

## 신기능성 가공기술 및 제품

2009. 7.  
순 성 군

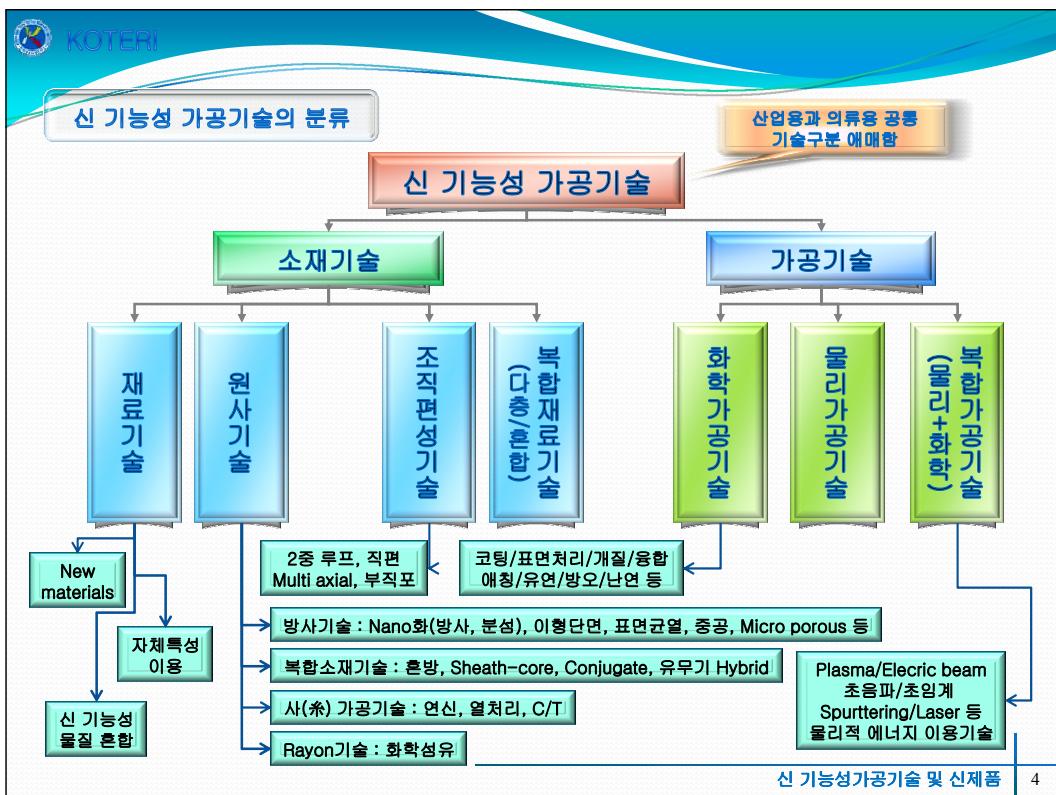
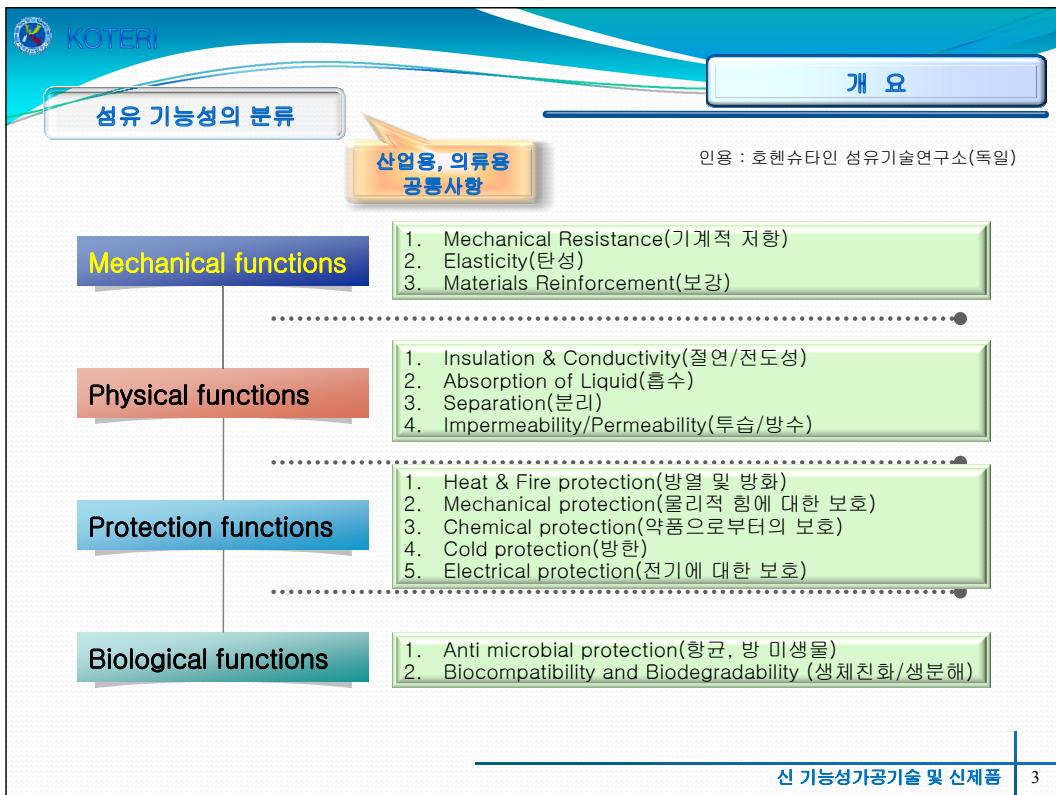
한국 섬유소재 연구소

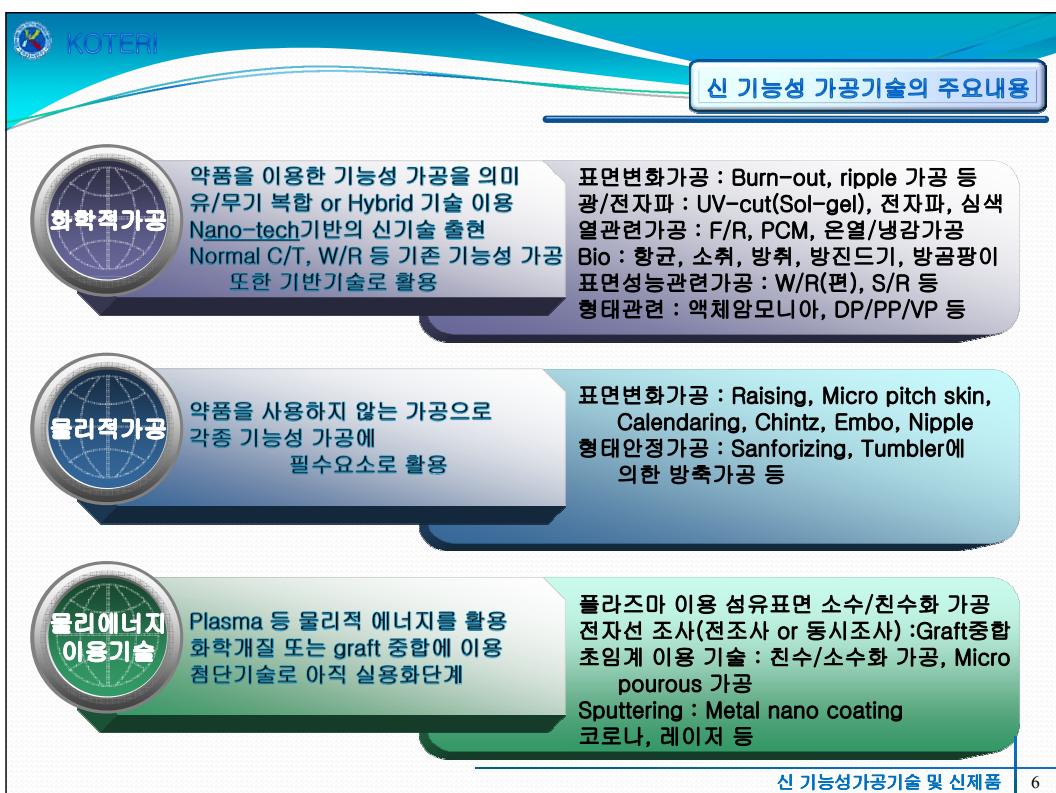
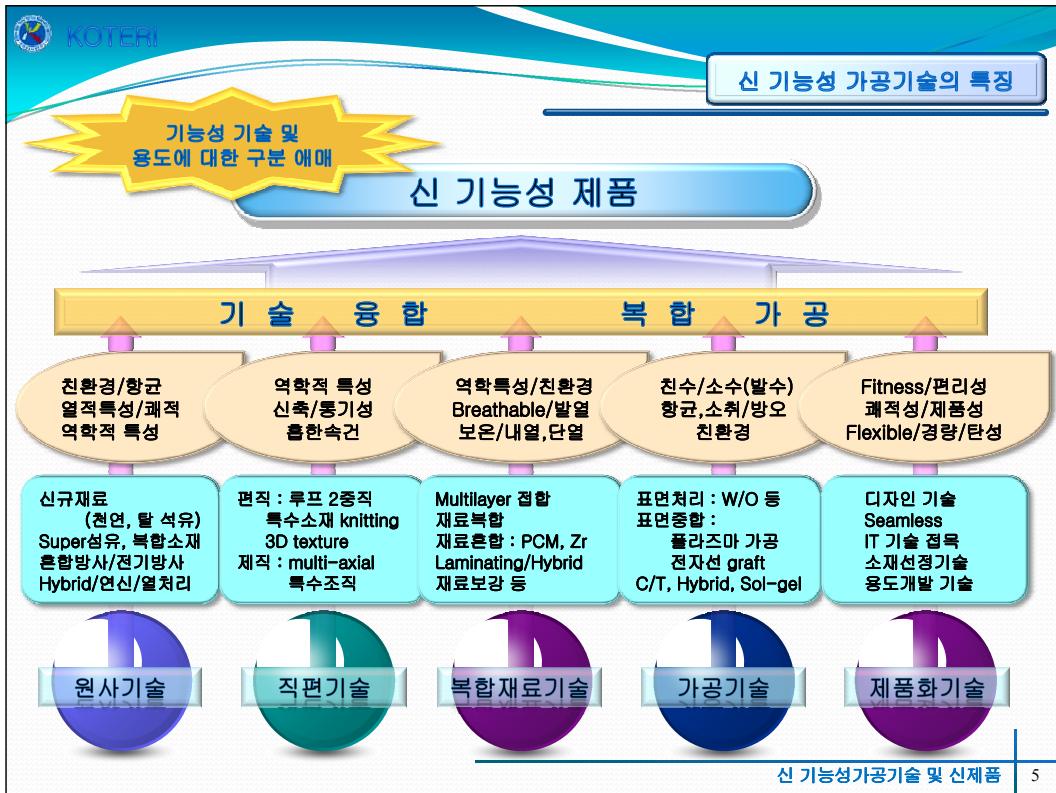


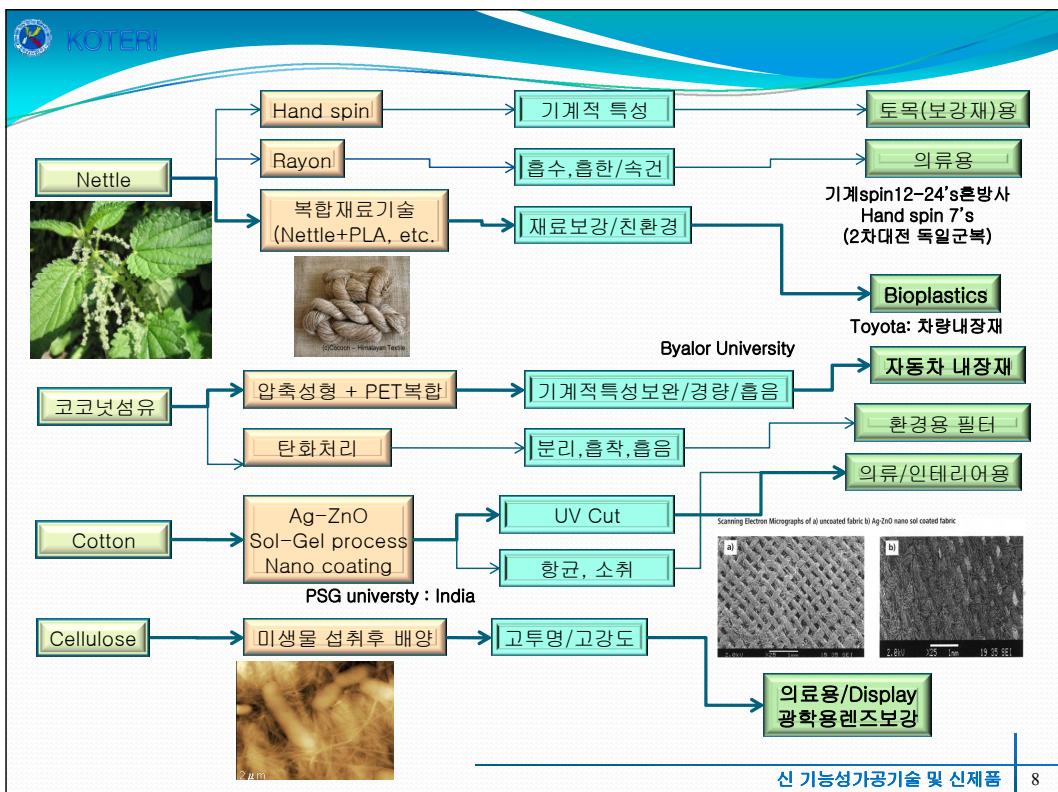
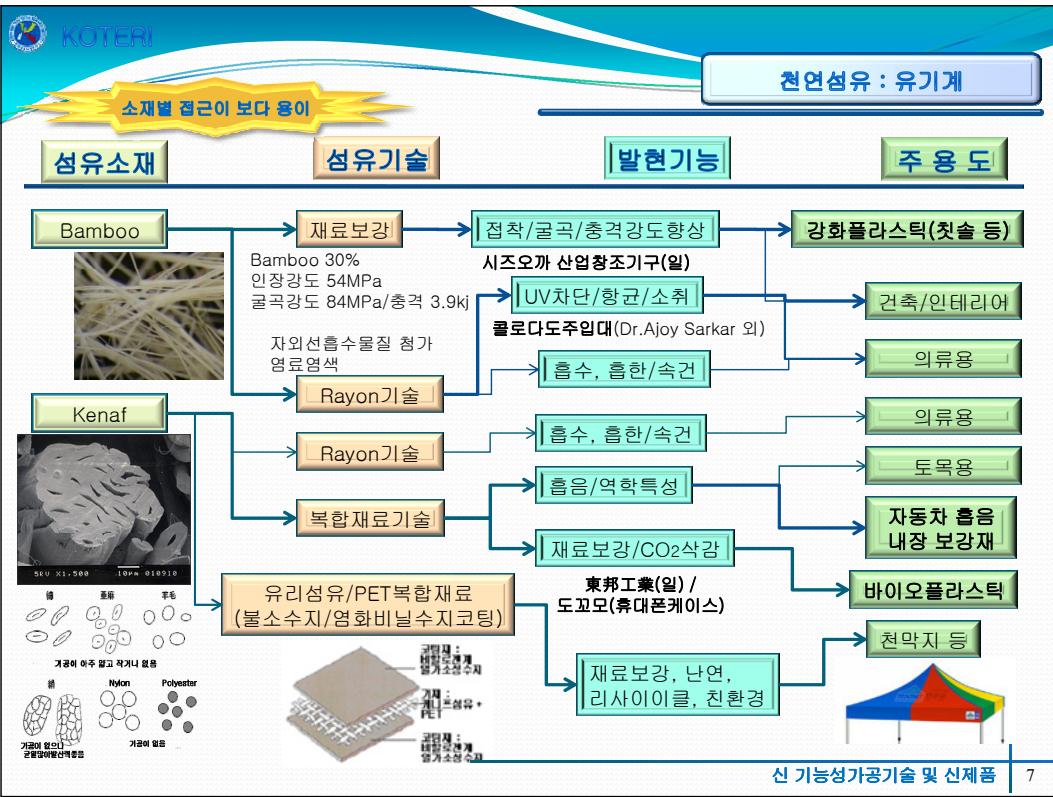
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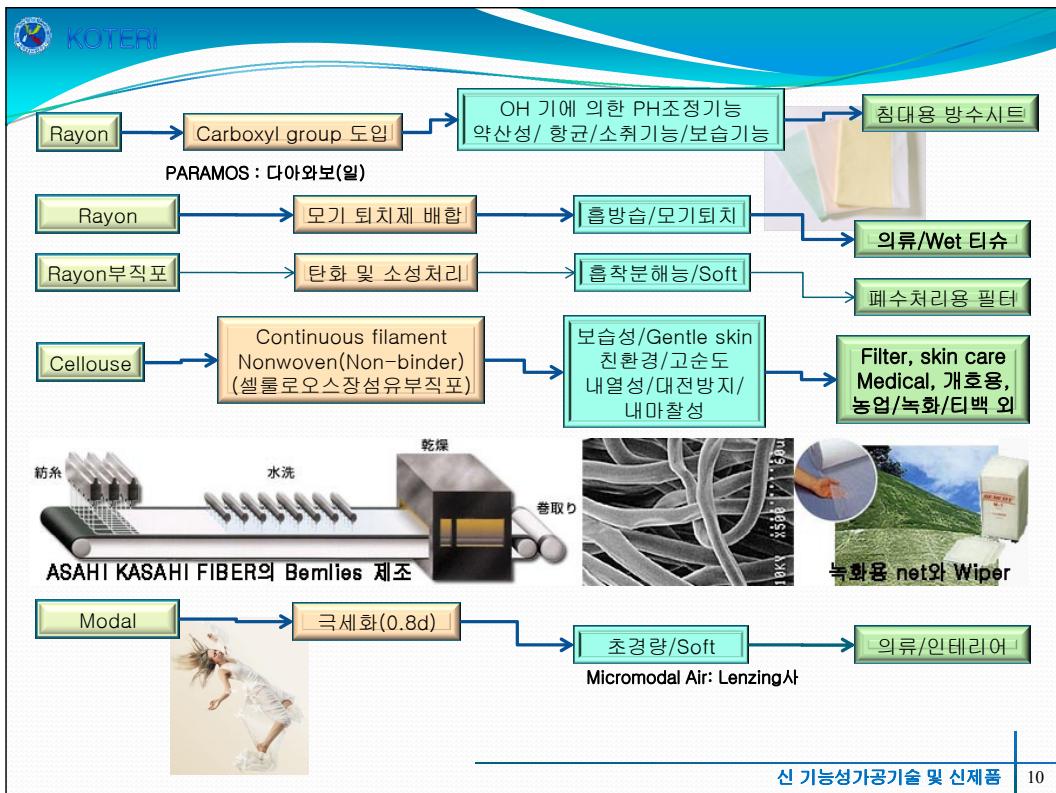
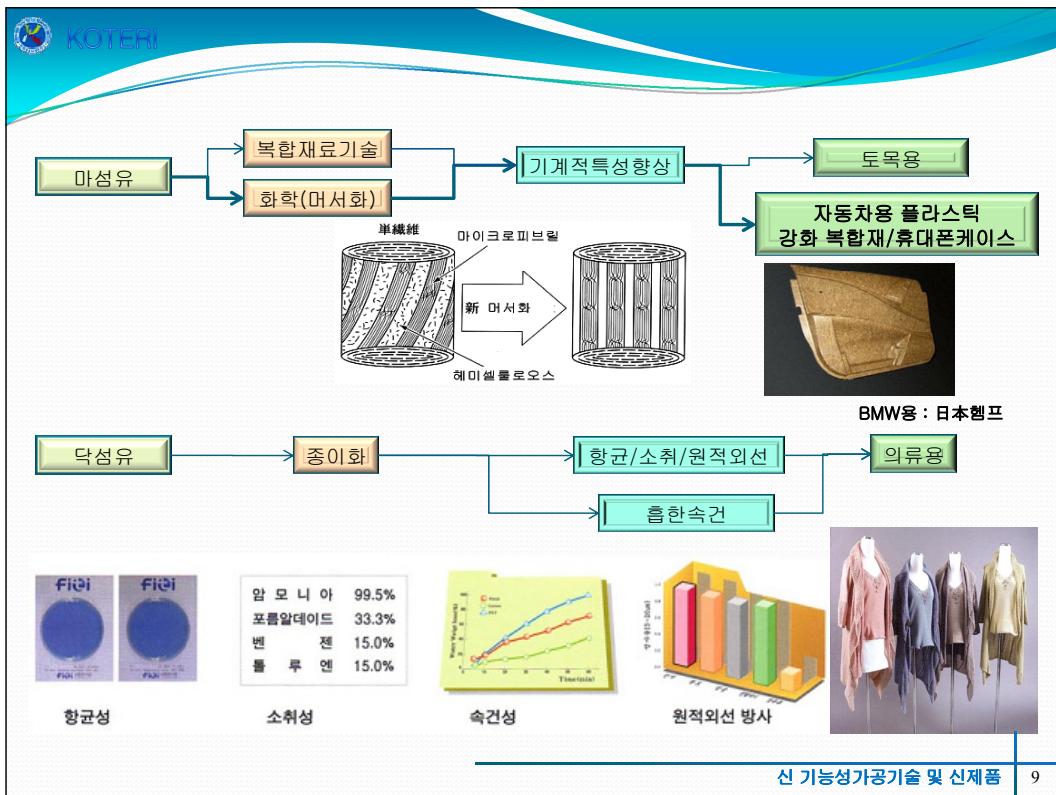
### 신기능성 가공기술 및 제품

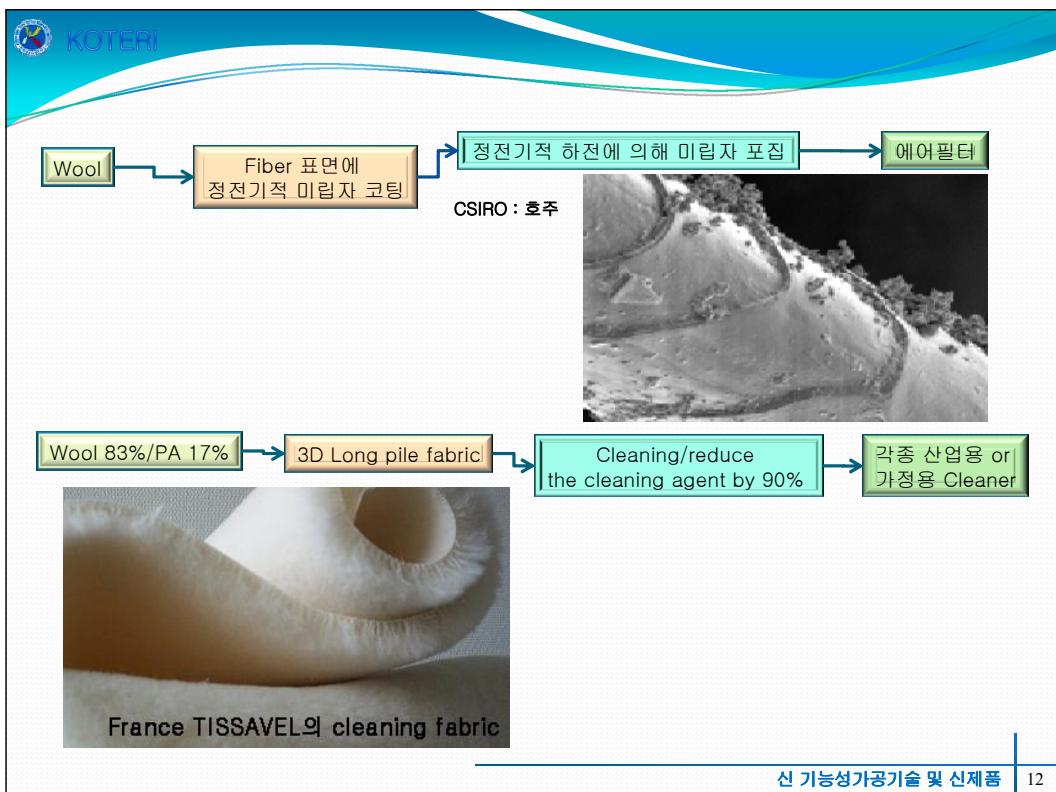
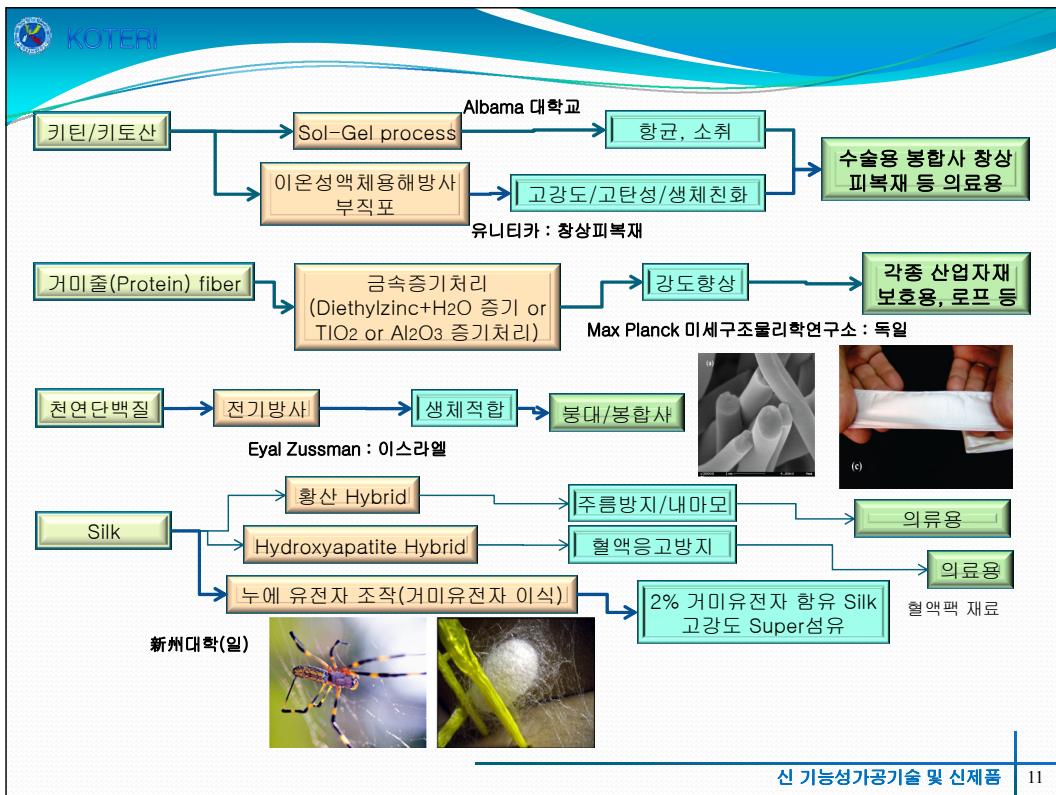
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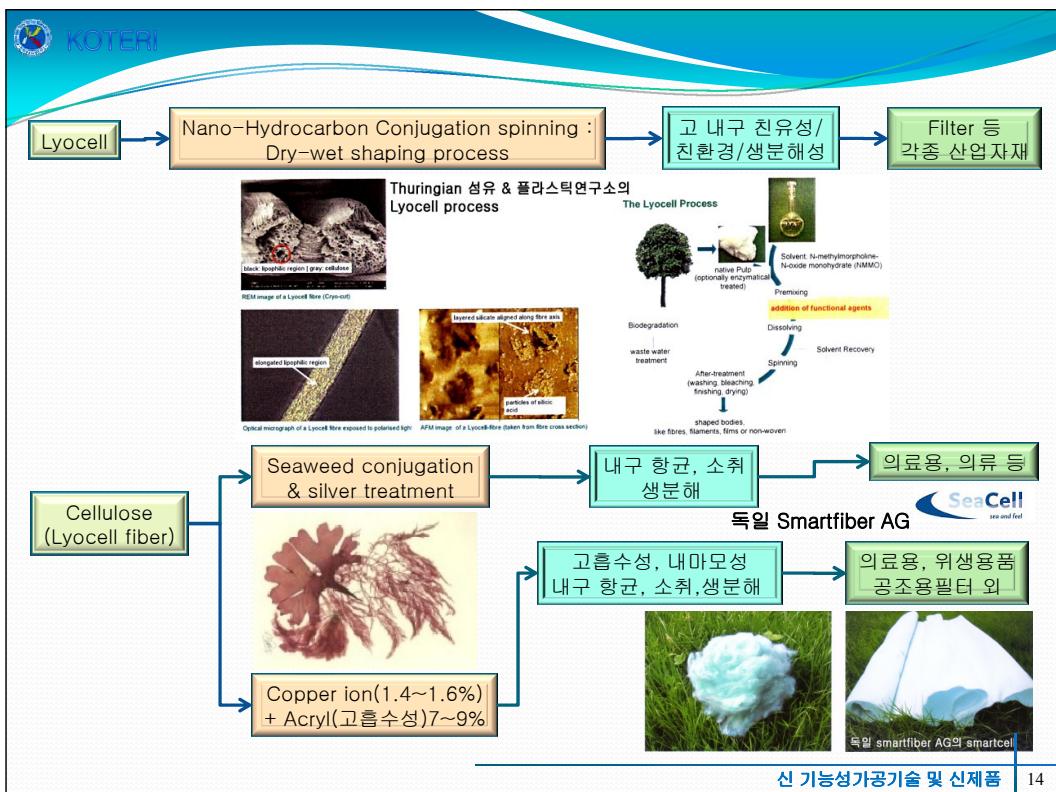
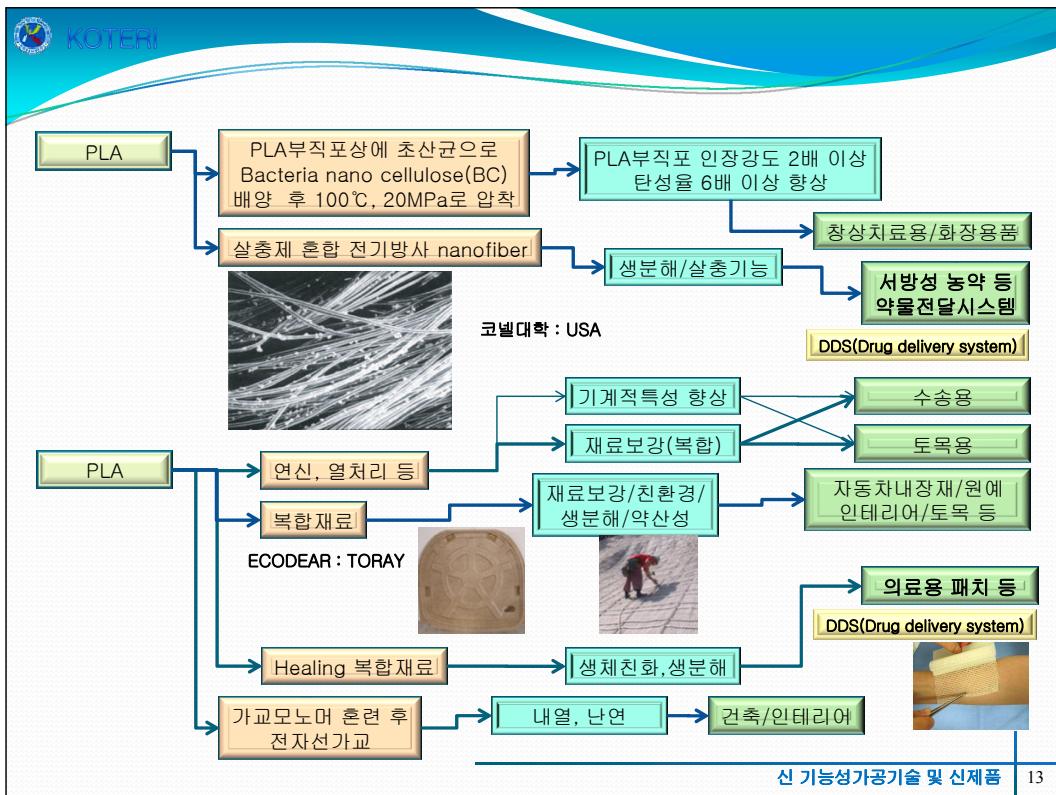


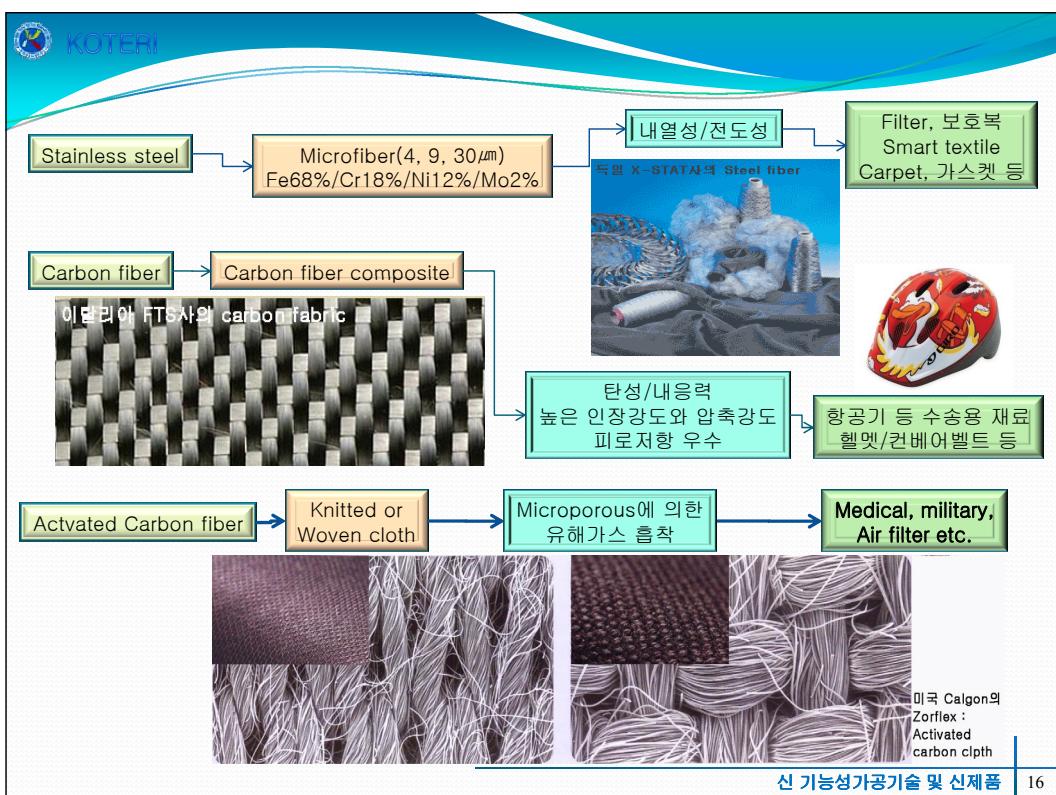
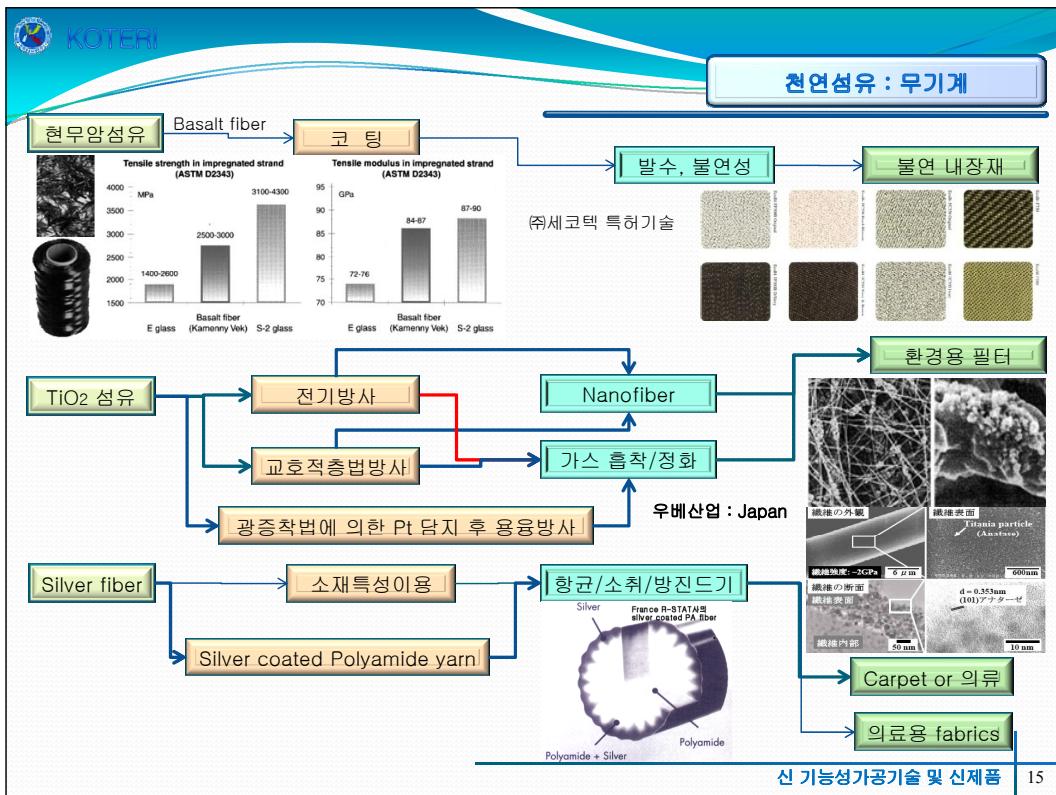


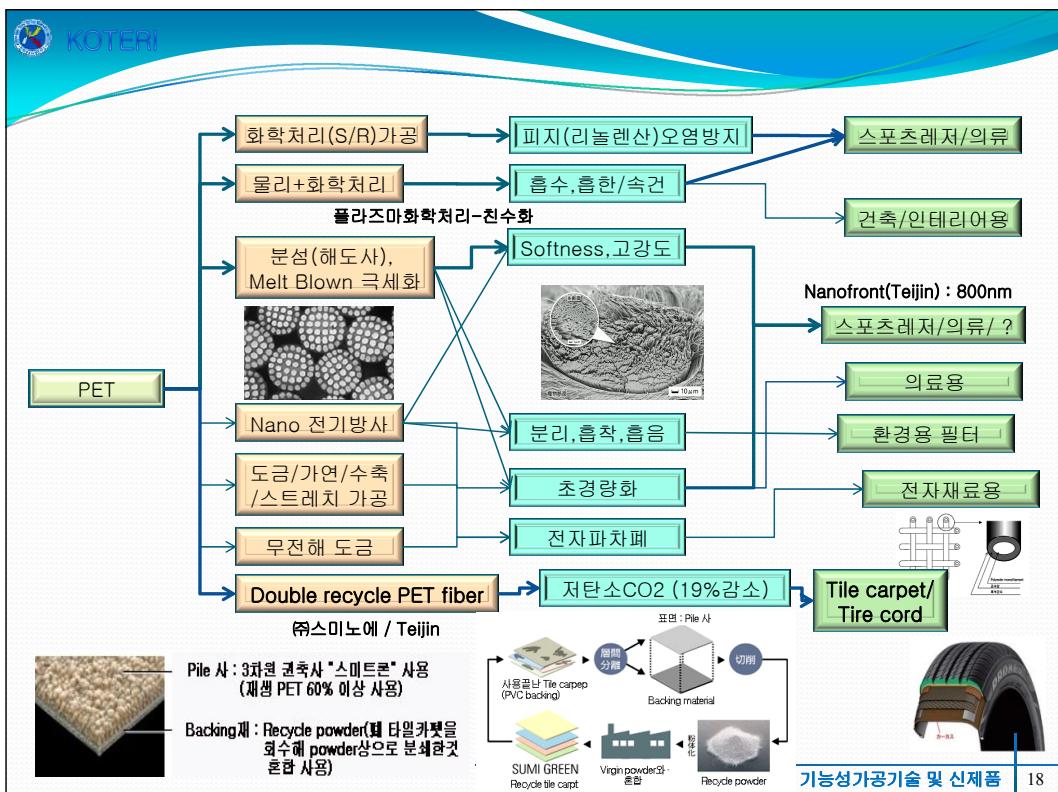
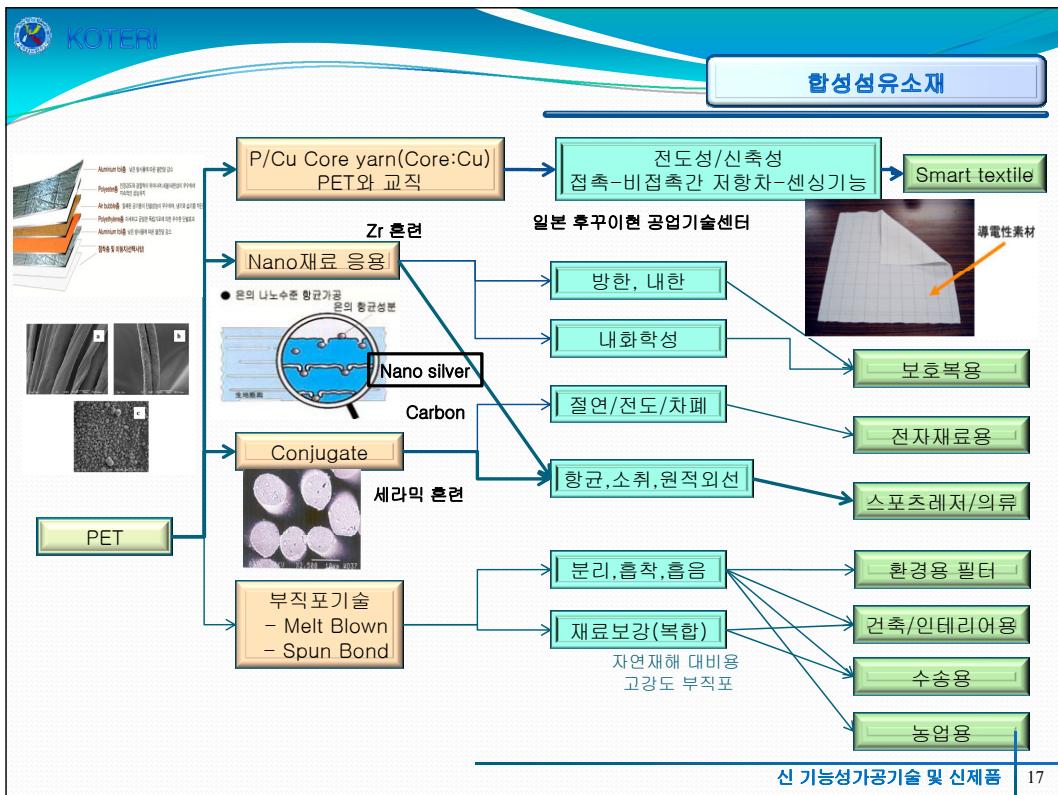


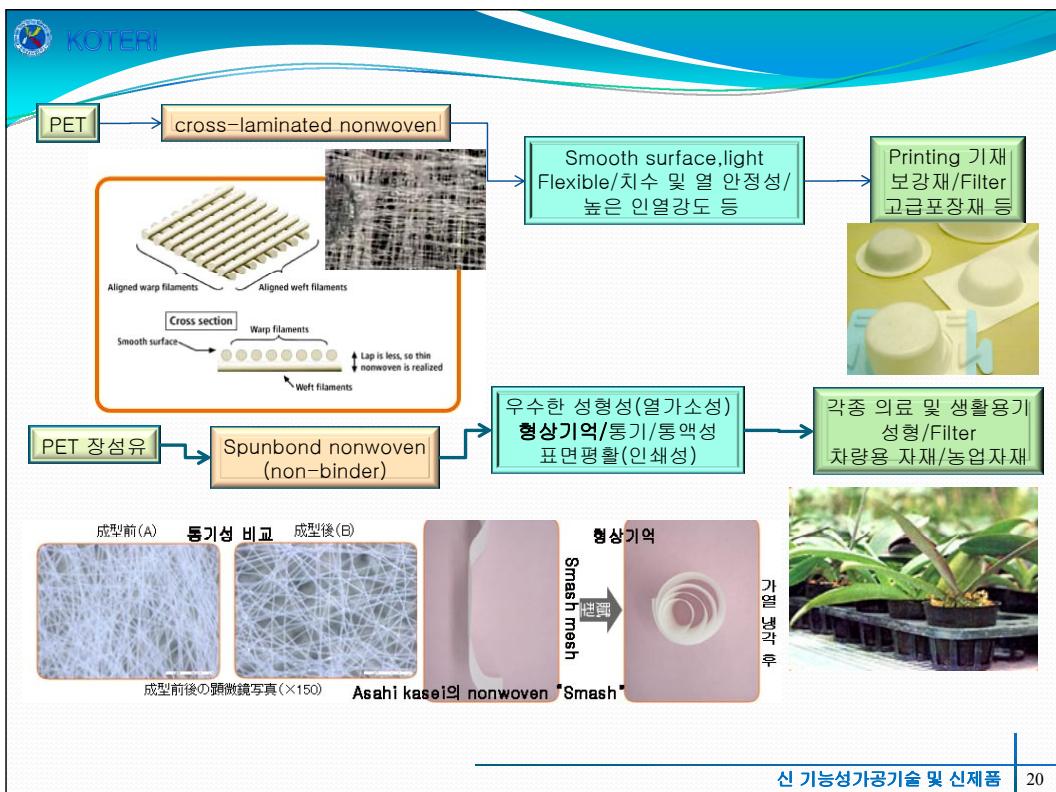
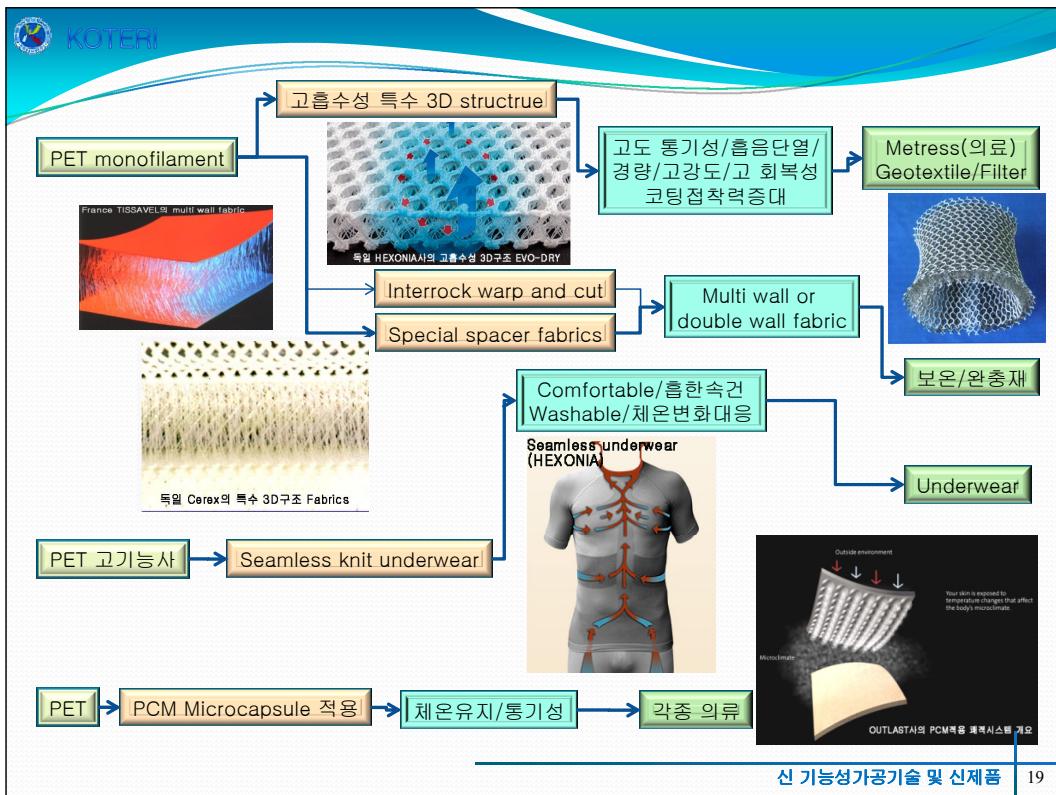


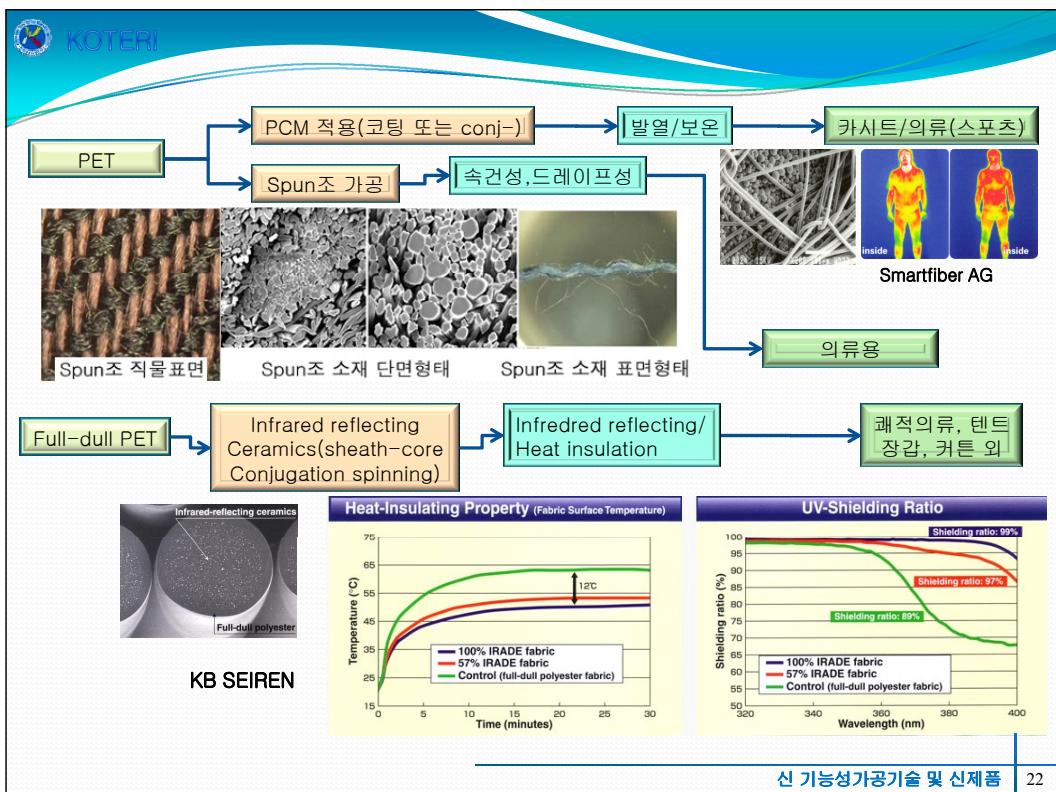
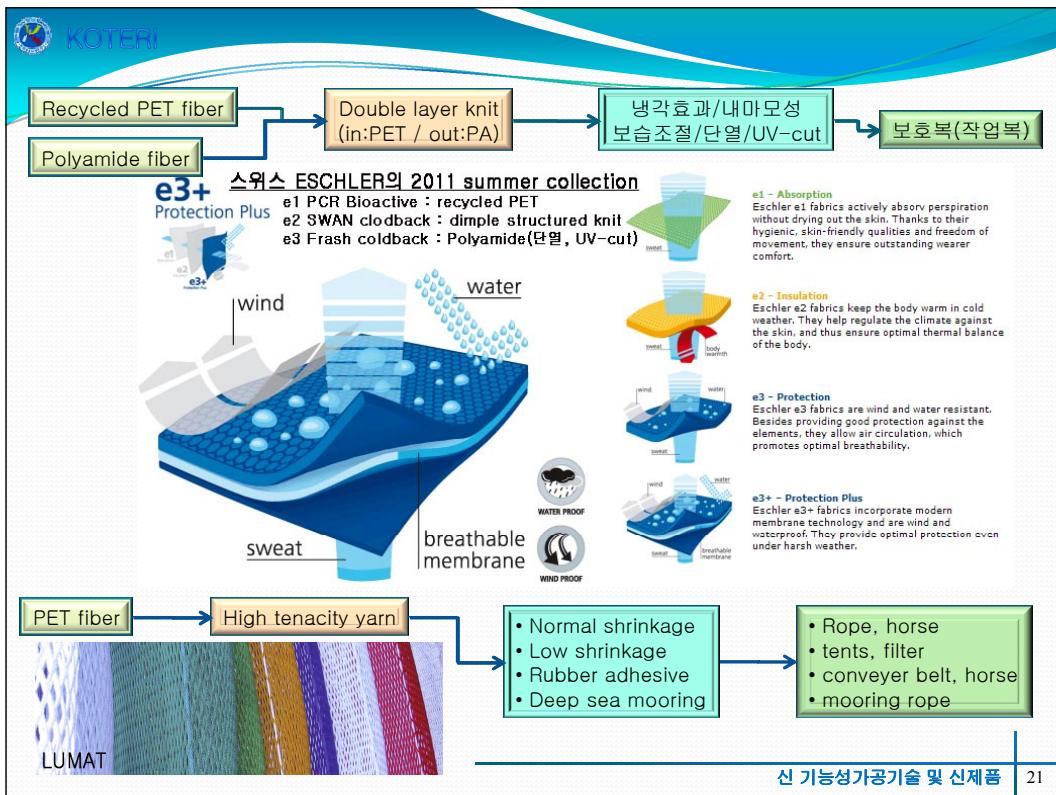


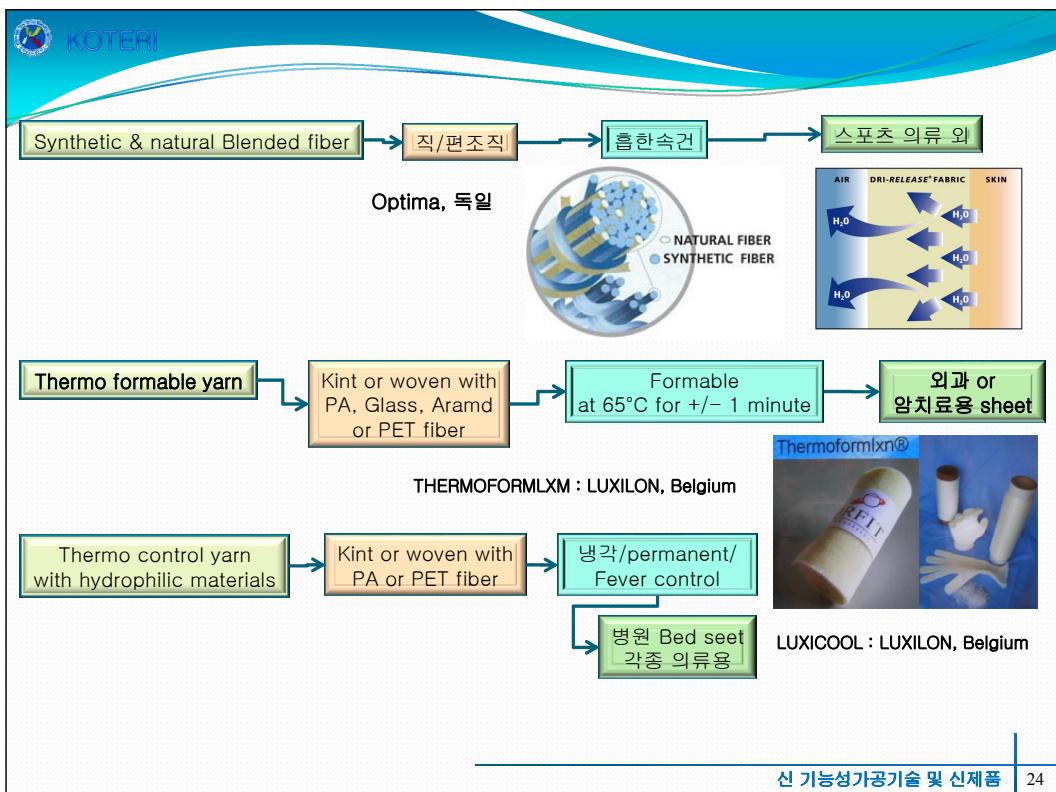
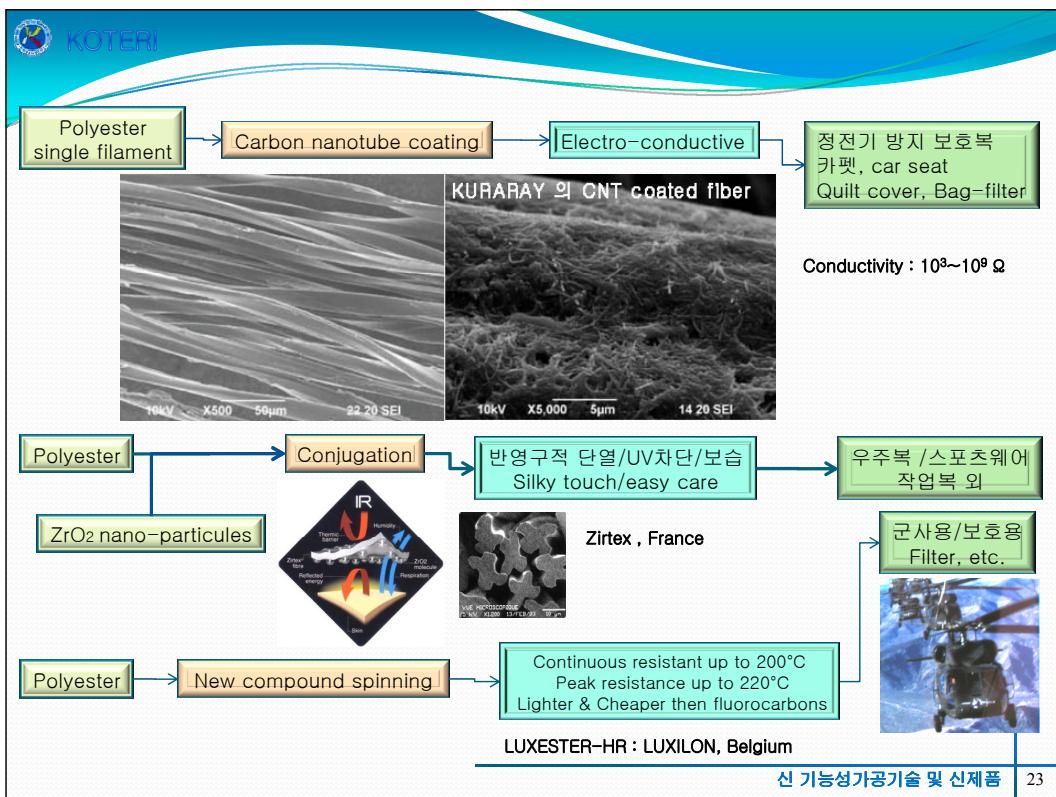


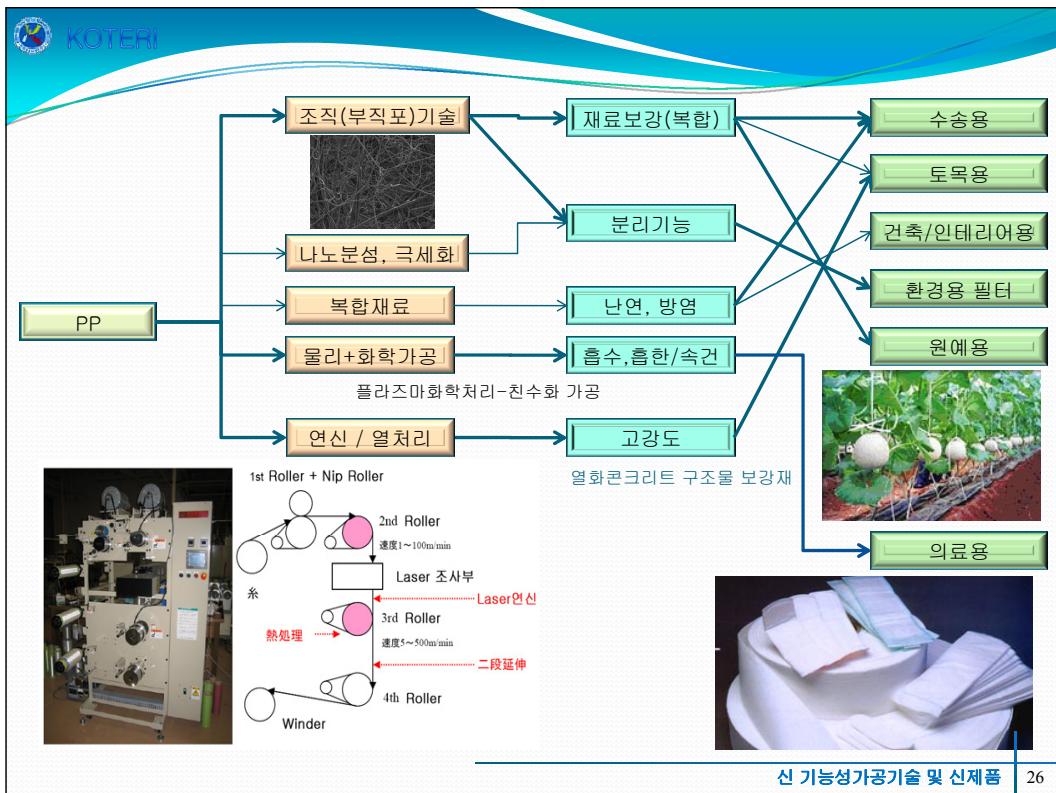
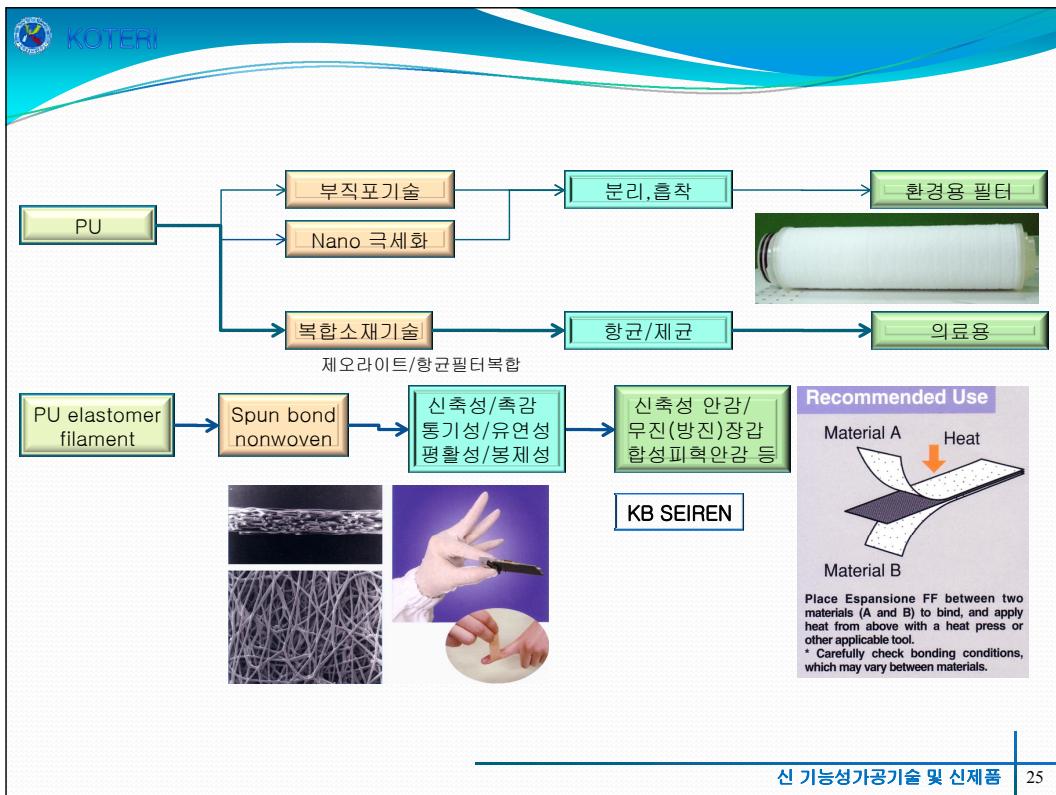


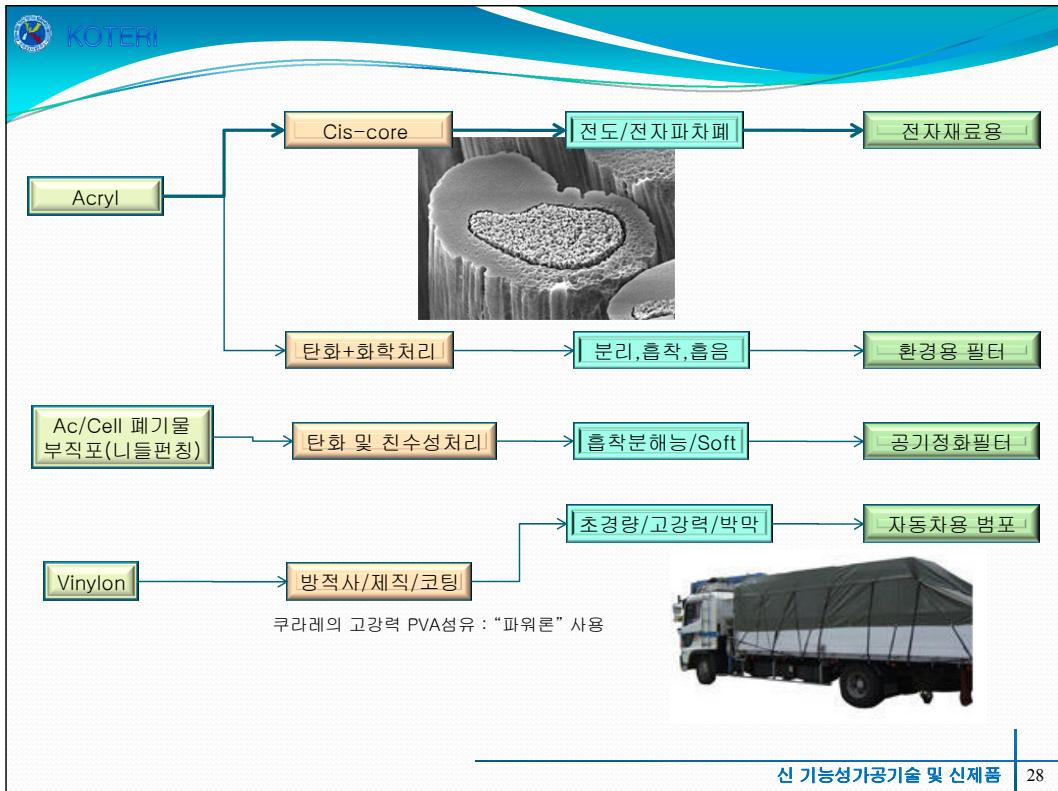
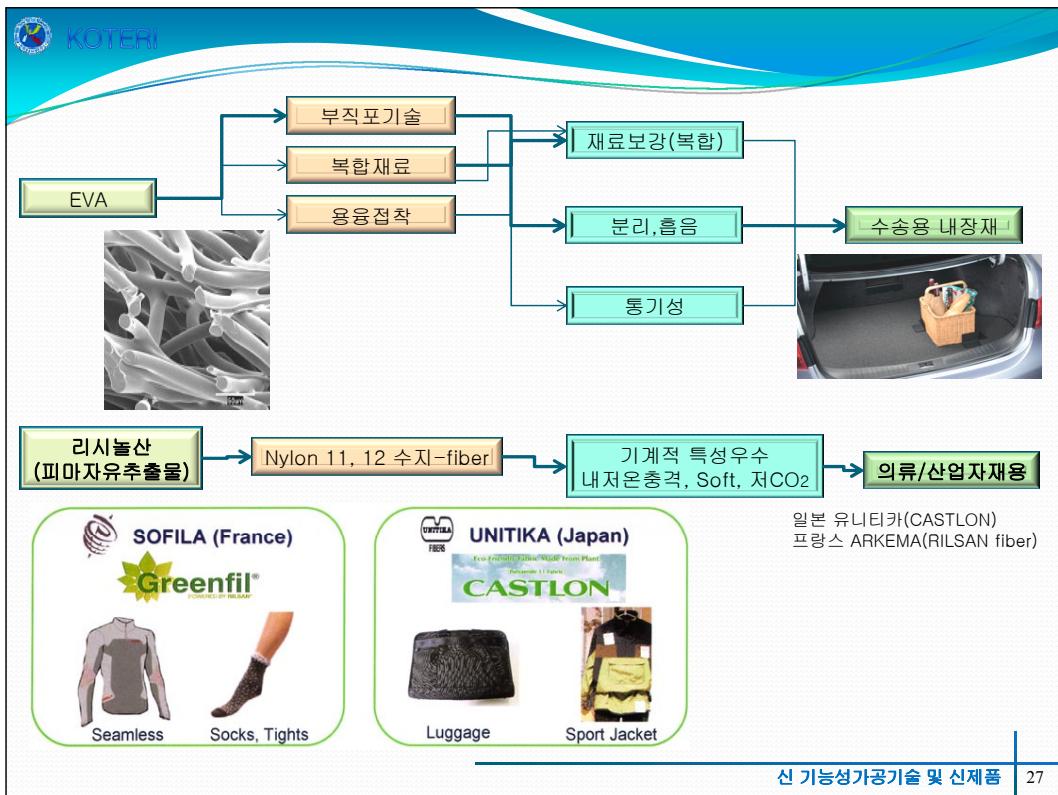


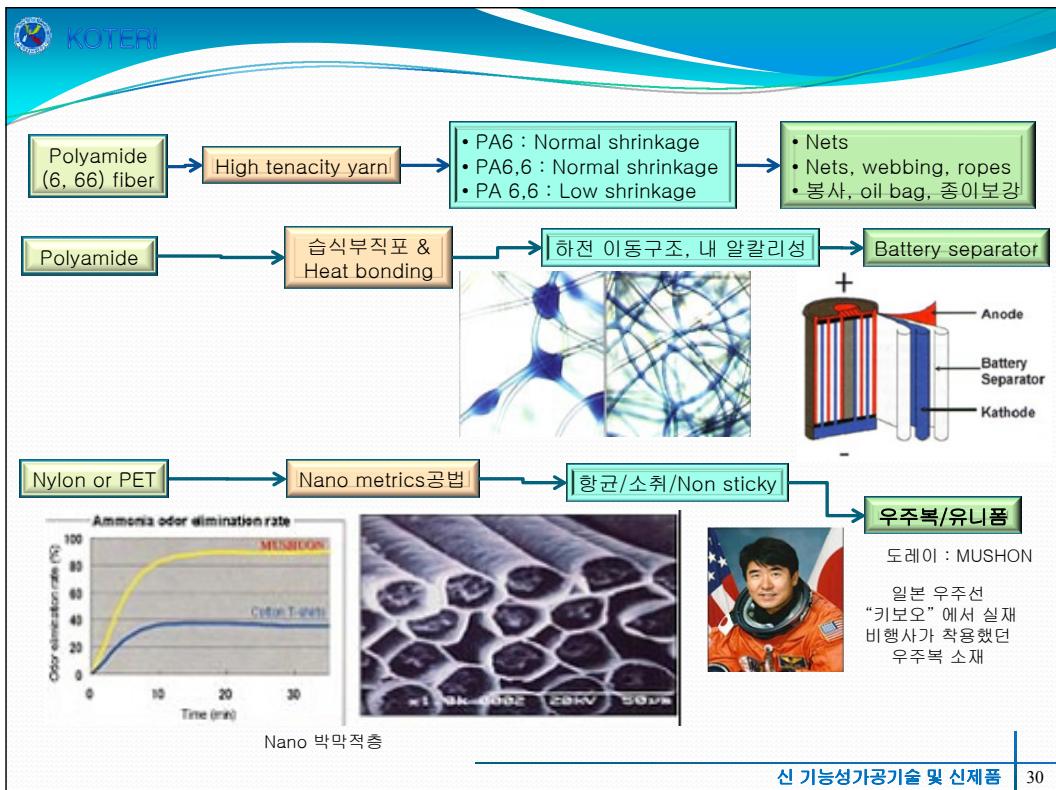
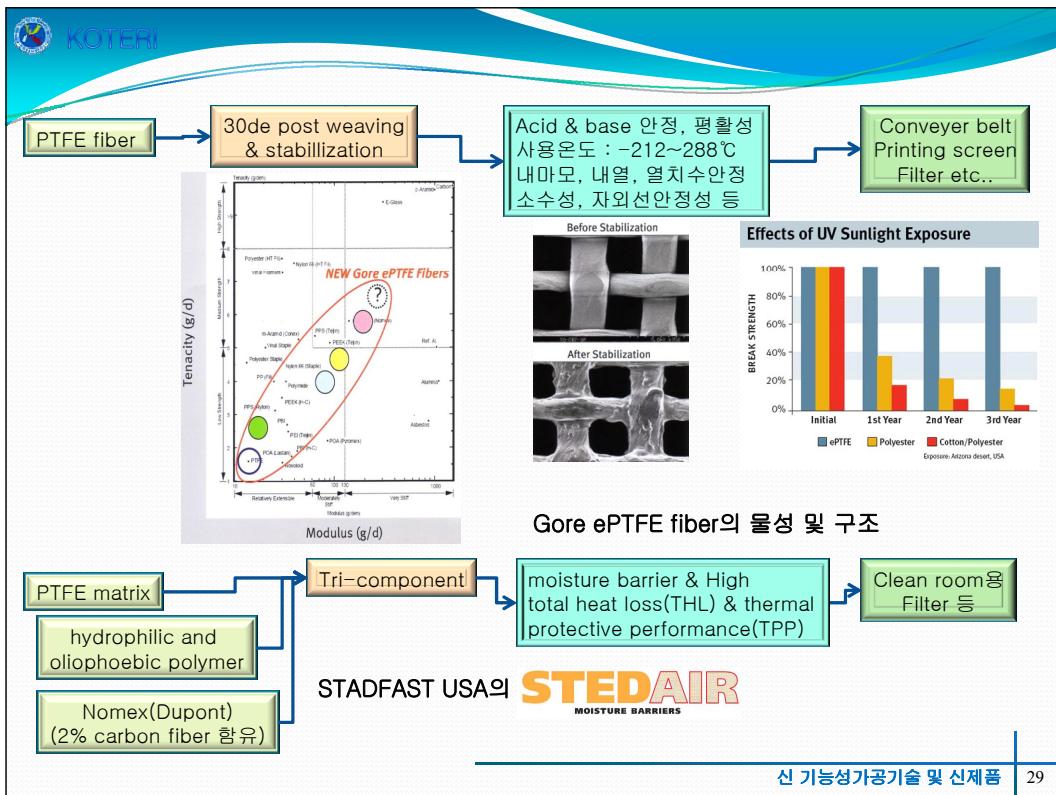


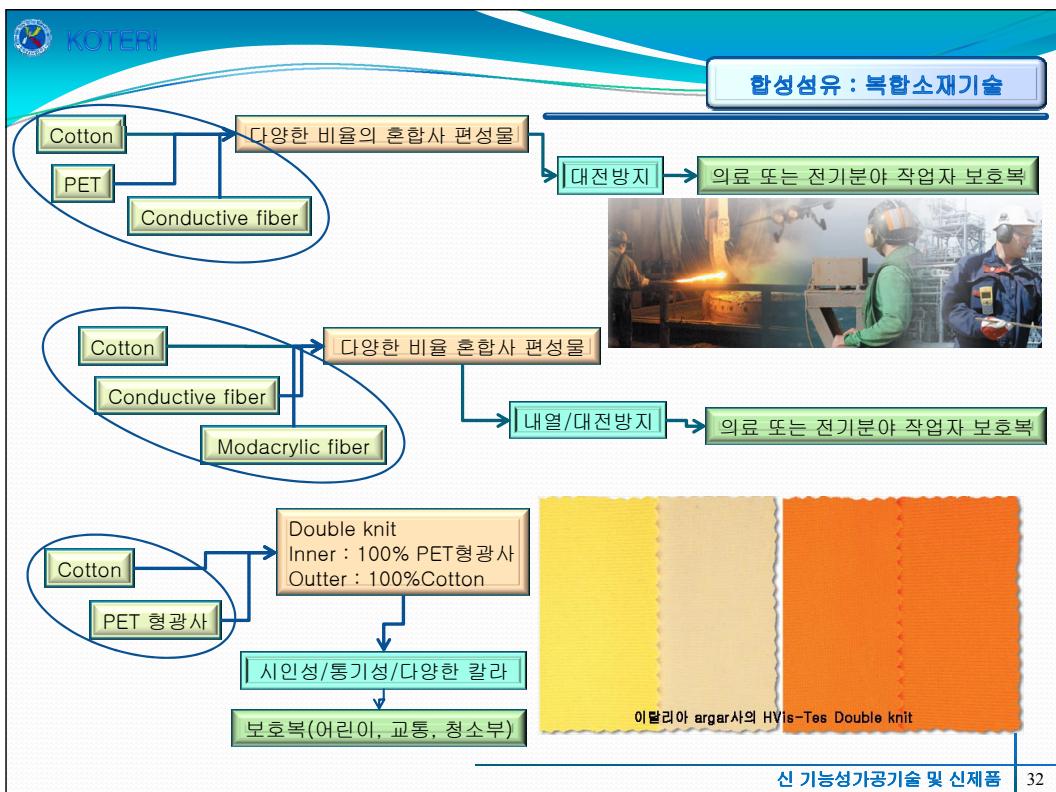
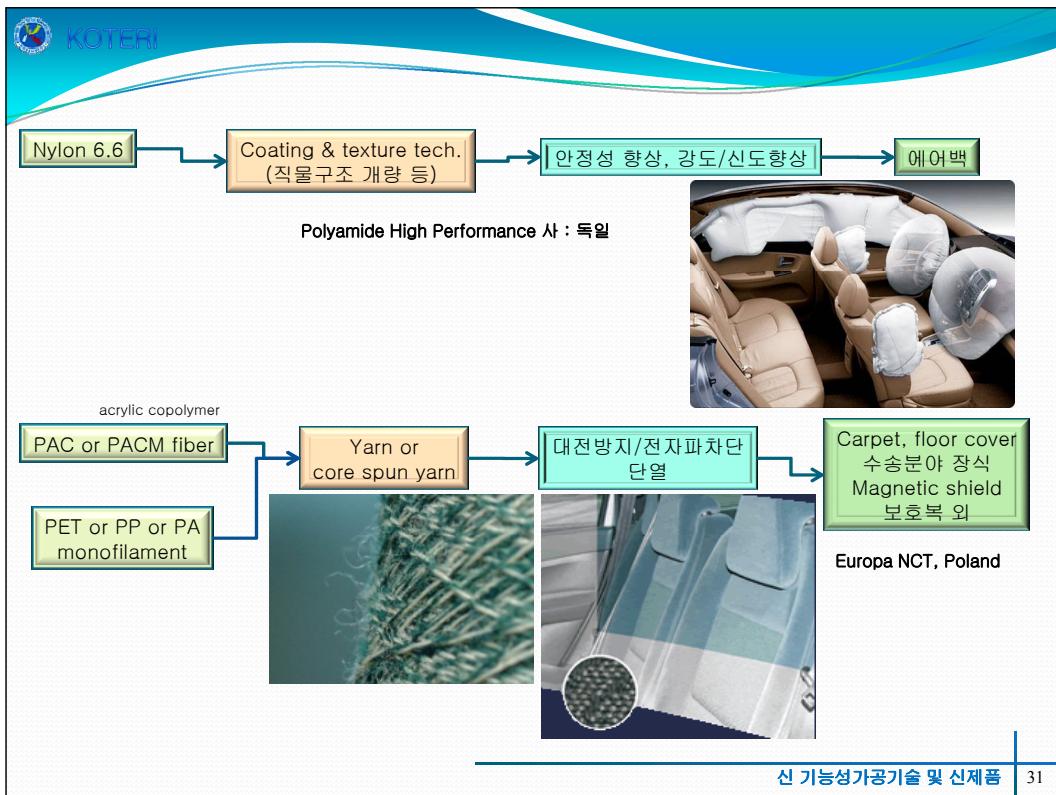


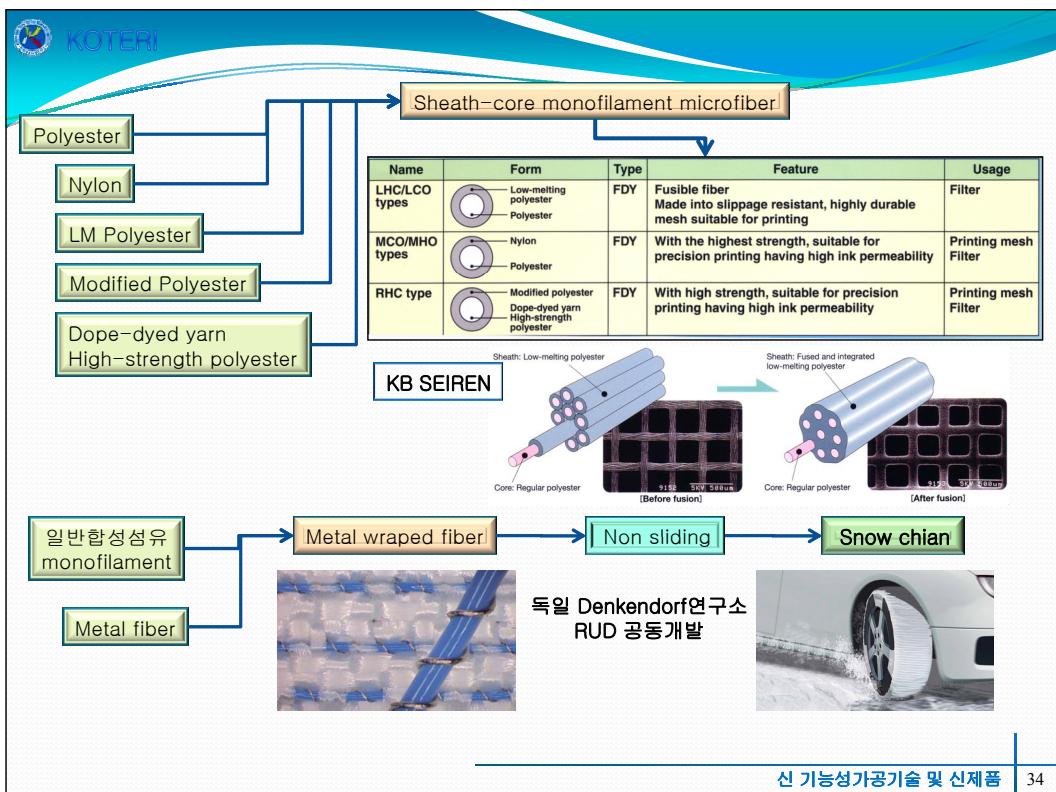
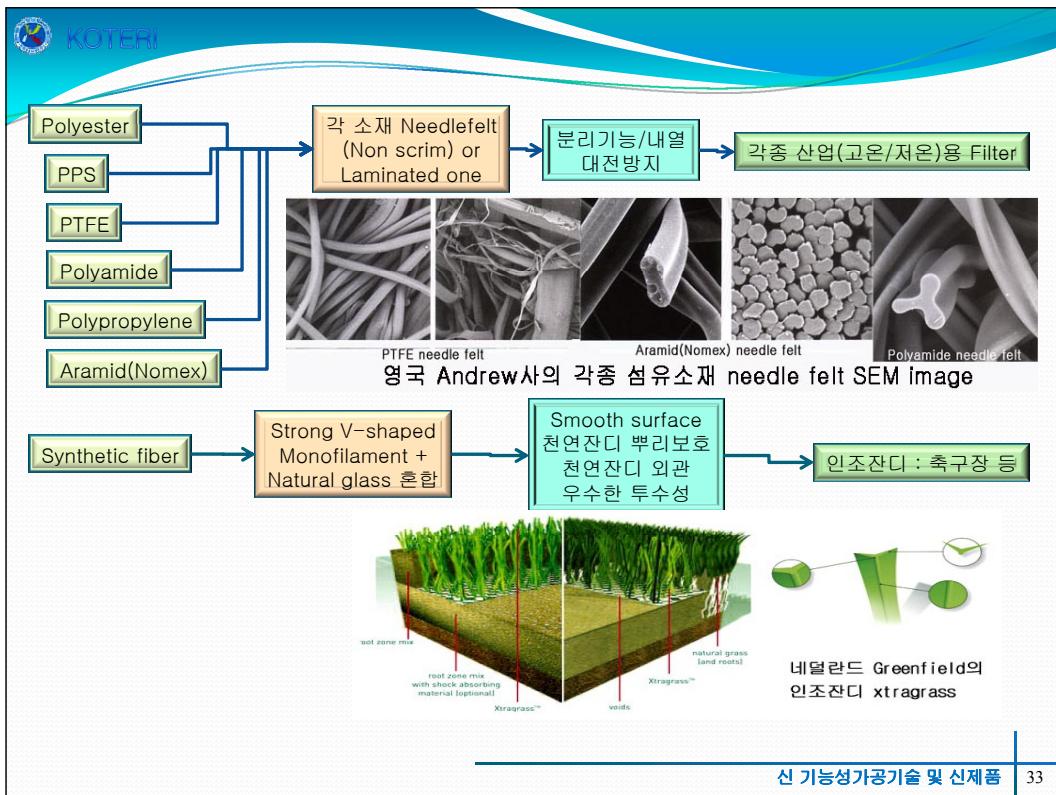


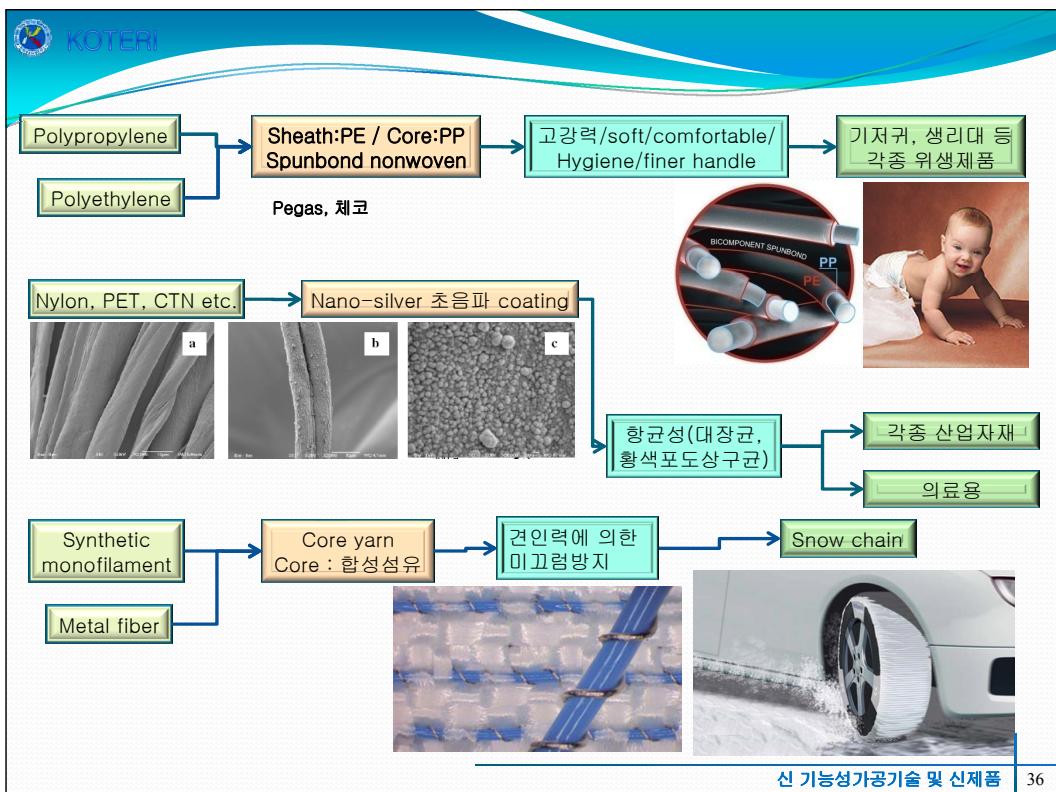
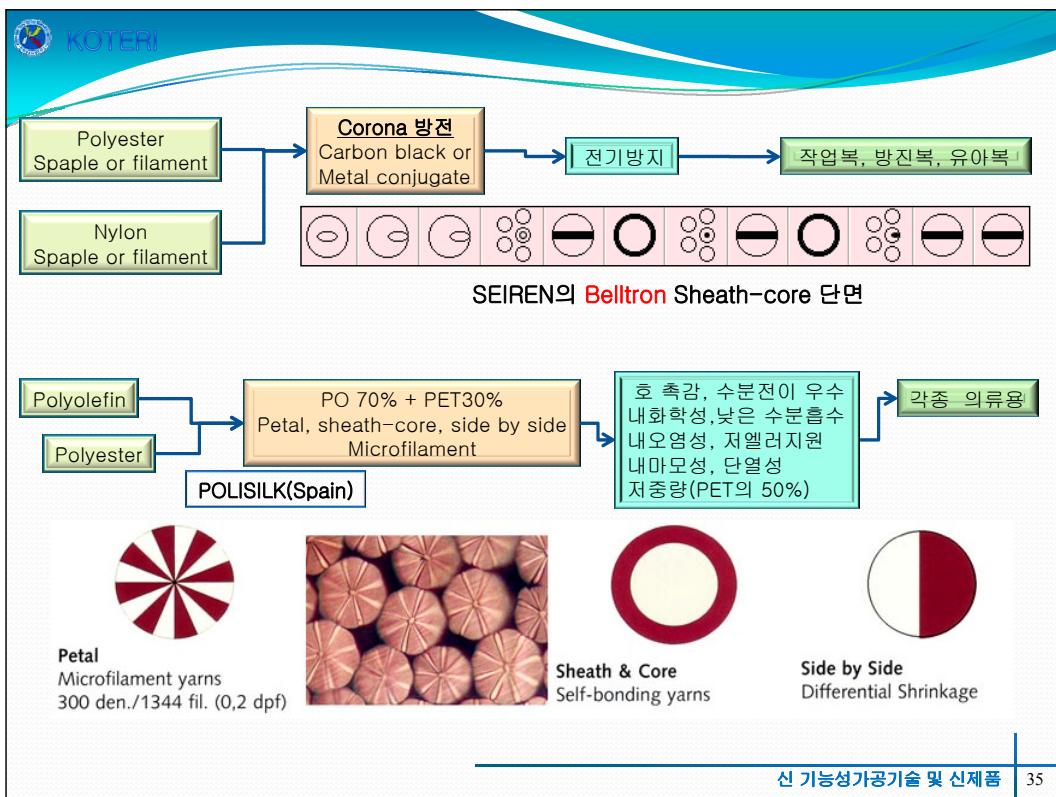




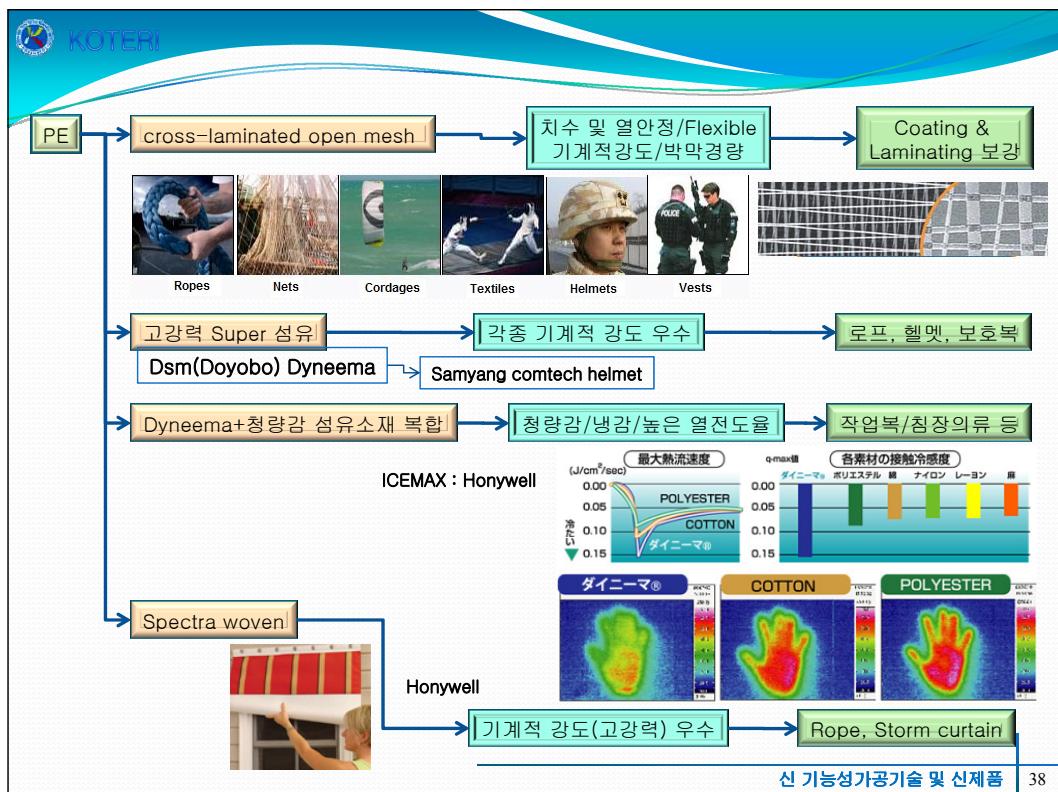
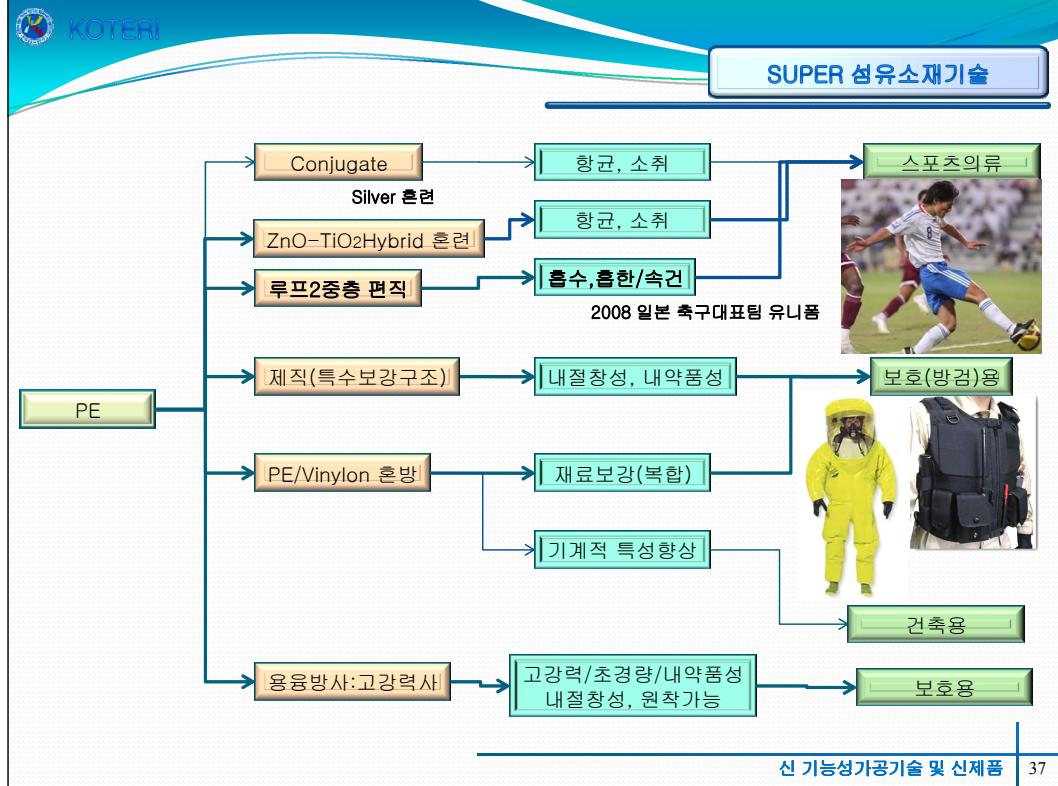


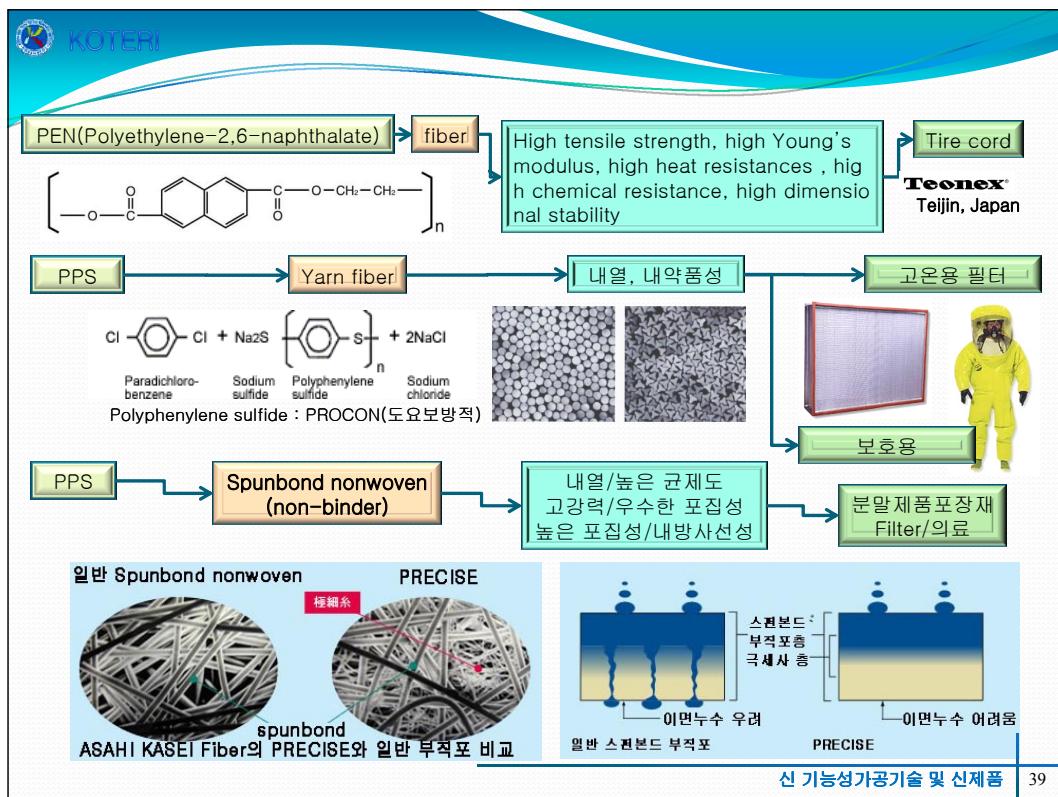


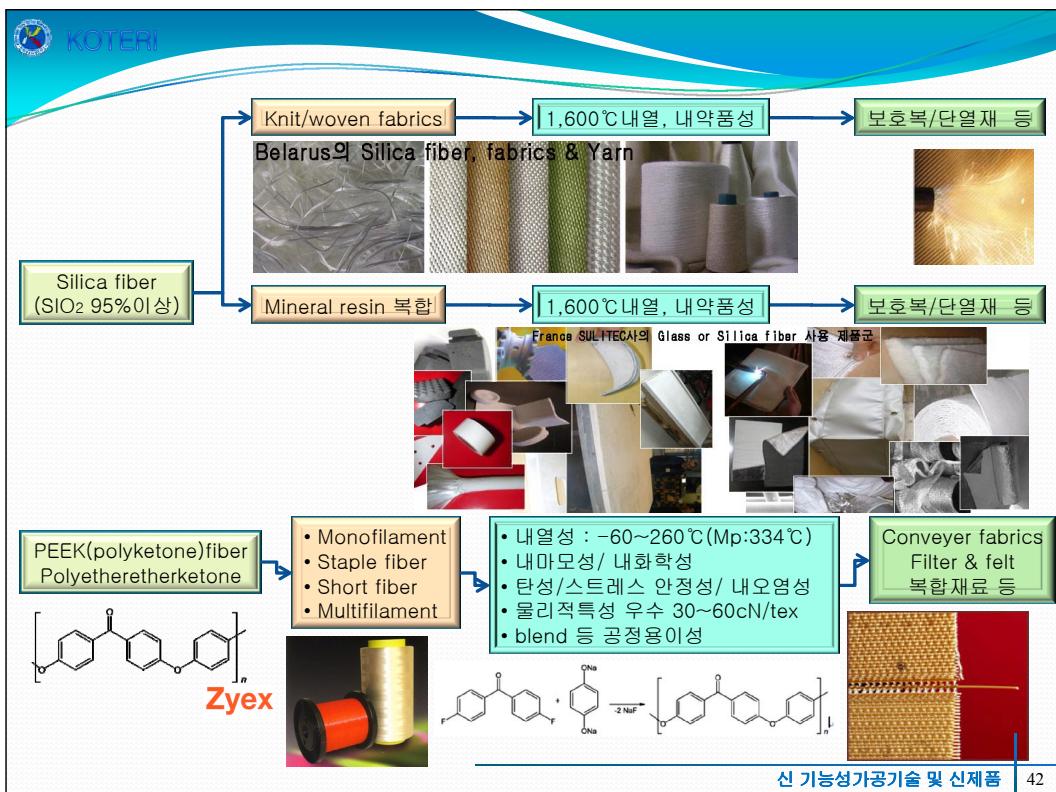
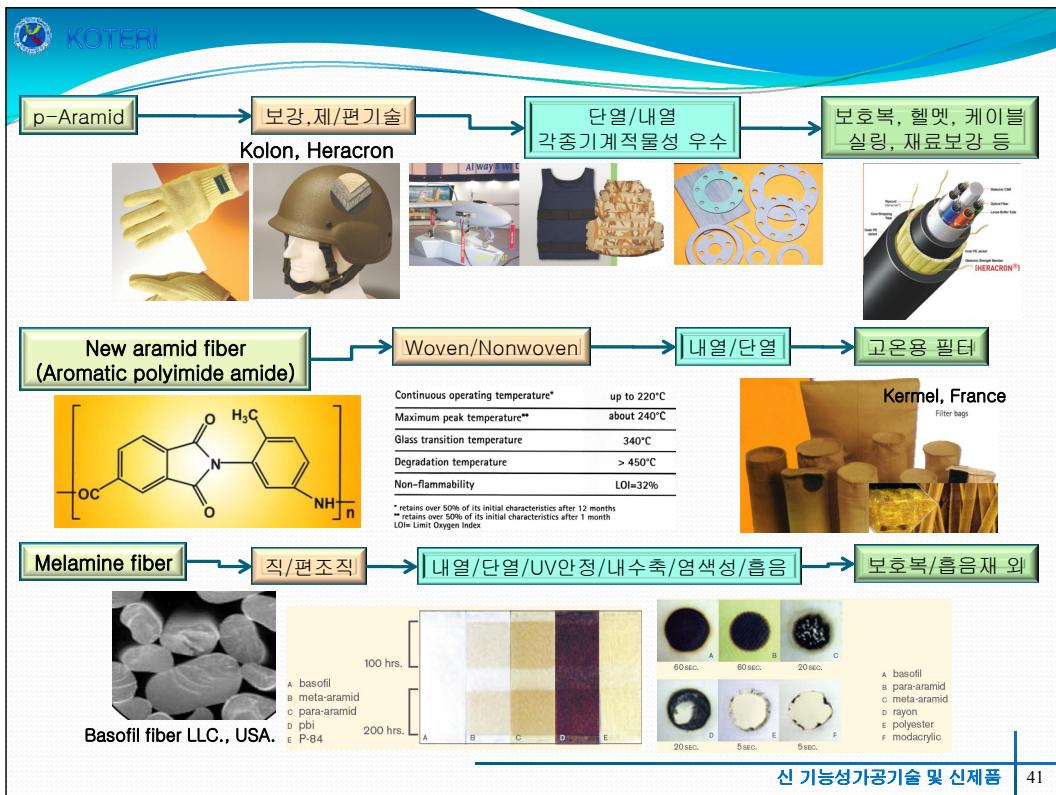


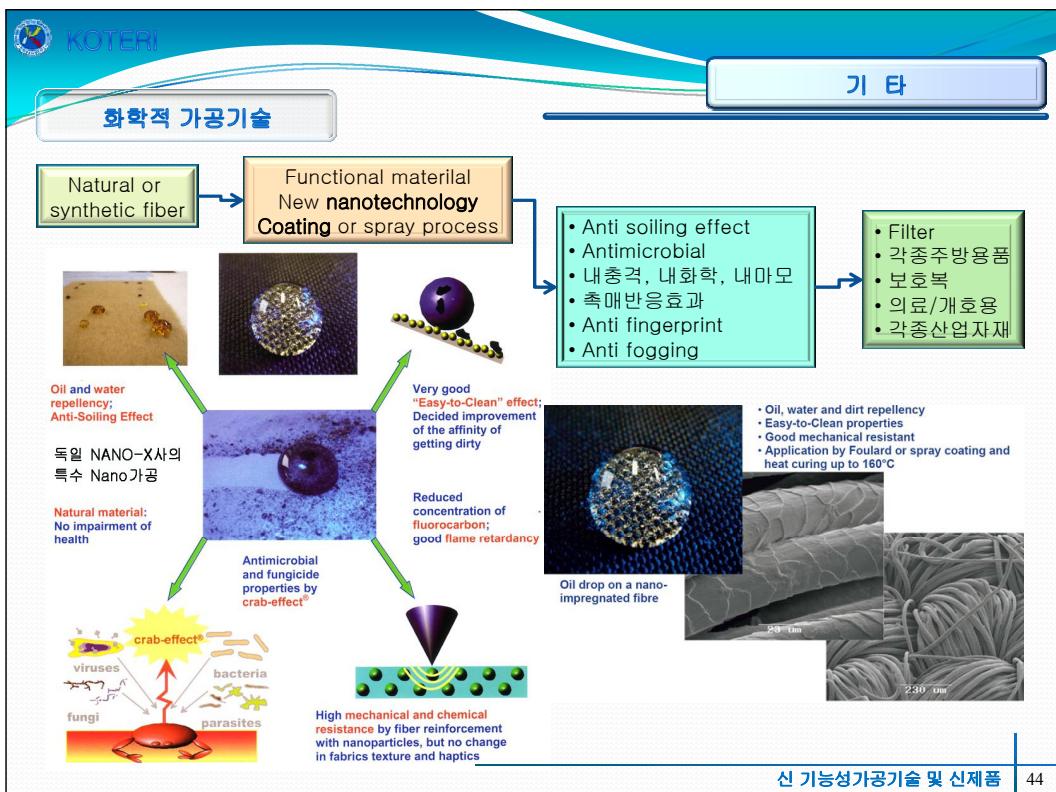
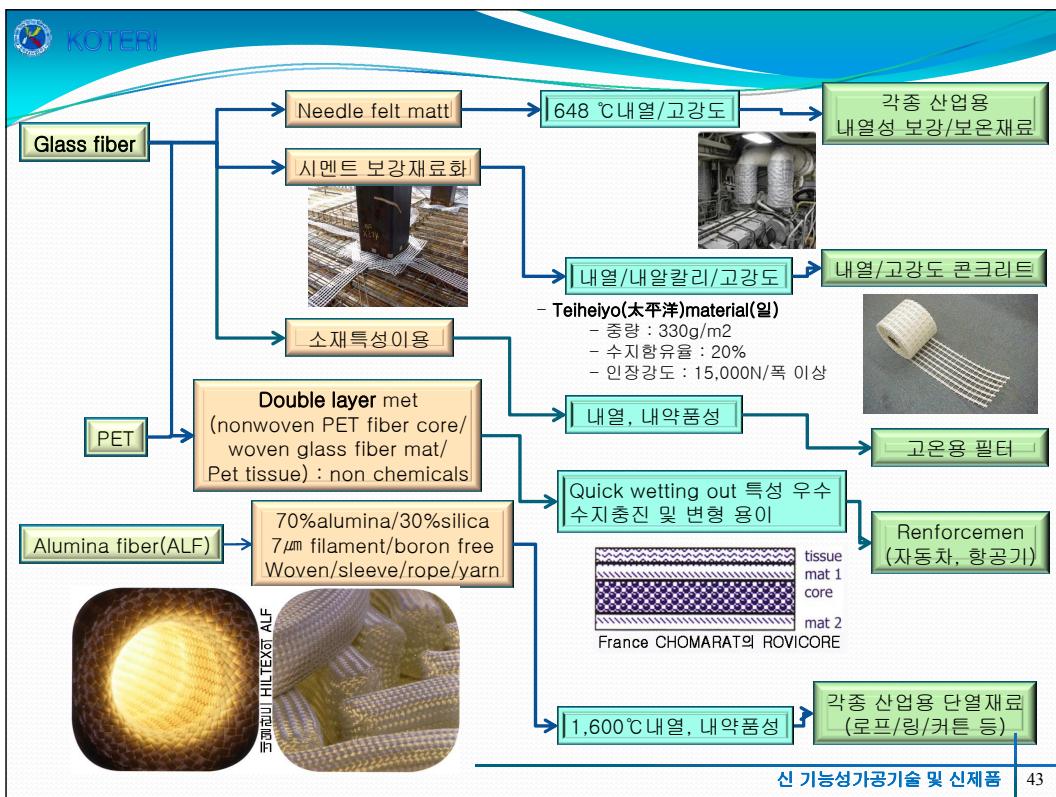


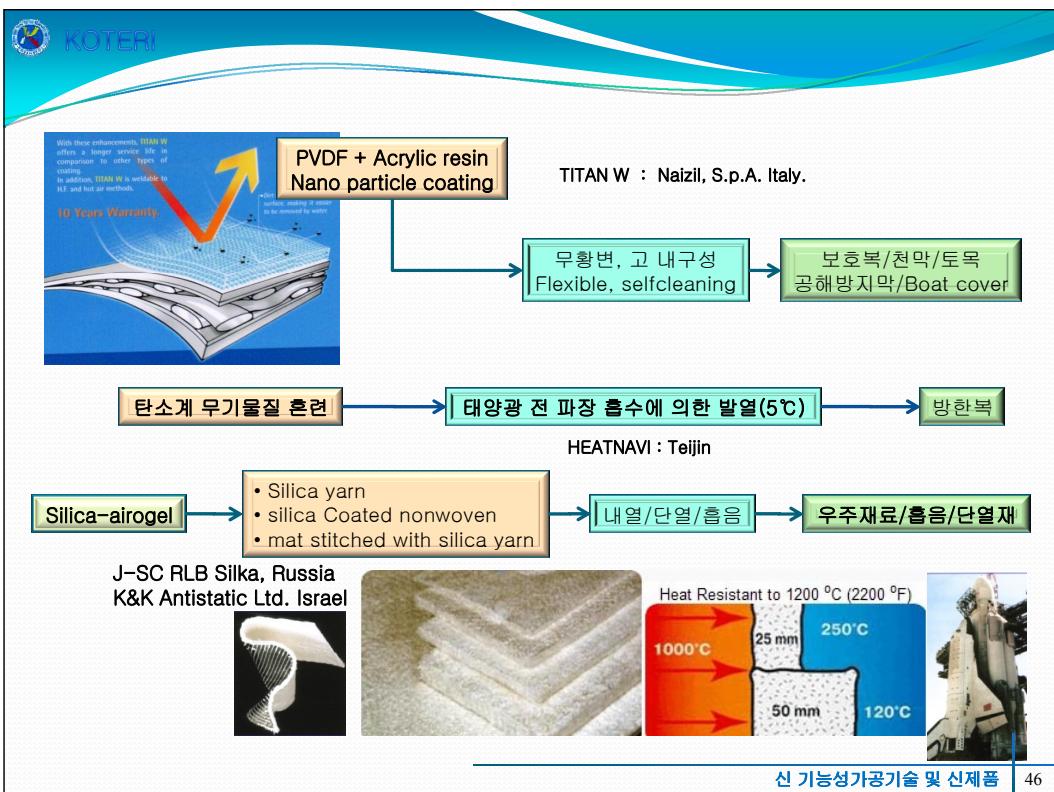
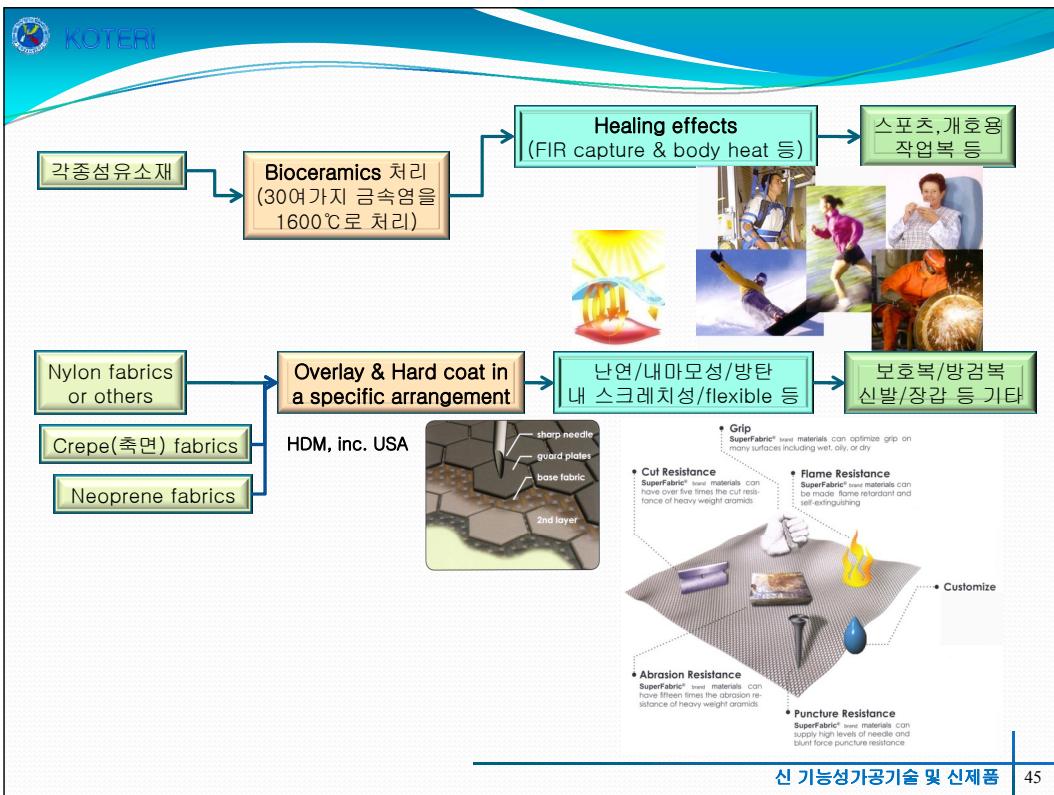
## SUPER 섬유소재기술

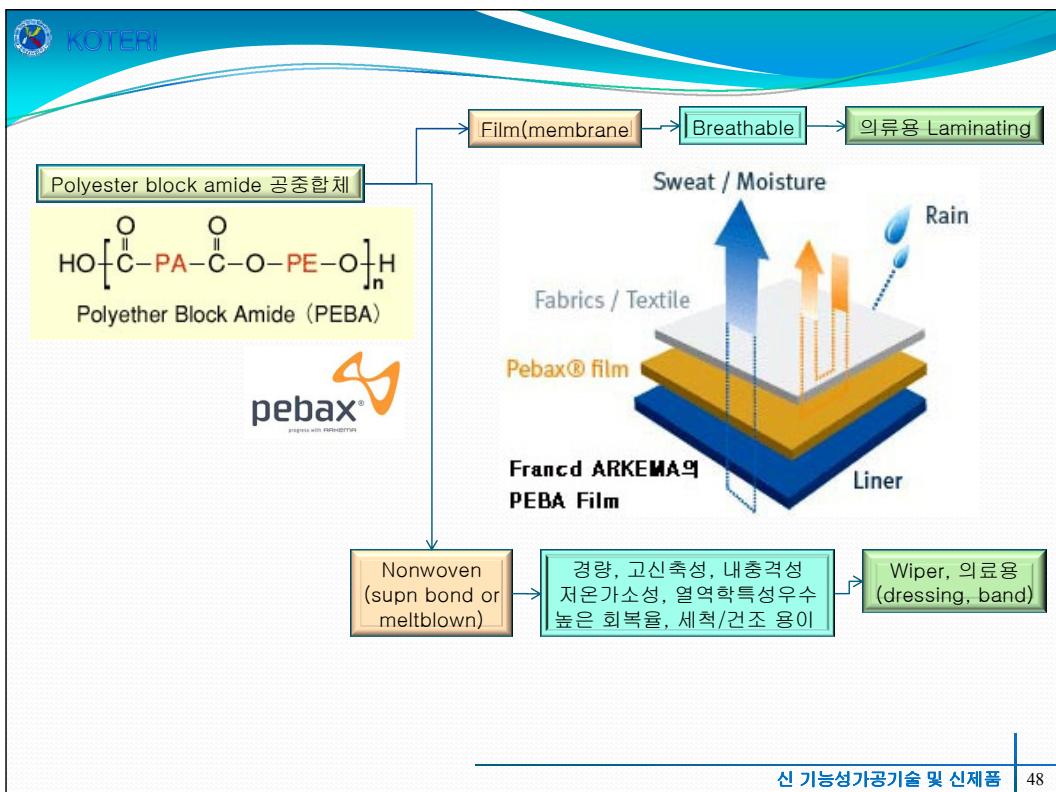
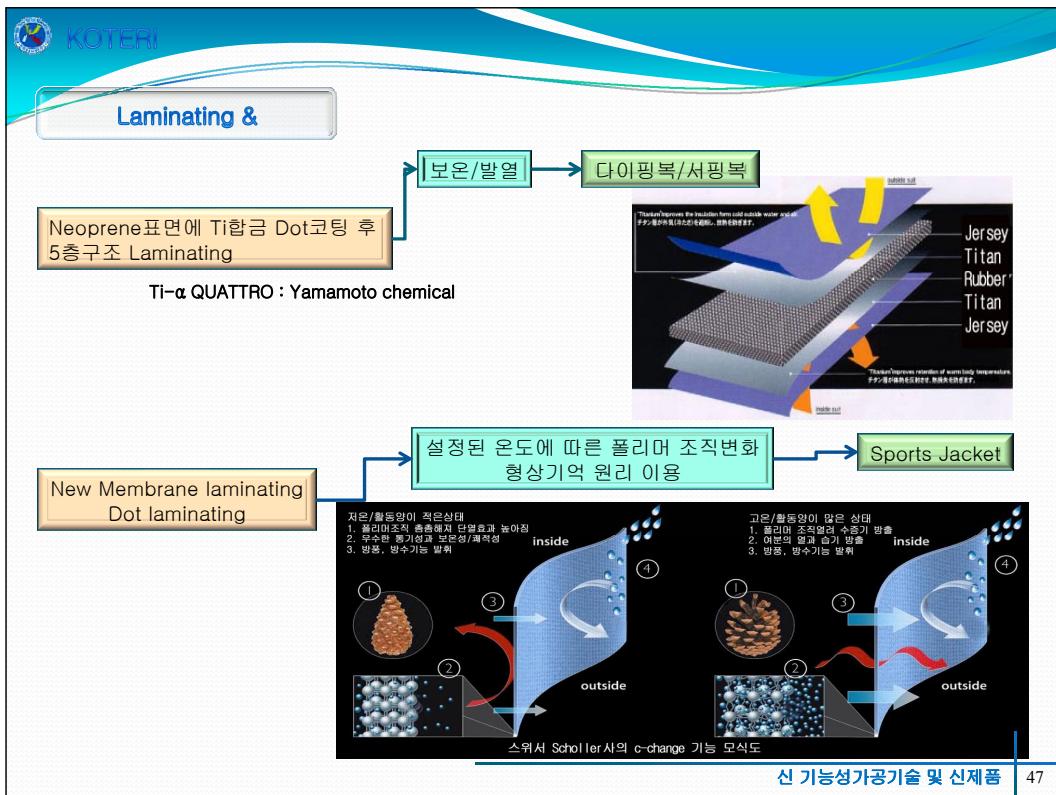


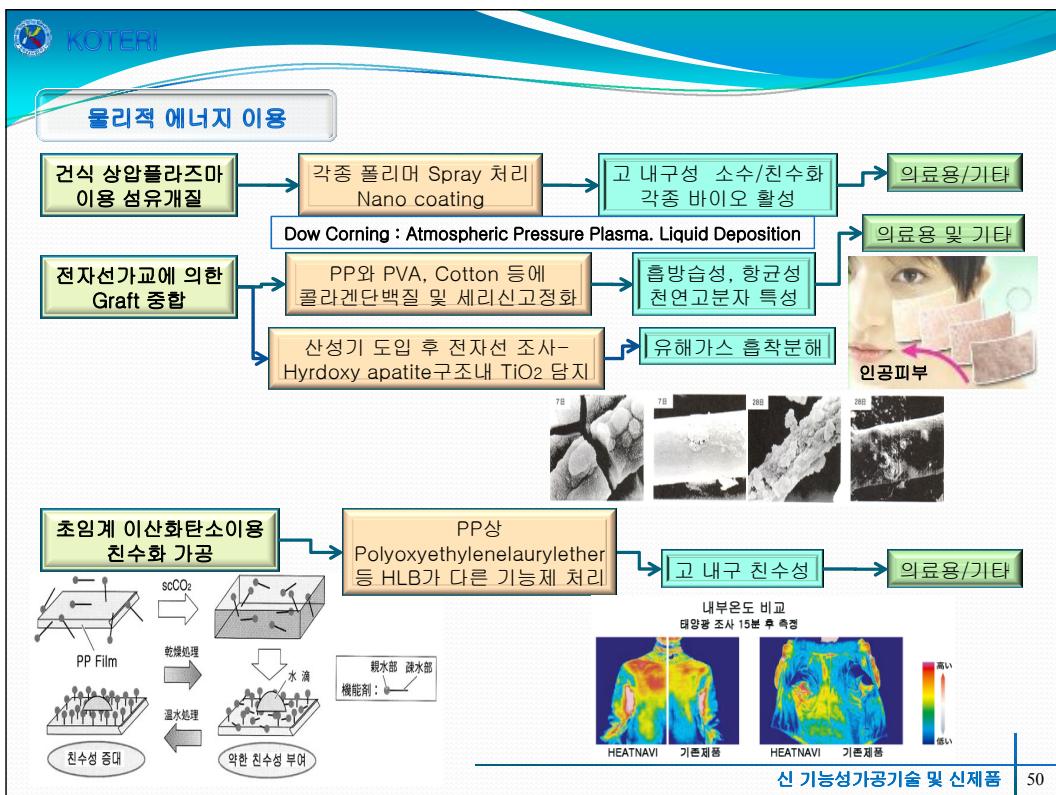
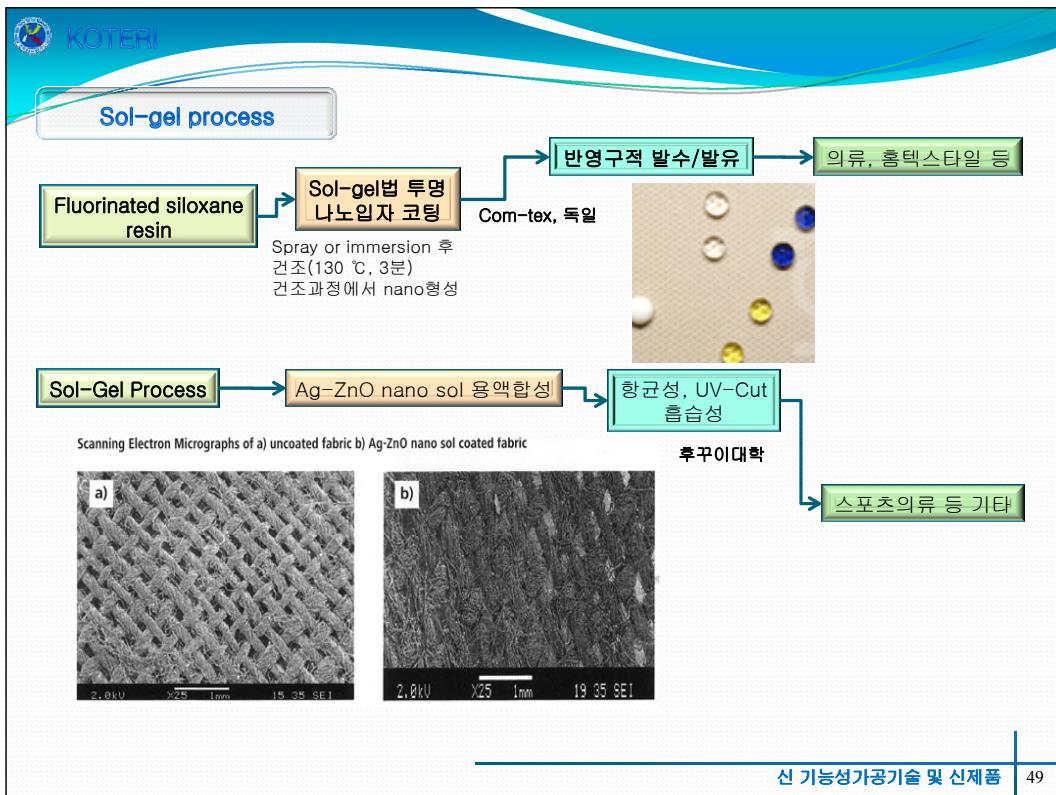


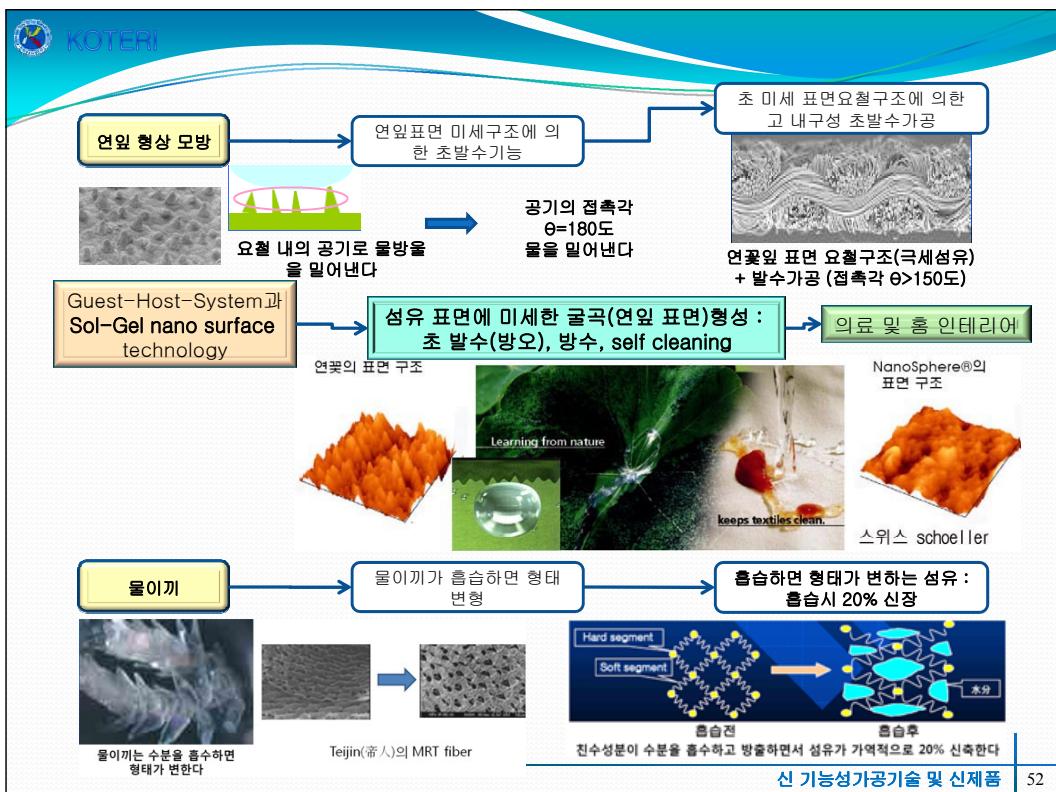
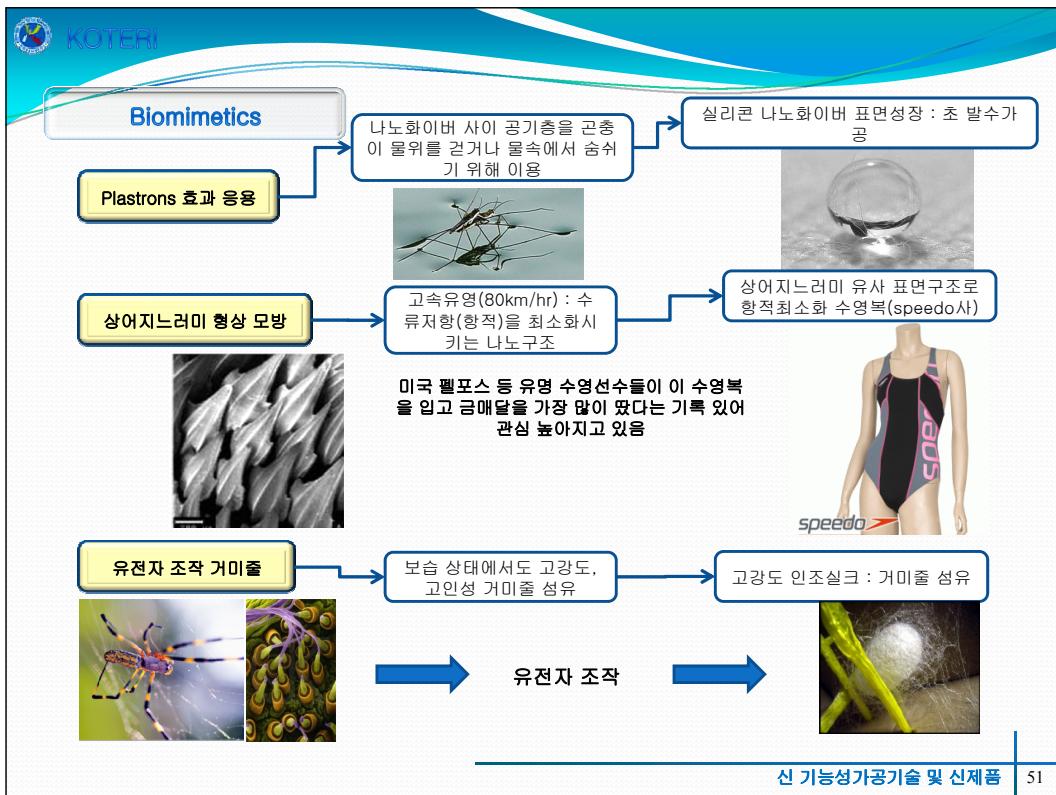












**조직편성 기술**

Color, 조직, 소재의 조화  
UV protector + Sun ray Reflector

태양열 발산 + UV 차단(UVF30)

보호복

스위스 schoeller 사의 coldblack®

Without coldblack®

Dark textiles without coldblack® absorb heat

With coldblack®

Dark textiles with coldblack® reflect heat

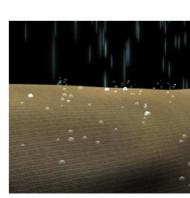
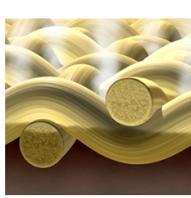
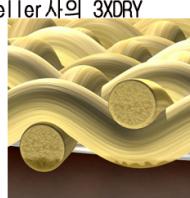
Inside : water absorption  
Outside : water repellent

의류 내부 땀 흡수/외부 수분차단 및 수분발산

내의류

스위스 schoeller 사의 3XDRY

The outside of the textile is  
water, dirt and stain repellent.  
On the inside any moisture is quickly absorbed  
and distributed over a large surface area,  
accelerating the evaporation process.



수분흡수

발산

건조

신 기능성가공기술 및 신제품 | 53

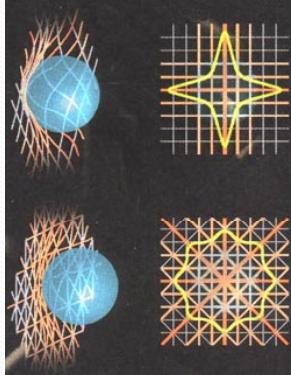
Tetra axial trchnology

파열강도,  
형태 안정성 등 향상

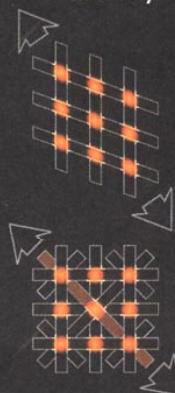
Tetraxial srl, Italy

방탄복, 헬멧, 코팅기재  
필터, 토목, 건축 등

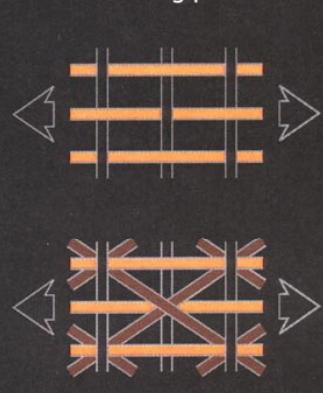
Better bullet-proof  
performance



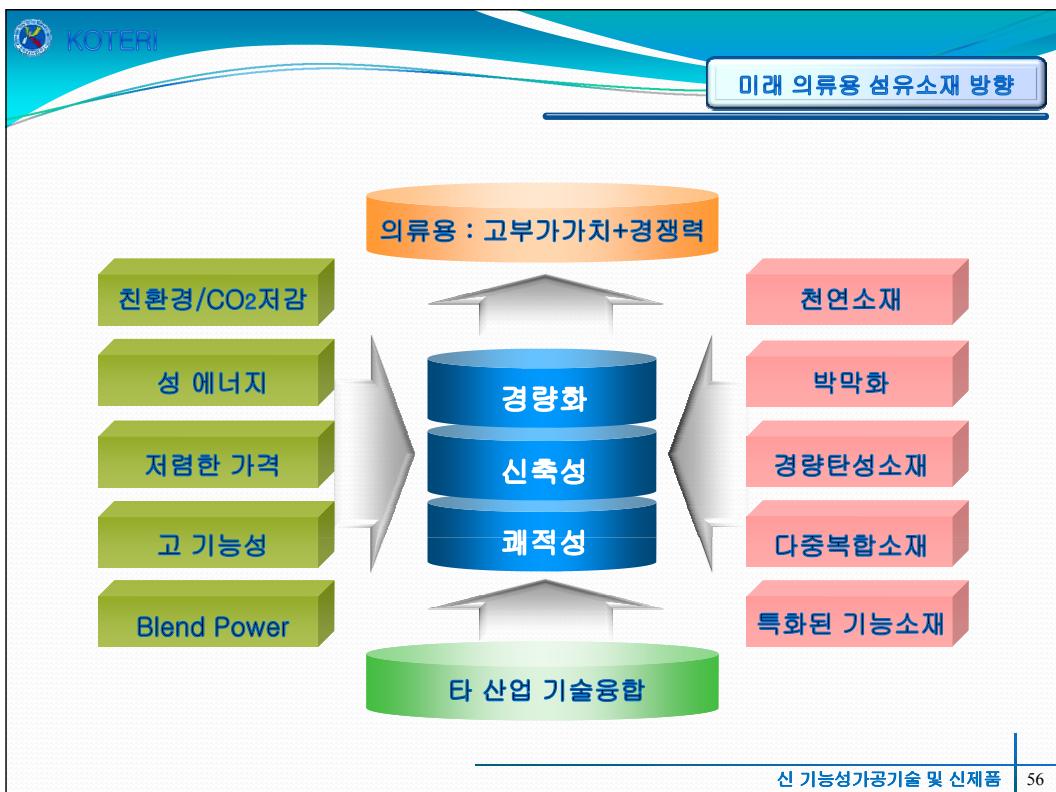
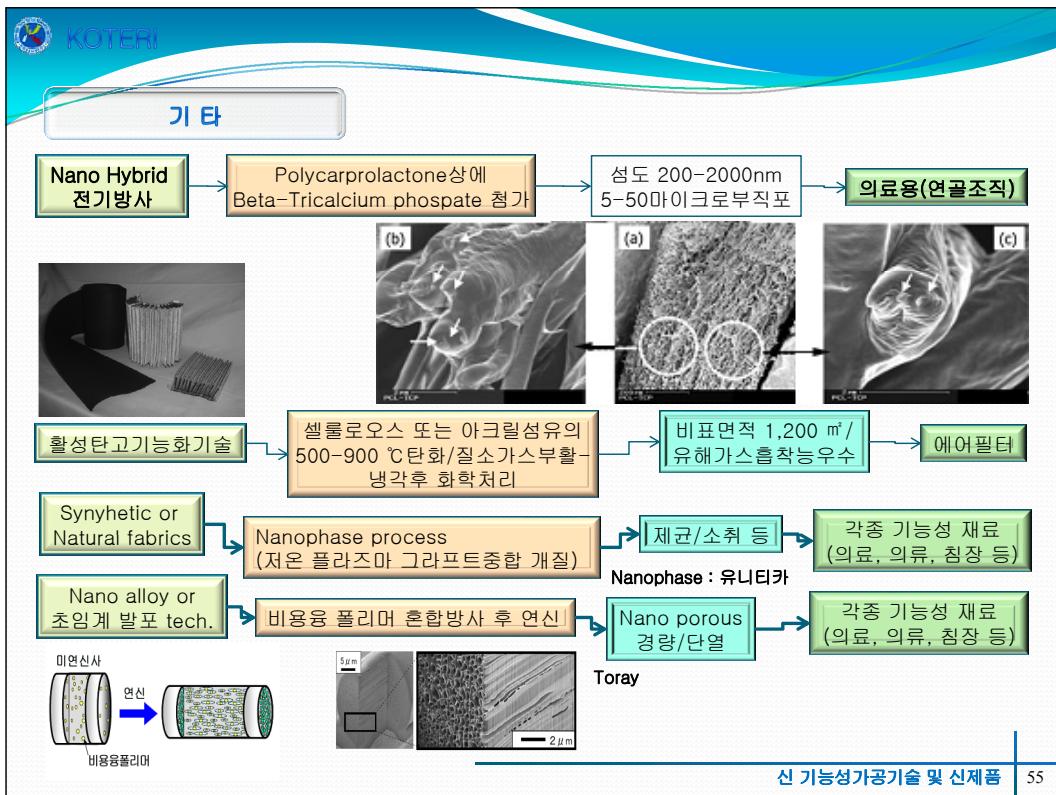
Higher dimensional  
stability

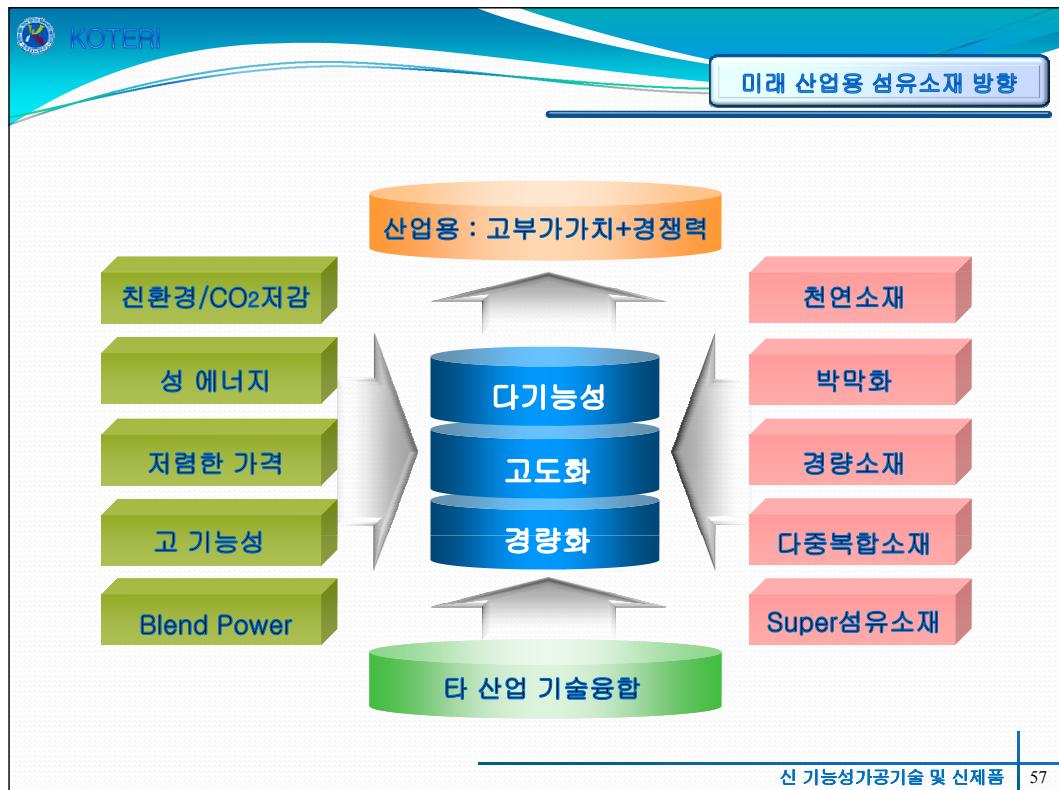


Double  
breaking path

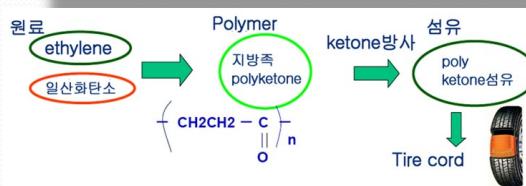


신 기능성가공기술 및 신제품 | 54





1. 신 기능성의 쓰임은 의류용, 산업용 경계 애매
2. 기능성발현기술은 원료단계에서부터 최종 제품화 기술까지
3. 융복합형 기술접목에 의한 고도 기능성 추구 : 이업종 융합
4. 섬유소재의 다양성 확대 : 천연, 합성, 화학섬유소재에 경계 불분명
5. Bio mimetics : Nano-technology 기반
6. 성에너지/환경친 섬유소재 : 저탄소, 경량, 박막화, 생분해성
7. 탈 석유계 : 천연섬유, 거미줄 섬유, Keton 섬유
8. 섬유는 모든 산업에 쓰이는 기초(산업기반)소재로서의 가능성확인



감사합니다