

# INTRODUCTION TO VALENT BIOSCIENCES

D TROALEN. BASEL 09-21-2015

Creating value through technology and people."







### **KEY FACTS ABOUT US**

- VBC was created in 2000 with the purchase by SUMITOMO CHEMICAL of the Ag product business of Abbot Laboratories The know-how and the development of PGR's started in 1957
- 800 products registrations in 95 countries in the world : the most extensive portfolio of biorationals in the Ag industry covering

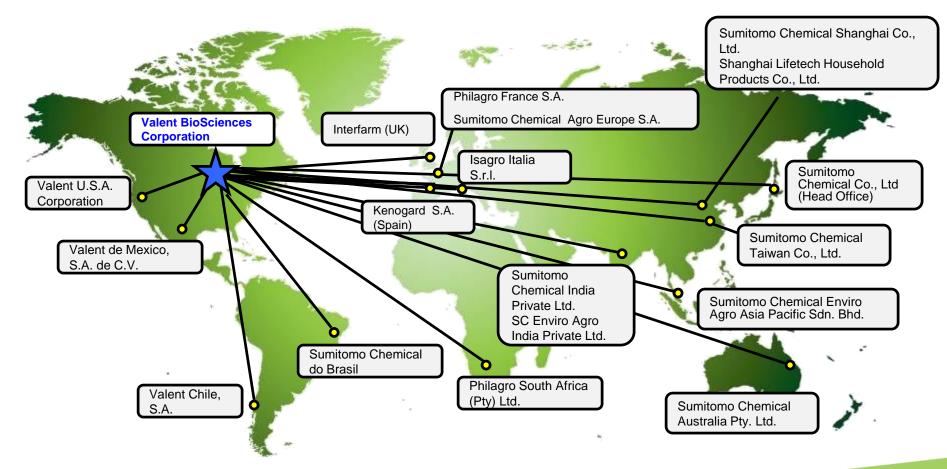
  - Biorational Crop Protection
     Biorational Crop Enhancement
  - Public health
  - Forestry health
- 135 trademarks
- 725 Sku's
- A global sales network through the Sumitomo Chemical organisation
- A base for the establishment of a Biorational Business Unit within Sumitomo Chemical







### VBC MANUFACTURES, FORMULATES & SUPPLIES BRANDED PRODUCTS WORLDWIDE





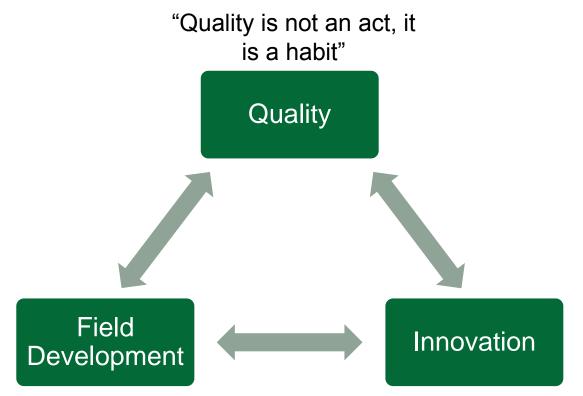




### **VBC R&D AND RA "SNAPSHOT"**

- Long history of Biorational Product Innovation/Development
  - Bacillus thuringiensis
  - Plant growth regulators, including:
    - Gibberellins
    - AVG
    - S-ABA
- Basic microbial research
- Fermentation scale-up and optimization
- Innovative formulations that deliver on the promise and commitment
- Field development ...."harnessing" the power of biorationals
- Targeted patent portfolio (approximately 250 patents)
  - 14 US patents issued in FY2013
- >800 product registrations in >90 countries





"Since new developments are the products of a creative mind, we must therefore stimulate and encourage that type of mind in every possible way" "Innovation is anything but business as usual"







### LARGEST BIORATIONAL MANUFACTURING PLANT

### **Osage Plant**

- State of the art biorational fermentation
- Largest capacity in the Ag-microbial industry
- Platform for future growth



### \$150MM Investment

- 73 Acre Site in Osage, Iowa
- 130,000 Square Feet
- 15 MM Gallon Annual Capacity
- 89 Employees

### **Best Practices from Day One**

- ISO 9001:2008
- Lean Six Sigma, Kaizen
- GLP, Total Productive Maintenance
- Elements of OSHA Process Safety







### VBC IS ALSO IN PUBLIC HEALTH AND FORESTRY HEALTH

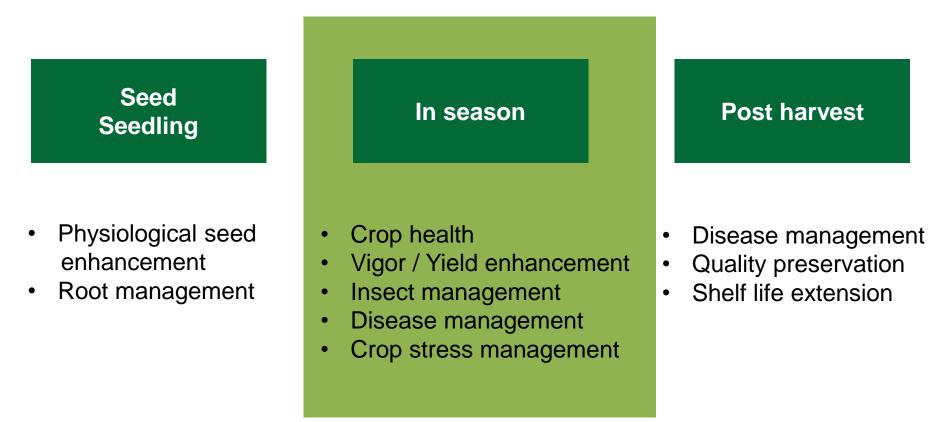
- Manufacture best-in-class biorational larvicides for integrated mosquito/vector control programs
  - Bacillus thuringiensis var israelensis (Bti)
  - B. sphaericus
- Publish efficacy results in peer-reviewed literature
- Membership in global health policy organizations







### DEVELOPING OUR CROP PROTECTION AND PRODUCTION STRATEGY AROUND THREE TECHNOLOGY PLATFORMS



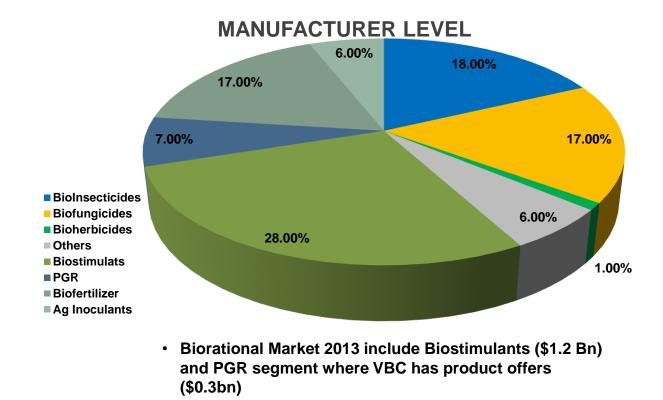
BUSINESS AND PRODUCT PORTFOLIO ADDRESS ALL SEGMENTS OF CROP PROTECTION AND PRODUCTION VALUE CHAIN







### AG BIORATIONAL MARKET REVENUE 2013 \$ 4.3 BN AND PROJECTED TO CONTINUE GROWING



 Growth rates as well as more safe and effective alternatives for traditional pesticides and plant healthyield promoters encourages new players to invest on this segment

Source: MarketsandMarkets report







### **MARKETPLACE IS CHANGING TO ASKING FOR** SOLUTIONS WHICH ARE IN CONCERT WITH SUSTAINABLE SOLUTIONS



CONVENTIONAL

All crops

ORGANIC Row crops with

simplified cultivation techniques

### ORGANIC

Speciality crops (vegetables, top fruit, vine, horticulture)

### MARKET DRIVERS

- Economics
- **Environmental Profile**
- Society (food safety)







### CHANGING MARKETPLACE

- Sumitomo Chemical was the First Mover with regard to development of a combined conventional + biorational product portfolio when it acquired VBC in 2000
- Since that time, Pace International, MGK, and Mycorrhizal Applications have been added to the SCC group of companies





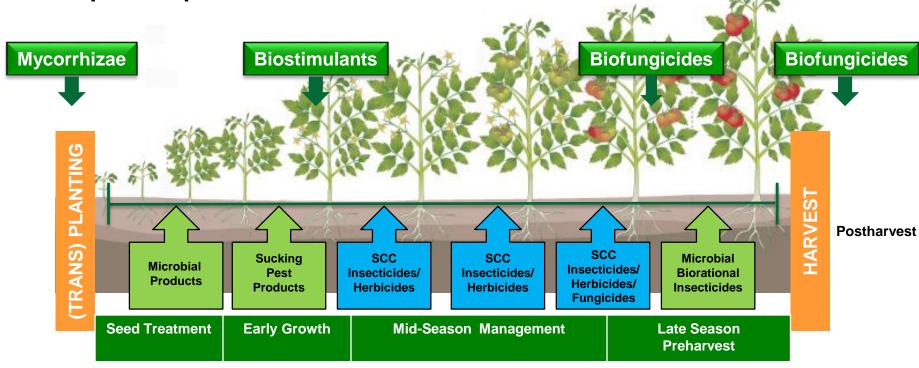








Our growth strategy is based on commercializing complementary products/technologies to current VBC/Sumitomo product line from at-plant to postharvest uses.



<< DEVELOP COMPLIMENTARY POSITIONING TO SCC GROUP PRODUCTS >>





### Invest in our Strengths

- Spending industry leading percentage of Net Sales on R&D
  Strengthening global foot print
- Hire and Maintain an effective motivated Organization

### Distribution Strategy

Form Strategic Alliances with distribution partners who share vision

### Development

Develop new markets with innovative applications and bring biorationals to segments which did not use biorationals

 Manufacturing Strategy
 Maintaining BEST in industry quality, competitive cost position through fully resourced and utilized facilities, run at the industry leading safety standards

### Strategic Business Development

- Pace: for postharvest platform
- MA: Soil platform
- Actively looking for other complimentary technologies and businesses







# USING SCIENCE TO BRING SOLUTIONS TO OUR CUSTOMERS





Creating value through technology and people \*\*



## THANK YOU FOR YOUR ATTENTION

Creating value through technology and people ...