









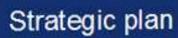
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## bioMérieux 2012

## Slide from the January 17, 2007 presentation





### Staying ahead of a changing market

### From a strategy focused on the laboratory

- Infectious diseases, oncology and cardiology
- Industrial applications

## To a strategy focused on pathologies and clinicians' needs

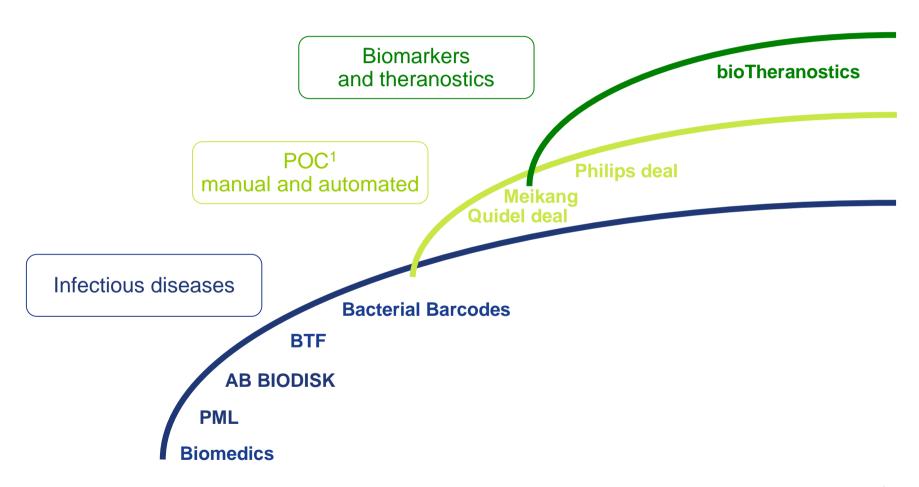
- Infectious agents: clinical and industrial applications
- Tests delivering high medical value
  - Oncology
  - , Cardiology
  - Point-of-care tests
  - > Theragnostics: therapeutic + diagnostics







## New sources of growth





## Point of Care, a major growth driver

- Point of Care POC test: definition
  - Performed and interpreted in close proximity to the patient (≠ in a centralized lab)
  - Used by a physician or a nurse (≠ a laboratory specialist)
- ▶ An estimated market of  $\simeq$  \$4b
  - **■** U.S.  $\simeq$  65% of the market
  - Average growth rate ~ 10% a year

bioMérieux POC strategy	Launch
<ul><li>Manual rapid tests</li></ul>	
<ul> <li>QuickVue<sup>®</sup> tests: distribution agreement with Quidel</li> </ul>	2008
<ul> <li>Meikang Biotech rapid tests following acquisition</li> </ul>	2010
<ul> <li>Handheld diagnostic solution - Partnership with Philips</li> </ul>	2013

A critical capability for theranostics (used by physicians)





Based on internal studies – Including rapid tests, professional POC and POL

# Meikang Biotech, an acquisition achieving 2 strategic objectives at once

- Access to a POC manual product range with R&D and manufacturing capabilities
- A strategic foothold in China
  - A large site and a strong team
  - ¬ China becomes bioMérieux's 3<sup>rd</sup> corporate pillar
    - Marcy l'Etoile, France
    - · Cambridge, U.S.
    - Shanghai, China



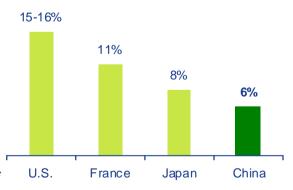
## China: a strategic country



- ► IVD: a key market
  - **■** 2008: €1b approx.
    - 2<sup>nd</sup> largest market in Asia-Pacific after Japan
    - Very fast growth: 15 20% annually
  - Strong potential
    - Population: 1.3 billion
    - Healthcare costs: 5 6% GDP
    - Healthcare reform: by 2020, a basic healthcare system planned
    - Food safety
- 1st step in development: manufacturing capabilities and costs
  - Dominant position in mass production
  - Main exporter of high-tech products
- ▶ 2<sup>nd</sup> step in development: R&D capabilities
  - 400,000\* overseas students, with 140,000\* returnees
  - R&D spending: up 17% annually over the past 12 years\*\*
  - ▼ From "made in China" to "created in China"

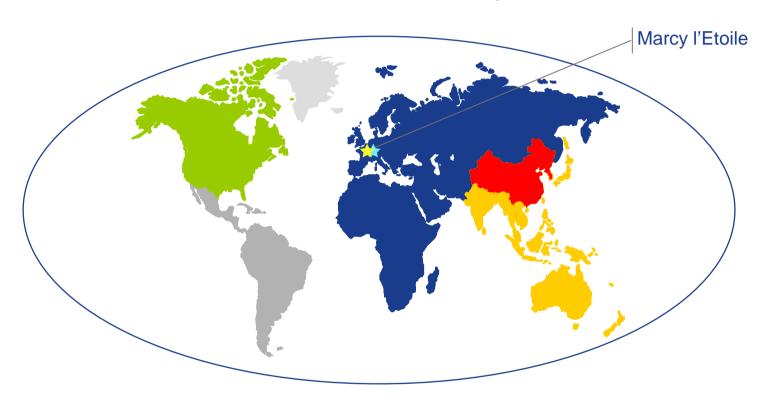


#### Healthcare costs in % GDP





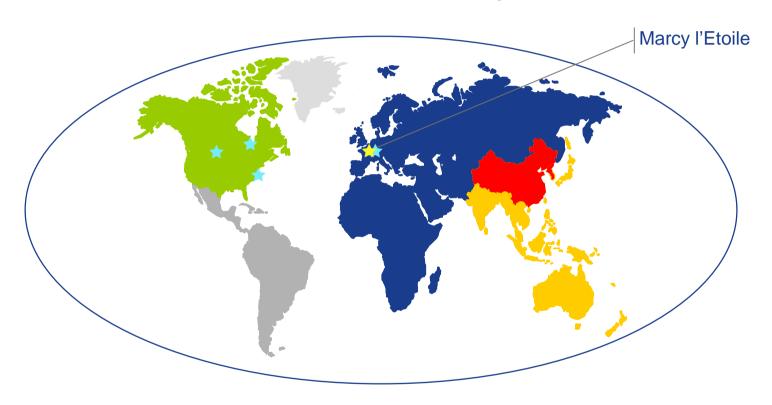
### From 1963 to 1988, over 25 years



- Corporate office: France
- Manufacturing and R&D: France



### From 1988 to 2007, over 19 years



- Corporate office: France
- Manufacturing and R&D: France and U.S.



#### From 2007 to 2010, over 3 years



- Corporate offices: France and U.S.
- Manufacturing and R&D: France and U.S.



#### From 2010 on



- Corporate offices: France, U.S. and China
- Manufacturing and R&D: France, U.S. and China



An important transformation



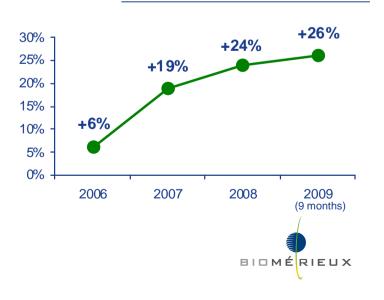
### bioMérieux in China today

- A long-standing presence
  - Alain Mérieux and Institut Mérieux since 1978
  - 1992: bioMérieux in Hong Kong
  - 2005: Headquarters moved to Shanghai
  - **2009**:
    - 5 offices and more than 100 FTE
    - A large distributor network
- ▶ A very loyal team, with a long-term commitment
- Objective: one of our top 3 subsidiaries
  - Sales increase 2.5-fold by 2015
- Sustained high growth rate
  - 2009 first-nine month sales: €31m
  - bioMérieux n<sup>6</sup> subsidiary (ahead of UK)
  - High instrument sales: 

    ~ 30%



#### Improving high growth rate<sup>1</sup>



## bioMérieux in China: a strong position

- Products adapted to the Chinese market
  - ▼ Significant medical needs in infectious diseases
  - Microbiology: FMLA<sup>TM</sup>
  - ▼ VIDAS®: flexible, robust, large menu and easy to use
  - Molecular biology: HIV viral load and extraction system
  - Industrial applications: Silliker and bioMérieux,
     2 world leaders in food safety
  - Microplates: production ramp-up underway
- Other assets
  - A large distributor network
  - ▼ Close working relationship with the Chinese Ministry of Health
  - A local research team
- Several collaboration agreements
  - ▼ bioMérieux research team in Fudan University Cancer Hospital in Shanghai since August 2006
  - Joint-venture with Shanghai Kehua Bio-engineering Production of microplates in immunoassays



VIDAS®甲状腺试验







## Meikang Biotech: leveraging and accelerating our expansion in China

- A well-established company, founded by Dr. Shungho Chang in 1992
  - About 150 employees and 100 contractors
  - Sales about €5m
  - A wide product range: rapid tests lateral flow
    - Infectious diseases
    - Cardiovascular and oncology
    - Drugs of abuse
    - Pregnancy and hormone testing
- ▶ A fully-owned manufacturing site (opened 2007) in Shanghai
  - 9,000 m² manufacturing and administrative facility on 2 hectares (4¹/² acres) of land
  - 30 million tests per year
  - Certifications:
    - GMP, ISO 9001, ISO 13485, Manufacturing license class III (Shanghai FDA)
    - Many CE marked products
    - A few 510k approved products
    - 2 products cleared for Chinese registration



### Location



## An ideally located site between downtown Shanghai and the international airport







## Meikang Biotech, new facility since November 2007



**Administration offices** 





### Packing Line

### **Production Area**











### Acquisition of Meikang Biotech Higher ambitions for the Group

### Reinforced manufacturing and R&D capabilities

- To support business growth in China
  - Rapid tests ideally complementing bioMérieux's product offering, mainly for infectious diseases
  - In the coming years: additional production capacities
- ▶ To optimize cost structure of products for developing countries
- ► To leverage R&D expertise and develop innovative products
  - Additional immunoassay R&D capabilities for new rapid tests
  - A beachhead for the rapid diagnostics and POC markets
- Greater China headquarters, Asia-Pacific and corporate offices
- Asia-Pacific training center



### Conclusion

- POC strategy
  - Manual rapid tests
  - ▼ Philips partnership



A solid player in a fast growing market ~ 10% per year

- 2 objectives achieved with Meikang Biotech acquisition
  - Strengthened manual rapid test business
  - Manufacturing capabilities and site in China
- Global scope
  - Corporate hubs in Marcy l'Etoile, Cambridge and Shanghai

