

# Focus on China Panel Session

Perspectives of Semiconductor Assembly Manufacturing in China

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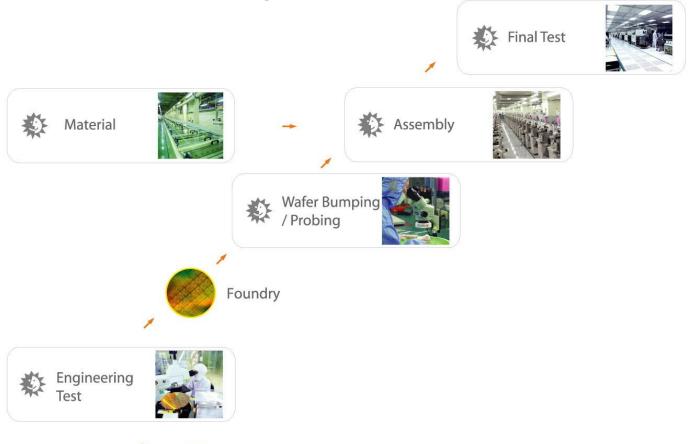
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## Semiconductor Assembly Manufacturing Value Chain









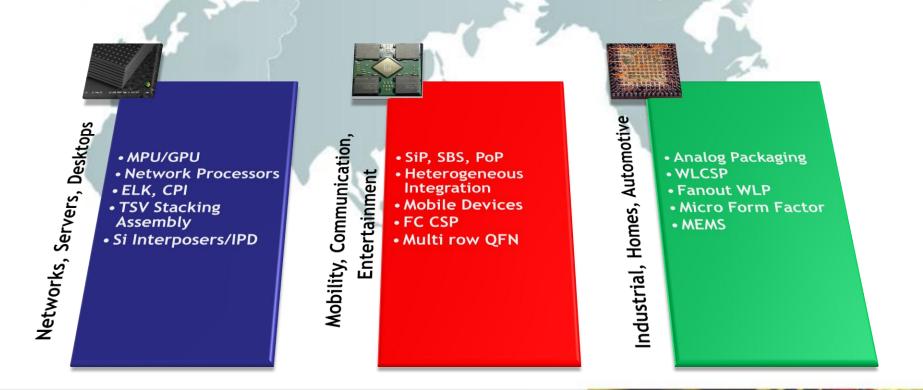
Services Offered by ASE Group

#### What does ASE offer?



- Full Turnkey Service
  - Assembly
    - Test
  - Substrate
    - EMS

- Lowering Cost/Creating Value
  - Cu Wire Bond
  - High Density Matrix
  - Low Pin & Discrete
  - Economies of Scale



#### Investment in China



- Strategically located within China Semi Cluster
  - Proximity, efficiency, easy access
  - Desirable location for customer supply chain access
- Knowledgeable educated human resources
  - Universities & research institute
- olnvestments and infrastructure
  - Long term vision and plans



#### **ASE Worldwide Locations**



ASE Weihai, China







Paju, Korea





Shanghai, China (A&T)



Takahata, Japan



Kunshan, China







Singapore

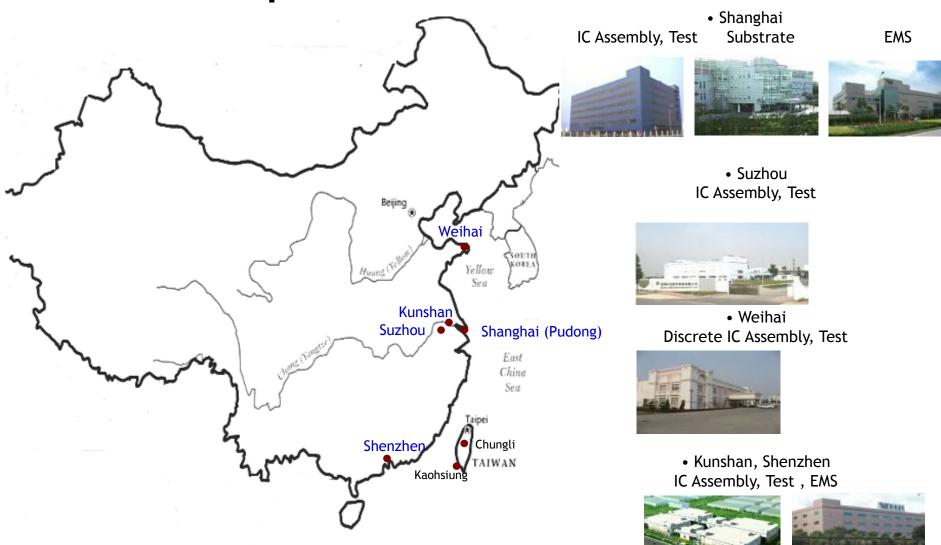


Penang, Malaysia

- Sales and Representative Offices
- IC Service
- System Service

#### **ASE's Footprint in China**





#### ASE Shanghai Assembly Facility





Total Floor Space: 88,000 m<sup>2</sup>

- BLDG #1: 33,000 m<sup>2</sup>

- BLDG #2: 33,000 m<sup>2</sup>

- BLDG #3: 22,000 m<sup>2</sup>

- Early Floor Space and Capacity Readiness
- Close to local foundries / substrate vendor

#### **ASE Shanghai Housing Center**

Total landscape 77K M<sup>2</sup>

Total floor space 21K M<sup>2</sup>

15 min drive from Shanghai factories

>30 buildings with 6000 rooms

Dormitory from Engineers & Operators







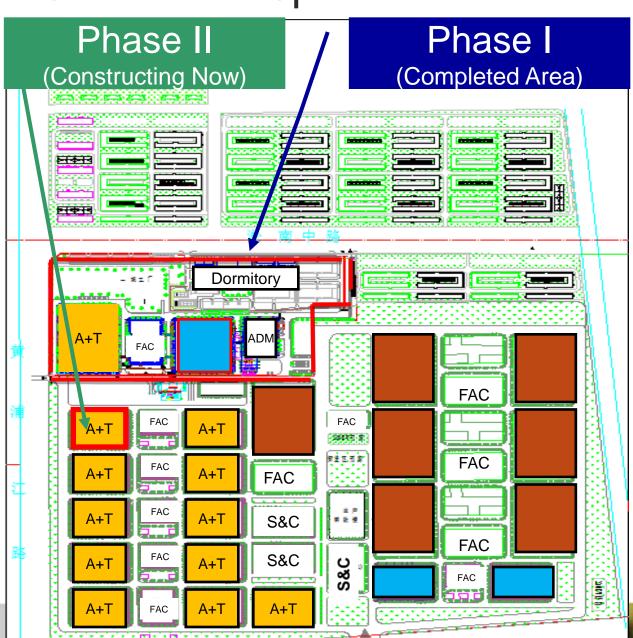






#### ASE Kunshan Space Plan

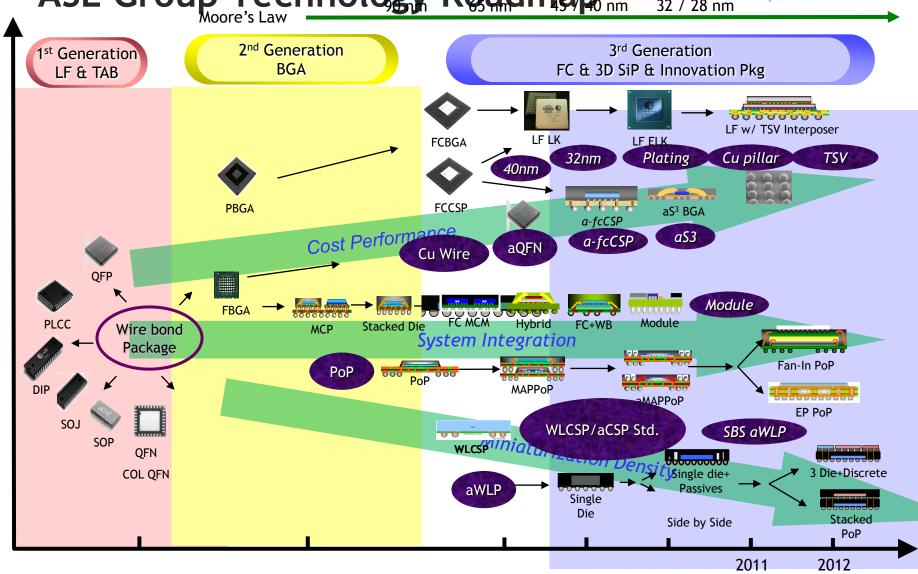




- Overall Land Space: 1,073,998 m<sup>2</sup> (256 acre.)
- Operation Area is about <u>10</u> times larger than ASESH

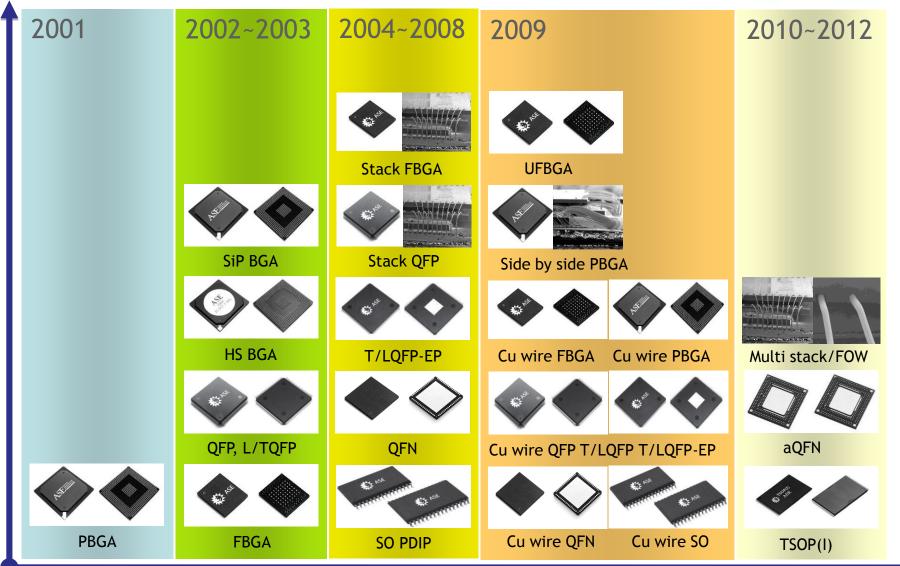


ASE Group Technology Roadmap nm 32 / 28 nm



### **ASESH Package Milestone**





### ASE Shanghai Revenue



