Learning from Past Failures

Vital lessons can be learned from failed satellite ventures

by Elisabeth Tweedie

he satellite industry is a risky business – the stakes are 200 was an expensive item for developing economies. high, the successes very notable and the failures absojust pure bad luck that leads to failure, or could some of these have been avoided?

marketing 101, to ensure success each of the four Ps (product, price, promotion and place aka distribution) need to be right. Complicated enough in any marketplace, but once into this the other factors needed for a successful satellite Space radio as an option on new Fiat cars. business: a successful launch, orbital slots, frequency allocation and coordination, Telemetry, Tracking and Control considerable finance that needs to be raised, and it seems almost miraculous that any satellite business succeeds! But thanks to a sound business plan, good management, robust technology and maybe a modicum of luck in some cases most do indeed succeed.

But some like WorldSpace and Voom do not. Hindsight is always 20/20 and in a business as complex as ours although one or two things may stand out it is often a combination of factors that ultimately tip the scales to failure. The question Voom is can anything be learned from these failures?

Satellite Radio operator WorldSpace launched its first satel- and former CEO lite AfriStar in 1998, obviously targeted primarily at Africa. and There is no denying that this was a vast untapped market and Charles Dolan. At the intention of providing a news service to rural areas was an the time of its admirable goal. There is also no denying that in a continent launch where in most countries the average annual income was be- DIRECTV low US\$ 500 the number of potential subscribers was se- Dish verely limited. The second satellite AsiaStar was launched in them had around 2000. The initial target market was India followed by China. 22 million sub- Cablevision's Voom satellite HDTV Average per capita income in India was not significantly scribers and were service, launched in 2004, was higher than in Africa, but India did (and still does) have a adding significant middle class so at least on paper was potentially a mately better market. However the monthly subscription was 200,000 pegged at around US\$ 2.35 with a SAC (subscriber acquisi- month. In addition chances of success. tion cost) of US\$ 175 meaning that it was taking around six there were another years to break even on each new subscriber. (Contrast this 65 million cable households in the US. Voom was hoping to

launching and operating the satellites. Take up was also hampered by the cost of the receiver which at around US\$

lutely spectacular! What distinguishes the two? Is it Unlike XM and Sirius, WorldSpace initially only provided service to portable not mobile devices and it had no ground repeater stations. Given the significantly smaller numbers of vehicles in its original target markets this seemed to make Launching any new business is challenging: to go back to sense. However, it did mean that WorldSpace had to do all its own marketing as it was unable to rely on car manufacturers or even after market suppliers of car radios to boost its sales. When the company later turned its attention to Europe launched, satellites are for the most part "fixed" for up to 15 with commercial service planned for 2007, it negotiated liyears, sometimes longer, while their terrestrial competitors censes to build terrestrial repeaters in Italy, Switzerland and are free to change and advance at a much faster rate. Add Germany and had an agreement with Fiat to offer a World-

There was an IPO in 2005, initially successful the shares then (TT&C), uplinking and ground equipment not to mention the dropped by over 40% in the first few months. At the end of 2005 WorldSpace was reporting around 100,000 subscribers over half of which were in India. Following the IPO there were repeated funding rounds to finance the expansion, terrestrial repeaters, and fund the ongoing losses. To compound matters there was also technical problem with AfriStar. WorldSpace filed for Chapter 11 Bankruptcy in 2008.

Voom was another doomed satellite venture. A subsidiary of

Cablevision. brainchild of Cablevision founder approxievery



probably ahead of its time. A more another thorough assessment of the existing market would have increased its

with DIRECTV who at the time were reaching breakeven on capitalize on what was then the relatively new trend of HD. new subscribers in less than a year). Even after breakeven Around six million HDTV sets had been sold in the US but with an annual revenue of less than US\$ 30, it was going to DIRECTV and Dish were only offering seven HD channels take an awful lot of subscribers to recoup the cost of building, each. Voom was launched with an exclusive package of 21

satellite HD Channels and used OTA (over the air) antennas to receive local digital SD and HD channels. There were another 88 SD popular channels. Unlike WorldSpace, Voom was a short lived venture and after a boardroom struggle the satellite and package of programs was sold to Echostar in there have been a third DTH provider in the US if Cablevision had hung on or had Cablevision totally misjudged the market? With an established duopoly a third player entering rural areas, so presumably he believed that he could prove the market has to offer something pretty special. Consumers already had hundreds of channels from which to choose so essentially all Voom was offering was an additional 21 albeit unlikely that the 20% that had neither were going to be the in HD (and slightly more expensive subscriber equipment). Was that really enough to compete with two well entrenched needed consumers to ditch their existing equipment and serplayers? Judging by the speed with which the venture was vice provider in order to become a customer. That is a tough terminated the business plan must have called for a far more nut to crack. DIRECTV and Dish didn't require customers rapid take-up than what was achieved...and doubtless for a to get a new TV set, HD was an option added several years smaller loss than the US\$ 450 million that was reported for after launch. Granted Voom had 88 SD channels but they one quarter alone. Cablevision is reported to have sunk over were selling HD and therefore relying on a speedy uptake of US\$ 500 million into Voom, building and launching the one HDTV. A look at the adoption of color TV in the US where satellite obtaining slots for two others.

So, to go back to the original question: can anything be over 10 years to reach 10% penetration. HD was first introlearned from these failures? Unfortunately no one has a duced in the US in 1998 and with 6 million sets sold penetracrystal ball and totally unexpected events do occur, so no tion was approximately 5% of US households 6 years after business plan can be 100% bullet proof. However sound launch in 2004. A more dispassionate look would have realobjective market analysis based on solid research, taking into ized that HD was likely to follow a similar trajectory to color account not only the likely actions of competitors but also TV. (In fact it took just over nine years to reach 10% penepotential technology advances, ability to pay and most im-tration). Couple this with the fact that that Voom was an portantly historical adoption rates of comparable products unknown and challenging established and well known playcan make a difference

In the case of WorldSpace developing nations appear to be huge markets, but their ability to pay for the services they The well publicized failures of the original MSS systems in want or need has to be realistically factored into any business plan. By the time WorldSpace turned its attention to the potentially more lucrative markets of Western Europe, it had been hemorrhaging red ink for nearly seven years. O3b appears to have worked this out prior to its service launch. Initial presentations focused on connecting the "other 3 billion" to the internet by providing trunking and international gateways. This is still there but the maritime market, enterprise networks and path diversity for metro networks now also feature prominently.

Multi-nation services require multi-national marketing; that is to say multiple distribution agreements, marketing and advertising campaigns, payment mechanisms, landing rights, frequency coordination, and in WorldSpace's case programming as well. All of which have to be carried out in multiple languages with sensitivity to cultural issues—a very expensive and time consuming process. Something WorldSpace's original owners may not have had the experience to recognize.

In the case of Voom, Dolan was an experienced media executive, who had bucked the trend by cabling New York at a time when cable was considered the alternative to OTA for

"...sound objective market analysis based on solid research, taking into account not only the likely actions of competitors but also potential technology advances, ability to pay and most importantly 2005 for US\$ 200 million; a great deal for Echostar. Would historical adoption rates of comparable products can make a difference..."

> people wrong again. In 2004 approximately 80% of US households had either cable or satellite TV. It's highly early adopters of HDTV, therefore by definition Voom customers were required to swap out hardware in order to get a better viewing experience would have shown that it took ers and it seems likely that a more impartial view might have written the business plan differently.

> the 1990s have been examined and analyzed many times and there were a multitude of colliding factors that led to their demise, but the one that wasn't often mentioned was a simple belief that "mine is better." A belief probably shared by Cablevision when it launched Voom. When you're on the inside working on a new and exciting business it is all too easy to get caught up in the enthusiasm particularly where new technology is involved, and lose sight of the fact that not only does everyone not feel the same way, but there are a myriad issues to be factored in to a well constructed business plan.



Elisabeth Tweedie is the Associate Editor of Satellite Executive Briefing. She has over 20 years experience at the cutting edge of new communication and entertainment technologies. She is also the founder and President of Definitive

Direction, a consultancy that focuses on researching and evaluating the long term potential for new ventures, initiating their development and identifying and developing appropriate alliances. During her 10 years at Hughes Electronics she worked on every acquisition and new business that the company considered during her time there. She can be reached at: elisabeth@satellitemarkets.com