# nepes 2023 INTRODUCTION

neites

Semiconductor Artificial Intelligence

IT Materials





# CORPORATE BRANDING

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

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From Hebrew (nephesh) Eternal Life / Dynamic Longevity Corporation



#### 4D(4<sup>th</sup> dimension) management?

The management that generate creation/innovation/ pioneering and fun/satisfaction/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

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#### Advanced Back-end Foundry company nepes leads the future of system semiconductors



### CORE TECHNOLOGY 01. Semiconductor



nepes' advanced semiconductor technologies including FOPLP and nSiP changes global supply chain



### **CORE TECHNOLOGY** 01. Semiconductor

nepes' End-fab technology enables high-end semiconductor to be advanced and smaller



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Applications

### CORE TECHNOLOGY 01. Semiconductor ① WLP

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nepes' End-fab technology enables high-end semiconductor to be advanced and smaller



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#### CORE TECHNOLOGY 01. Semiconductor 2 FOWLP/PLP

nepes' End-fab technology enables high-end semiconductor to be advanced and smaller



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### CORE TECHNOLOGY 01. Semiconductor ③ nSiP

nepes' End-fab technology enables high-end semiconductor to be advanced and smaller



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# **CORE TECHNOLOGY** 02. Artificial Intelligence





# **CORE TECHNOLOGY** 03. IT Materials ① Chemicals

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#### Process chemicals

- PR
- Developer
- Stripper
- Etchant
- HSN



#### **Functional chemicals**

- ILD/PSPI
- Cu Plating
- Color paste



Applications



# **CORE TECHNOLOGY** 03. IT Materials ② Lead Tab



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# CORE ECHNOLOGY 03. IT Materials 3 Smart Film

#### ne<sup>\*</sup>es



# GLOBAL NEPES

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



neses

### CORPORATE CULTURE

nepes continues to grow by creating performances through the development of corporate culture in nepes' own ways

unique

netes





# 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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### **RECOGNITIONS 1** White House report quotation

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President Biden ordered an executive order directing an investigation into US semiconductor supply chain, and the White House released a review report (June, '21).

 It contained the proposal of strengthening the domestic semiconductor manufacturing ecosystem by highlighting advance packaging necessary for important national security other than commercial use, and this shed light on nepes among the global top10 companies.



[Source: The White House, 'Building Resilient Supply Chains, Revitalizing American Manufacturing, and Fostering Broad-based Growth', Jun '21]

# **RECOGNITIONS 2** Joining ASIC membership

American Semiconductor Innovation Coalition (ASIC) membership is by invitation-only and IBM has asked nepes to join the Coalition in May '22

• IBM and other coalition members feel that nepes can bring a tremendous value to the coalition with its expertise in the advanced packaging such as wafer level processing and fan-out technologies



The News with Shepard Smith ? @thenewsoncnbc · Apr 23 ···· Congress will be back in session from a recess next week. A top item on the agenda is a bill that would dedicate \$52B to making more semiconductors in America. U.S. scientists invented the tiny computer chips, but most of them are now made in Asia. @ylanmui reports from New York.





IANOTECH

www.asicoalition.org







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# RECOGNITIONS 3 Joining UCIe<sup>™</sup>

Join UCle<sup>™</sup>(Universal Chiplet Interconnect Express)

• Major global semiconductors (Samsung, Intel, AMD, Arm, etc.) and IT companies (Microsoft, Meta, etc.) participate to establish a new standard for advanced package technology structure, which is evaluated as an alternative to overcome technological limitations due to ultra-fine process conversion.



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# RECOGNITIONS 4 Korea Semiconductor

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#### LIGHTHOUSE ENTERPRISE 2022.11.17

An exemplary medium-sized enterprise that provides a direction for other companies



KOREA WORLD CLASS 2022.11.18

Products that contribute to national economic development with high technology and competitiveness



in **(1**)hanks

# **RECOGNITIONS 5** International case study presentation



Nepes' unique management philosophy has been recognized as a creative competitiveness that drives continuous growth of the organization and has been introduced as an excellent management case at various international academic conferences.



May 20, 2022 @St.John's Univ. Global Conference on International HR Management

June 22-23, 2022 @ Michigan Univ. Global Conference on Positive Organization

#### **APPENDIX 1** Core Technology (Semiconductor)

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#### APPENDIX 2 What is End-fab?

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#### End-fab refers to Passivation, RDL, and Bump processes after Front-Fab



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# APPENDIX 3 What is FOPLP?

- nepes sets new standards for FOPLP with the world's largest panel size
- nepes has created a unique FOPLP technology based on FOWLP, internal materials (chemicals) development, and End-fab

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