



### >> PERSPECTIVES\_2012 THE FUTURE OF CHEMICAL AND PHARMACEUTICAL PRODUCTION IN GERMANY

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## >> MANAGING INNOVATION.

SUSTAINABLE SUCCESS IN THE CHEMICAL INDUSTRY – CLARIANT INNOVATION EXCELLENCE

Dr. Ulrich Ott Clariant ACHEMA PERSPECTIVES 2012



Sustainable Success in the Chemical Industry Innovation Excellence @ Clariant

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## Clariant – Key Facts





- Clariant is a world leader in colors, surface effects and performance chemicals
- Annual sales of CHF 7.4 billion in 2011
- Headquartered in Muttenz near Basel, Switzerland
- World-wide operations, with more than 100 group companies
- Approximately 22,100 employees
- Products and services of 11 Business Units are based on innovative specialty chemicals



# Innovation Excellence – one of our four initiatives for sustainable performance and continuous improvement Exectly your chemistry.





# Innovation – one of the company's top priorities for achieving profitable growth





Innovation – one of the company's top priorities for achieving profitable growth



Exactly your chemistry.

Clear ambition to sustainably contribute to profitable growth

The right mindset and structure to successfully manage innovation

Clear focus in order to manage the exploration / exploitation challenge



## *Innovation – Drive for Innovation Excellence*



Clariant

# Strategy – clear ambition to sustainably support profitable growth





< Clariant

# Strategy – six megatrend clusters will drive the chemical industry



Exactly your chemistry.



Society

Urbanization & demography New patterns of mobility Social media & networks



**Technology** Convergence of technologies Learning from nature



#### Consumers

New consumption patterns Thriving health sector



### Globalized World

Urbanization Increasing security threats



#### **Business**

Knowledge-based economy Change of the world of work



#### Environment

Energy and resource reversal Clean Technologies (CleanTech) Renewable raw materials



## Structure and Processes – Clariant Group Technology Services





## Structure and Processes – "idea-to-market" at Clariant



Exactly your chemistry.



Project & Portfolio Management is key
370 R&D projects across Clariant
Pipeline Value (Sales@Maturity) > CHF 1 billion



## Structure and Processes – KPI's aligned to profitable growth targets



Clariant





*People and Culture – dedicated resources and clear accountability* 







# *People and Culture – Clariant Innovation Center for open innovation...*



Exactly your chemistry.

LARIANT EXCELLENCE



..with BUs, customers, academic and industrial partners



Megatrend "Environment" – one of Clariant's focus areas



Exactly your chemistry.



#### Environment

- Energy and resource reversal
- Clean Technologies (CleanTech)
- Renewable raw materials

### Clariant's uniqueness

### CleanTech

- Innovative materials for Li-ion batteries
- Catalysts for energy and resource efficient processes
- Catalysts for exhaust gas treatment
- Heat transfer fluids for solar energy
- Drinking water and waste water treatment

#### Advanced Materials

- Lightweight construction
- Ceramic Fibers (applications up to 1.300°C)
- Carbon Fiber Composites

### BioTech/Renewables

- Replacement of petrochemical raw materials by renewables, e.g. for surfactants in detergents, cosmetics and crop protection
- 2<sup>nd</sup> Generation Bioethanol
- Biotech platform for enzyme technologies
- Biopolymers

Megatrend "Society – Social media & network" A novel Clariant product for hardware



Exactly your chemistry.



<u>Exolit<sup>®</sup> profile</u> – Exolit<sup>®</sup> OP is a non-halogenated flame retardant based on phosphinate chemistry

- Highly effective fire protection
  - Meets the strictest requirements
  - Provides standard engineering plastics with the low flammability of expensive high-performance plastics
  - Outstanding environmental and health profile
    - Exolit OP is a non-hazardous material, i.e., no classification and labeling according to REACH/CLP
    - In case of fire, less smoke is produced than with many other flame retardants
- Perfect sales potential
  - In line with stable market trends like the growing consumption of electrical and electronic products



Three key success factors for powerful innovation



- 1. Top down management commitment
  - If it is not on the agenda of the top management and reflected in top priorities it won't work
  - Sense of importance of innovation is necessary through clear strategic focus
- 2. Make Innovation Excellence part of your overall Excellence initiative
  - Organization has the right mindset and is aware of key principles
  - Projects are clearly linked to strategic targets and get the right attention
  - Transparency, efficiency and effectiveness through dedicated organization and process
- 3. Work on more than just the process
  - Culture through values and diversity
  - Capabilities through training, creativity and recombination

