off mobile business mmO₂, selling assets such as international directories and e-commerce business Yell

Access to capital at the appropriate time is the immediate issue Telecom and Media companies face.

Source: Richard Wilson, Nomura; S. Carrington, CSFB, 29/5/01; Total Telecom.

a. Webraska focuses on mobile navigation technologies, Airflash focuses on mobile end-user applications.