Introduction

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02-10-2018
• Non-for-profit Foundation, established 2007

• Primary goal: Increase The Semicon Ecosystem & Business in The Netherlands

• Board representing the full Dutch Semicon Valuechain

• Scientific board from 3 TU’s

• 60+ members - Large Companies, SME & Institutes

• Relations with Government (local, regional, national) & EU clusters
World class ecosystem

- Approx. 150 companies active in development & production (core business) and equipment & materials (tier 1 suppliers)
- Clustered around Eindhoven, Delft, Enschede and Nijmegen.
- Top-class Knowledge Institutes Technical Universities in Eindhoven, Twente and Delft, IMEC & Holst Center.
Backend
More than Moore

Moore’s law

More than Moore

More Moore

“The number of transistors and resistors on a chip doubles every 24 months”
-Gordon Moore
Semicon Roadmap
Focus on volume

Nexperia only:
10 billion / year
CITC

- Non for profit organisation

- Focus on ‘heterogeneous integration’ technology development, not on (pilot)production

- Open Innovation Centre, Bring solutions from low TRL (1-2) to higher level (5-7), 2 to 5 yrs time to market

- Physical Centre in Nijmegen, including cleanroom & equipment

- Collaborate with knowledge institutes

- Act as talent development pool for all educational levels
Partners

- Developed by BCSEMI NL, NTC
- Driven by Nexperia, Ampleon, NXP
- Support of Thales, multiple SME’s
- Combined with TU Delft & Radboud University
- Partnering with TNO
- Financial support of government
Background

- Chip integration = essential step in the process of chip manufacturing
- Enables key functions and drives the innovation of chips
- Large number of companies present in the Netherlands, and in Nijmegen more specifically
Ecosystem approach

- Brings complete eco system together
- Leverage between different applications and competence areas (cross fertilisation)
- Ideal infrastructure with multi-disciplinary technology experts
- Host a highly skilled permeant CITC staff, PhD and post doc from Universities
What can we offer

- Years of experience in packaging
- Access to backend facilities
- Production scale-up expertise
- Photonics Packaging roadmap support
Together we go far!

If you want to go fast, go alone. If you want to go far, go together.