

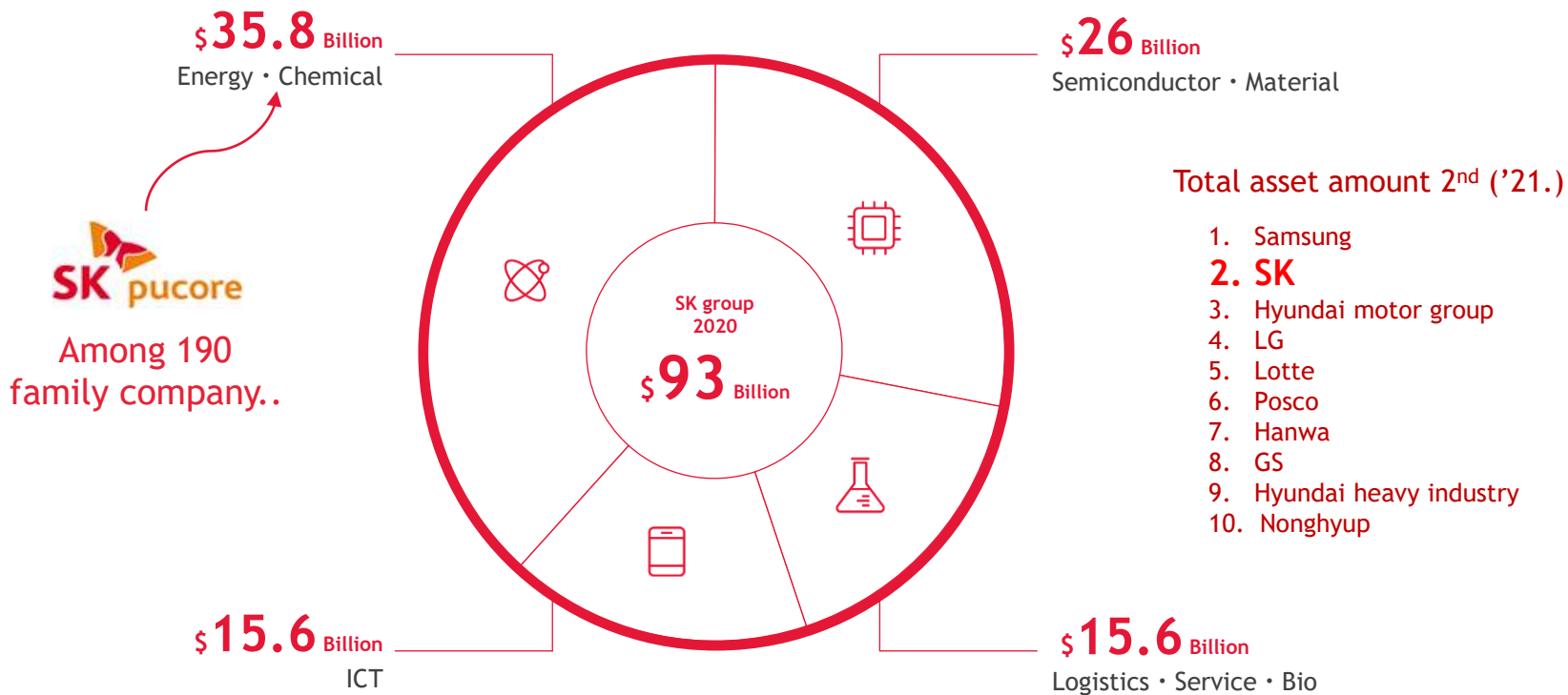
re-Polyol :

Chemical recycling technology based on PU foam

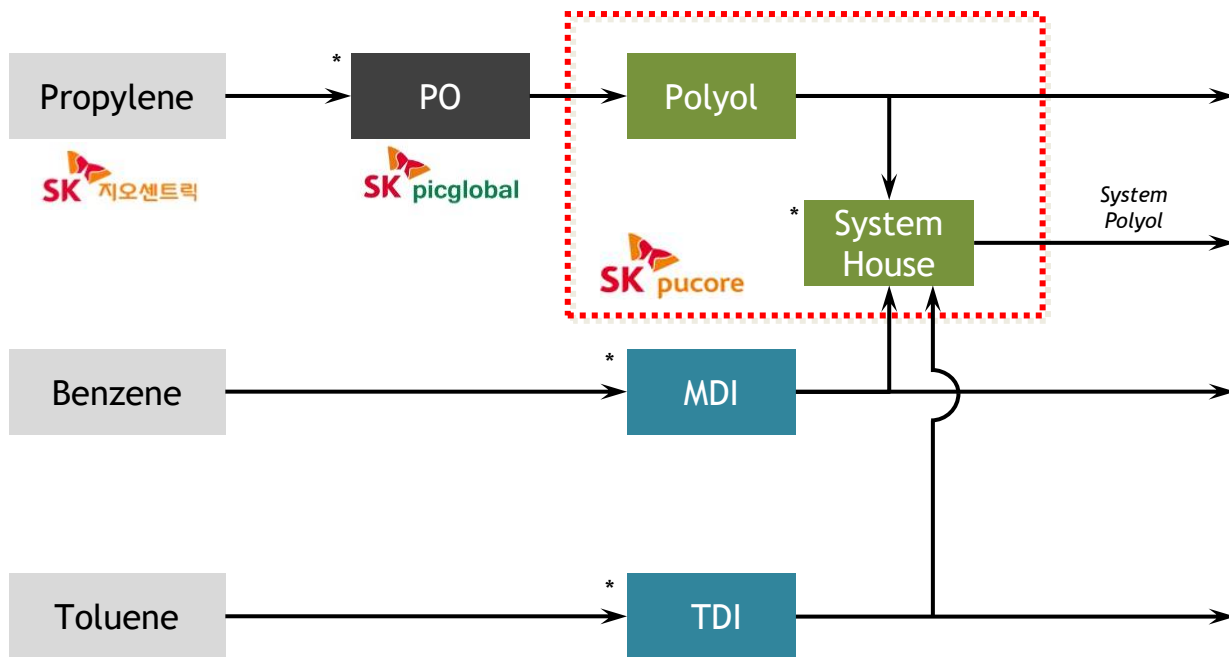
- 01. SK pucore
- 02. PU waste nowadays
- 03. Circular economy of PU waste (re-Polyol tech.)
- 04. Patent and Certificate
- 05. re-Polyol in PU application
- 06. re-Polyol commercialization



SK AT A GLANCE



1. SK pucore



PU Applications

Slab



- Furniture
- Mattress
- Shoe sole

Mold



- Seat
- Steering Wheel
- Instrument Panel
- NVH

Rigid



- refrigerator
- Construct. board, panel
- LNG Insulation
- Insulation Spray

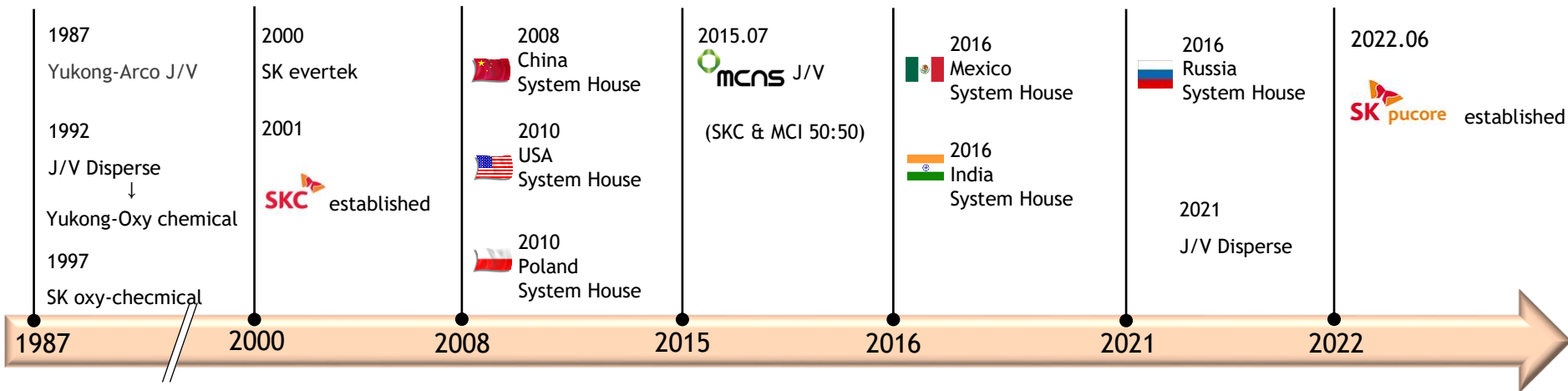
C.A.S.E.



- Coating
- Adhesive
- Sealant
- Elastomer

- PO : Propylene Oxide
- MDI : Methylene Diphenyl Diisocyanate
- TDI : Toluene Diisocyanate
- System House : Located in nearby customer site, support customer's production process and technical service

1. SK pucore



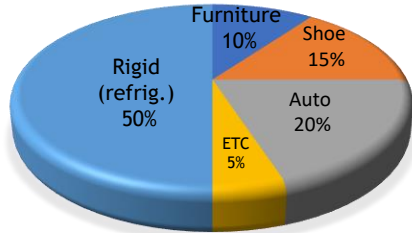
【 Global System House : 6 Site 】



Country	City	Established (yr)
China	Beijing	2008
USA	Covington.GA	2010
Poland	Dzierzoniow	2010
Mexico	Monterrey	2016
India	Chennai	2018
Russia	Saint Petersburg	2021

2. PU waste nowadays

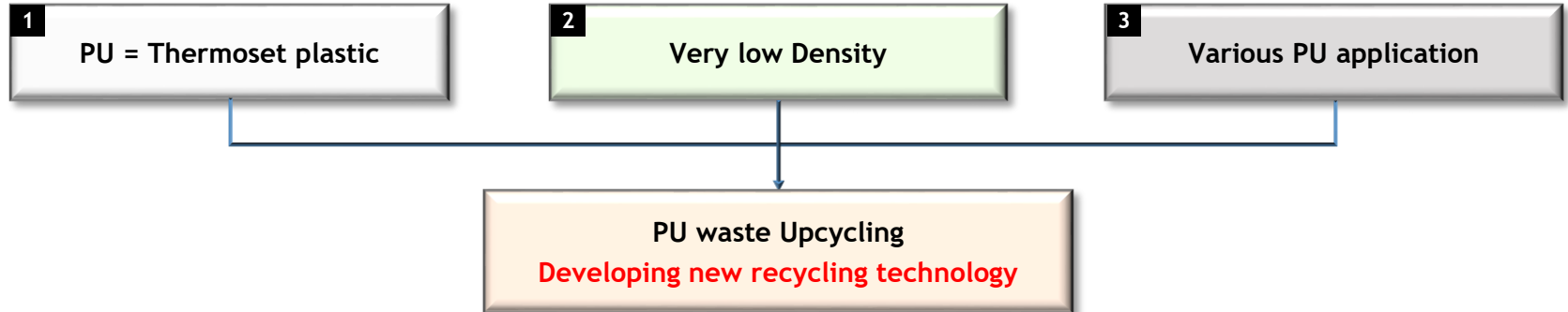
PU waste in Korea



End of Life PU foams

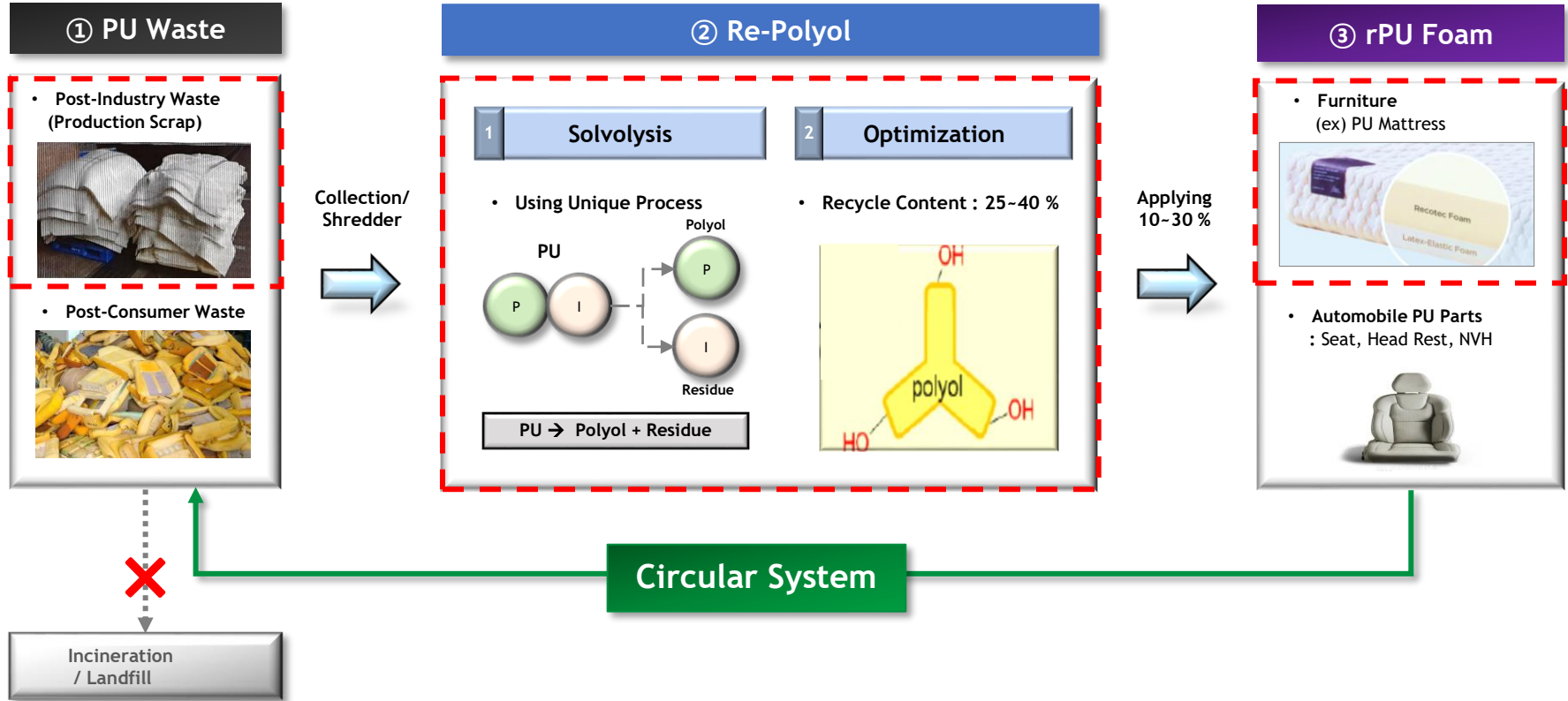


Issue of recycling PU waste



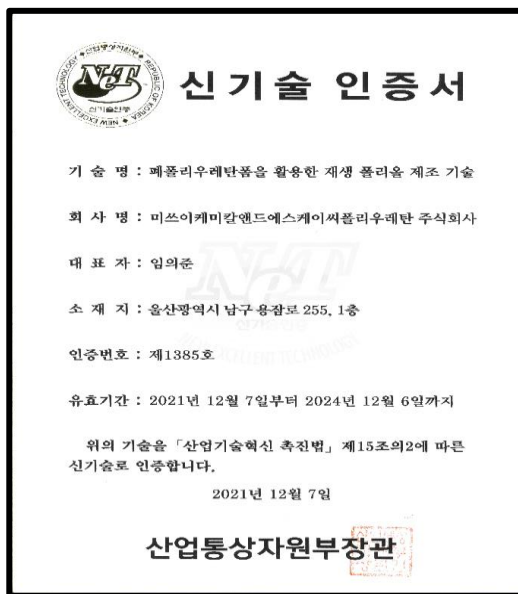
3. Circular economy of PU foam (re-Polyol tech.)

PU Waste ► PU Raw Materials (Polyol) ► PU Foaming with Virgin Polyol



4. Patent and Certificate

Patent and Tech. certificate (Korea)



Recycled claim certificate (EU)



■ New Excellent Technology : NET

: Technology certification for the first innovative new technology from Korea government
(KATS - Korean Agency for Technology and Standards, MOTIE - Ministry of Trade, Industry and Energy)

■ RCS (Recycled Claim Standard) certificate

: Recycled contents certificate (Control Union - Production/Supply chain/Sales based recycled contents assurance)

■ Automobile _ Seat, Head Rest, NVH

What we did

- 1 Material spec - Pass.
→ PU physical property
- 2 Seat spec - Pass.
→ Seat engineer property

Seat



Head Rest



What we did

- 1 Enhance NVH performance
 - Sound absorption
 - Sound Insulation
- 2 Producing in production line
 - Fine product outlook

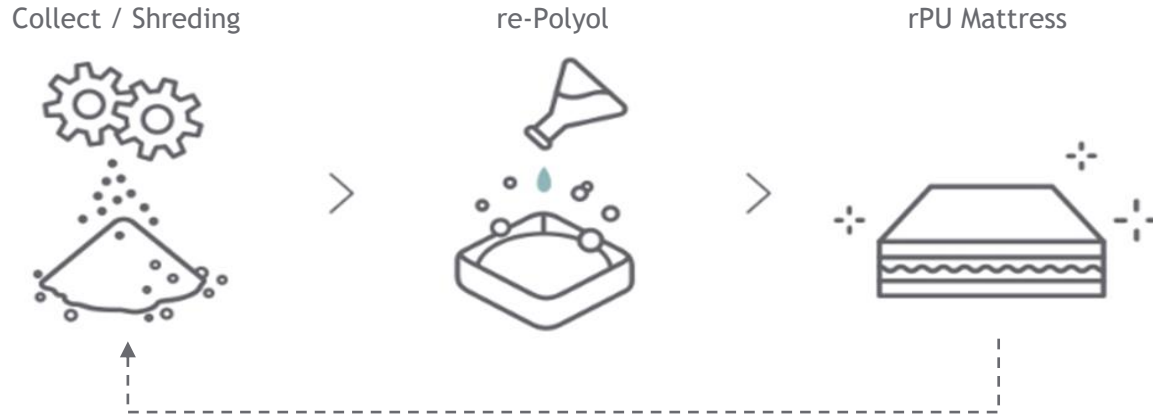
Luggage Iso-pad



Dash Iso-board



■ Commercialization : Mattress topper (PU circulation economy with iloom)



SK  **pucore** × **iloom**

Thanks

