



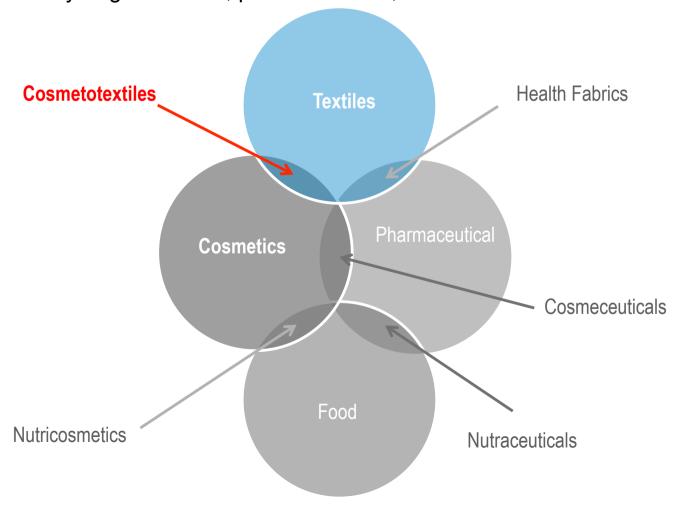
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### Definition of a Cosmetotextiles

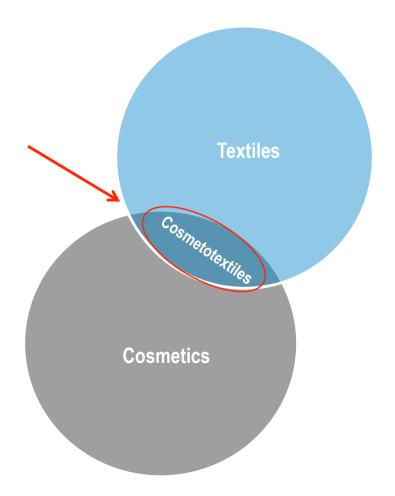
- Networking of Industries and markets resulting in new business opportunities
- New fields of products, applications and services, offering added value to consumers
- Joint synergies of food, pharmaceutical, cosmetic and textile industries





### **COSMETOTEXTILES**

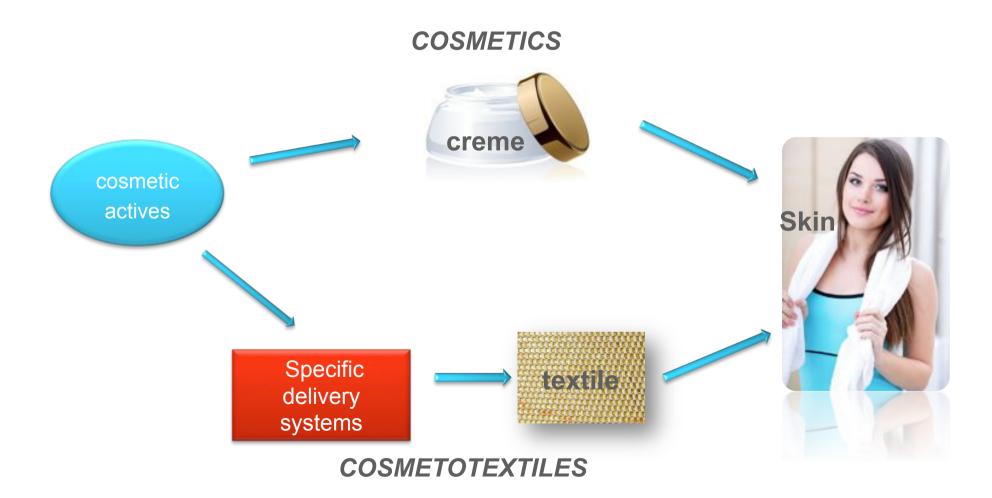
- "Cosmetotextiles" an association of the textile and personal care industries
- Textiles combined with cosmetic ingredients providing wellbeing and wellness
- Cosmetotextiles is a textile article containing a substance or a preparation that is released over time on human body skin





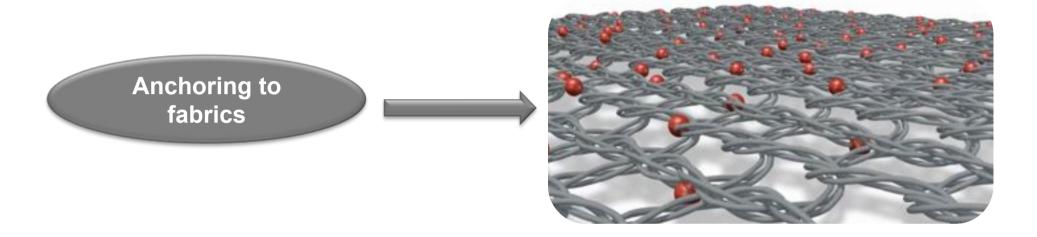
### COSMETOTEXTILES.....

classical cosmetics versa cosmetotextiles





## Quiospheres® - Process technology

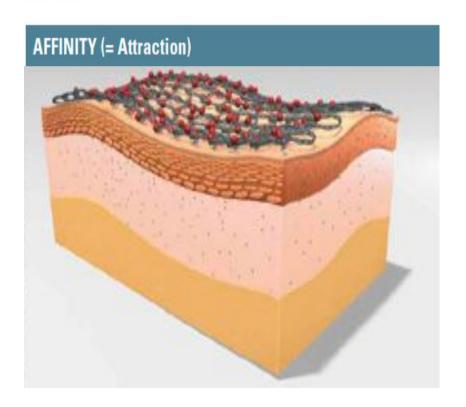


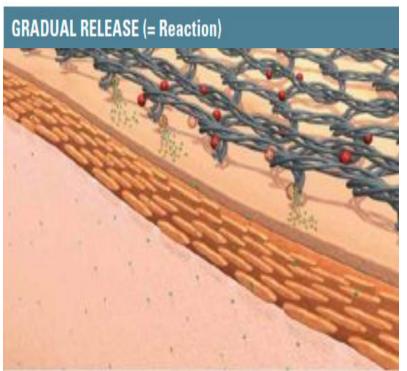
- Quiospheres® technology can be applied to any textile fabric, such as cotton and nylon.
- Clariant's textile expertise allows the attachment of Quiospheres® to fabrics
- Microcapsules are protected and unaffected by the impact of the textile production process i.e. handling, mechanical stress and the high temperatures
- Garments can be made up, pressed, ironed and steamed at warm temperatures up to 120°C (for 1 minute), also molding at 200°C for 30 sec. does not harm the efficiency



## Quiospheres® - Release technology

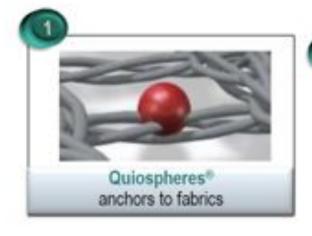
The cosmetic benefits are released onto the skin through a two-step technology The first step
The second step





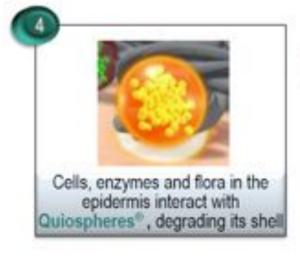


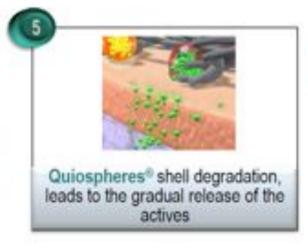
# Quiospheres® - Process & Release technology

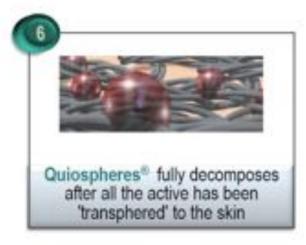








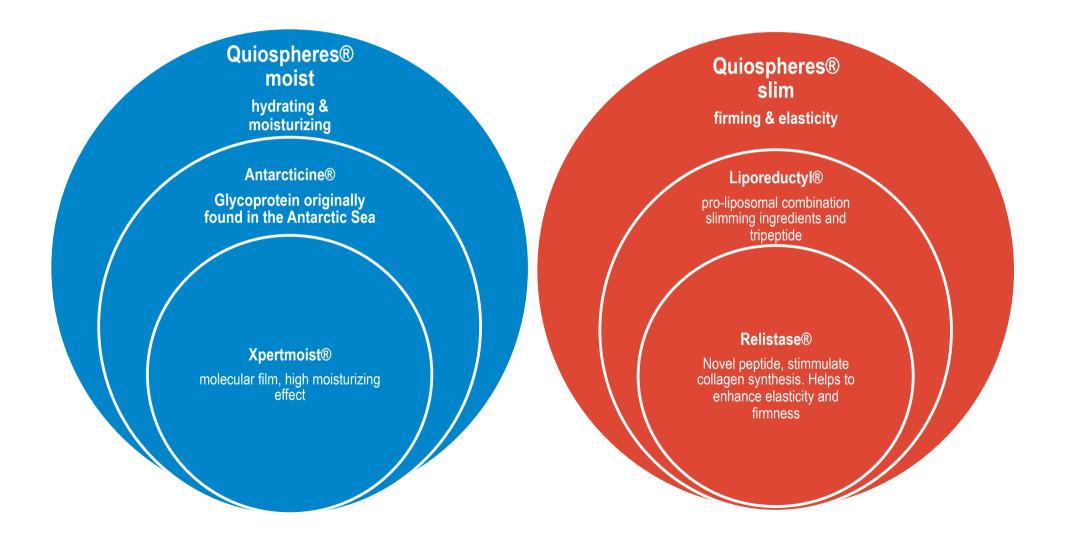




### 8 Quiospheres



## Quiospheres® - Effect technology



### 9 Quiospheres



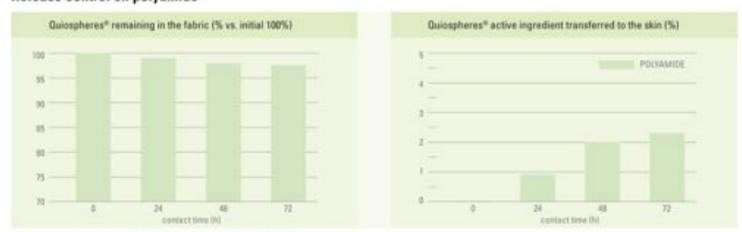
# Wash & wear durability of Quiospheres® a) Wearing

### Release control on cotton



Release control studies by PERCUTANEOUS ABSORPTION ASSAY test

### Release control on polyamide

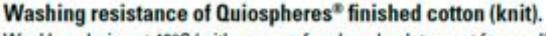


Release control studies by PERCUTANEOUS ABSORPTION ASSAY test.

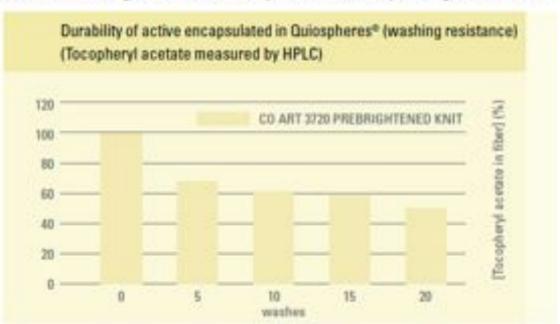
PERCUTANEOUS ABSORPTION ASSAY. The percutaneous absorption is an in vitro test that describes the passage of compounds across the skin.



# Wash & wear durability of Quiospheres® b) Washing

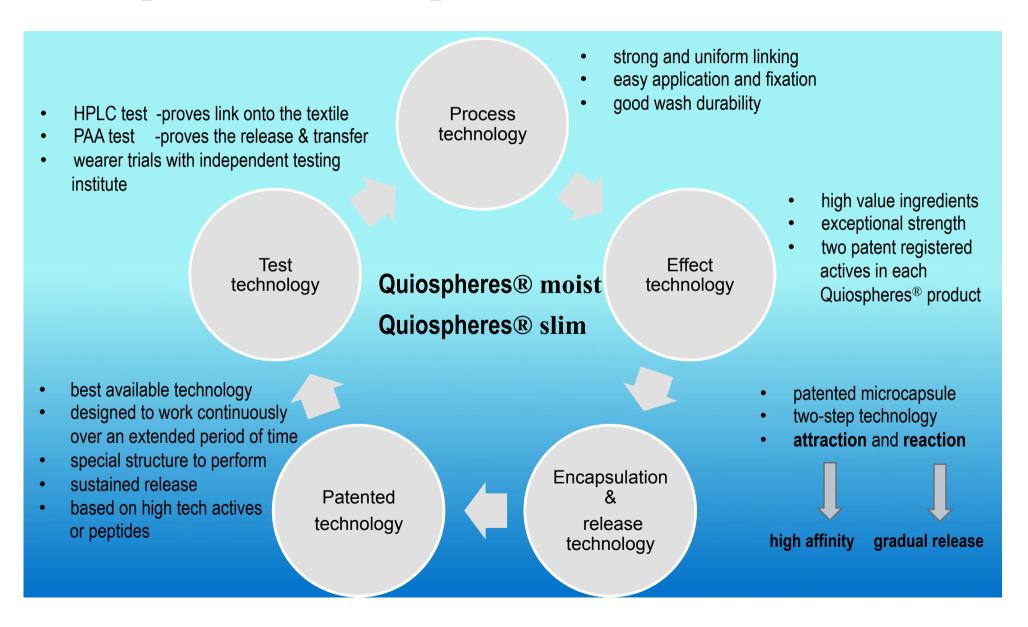


Wool laundering at 40°C (with enzyme-free laundry detergent for wool)





# Quiospheres® the five pillars......



# Quiospheres® .....the benefits

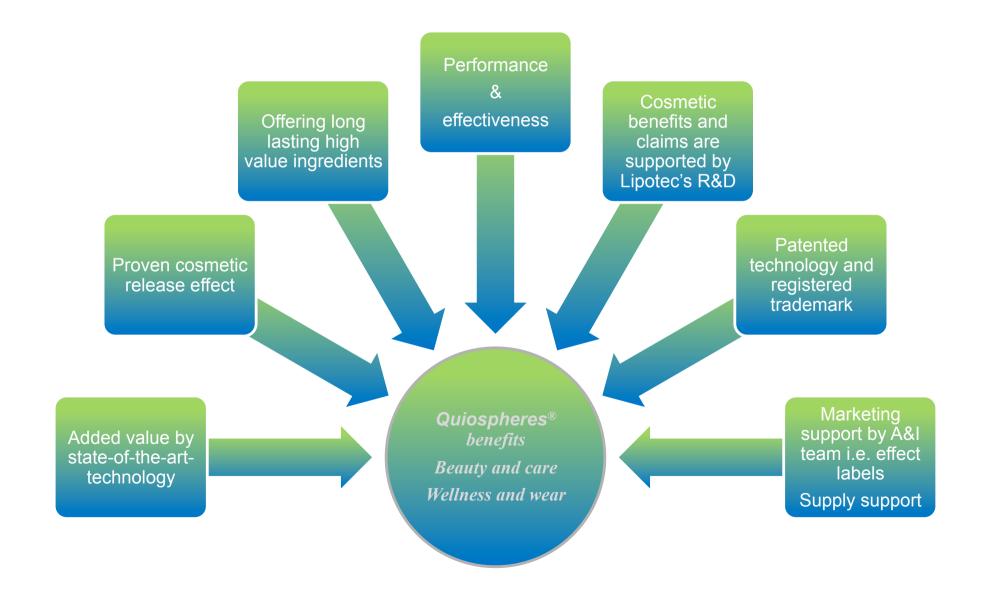


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### Benefits for the brand and retailer.....





# Quiospheres® - Tell the story





# In Vivo Efficacy Test QUIOSPHERES® MOIST





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Clinical and \*\*sensorial test undertaken by independent lab

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# In vivo test - Quiospheres® moist - long lasting moisturizing effect

### Study parameters

Performance of a clinical study in order to evaluate QUIOSPHERES® MOIST immediate efficacy by release of moisturizing cosmetic ingredients from a garment to the skin.

### Volunteers

- 20 (men)
- age of 18-65 years
- wearer trial with socks
  - one sock treated with QUIOSPHERES® MOIST
  - one sock un-treated

### Wearing time

8 hours per day for 15 consecutive days

### Care instructions

- Separate hand wash day by day after use
- dry at room temperature

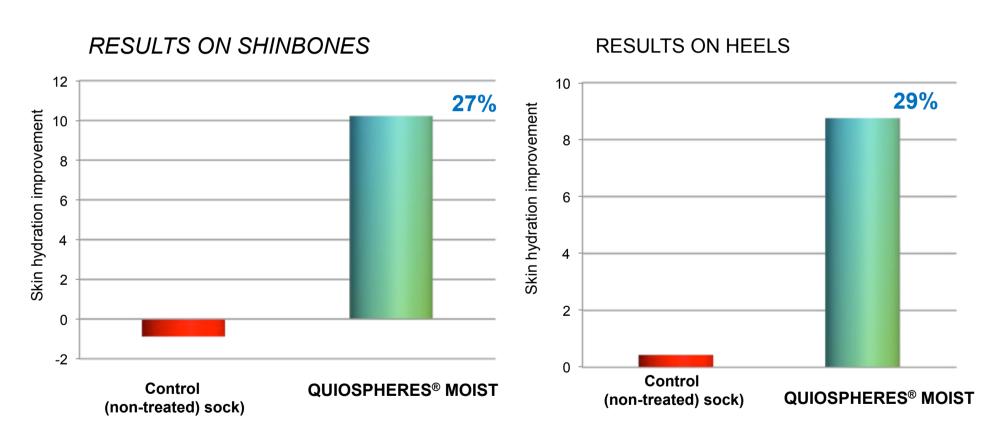
### Measurement

Measurements of skin hydration in the shinbones and heels were performed with a Corneometer before the beginning of the study and after 15 days.





# In vivo test - Quiospheres® moist - long-term moisturizing effect



Measurements of skin hydration in the shinbones and heels significantly improved after 15 days with the treated sock.

<sup>\*</sup>Clinical test undertaken by independent laboratory



## Quiospheres<sup>®</sup> moist wearer trial - Summary of clinical results

- Clinical studies demonstrate an immediate effect by a 18% skin moisturizing increase after 7 hours use of a Quiospheres® moist garment and a 33% increase after 3 days regular wearing conditions (daily wearing and washing)
- A long-term study underlined the moisturizing effect. After wearing and washing for 15 days and 8 hours use the results show and increase of the skin moisture of an average of almost 30%



## Sensory Evaluation

- A clinical evaluation of moisturizing effects perceived by the volunteers after wearing the sock treated with QUIOSPHERES® MOIST was assessed via questionnaire.
- According to the results obtained, it was observed that:
  - 85% found the product was easy to apply by just wearing the garment.
  - 95% noticed a moisturizing effect on the skin, leaving it smoother.
  - 85% noticed an **improvement effect** while wearing the treated sock.
  - 90% liked the product.
  - 80 % would **buy** the product.
  - 100% had never used a similar product



### Conclusion of the in vivo tests

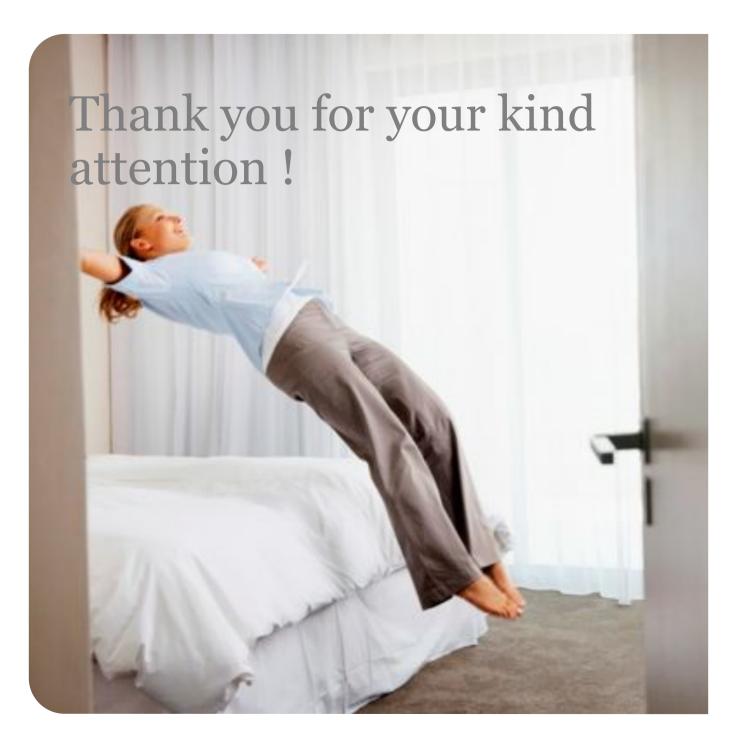
High affinity microcapsules supporting a gradual release



High performance cosmetic ingredients **Antarcticine® Xpertmoist®** 



**QUIOSPHERES®** MOIST is a high end product delivering added value and a well-being feeling to consumers.





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