TRIZ in SCG

Position paper presentation

Content

- □ About us
- □ About SCG
- What we want to do with TRIZ
- ☐ Introducing TRIZ in SCG
- □ Q&A



Who are we?



- Position: marketing executive of market development section
- □ Company: SCG PAPER PLC.
- Mission: To develop new potential products (collect information to assess market opportunity and coordinated R&D Center)
- Area of interest:
 - Quality Assurance (QA)
 - Task Achieving QC Story
 - Quality Function Deployment (QFD)
 - TRIZ

CORPORATE Total Quality Promotion Center



3

Who are we?

Mr. Yuthapong Matejitkul:

- Position: BU Technology Coordinator,
 Product and Technology Development
 Center
- □ Company: SCG PAPER PLC.
- Mission: Research planning, facilitate to build technology roadmap to determine the focus research areas, build the strategic research network to enhance R&D capability
- Area of interest:
 - Technology Roadmap (TRM)
 - Research Management
 - Knowledge Management (KM)
 - Quality Function Deployment (QFD) and TRIZ





Who are we?

Mr. Saranya Chandravat:

- Position: Executive Consultant of Corporate Total Quality Promotion Center
- Company: The Siam Cement PLC
- Mission: Provide consultation services to Business Units of SCG
- Area of interest:
 - Total Quality Management (TQM)
 - Total Productivity Management (TPM)
 - Quality Function Deployment (QFD)
 - Failure Mode Effect Analysis (FMEA)
 - TRIZ

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Who are we?

Ms. Kritaya Suparnpongs:

- Position: Executive Consultant of Corporate Total Quality Promotion Center
- Company: The Siam Cement PLC
- Mission: Provide consultation services to Business Units of SCG and support technical tools for other consultants of TOPC
- □ Area of interest:
 - Quality Assurance (QA)
 - Task Achieving QC Story
 - Quality Function Deployment (QFD)
 - Attractive Quality Creation (AQC)
 - Technology Roadmap (TRM)
 - Knowledge Management (KM)
 - TRIZ



Who is SCG?

Siam Cement Group (SCG) was founded under the Royal Decree of His Majesty King Rama VI in 1913 as the nation's first cement producer, a construction material critical to national development. The group has expanded continously since that time, became the largest and most advanced industrial conglomerate in Thailand with five strategic business units:



- 1. Paper and Packaging (PPB)
- 2. Petrochemicals
- 3. Cement
- 4. Distribution
- 5. Building Products.

All business operate under the principles of good corporate governance and promote innovation in products/services, processes and business models to delight consumers. The Group continually rejuvenates itself to sustain business leadership in Thailand and in the region, and remain internationally competitive.

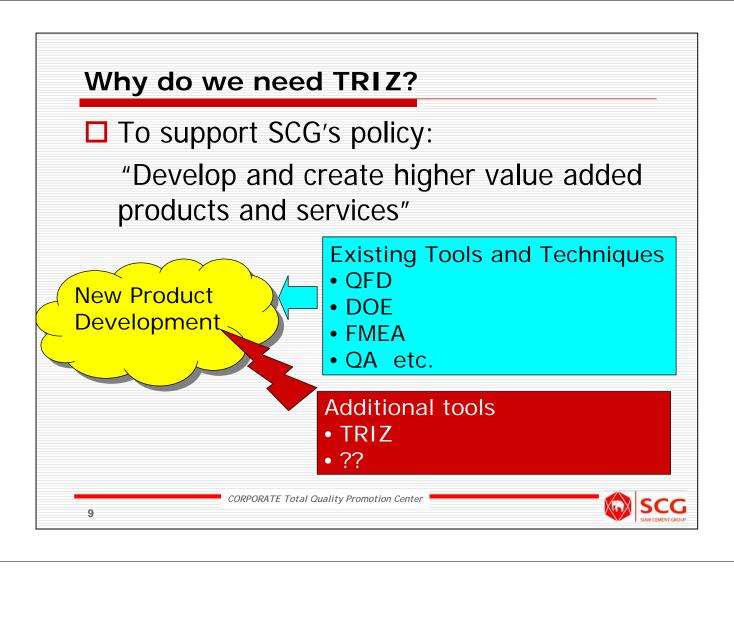
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Fact sheet about SCG

- The largest industrial conglomerate in Thailand
 - over 100 companies
 - 24,000 employees
 - 7 billion USD of revenue in 2006
 - TQM as the backbone of management system
 - 6 companies won Deming prize under consultation of Prof. Dr. Noriaki Kano

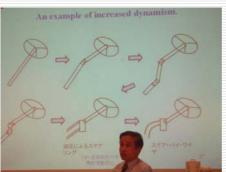




TRIZ introduction to SCG

- □ TRIZ Training at Technology Promotion Association (Thailand-Japan), TPA by Mr. Shinsuke Kurosawa of the Sanno Institute of Management
 - "Practical Contemporary TRIZ"
 - "Contemporary TRIZ for Product Planning and Development"





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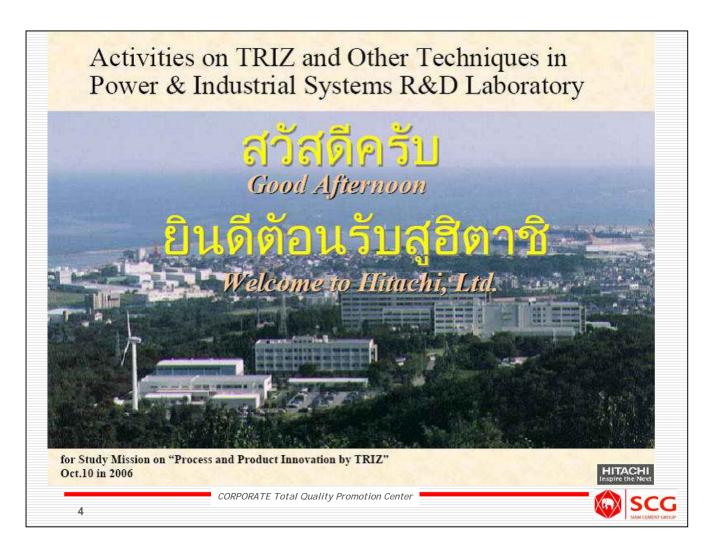


TRIZ introduction to SCG

- □ TRIZ study mission trip with TPA
 - "Product and Process Innovation by TRIZ'06 in Japan", visiting
 - Sanno Institute of Management
 - ☐ Hitachi R&D
 - ☐ Fuji film
 - □ Panasonic center
 - Nissan













□ TRIZ forum for knowledge sharing Q1, 2007. 200 participants from SCG

2006 TRIZ Symposium

How Should We Utilize TRIZ for Managing Industries? **Product and Process Innovation By Triz** in Japan 7-14 Sep,2006

MAD

Application of TRIZ in TMMA

TRIZ คือะไร ?

TRIZ: Theory of Inventive problem solving Concept & Work shop to develop kaizen & theme activity





TRIZ

Teoriya Resheniya Izobreatatelskikh Zadatch

"Theory of Inventive Problem Solving" "วิธีการแก้ปัญหาในเชิงประดิษฐ์"





TRIZ introduction to SCG

- In-house TRIZ training Ex.
 - Corporate Total Quality Promotion Center
 - Thai Ceramic Co., Ltd.
 - Cementhai Logistic

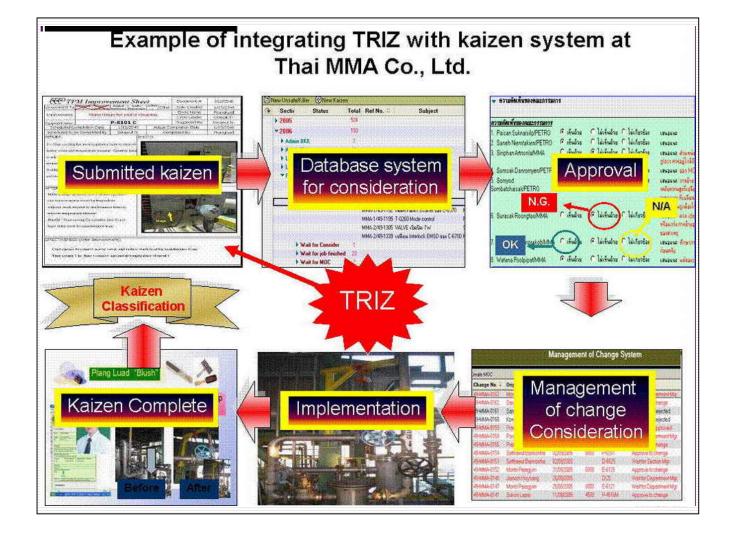


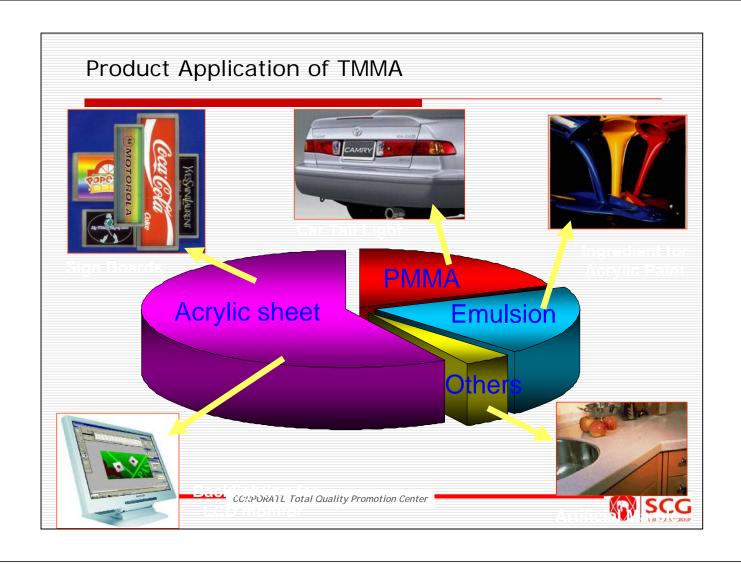
TRIZ introduction to SCG

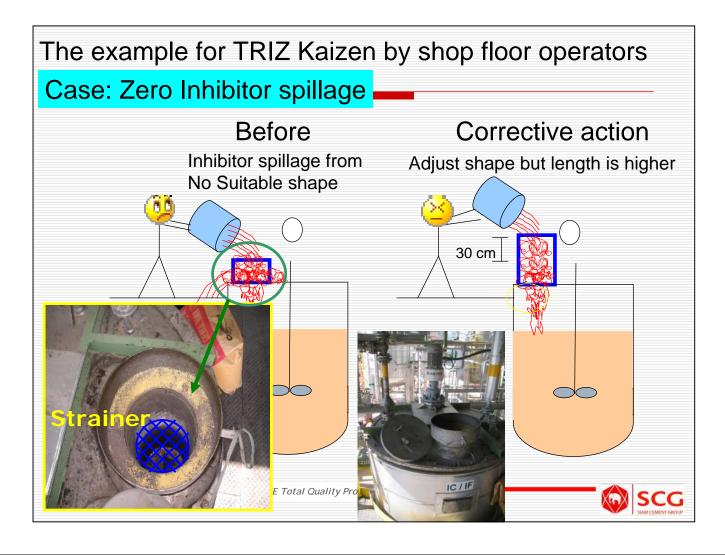
- □ Attending TRIZ conference
 - Learning from real cases
 - Focus on "Process" of implementation and how to "integrate" with other tools

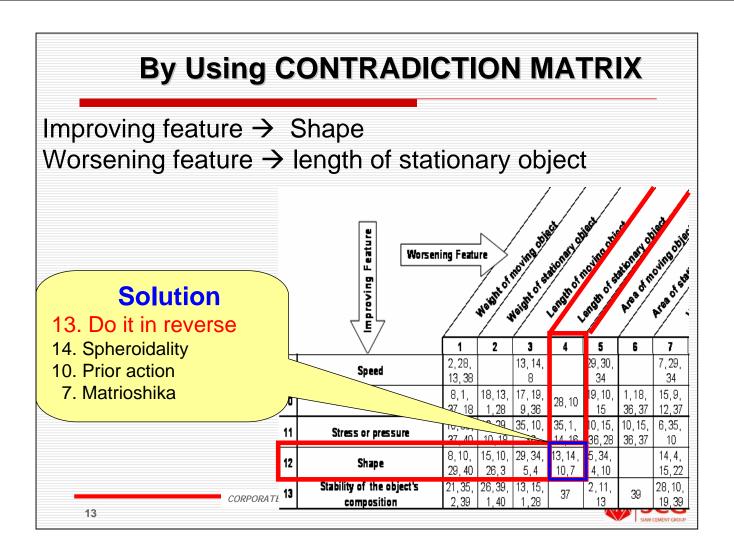
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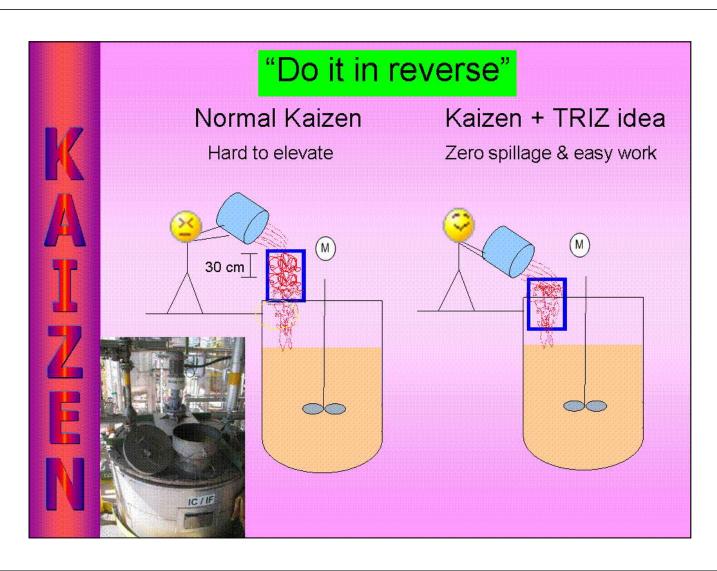












TRIZ application plan in SCG

- ☐ Phase 1 (2007-2008)
 - Integrate with kaizen system for Technical problem solving in factory
 - Integrate with QFD to solve conflicting quality elements for new product development
 - Integrate with Task Achieving QC story
- □ Phase 2 (2009 onward)
 - Full product planning and development according to TRIZ framework
 - Integrate with TRM

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15

Questions

- ☐ How TRIZ is applied with service business Ex. Logistic?
- From your experience, what are pitfalls in introducing TRIZ and how to avoid them?
- TRIZ is a technical tool. How to make top management buy-in quickly?

