# **Satellite Broadband Services Provider**



Alternative (2 way) Internet Access via Satellite

Geneva, 11 December 2002



- Aramiska provides broadband data communications services to European SMEs
- Large and growing opportunity with very significant "residual" market not reached by terrestrial operators
- Unique, proven two-way high speed satellite access technology that provides up to 8 Mbps downstream and 1.5 Mbps upstream anywhere in Europe
- Company has 100% control of its network with no reliance on local PTT for provisioning
- Funded business with committed equity and lease financing already in place
- Service launched today in the UK, France and Spain and activities on Ireland and Netherlands with further sales roll-out planned in Italy and Germany
- Company has a very strong management team in place since mid-2000 with operations today in the Netherlands, Belgium, Spain and the UK



# Aramiska mission, vision and values

- Mission "To deliver broadband reality focused on businesses as an alternative to current providers"
- Vision To empower businesses by providing broadband and out-tasked on demand IT utilities thereby enabling them to:
  - Increase the efficiency of their operations
  - Provide first class customer support
  - Improve the effectiveness and knowledge of their staff
  - Focus on their core competences
- Values Aramiska's four core values are:
  - Operational excellence
  - Professionalism
  - Reliability
  - Commitment

### Investment Thesis



Ideally positioned to take advantage of today's evolving environment

- Continued growth in SME demand for broadband access and ISP services
- Constrained terrestrial broadband roll-out (DSL, WLL, Cable, Fiber) due to financing and technical limitations
- Hence large, untapped ("residual") market with pent-up broadband demand
- Unique low-cost two-way high bandwidth satellite connectivity solution now available:
  - ETSI standard (DVB-RCS) agreed in 2000
  - TCP-IP stack functioning
  - Powerful data satellites now available with full European footprint
  - Transponder pricing rapidly declining
  - CPE costs significantly decreasing
  - 100% coverage of whole of Europe possible from a single hub
  - Multicast ability to all subscribers
- Satellite solution provides very low breakeven number of subscribers with a highly variable cost base
- Hence very limited equity funding requirement (less than \$50MM to fully fund business vs. \$100MM's to \$ billions for terrestrial equivalent)
- First mover advantage Aramiska is the only operator of a European DVB-RCS network



# Aramiska's business model

- Managed IP network with full end-to-end control with focus on security and IT managed services
- Based on leased space capacity initially on Eutelsat Atlantic Bird 2
- Completely geared to business users, guaranteeing
  - Service availability
  - Installation time
  - Minimum guaranteed bandwidth
  - Minimum time to repair
- Direct sales model supplemented by indirect channels in the UK and through agents in the rest of Europe



Market Opportunity



# The Market Opportunity

Products

- Internet Access Internet Connectivity
- ISP email, Web hosting, firewall services
- ASP application and solution hosting

#### Customers

- SME 5-200 employees
- RSLC :Remote Sites of Large Corporations

#### **Growth Drivers**

- PC Penetration
- Internet Penetration
- Internet Use
- Use of Business Services





#### Competition

broadband reality

aramiska

### Only satellite can cover the entire target market

Summary of Technology Buildout

- Other terrestrial technologies are likely to take additional market share based on their incremental coverage over DSL
  - *Fiber*, albeit only a small market share in the SME market due to high price
  - Wireless local loop is slowed down by roll-out problems and a high cost base - additionally given backhaul costs, it is mainly an urban solution
  - Cable modem is now becoming available to SMEs, however, actual roll-out differs by country and significant investments are still required
- Broadband technologies therefore cover different segments of the broadband target market
  - DSL is expected to take Euro 4.8 Bn of the Euro 9.0 Bn market in 2004
  - WLL, Fiber, and cable modem provide incremental coverage and revenues of Euro 1.1 Bn
  - Satellite covers the total target market, and can cover about Euro 3.1 Bn without competing with other technologies

Note: Error margins apply to technology market share estimates. The terrestrially "uncovered" Internet Access market amounts to  $\in 1.1$  Bn.

Source: Company Interviews, BA&H expert interviews





Pricing area Aramiska's Internet access offer and pricing is competitive to comparable terrestrial and satellite offerings "агамізка broadband reality Pricing compared to established operators **Example: Internet Access** Euro per month 1,969 1200 Assumptions **Results** 774 Installation and CPE cost Aramiska priced below depreciated over 36 DSL. leased line and 708 months satellite operators 170 hours dial up per Cheaper offers have 553 month limited availability (cable) or lower (sat. hybrid / 1 GB transfer volume for ISDN) bandwidth always on connections 420 Aramiska per month Aramiska pricing of other bundled services is highly 285 competitive 249 Leased WLL (1) Other DSL Sat Hybrid **ISDN** Cable Line Satellite (avg)

(1) Flat-Rate offer. WLL has limited geographic availability. Price for WLL given with the same assumptions as other technologies.



#### **Achievements**



### Aramiska's achievements

-End 2000 business plan finished and funded.

- -1 January 2001 creation of the company in the Netherlands.
- -During the exercise of 2001 the network was created and the organization was put in place.

-In Q1 2002 fine tuning and tests of the end to end network

-The first April 2002 Aramiska goes commercial.

-Offices in the NL, BE, UK and ES

**Achievements** 

# Maramiska broadband reality

# -The network has been proven to be stable and surpasses the terrestrial network quality.

Aramiska's achievements end Q3 2002

-Achieved a 1000 customers and 600+ installs.

-Is able to install up to 20 new clients a day.

-C.S. experiences and managed a boom of calls and is concentrated on operational excellence.

-Aramiska invested in people and systems for billing and collection.

-Aramiska hired 34 employees in Q3 2002 and has a headcount of 109 employees and 8 contractors

**Objectives** 



### Aramiska's objectives for the next 18 months

-Obtain 7000 customers by end 2003.

-Become cash flow positive by end 2003

-Be the number one alternative.

-Capitalize on investment.

-Operational excellence.

#### Market experience

## Today's market knowledge



- 20% of orders is with one SIC code (72200: Software consultancy and supply)
- 7% of orders is multiple site (excluding BI)
- 17% have activated some form of VPN, (11% PPTP, 2% IP-sec, 4% both)
- Arc Spread:
  - Arc1 16%
  - Arc2 32%
  - Arc3 33%
  - Arc4 8%
  - Arc5 11%
- 60% of customers do not transfer their domain to us
- 55% is of using the ARC mail or local mail server, of which:
  - 36% is using an Aramiska sub domain
  - 15% has an own customer domain name
  - 4% has no domain name
- 70% do not use DHCP
- 65% of orders is with companies with more than 20 employees

#### Strategy

### Strategy next 18 months





-All employees aligned and re-aligned.

- -Simplified and frozen the service portfolio.
- -Capitalize on investment and operational excellence.

# New packages



**Service definition** 

| Packages  | Arc500    | Arc1000   | Arc2000   |
|---|-----------|-----------|-----------|
| Maximum speed<br>in kbps  |           |           |           |
| Forward   | 512       | 1024      | 2048      |
| Return  | 128       | 256       | 512       |
| Typical speed on<br>return and forward<br>link<br>(80% of the time) | 60%       | 60%       | 60%       |
| Guaranteed<br>minimum speed in<br>kbps                              |           |           |           |
| Forward   | 64        | 128       | 256       |
| Return  | 32        | 64        | 128       |
| Monthly transfer  | Unlimited | Unlimited | Unlimited |
| Maximum number<br>of PC's   | Unlimited | Unlimited | Unlimited |
| Web space   | 100 Mb    | 100 Mb    | 100 Mb    |

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Pricing

### Lease option

Maramiska broadband reality

| Lease option<br>with direct debit form  | Arc500    | Arc1000   | Arc2000   |  |  |  |  |
|---|-----------|-----------|-----------|--|--|--|--|
| MRC EU, Euro's  | €299      | €399      | €699      |  |  |  |  |
| Installation  | €750      | €750      | €750      |  |  |  |  |
| 375 Euro's in case of direct payment, or in 12 months 70 Euro's on top of the MRC |           |           |           |  |  |  |  |
| Minimum contract length   | 36 months | 36 months | 36 months |  |  |  |  |
| Termination contract  | 18 (+1)   | 18 (+1)   | 18 (+1)   |  |  |  |  |
| Notice period for termination   | 1 month   | 1 month   | 1 month   |  |  |  |  |
| Relocation  | €1250     | €1250     | €1250     |  |  |  |  |
| Change at same location   | €1250     | €1250     | €1250     |  |  |  |  |
| Activation fee  | 0         | 0         | 0         |  |  |  |  |
| Deposit   | 0         | 0         | 0         |  |  |  |  |

Pricing

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## Purchase option

| broadband |  |                |                |                |  |  |
|-----------|--|----------------|----------------|----------------|--|--|
|           | Purchase option,<br>with direct debit form                         | Arc+500        | Arc+1000       | Arc+2000       |  |  |
|           | ODU and IDU sold to the customer, ARC remains property of Aramiska |                |                |                |  |  |
|           | Initial fee EU   | €4900          | €4900          | €4900          |  |  |
|           | MRC EU   | €149           | €249           | €549           |  |  |
|           | Installation   | 0              | 0              | 0              |  |  |
|           | Minimum contract length  | 11 (+1) months | 11 (+1) months | 11 (+1) months |  |  |
|           | Notice period for termination                                      | 1 month        | 1 month        | 1 month        |  |  |
|           | Relocation   | €1250          | €1250          | €1250          |  |  |
|           | Change at same location  | €1250          | €1250          | €1250          |  |  |
|           | Activation fee   | 0              | 0              | 0              |  |  |
|           | Deposit  | 0              | 0              | 0              |  |  |
|           |  | 1              |                |                |  |  |

**Service features** 

### Aramiska's added values



-<u>Access</u>:

DVB/RCS Availability Long FAT network support SLA -<u>Security</u> End to end **Firewalls** VPN NAT -IT managed services DCHP Caching and DNS CS 24/24 7/7 365 Mail server Storage Domain name and un-limited Email addresses 100Mbyte Web space

#### **Future features**

### New developments



Internal developments 2003

- Data transmission improvements
- Extra support for customer VPN
  - Compliance testing with CISCO equipment
- Multiple domain names per ARC
- One domain name to support multiple ARC
- Virus checking on email
- 90 cm dish
- Multicast solution for maintenance purposes
- Pre-fetching of WEB-pages

External developments 2003

Mobile solution by Dawson