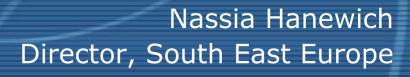
#### VoIP Benefits and Obstacles









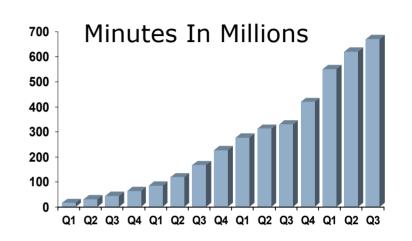


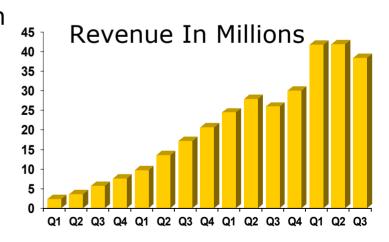


#### iBasis Overview

#1 International Wholesale Carrier\*

- One of 10 largest carriers of international traffic
- Global Footprint The iBasis Network
  - 90 countries; 700 PoPs
  - 160+ international carriers
- 2002 Revenue (est.): \$180 200 million
- Annual run-rate > 2.5 billion minutes
- Average daily minutes: 7.6 million

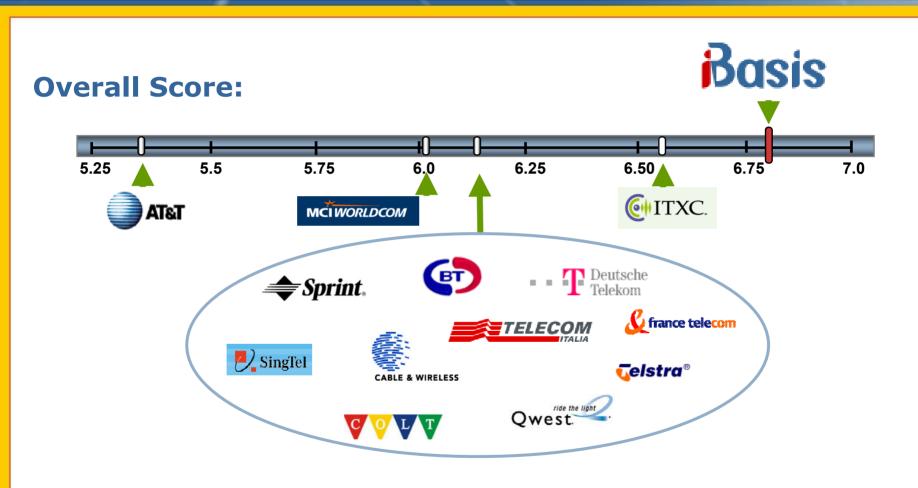




<sup>\*</sup> Atlantic-ACM 2002 Carrier Report Card

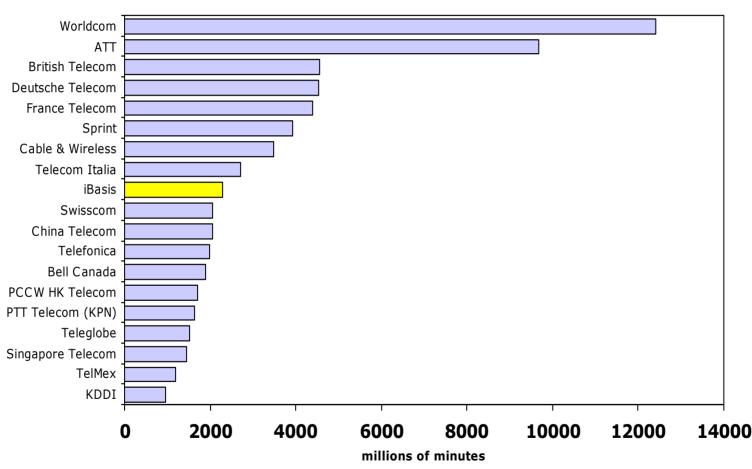


## iBasis Named #1 International Wholesale Carrier





## One of the Top International Carriers



Source: Telegeography 2002

\*iBasis based First Half '02 traffic volume



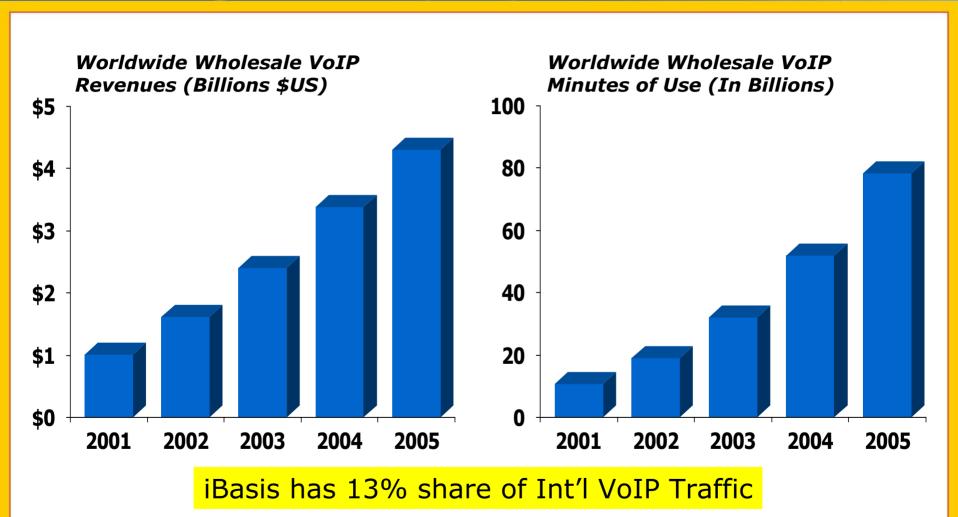
## International Telecom: Large and Growing

<u>Indicator</u>	<u>1990</u>	<u>1995</u>	<u>2000</u>
Revenues from Int'l Traffic (billions of US\$)	\$37	\$55	<b>\$70</b>
Minutes of Int'l Traffic (billions of min.)	33.5	61.6	132.7
Countries Permitting Competition	6	18	49
Top 20 Carriers' Share of Traffic	86%	72%	50%
Market Share of New Carriers	<1%	5%	31%

Source: Telegeography 2002



## Explosion in Worldwide VoIP







#### iBasis Services

- International Wholesale Voice Services
   Origination and termination of voice and fax traffic
- IBOxpress
   Enables Carriers to Originate and terminate international traffic and prepaid traffic over the iBasis Network w/o capital expense
- IP CallCard
   A full turnkey prepaid & postpaid platform leveraging the iBasis IP infrastructure
- ConnectPoint Global Access services
   Local access numbers that terminate to service
   providers' platform, conference bridges, prepaid
   server or IVR in any location and country



## Breadth & Depth of International Coverage

#### Meet carriers needs

- Comprehensive outsourced worldwide coverage
- Full country coverage with overflow capacity & redundancy
- Termination in select destinations using iBasis direct routes

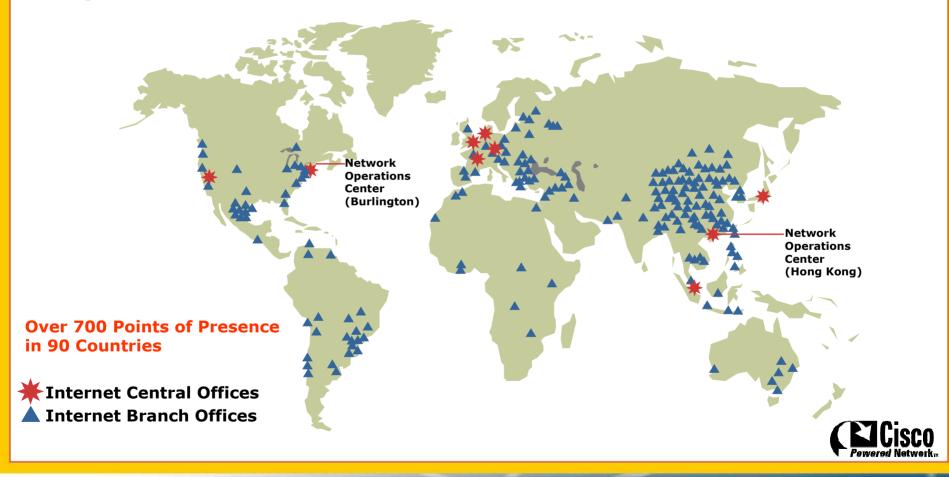
#### Match carriers' requirements

- Competitive prices
- Completion rate
- High quality



## The iBasis Network™

Largest International Cisco Powered Network for Voice on the Internet





## Challenges facing South East European carriers

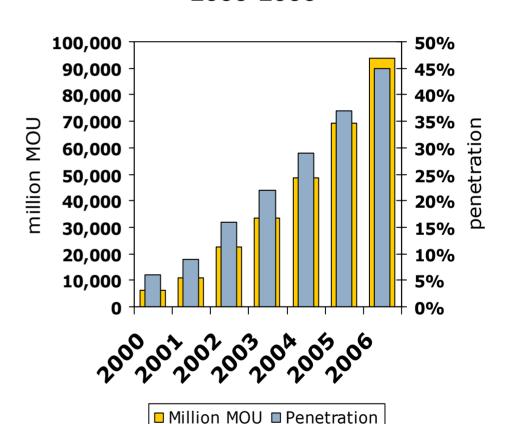
- Diverse regulatory frameworks and markets
- Low teledensities and underdeveloped infrastructure
- Lower level of foreign investment
- Rapid progress towards modernization & liberalization
- Growing demand for services



## International VoIP: Strong and Growing

- Improves service margins
- Efficiently expands global reach
- Provides competitive advantage
- Quality indistinguishable from PSTN
- Penetration on many routes exceeds 20%
- 6% of global traffic –
   double the level in 2000

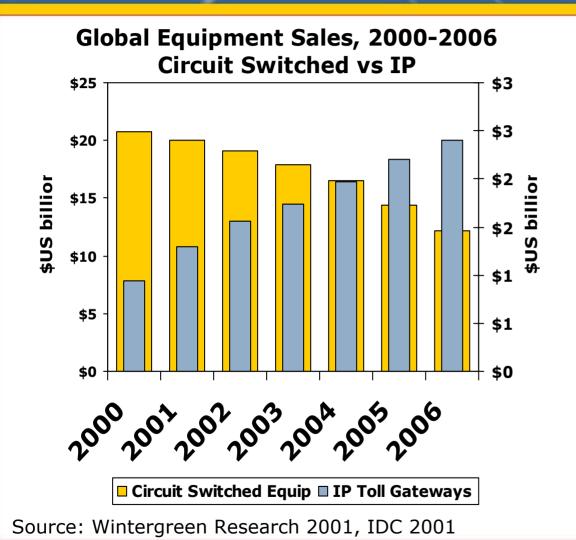
## International VoIP Forecast, 2000-2006



Source: TeleGeography 2002, Probe Research 2001



## Global Circuit-switched Deployments Shrinking

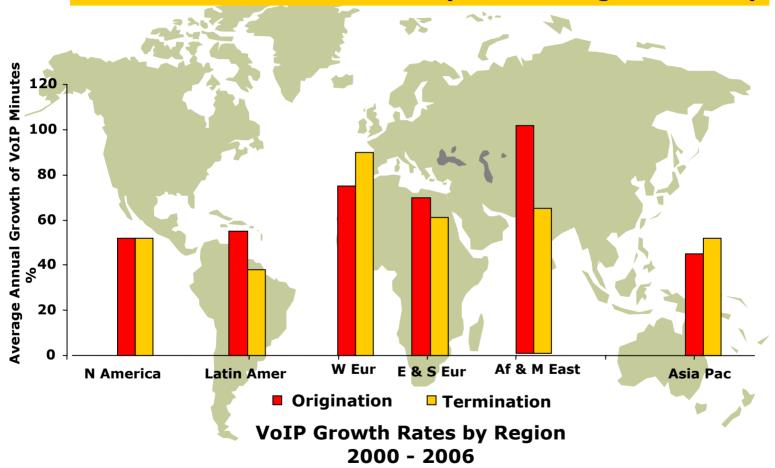


- VoIP equipment deployments growing
- Circuit-switched equipment deployments declining
- VoIP being adopted by leading carriers
  - -Cable & Wireless
  - -BT
  - -SBC
  - -China Unicom
  - -Sprint



### VoIP: A Worldwide Phenomenon





Source: Probe Research 2001, TeleGeography 2002



# Same Trend Underway in South East Europe

#### Varying markets

- Regions
- Regulations
- Infrastructure capacities
- Economic development
- Culture and history

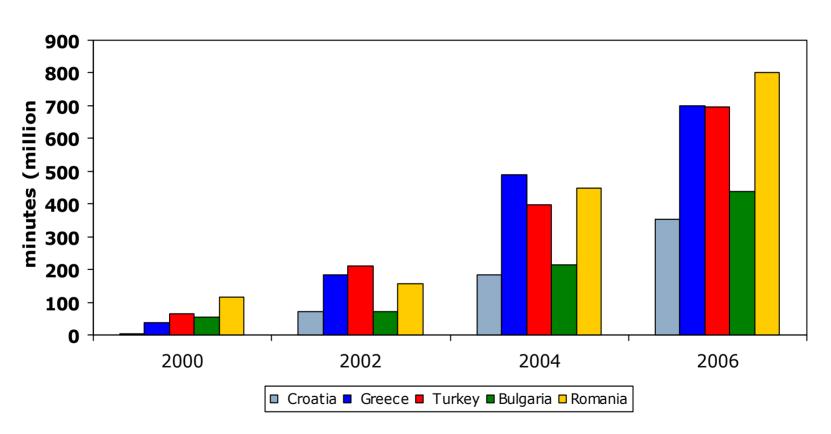
#### Same VoIP Benefits

- Lower costs
- Improved service
- Increased access & connectivity
- Advanced technology transfer
- Economic development



## South East Europe Seeing Growth in VoIP Termination

#### **International Inbound VoIP Traffic**

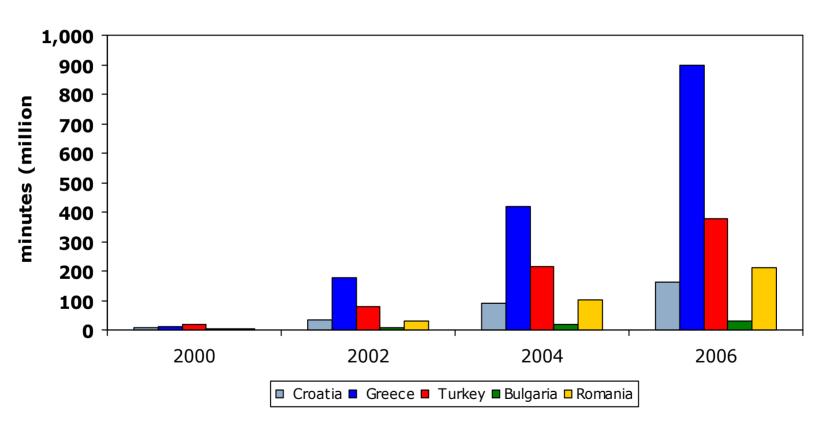


Source: Probe Research 2001



## **VoIP Origination Also Growing**

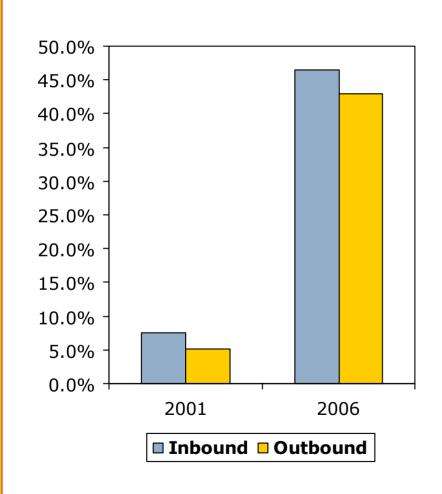
#### **International Outbound VoIP Traffic**



Source: Probe Research 2001



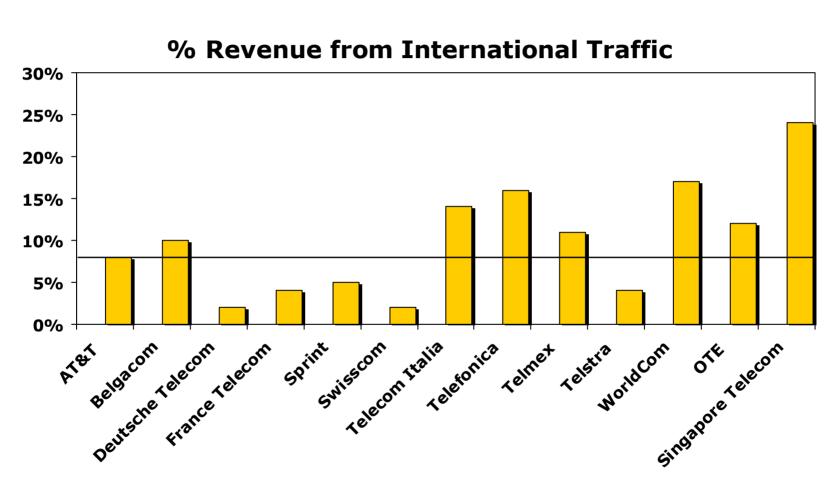
## VoIP Penetration in South East Europe



- VoIP penetration will increase four-fold in the next five years
- iBasis traffic in the region grew 217% from Q3 00 to Q3 01



## International: Not Core for Most Major Carriers



Source: TeleGeography 2002



## Major Carriers Adopting VoIP

















































The Communications Authority of Thailand





## **OTEnet Case Study**

- Interconnection with The iBasis Network for global Internet Telephony since 2001 OTE, the national carrier of Greece was privatized
- Accelerate creation of a new, fast-growing international service, offered by the OTE ISP subsidiary, OTEnet
- Over past 8 months, The network has supported a nearly ten-fold growth in OTEnet's international traffic.
- OTEnet routes international voice traffic over The iBasis Network™ through an iBasis Internet Branch Office (IBO) facility, enabling an efficient, low cost, high quality IP-to-IP interconnection



## The Move to VoIP in The Region

- Predicted to post four-fold growth in VoIP traffic by 2006 (Probe Research 2001).
- iBasis provides international service in Bulgaria, Greece, Romania, and Slovenia
- More than 45 European carriers are connected to iBasis for international service
- Traffic growth in Southeastern Europe: + 173% from 2000 to 2001



#### VoIP is Poised for Growth

- Governments see VoIP as "Leapfrog" technology, growth driver
  - China
  - Latin America
  - Africa
  - Central & Eastern Europe
- Opportunities to capture new revenues
  - International service expansion
  - Value-added services
- Carriers outsourcing international service to VoIP providers to focus on "core" domestic businesses
  - Fixed-line
  - Wireless, etc.



## VoIP: Threat or Opportunity?

- Reduces capital expenditure, operational & transport costs
- Helps manage settlements
- Provides instant global footprint
- Offers access to new markets
- Enables new services
- Delivers PSTN reliability & quality



## Thank You







