### Surface Control Technology by NICCA Chemical

Create new values for environment of Thailand with numerous functions of specialty chemicals



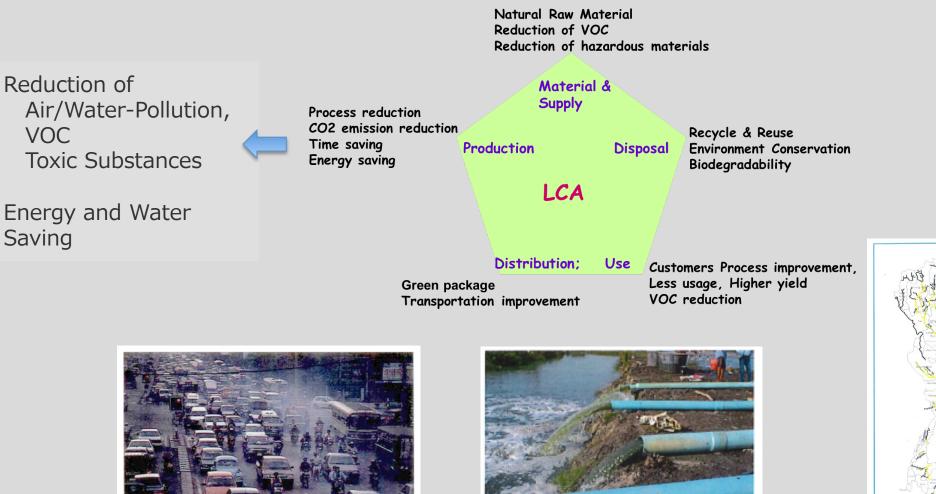
**OTAGAI** Forum Association



# NICCA CHEMICAL CO., LTD. Feb. 12, 2016

# **1.Benefit for Thailand** OTAGAI Forum Association

#### Criteria of Green Products of NICCA



http://www.chugoku.meti.go.jp/research/kankyo



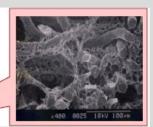
非常に汚れてい



### **2.Selling point**

# **OTAGAI** Forum Association

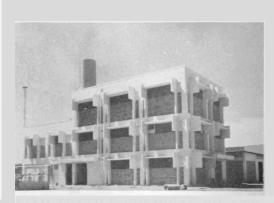




Waterborne Polyurethane



Kirakuru AL-00GT for Automotive interior materials



Since 1974





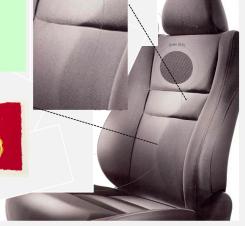
Siam Textile Chemical

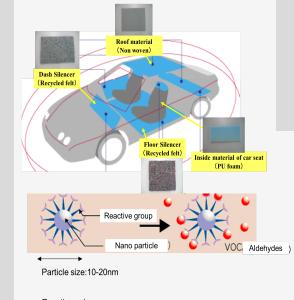


Flame Retardant Backing for Car Sheet

Halogen Free Low accumulation Nontoxic Noncombustible Comfortability

Back Coated

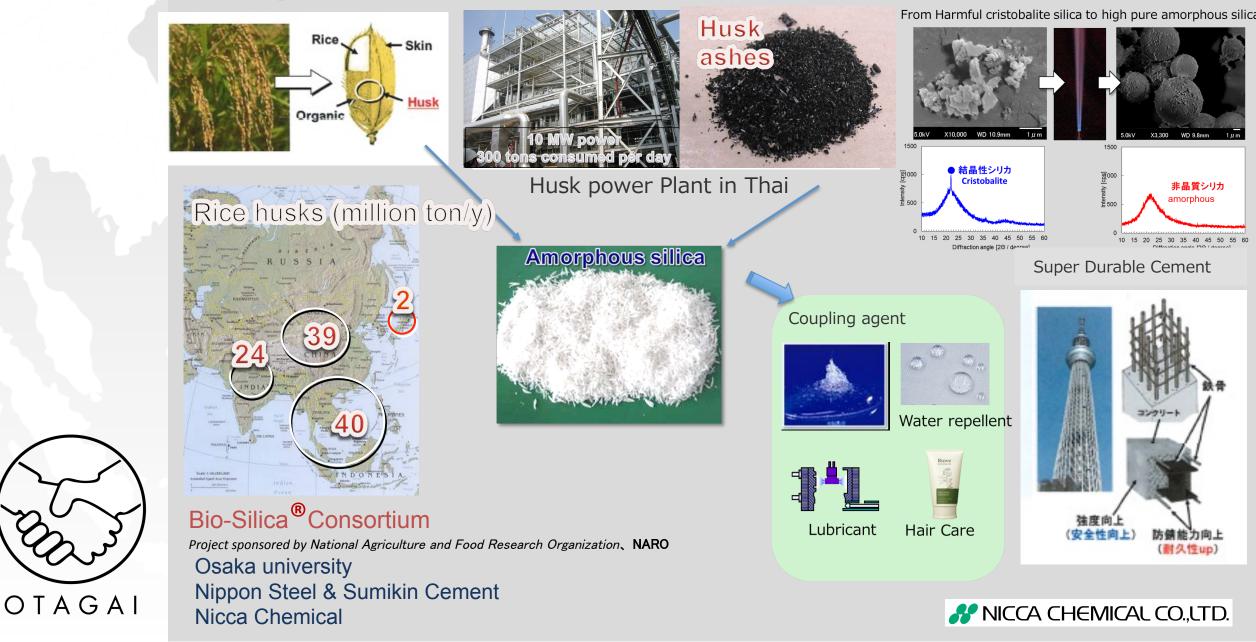




Reaction scheme  $R'-NH_2 + RCHO \rightarrow R'-N=CRH$ 

#### **3. OTAGAI point**

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#### 4. Summarize

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- Providing "Novel Green Products " to customers in Thailand with life cycle assessment of products such as water-bones polyurethanes, deodorants. flame retardants and water repellents.
- Providing "Total Solutions for the whole textile " process to achieve world's major apparel and fabric manufacturer's advanced demand.
- Challenging to "Advanced Recycling Process of Rice Husks" to produce high-purity silica materials and their application to industries.





# 5. Company Information OTAGAI Forum Association

