



## Agenda

- 1. Company briefing profile
- 2. Asia technology center capability



## Company Profile - Corporate Evolution

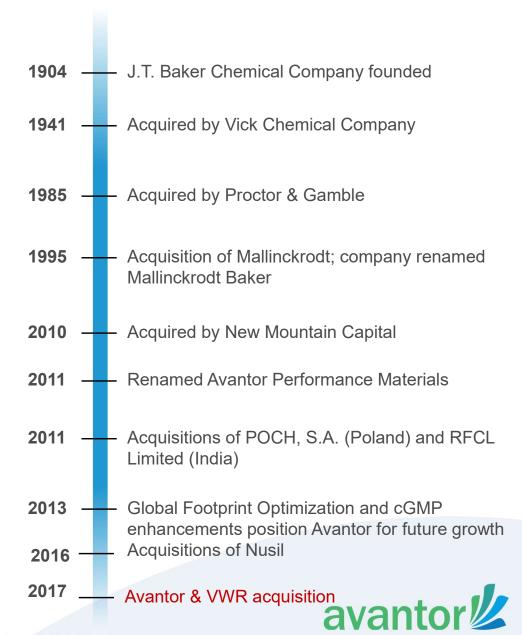
#### A Foundation of Excellence



In 1904, John Townsend Baker founded the J.T.Baker® Chemical Company with a mission to produce chemicals of the "highest degree of purity commercially available."

### J.T.Baker® brand Legacy of performance

- First to include lab results listing trace impurity levels on labels
- Used to manufacture munitions and medicines during WWI
- ULTREX brand phosphorous pentoxide was used by scientists to study and analyze lunar samples from the Apollo 11 mission





- cGMP
   manufacturing in
   three regions: U.S.,
   Europe, India
- Four cGMP manufacturing facilities
- Research &
   Applications
   facilities in the U.S.,
   India and Taiwan
- Global sales and support
- Distribution network covers 80+ countries



## Global Manufacturing Footprint

#### Phillipsburg, US

- Manufacturing, packaging and distribution of multiple grades of high-purity solvents, acids, salts and bonded phase products
- ISO 9001 and 14001 certified; FDA registered

#### Paris, US

- Manufacturing, packaging and distribution of multiple grades of high-purity solvents, acids, salts and bonded phase products
- ISO 9001 certified; FDA registered

#### **Mexico City, Mexico**

- Manufacturing, packaging and distribution of multiple grades of solvents, acids and salts
- ISO 9001 certified

#### Panoli, India

- Manufacturing, packaging and subdivision of chemical excipients, biopharmaceutical materials and high-purity solvents
- ISO 9001 certified and Indian FDA approved manufacturing facility

#### Gliwice, Poland

- Manufacturing, packaging and subdivision of pharmaceutical and biopharmaceutical intermediates, analytical reagents, organic and inorganic compounds, laboratory chemicals and reagents for food and beverage.
- ISO 9001 and 13485 certified;
   FAMI QS and AQAP certified

#### Dehradun, India

- Manufacturing, packaging and distribution of diagnostic materials and kits
- GMP certified with local FDA;
   CE certification for hematology products



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# Taiwan Technology Center "Collaboratory"



## Collaboratory = Fast Response to Customer

Build up World Class Research and Application Lab

Solve customer's concern:

Wafer & Process confidential

**Solve Q-time issue:** 

Minimize Q-time impact

Solve cycle time issue:

Meet customer's need

We can be customer's virtual fab to create win-win situation!











	inirastructure	Application
	Class 100 Clean Room	• 12" wafer process & analysis
	Class 10 Chemical manufacture	• Chemical blending system in the class 10 clean environment
(		N5 node chemical manufacture

## Taiwan "Collaboratory" Equipment List

Equipment	Purpose	Supplier/Model
Process tool	Process optimization on-tool optimization	
Single Spin Tool	<ul><li>Process simulation/ full loop wafer demo</li><li>Chemical live demo</li></ul>	SEZ ( LAM) SP 305
Wet Bench Tool	<ul><li>Process simulation</li><li>Chemical live demo</li></ul>	GPTC
Particle Counter	<ul><li>Particle defect verification</li><li>Meet advanced tech. node requirement</li></ul>	KLA/ SP2
Analysis tool	Analysis of chemical component	
XRF	<ul><li>Ultra-thin film thickness measurement</li><li>High-k material measurement</li></ul>	Rigaku/ ZSX-400
SEM/EDX	<ul><li>Surface &amp; material analysis</li><li>Wafer performance check</li></ul>	Hitachi/SU 8040
Optical Microscope	<ul> <li>Surface morphology analysis</li> </ul>	Olympus /STM6
GC	Chemical component analysis	Agilent / Model 6850
Ellipsometer	<ul> <li>Low-k film thickness measurement</li> </ul>	Mikropack/SpecEL-2000-VIS
Titrando	<ul> <li>Chemical component analysis</li> </ul>	Metrom
LPC	Liquid particle analysis  TARY For integral use only not for external distribution.	Rion KS-42BF/ KS-19F

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