ASTRI:

Building the Technology base for Hong Kong's Future

楊日昌 Robert J. Yang, CEO

香港應用科技研究院股份有限公司 Hong Kong Applied Science and Technology Research Institute Company Ltd. (ASTRI)

April 22, 2005

ASTRI

• Hong Kong's center for applied science and technology research (established 2001)

• Current status

- Strong group of 200+ researchers already doing worldquality research
- making plans to become an impact organization that creates substantial commercial and industrial values from technology





Hong Kong's Comparative Advantages in Technology

- **Position:** the only "first world" location in all of Greater China (business, legal, living, compensation)
- **People:** possesses better factor conditions to attract the best Chinese technical professionals than anywhere else in Greater China
- **Resource:** substantial ready R&D funding to launch worthy technology programs

Customer-focused R&D

- Build customer focus into every aspect of R&D
 - > clear ideas who the project's customers are.
 - > formulate project according to customers' strategic needs.
 - > ability to entice customers to work as partners.
 - > deliver industrial impact "predictably" through planned targets.
 - > expedite customer impact through technology sourcing.
- Offer unique growth opportunities for researchers
 - > gaining domain knowledge through the challenges of customerfocused R&D.
 - > create better spin-off opportunities with customers as partners.
 - > merging world-class research with commercialization skills.
 - ➤ technology leadership in the "China Decades".

ASTRI Objectives 2009

- To become one of Greater China's most customerfocused applied research institution by ...
- continuously delivering a substantial volume of worldclass technologies in very accessible ways ...
- to the growing local technology industries in Hong Kong, Pearl River Delta and all of Greater China ...
- and in so doing, position Hong Kong as a vital driving force for the region's technological future for years to come.

ASTRI Strategy 2005 - 2009

- Build human resource edge for technology leadership in all of Greater China.
- Establish customer-focused R&D approach and organisational culture.
- Ramp up to critical mass within the five-year opportunity window.

Critical Mass

• Input

- **Research Force: from 200 to 800 in 2009**
- **> R&D** resources: from HK\$ 100 M to 600 M
- Subsidiary R&D bases in China
- >World-class research facilities and tools
- Output (planned 2009)
 - ≻ Patents: 200+ annually
 - Licensed technology transfers: 100+ annually

ASTRI R&D Focal Point: Enterprise and Consumer Electronics



ASTRI R&D Focal Point: IC Designs



ASTRI R&D Focal Point: Wireless Communications



ASTRI R&D Focal Point: Material and Packaging Technologies



Surface and interface technologies Photonic chip processing

Enabling Technologies

Electrochemistry

3-D packaging

ASTRI and Hong Kong's Future

- If Hong Kong can effectively utilize its comparative advantages ...
- it will go beyond its boundaries and become an important driving force in the growth of technology industries in all of China ...
- ... and ASTRI's role is to spearhead this great mission.

... Be a Part of This Future

- We are looking for achievement-oriented technical professionals to play critical roles for this challenging journey ...
- and these challenges will provide the unique learning and growth opportunities that build leadership careers in and beyond ASTRI.

Thank You and

Please access our Website

WWW.ASTRI.Org

for more information about ASTRI