



**PAV** Data Systems Ltd  
Digital Communications Specialists

# The Future of Optical Networking

PAV Data Systems Ltd  
"New Exporter of The Year 1999"

[www.pavdata.com](http://www.pavdata.com)

## Background

- Market leaders in the design, manufacture and installation of broadband optical wireless access systems
- Established 1994 after four years as a development company
- Technical direction from a leading developer with over fifteen years experience in Infra red technology

# GSM

- An Additional Solution for Transmission in GSM Networks



## Exponential Growth

- By the end of August 1999 there are 200 million GSM subscribers on 239 networks, in 137 countries world wide.
- It is estimated that there are
  - “Four new GSM subscribers every second of every day”
  - “By the end of 2005 there will be one billion GSM subscribers”

## Looking Ahead

- **Second Generation plus(2G+)**
  - High Speed Circuit Switched Data (HSCSD)
  - General Packet Radio Service (GPRS)
  - Wireless Application Protocol (WAP)
  - Enhanced Data for GSM Evolution (EDGE)
- **Third Generation (3G)**
  - Universal Mobile Telecommunications System (UMTS)

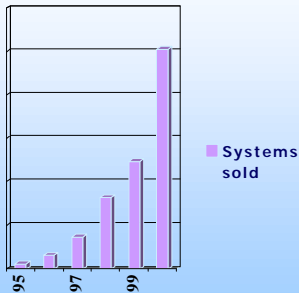
## PAV SkyNet™ - GSM Users

- Vodacom - South Africa
  - More than 200 links in service
  - £2m installed base
- MobiNil - Egypt
  - 150 links
  - £1.5m installed base
- MTN - Kuwait
  - 25 links installed
  - £250k installed base

## PAV Data Systems Ltd

Customers include the following GSM networks

- Vodacom, South Africa
- Motorola for Mobinil, Egypt
- MTC, Kuwait



## Growth Markets

“ISP”

PAV Data Systems Ltd  
“New Exporter of The Year 1999”

[www.pavdata.com](http://www.pavdata.com)

## Supercharging Internet Access

- An additional solution for transmission in Local Multi-point Distribution Services (LMDS) networks



## PAV SkyNet - LMDS Users

- PAV currently have operational LMDS infrastructures in
  - Australia
  - India
  - Korea
  - USA
  
- There are currently discussions ongoing for installations in 8 more countries

## Case Study 1

- Kingfisher Group- London
  - E.1 Link
- **PRODUCT HIGHLIGHT**
- Model E1 - 456
- 2 Mbs. Operating at 1000metres



## Case Study 2

- VODOCOM - South Africa
- To Cope with an Expanding GSM Market
- Rapid Deployment
- Cost Effective

## Broadband Optical Wireless Access

- Wireless Optical Networking is a cost effective alternative
- Standard products from 2 Mb/s to 155 Mb/s SkyCom & PAV SkyNet
- Rapid deployment (no licence required)
- Fast return on investment (less than 12 months, in MAN applications)
- PAV has acknowledged specialist skills in this field

## Computer Networking

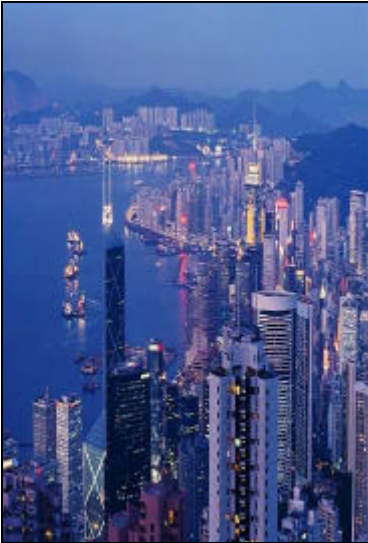
## Temporary Deployment



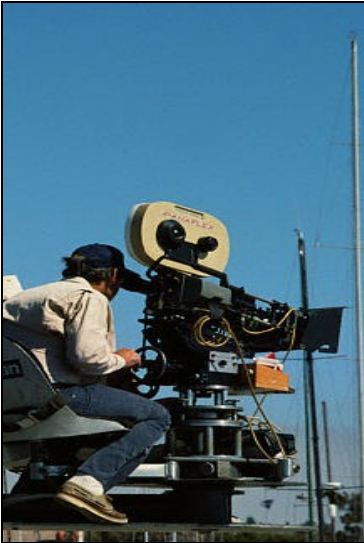


Data Systems Ltd  
Digital Communications Specialists

## Disaster Recovery



## Broadcast Applications



## Security Surveillance



## Test Reports

- **Russia**
  - Operational trial carried out under Russian winter conditions.
- **USA**
  - Test performed by independent test laboratory.