

Telemedia, Johannesburg

With Optimism for the Future – that is Peter Bretherick’s motto. He operates an uplink station in Johannesburg, South Africa under not exactly ideal conditions. Peter originally came from Great Britain where he worked for many years for the BBC. In 1970 he made the move to this region, almost 5 years before South Africa TV started transmitting. In 1980 he became self-employed: his starting capital was his garage, his spectrum analyzer and his four-wheel-drive SUV. His first contract was to erect T.V. Repeaters on the diamond mines of Botswana, followed by several contracts for the establishment of the new Bophuthatswana Television. He was successful and started his own company Telemedia in 1981. In 1987 he moved into a new building in Rivonia, a suburb of Johannesburg to the north, where he can still be found today. With only four employees back then, he handled the microwave links for the channels groups for the then MNET and SABC.

In 1994 it was finally time: South Africa’s Telecom placed an order for the first satellite uplink. Peter explained to us, “We were using a Patriot TVRO antenna and modified it into an Uplink antenna.” He recalled the first satellite uplink: “It was the Intelsat 704 satellite at 66° east.” Over the course of the next year things

began to pick up. His employee count climbed to 10 and there were more and more uplinks, occasional feeds and SNG transmissions. “The first live transmission out of Africa was the soccer match in Malawi in 1995”, comments Peter as he remembers his pioneer days. Today Telemedia employs more than 30 people of

◀ The 4.6-meter antenna to the left beams channels to HELLAS SAT 2’s South African beam at 39° east; the dish mounted on the taller mast is pointed to ISS 1 at 34° west, with 7° Elevation to the satellite



◀ The footprint of the South African beam of HELLAS SAT 2 at 39° east.

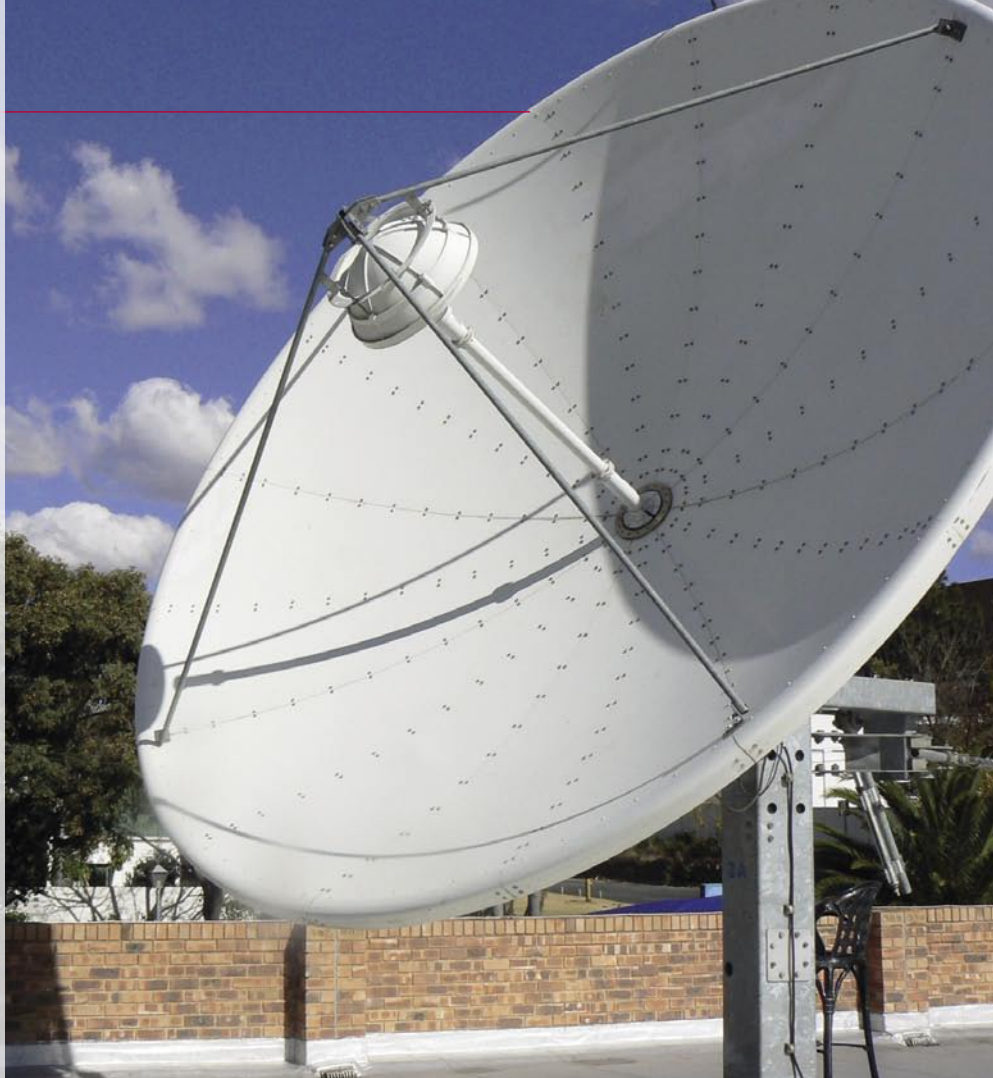


◀ The planned sub-Saharan footprint of SIRIUS 4 at 5° east to be launched towards the end of 2007.

which 20 of them are engineers, 10 are in administration plus a further eight security guards that (must) keep an eye on things 24 hours-a-day.


An interesting development in Africa has turned out to be the religious channels. Telemedia managed to find a gap in the market here. The company made available a number of different studios that handled all of the audio and video processing and, of course, the direct satellite uplink. There are an uncountable number of different religious groups in Africa and each of them wants their own TV channel. Telemedia offers all these religious communities the necessary infrastructure at affordable prices. The advantage is simply that the channel provider has to merely worry about the content of their programming and not, for example, about a diesel generator that would need to take over whenever there was an ESKOM (their local electric utility) power outage, and this happens more often than not. Since only a few of these religious groups operate with adequate financial support, Telemedia offers their services at very low but more than sufficient levels. Telemedia is the market leader in this area for that reason.

Peter has other reasons to be optimistic about the future: the South African telecommunication authorities is about to issue licenses for new satellite PayTV providers that should take effect in the Fall of 2007. This will be in direct competition to today's DSTV PayTV monopoly. Since the INTELSAT 7 satellite at 68.5° east




▲ Telemedia has more than 33 antennas – or maybe we miscounted and it is really a few more...here we see a 4.5-meter antenna to the left pointed to 7° east, a 7.3-meter antenna in the background aimed at AB1, a 6.5-meter antenna for 64° east as well as the 4.3-meter antenna to the right for INTELSAT 10 at 68.5° west. The small two-meter dish in the background

is pointed to ISS 12. We asked Clive Grove why the larger antennas are of a Gregorian type: "Performance is better, it can be better aligned and is easier to adjust." Don't forget: the larger the antenna, the smaller the beamwidth and therefore the more precise the antenna's alignment must be.



used by DSTV has no more capacity, the new PayTV providers will need to operate on new satellites. One possible candidate for this would be the HELLAS SAT 2 bird at 39° east. Some TV channels are already transmitting from this satellite's South African beam; SatcoDX discovered these channels back in May 2007. Who is handling the uplink for these channels? If you answered Telemedia, you would be right. But there are other candidates: the SIRIUS 4 satellite that should be launched towards the end of 2007 and be positioned at 5° east will have a South African beam. And there are even other potential satellites.

The satellite skies over South Africa are starting to get interesting. The more channels that are transmitted, the more inquiries that will arise not only for the transmission end but also for the receiving end of things. A new market is about to be born!



▼ A look at one of the studios from which religious channels are leased out.