R&D Innovation Practice in SAIT

Competiveness Enhancement through Creative Management



2011. 02 流靜 Wook Sun

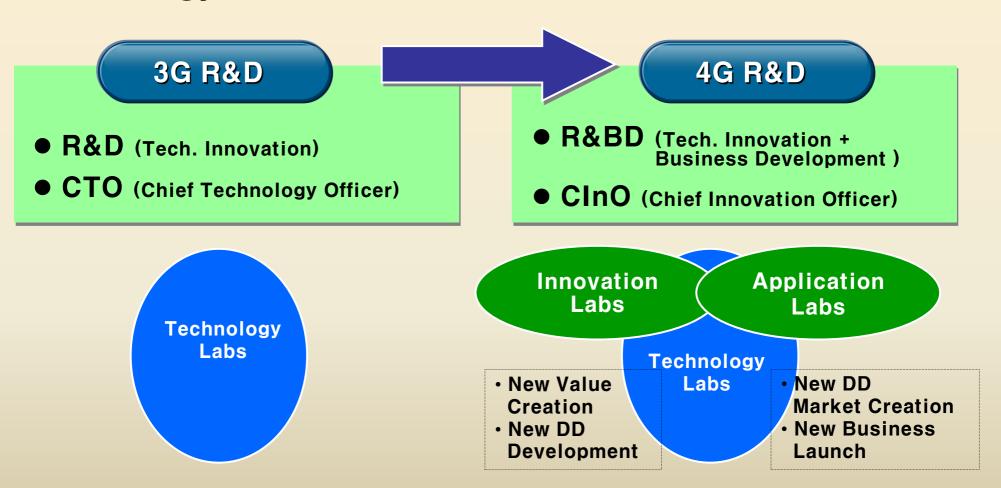


Samsung Group Corporate R&D Center



Conversion into 4G R&D Paradigm(2000 ~)

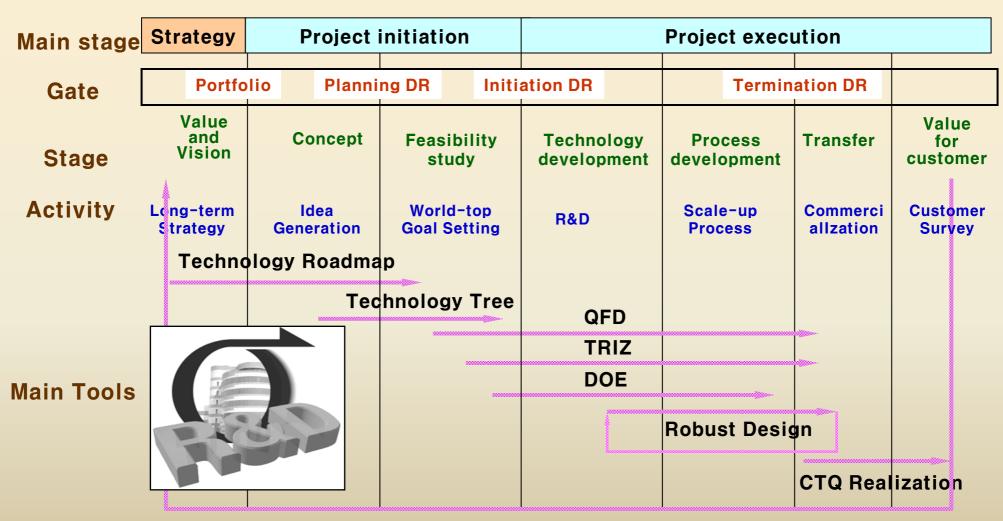
Technology Innovation × Customer's Value Innovation



^{*} DD (Dominant Design)

R&D Process Setup coupled by Methodology

Scientific & Rational R&D Framework



Essential Concept of SAIT-DFSS

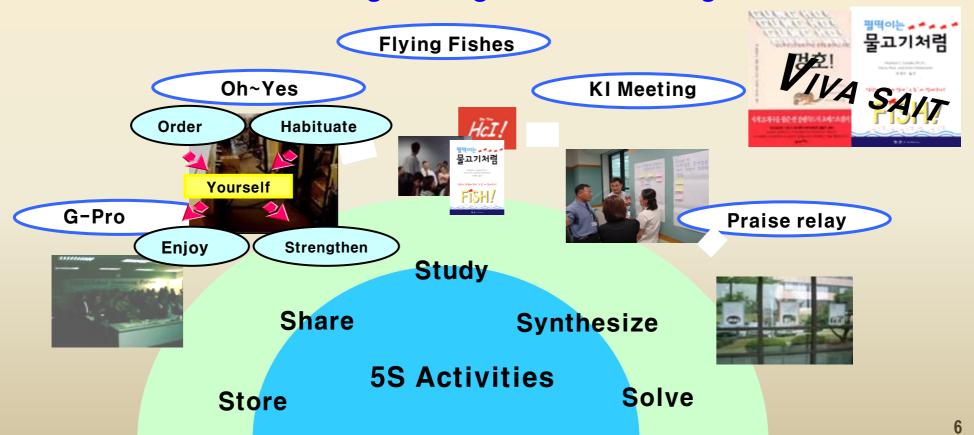
SAIT-DFSS: from long-term strategy to technology transfer

☐ Quality of Strategy	Technology Roadmap	Strategic Project Selection
☐ Quality of Project Plan	Technology Tree	Right Project Planning
☐ Quality of Idea	TRIZ	Creative Problem Solving
☐ Quality of Execution	DFSS(QFD, DOE 등)	Systematic experiment
☐ Quality of Communicat	ion KI, Scorecard	Fusion & Synergy

Innovation Acceleration through Knowledge Management

Capability level-up(G-Pro), Consideration of others (Oh~Yes actives)
Spontaneous participation(Flying Fishes), Visual Planning (KI meeting),
My Share 1/10, your share 10 (Praise relay)

→ 5S activities of Knowledge Management in R&D organization



KSF of R&D Innovation

- Visualization of Hidden Problem
- Open Communication
 - Through WOW Meeting,
 Sharing the Goal and Scheduling of the project



Creative Management: Organization

Knowledge Sharing & Brain Storming

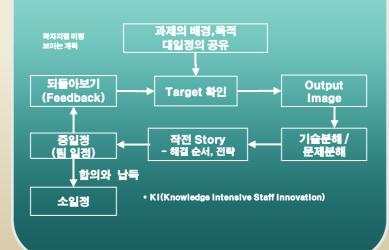
- Man & Man, Team & Team -

USA (GE)

- Workout
- Speed, Simplicity, Self-Confidence
- Change Acceleration Program
- Shape a Vision
- Make Change Last
- Monitor Progress etc

Japan (Cannon)

KI Meeting



Korea (Samsung)

Process Meeting (Every Wednesday)

"눈치 안 보고 토론하는 문화"

Creative Management: Individual



Fusion of Left & Right Brain

- Left : managing common affairs
- Right: responding the stimulus (Goal, Crisis, Passion etc.)









생각의 뒷다리는 사상(捨象)

- 부정적 사고
- 패배주의
- 무책임
- 소극적 생각 等

- 매일 논문 1건 읽기 (Paper)
- 매주 특허조사, 매년 1건 해외특허(Patent)
- ・분기 CDP 점검 (Career)
- · 6 Sigma GB 필수 (R&D Method)
- · 하루 10분의 사색 (Purpose of life)

- ·매월 고객과의 만남 (CTQ)
- ·세계고수 10명과 네트워킹(Networking)
- · 동료 功 10배, 나의 功 1/10(Big Heart)
- 점에서 선·면·입체로 (X-Eng.)
- 최고, 최초에 도전 (Great Goal)

Major Achievements (2006)

Creative Management is essential to Blue Ocean

4G Mobil Communication

CTF (Charge Trap Flash)

LCD TV 「Bordo」







Great Work Place

Happiness Sharing 125

Good Things

Good Books

Thanks Giving

- Doing 1 good things
 - a week
 - Practice acts of kindness
 Learn to forgive

- Reading 2 books
- a month
- Book club, Reading circle

- Practicing 5 thanks
 - a day
 - Count your blessings
 Thank a mentor

Best Practice Sharing & Propagation

Three-way Communication, WOW