



nepes

# 2021 INTRODUCTION

nepes

Semiconductor | Neuromorphic A.I | IT Materials | Energy | 2<sup>nd</sup>ary battery

C O N T E N T S



ABOUT  
NEPES



BUSINESS  
PORTFOLIO



CORE  
TECHNOLOGY



GLOBAL  
NEPES



CORPORATE  
CULTURE

**HYPER  
CONNECTING  
TECHNOLOGY**



nepes' 4D management began at the very moment when the company name was chosen



From Hebrew | כחי נצח (khai nepes)  
Eternal Life / Dynamic  
Longevity Corporation



## 4D(4th dimension) management?

The management that generate **creation, innovation, pioneering** and **fun, satisfaction, and happiness**

Corporate Identity



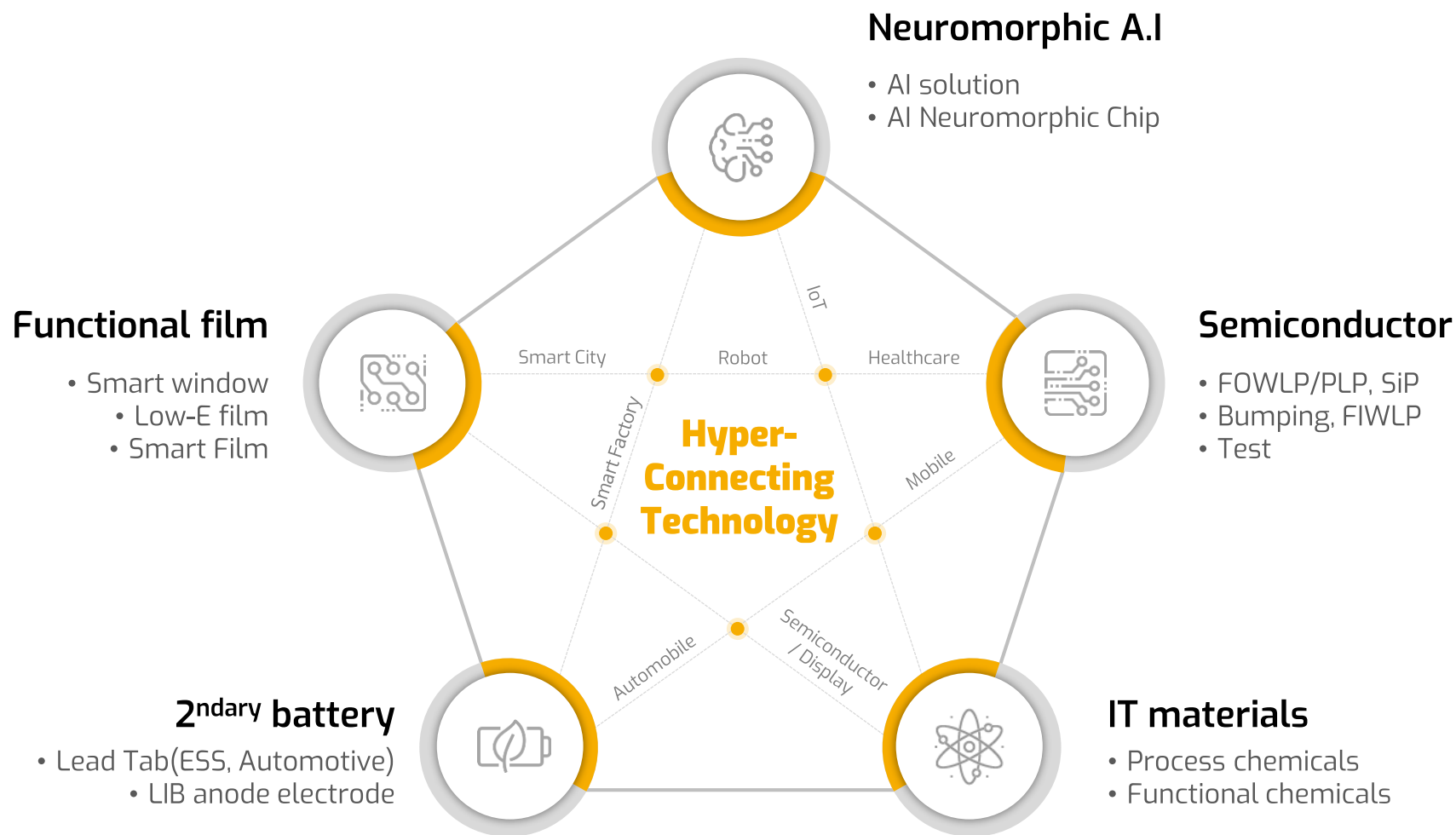
Trademark

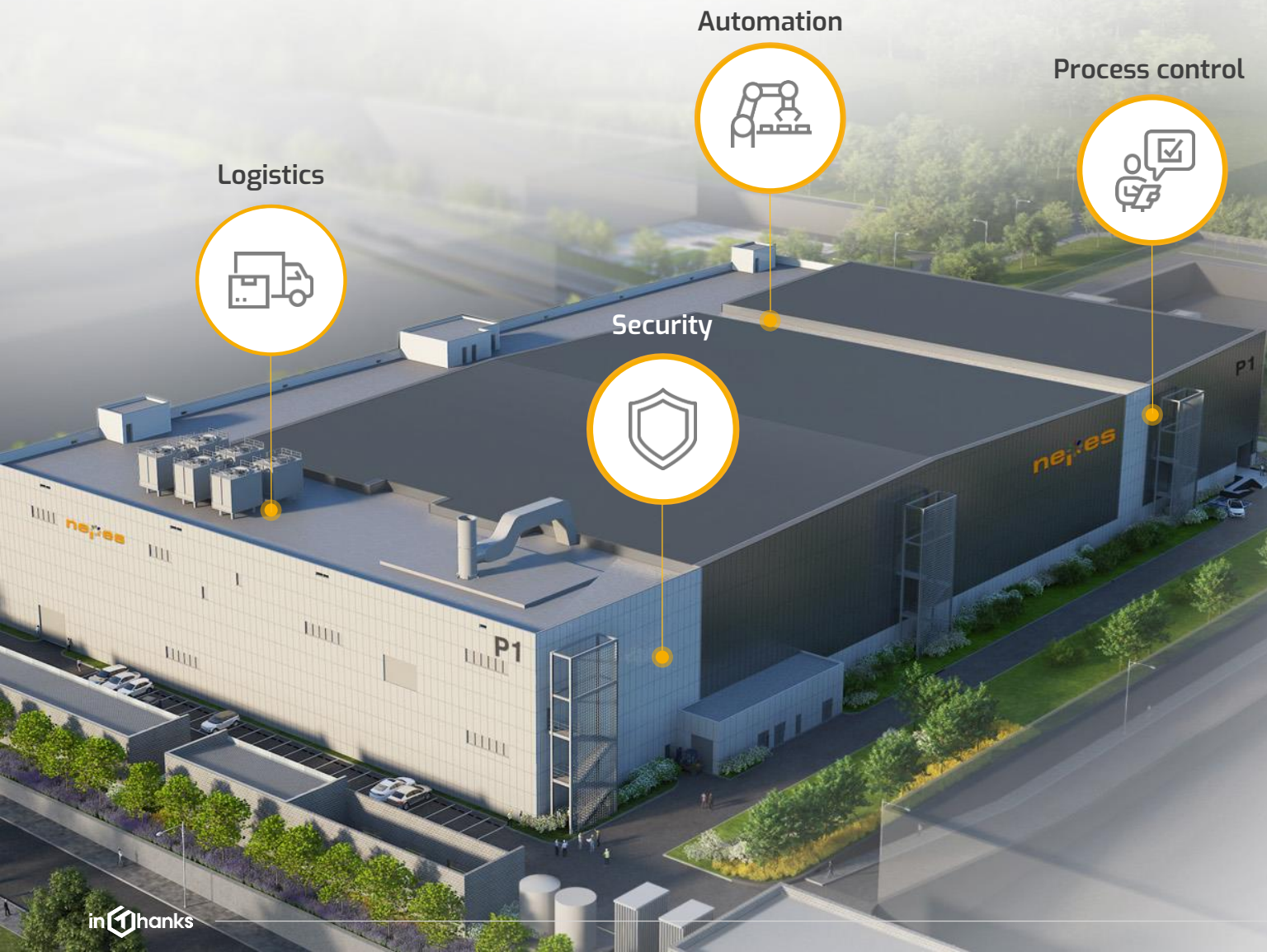


Name of company	nepes
Date of establishment	1990.12
Date of Listing	1999.12(KOSDAQ 033640)
CEO	Byung-Koo Lee, 李柄九)
Overseas corporation	CN, US, PHL, IDN, RUS



neipes makes **Hyper-connecting Technology** that connects future business





Logistics



Automation



Process control



Security

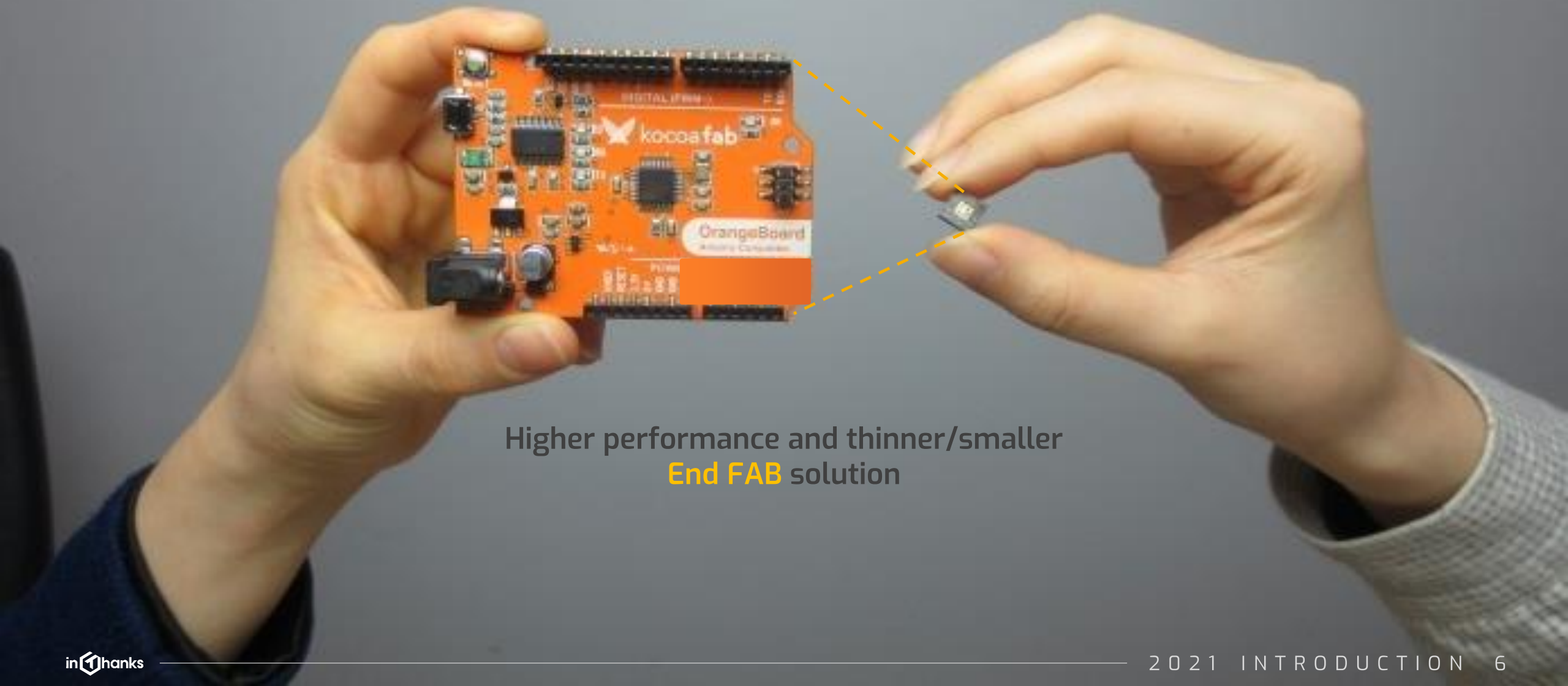


### Service & Products

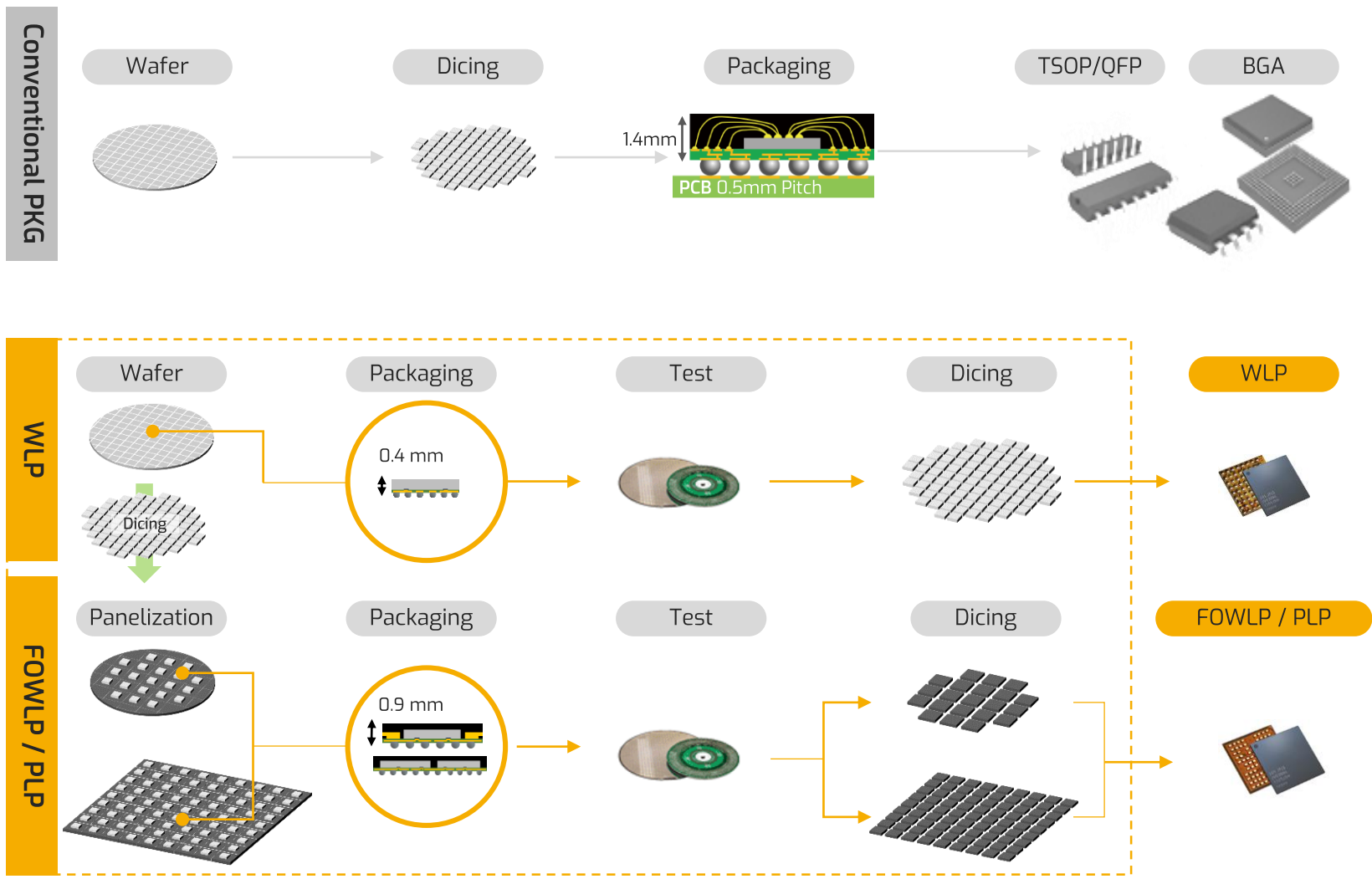
- A.I Solution for Factory
- A.I Solution for Vision
- A.I Solution for CCTV
- A.I Neuromorphic Chip



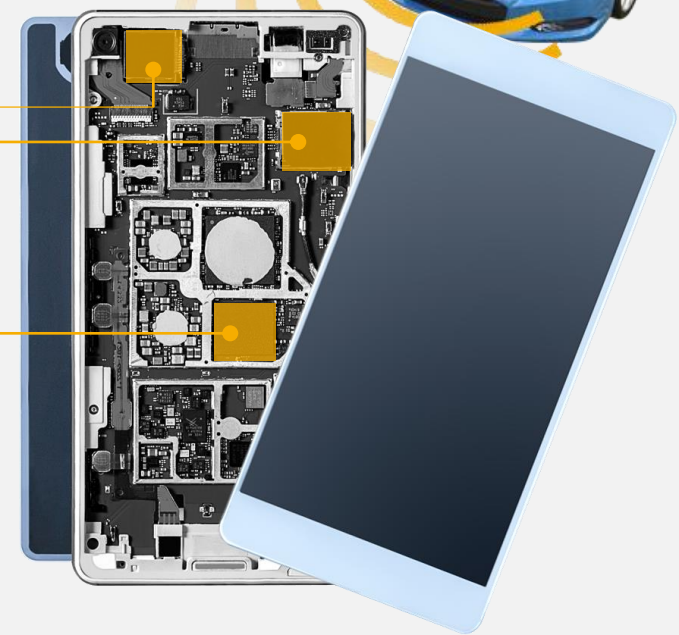




Higher performance and thinner/smaller  
**End FAB** solution



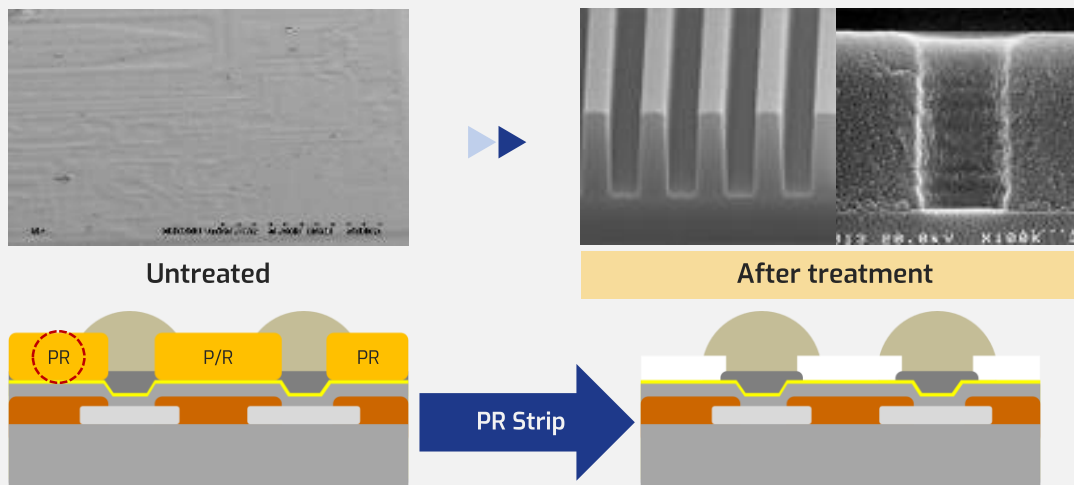
### Applications





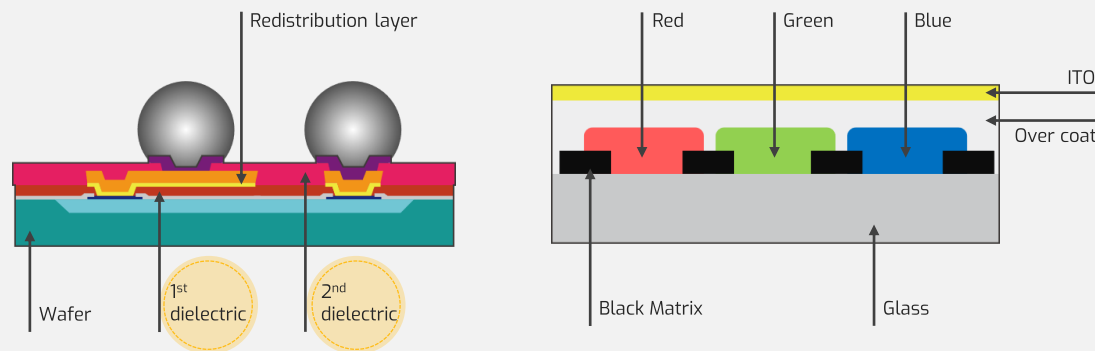
## Process chemical

- PR
- Developer
- PSPI Developer
- Stripper
- Etchant
- HSN
- PV texture



## Functional chemical

- ILD
- Cu Plating
- Color paste

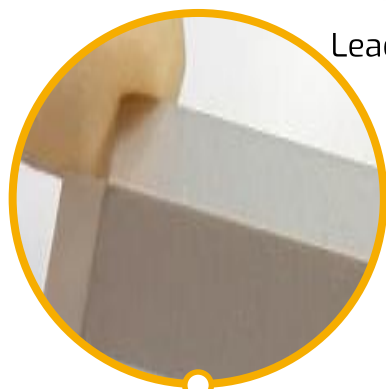


## Applications



Semiconductor Display(LCD, OLED)  
Solar Cell

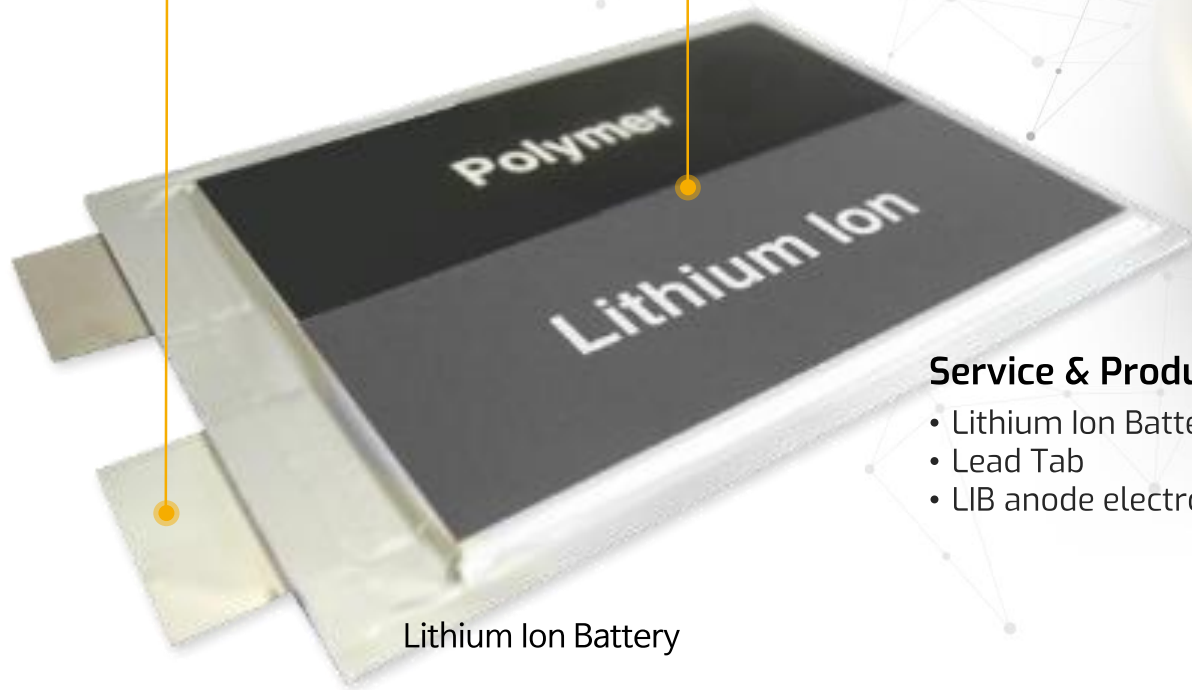




Lead Tab



LIB anode electrode

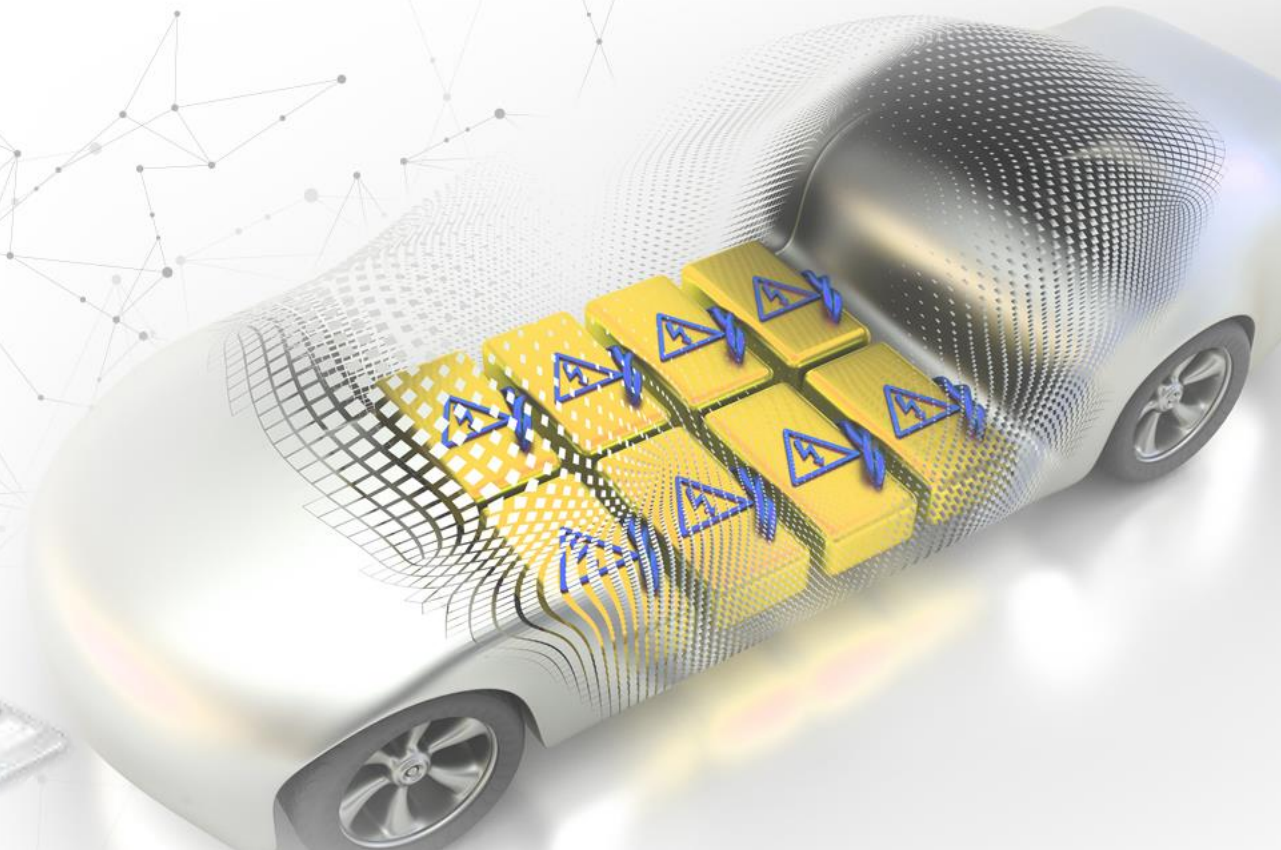


Lithium Ion Battery

### Service & Products

- Lithium Ion Battery
- Lead Tab
- LIB anode electrode

### Applications



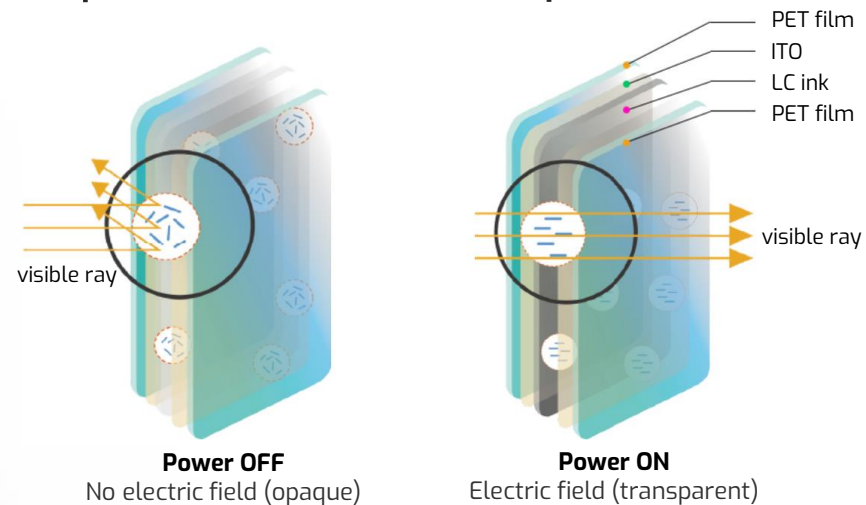


PDLC(Super LC)



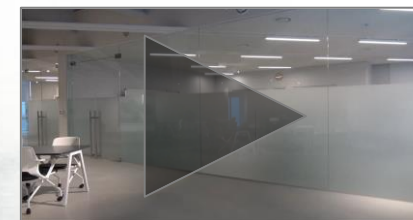
Low-E Film(Pentix®)

### Super LC Structure and Principles



### Service & Products

- Smart Windows(on/off)
- Low-E film(Pentix50, Pentix60)







Eyewear Dimming Film

### Service & Applications

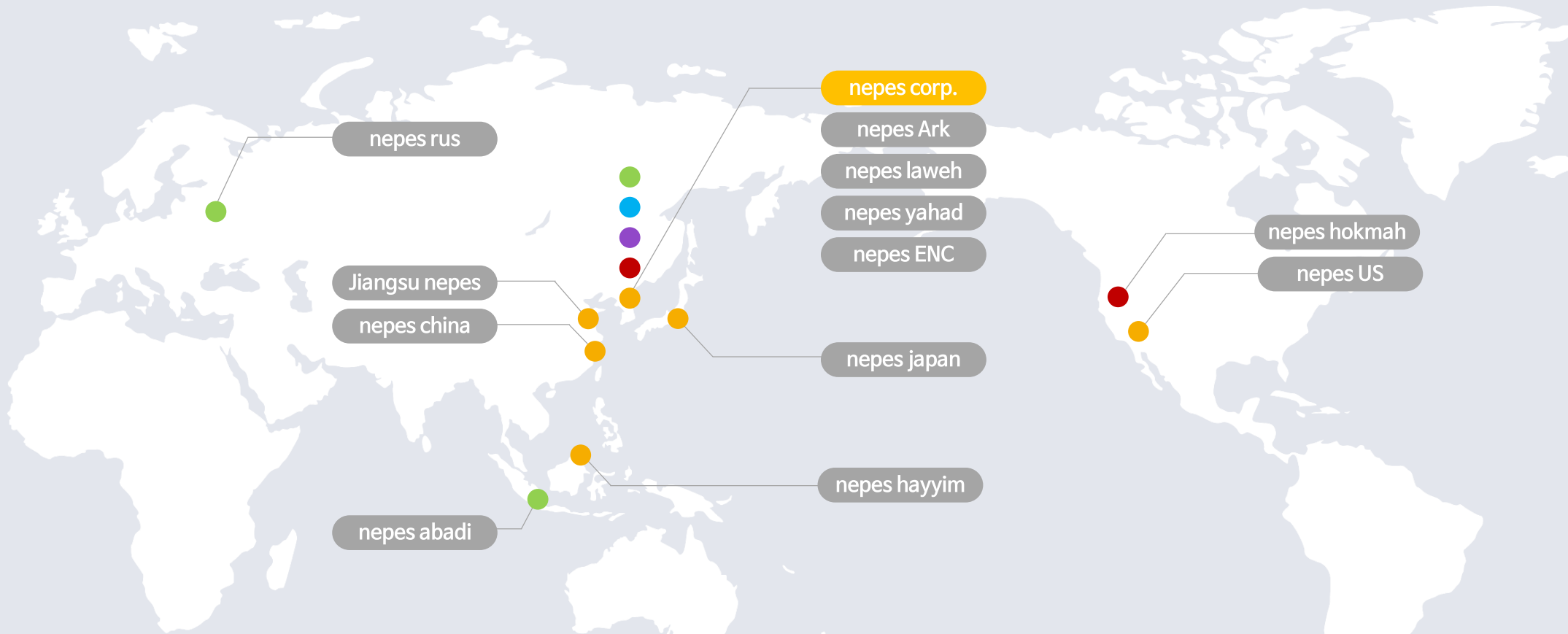
- Smart Sunglasses
- AR/VR glasses
- Switchable Mirror
- Vehicle







We will **serve the earth** with our technology and products



- Semiconductor
- Energy
- IT materials
- Neuromorphic A.I
- 2<sup>nd</sup>ary battery

nepes continues to grow by creating performances through the development of **unique corporate culture** of its own



superstar



Sharing

Global  
**NO.1**  
corporate  
culture



Thanks & Song



i-training

3.3.7  
LIFE





**nepes**  
nepes corporation

THANK YOU

To Him who alone does great wonders, His love endures forever. Psalm 136:4

\* A dandelion means 'Gratitude' in the language of flowers

**nepes corporation**

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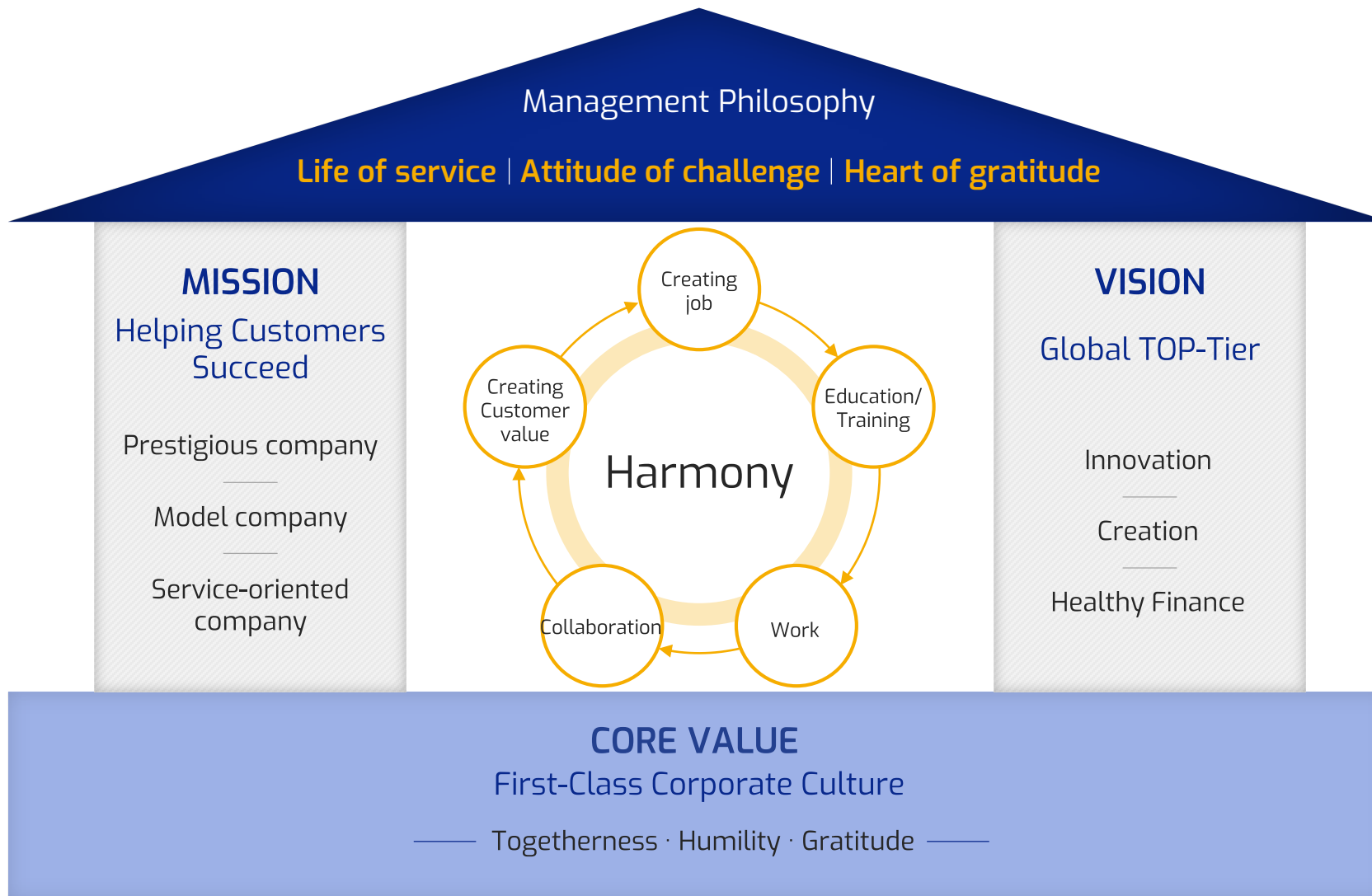
Fax : 02-3470-2708

URL: [www.nepes.co.kr](http://www.nepes.co.kr)

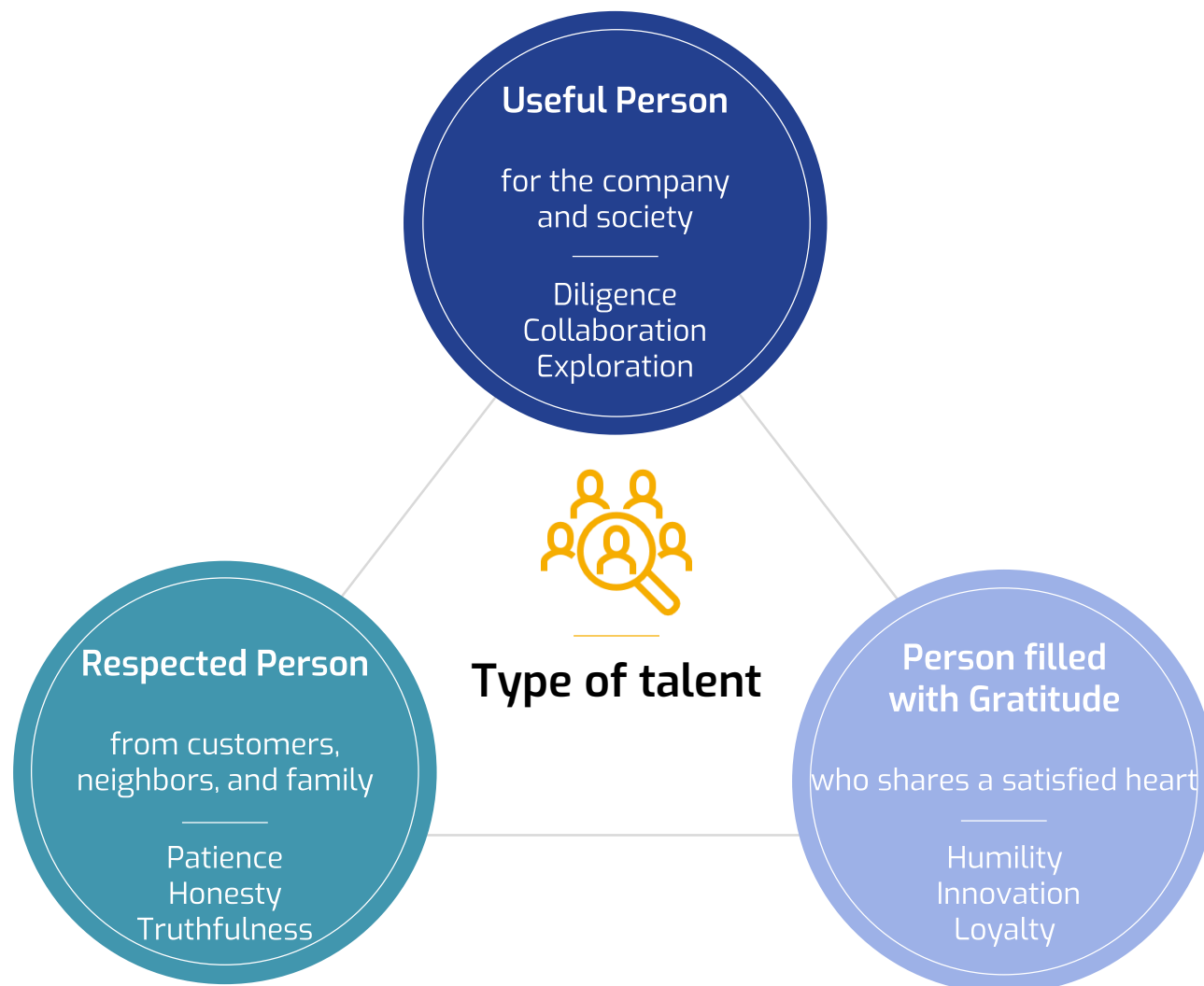




nepes consistently practices its own **management philosophy**



nepes is the **community with people who have good personality to make things work**



nepes LOGO



n Family community  
connected via gratitude

Greetings

**superstar**

'superstar' is a unique word of greeting when we say hello to others with higher respect, here in nepes



Market Trend

Smaller form factor  
(Based on Wafer-Level Platform)

Highly integrated Wafer-Level System in Package

Tech. Roadmap

Conventional PKG	Bumping	WLP	Fan-out WLP/PLP	System in PKG
<p>1.4mm</p> <p>Chip</p> <p>QFP</p> <p>QFN</p> <p>FCBGA</p>	<p>Gold</p> <p>Solder</p> <p>Etc(Cu Pillar, CNA bumping)</p>	<p>8"WLP</p> <p>12"WLP</p> <p>Chip 0.4mm</p>	<p>nPLP™</p> <p>600x600mm</p> <p>Chip 0.9mm</p>	<p>Multi-Chip Packaging</p> <p>System in packaging</p> <p>One Package Module</p> <ul style="list-style-type: none"> <li>- AP, PMIC</li> <li>- Flash Memory</li> <li>- <b>Neuromorphic</b></li> </ul>

Position

Other OSAT

Conventional wire bonding packaging & Typical WLP technology

## nepes

### End FAB Solution

(Bump, WLP, FOWLP, FOPLP, SiP, TEST)



