

Mobile Computing made for You

Presented by Ravi Desiraju, CEO Encore Technologies, Singapore NEW WAYS TO EMPOWER INDONESIA WITH INTERNET & ICTs CONFERENCE AUG 26, 2003

- Simputer The Motivation and Beginnings
- Encore Technologies
  - **Commercialization Role**
- Simputer as a Platform
- Early Examples
- Initiatives on the roadmap



- "Facilitate the availability of a range of computers, including cable-TV, modified telephone instruments, and rugged, lowcost, hand-held devices, along with traditional computers, for purposes such as information gathering, communication and transaction processing"
- "Avoid blind transplants of I.T. solutions, proven in other infrastructural and cultural contexts, and instead, nurture local expertise that can adapt I.T. solutions to meet local requirements."
- "Devise measures to create thriving markets for local language content and applications"

The story of the Simputer began at a similar forum four years ago



- Simple, easy to use, low-cost
- Independent of mains power
- Rugged, dust-resistant
- Shareable
- Meaningful, must make an impact on daily life
  - Education
  - Earning a living
  - Communication
  - Entertainment
- Innovative use of hardware and software to develop *uniquely local solutions for uniquely local needs*



- Handheld device, designed to be shared
  - Smart card facilitates personalization and security
- Simple to use
  - Icons, Graphics, multi-lingual text
  - Voice Feedback in Local Languages
- 2x AA batteries (rechargeable)
  - commonly available anywhere
- Rich in interfaces
  - Built-in modem
  - Smart Card
  - Infra-red Data Access
  - USB port
  - Audio



- Images and sound primary output
- Touch is the primary input
- Multilingual text output and input possible for literate users
- Not restricted only to the English educated and elite





Nov 2001 Lab Prototype



2002-2003

Field Prototype with Base Unit and Expansion Cradle "Innovation of the Year 2001" – New York Times.

Applauded and featured in BBC, CNN, Time Magazine, Fortune Magazine, National Geographic, Asia Inc Magazine and numerous other forums and publications



Sept 2003 – Mass Production Version Now Market Ready

#### Most Versatile Hand-held Computer in the market today





- Established in Feb 2002 as a Joint Venture between Singapore based Time2Talk Pte Ltd and ESL
- Building a global community to deliver value in core sectors of economies and leveraging strengths of all members of the community
- Focused on Industry Vertical Applications for Mobile Users in Enterprise & Institutional Markets

Vision – Be a leader in Application-specific Mobile Computing in the industries we serve



Our main constituents & roles

 Intellectual Property rich Indian R&D house chooses Singapore as "commercialization hub"



Encore Technologies (S) responsibilities

- Marketing road map and partner relationships
- Commercial Manufacturing
- R&D plans, product collaboration plans



- Encore Software responsibilities
  - IP Support for Commercialization
  - R&D Execution



- Identify & satisfy unique requirements for computing faced by Governments and Enterprises
- One size does not fit all
- Different application needs have different design considerations
- Our unique value proposition is to provide a tailor-made solution
- With a sound technology base, we can offer Simputers in many form factors, many price points

Paradigm Shift from Product to *Platform* 



to market **Applied Data** HNC Ability to change offering **Typical Embedded Solution Developers** 



**Ability to Produce Competitively** 



# Building a community around the Simputer

- Partnering with software developers to build tailor made solutions for many verticals
- Modifying hardware for different needs – design partnerships
- Supporting wide variety of peripherals – value adding to other products

- Cross leveraging
  opportunities for partners
- Fostering partner collaboration through communication & joint initiatives
- Built a partner solution portal
   www.simputerland.com to

showcase solutions and bring partners together



#### Simputer Product Development

Solution Partnerships

#### Channel Partnerships

ODM "Customized" Platform Development Contracts

Partner Developed Market Strategy



- Handheld Solutions
  - Multiple Screen Sizes
  - Multiple Interface Options
  - Multiple Wireless Connectivity Options
- Embedded Solutions
  - Industrial Device Controller
  - Internet Camera Blackbox
  - Wireless Terminal
  - Linux Thin Client Terminal

# Simputer – Meeting many unique requirements with unique solutions



Smart card to meet authentication, personalization and Financial transaction needs

Monochrome and Color with touch screen. Meet many application requirements and budgets

Microphone & Speaker. Full fledged audio support including recording



### Interface Options to meet any requirement



USB Host. Multiple USB devices supported Multi-I/0 Port USB connection to PC Connection to Serial Protocol Devices & Expansion Sleeves VGA Connection to Display or Projector





4- 6 hrs battery life on 2 AA NiMH rechargeable cells Solar Powered Battery chargers available for NiMH batteries



#### Multiple Options for Wireless Connectivity





## Multiple form factors to meet different needs



Tablet Version to meet requirements ineLearning, Healthcare, Hospitality, Logistics

**8" Screen. Portable Device + Docking Station.** 

Target to launch – Q1 2004





### Solutions



Multiple Wireless Options Wireless LAN GPRS/GSM/CDMA GPS Slim & Lightweight - < 1Kg More than 10 hrs battery life Rugged

Standard Interfaces – keyboard, mouse, Ethernet network, Dial –up modem in Docking station.

Full functionality of Notebook computer MINUS COST MINUS BURDEN



#### Simputer Embedded Device Controller



Remote Monitoring Solution for US MNC No LCD Screen. Integrated Web Server and FTP Server Secure Remote Log-in "Minimal" Server – Small Foot print, Low Cost

**Can be Embedded in any Microprocessor Controlled Equipment for "Device Networking"** 



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#### **Current Initiatives**

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### Pioneer Implementations in process

- Government Land Records Updation & Crop Data Collection, India
- Utility Meter Reading & Billing, India, Mauritius
- Field Statistical Surveys, Malaysia
- Loyalty Card Programs, Saudi Arabia & India
- Community Health Care, India & Africa
- Logistics Solutions Japan, Singapore, India
- Traffic Police, Offense Management
- Health Care Solutions, Singapore
- Asset Tracking & Management, Malaysia
- Online Learning, Singapore, India, US
- Remote Maintenance, USA, Japan



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