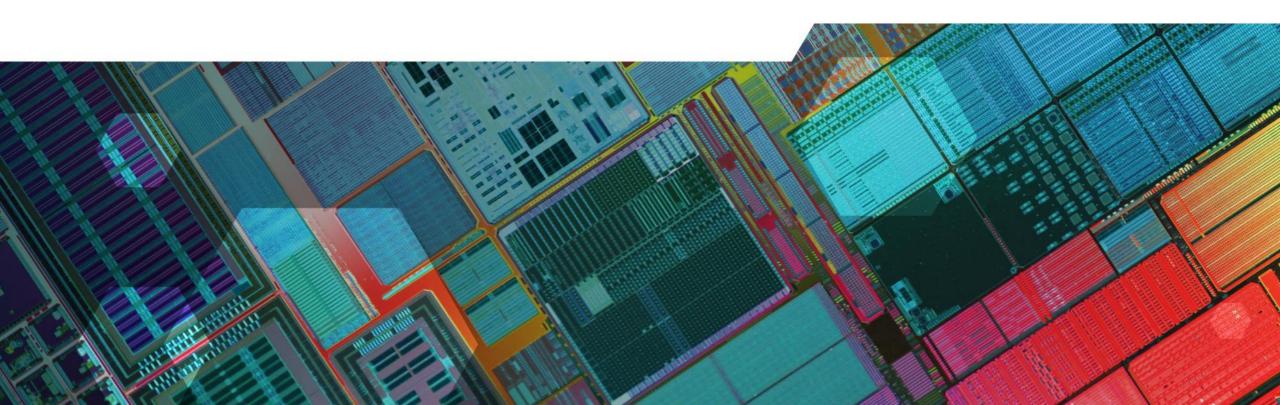


## **SEMI Workforce Development and Diversity Program**

Emir Demircan | SEMI Europe

28 March 2019, Brussels



#### **Presentation Outline**

SEMI Europe Workforce Development & Diversity Program

SEMI at a Glance

Semiconductors and talent pipeline

SEMI Workforce Development Initiative

Summary



### **SEMI Connects to Advance a Global Industry**

#### **Mission**

SEMI provides industry stewardship and engages our members to advance the interests of the global electronics manufacturing supply chain.

#### **Vision**

SEMI promotes the development of the global electronics manufacturing supply chain and positively influences the growth and prosperity of its members. SEMI advances the mutual business interests of its membership and promotes a free

and open global marketplace.

SEMI is the place to connect, collaborate, and solve problems in a pre-competitive forum. Platforms for regions and special interest groups are connected to global common interests.

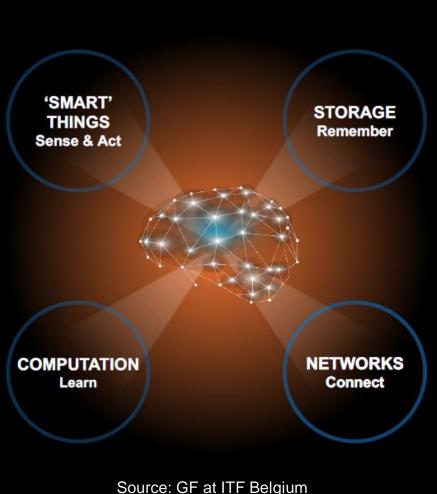


## Global Semiconductor Market Overview: Drivers of growth











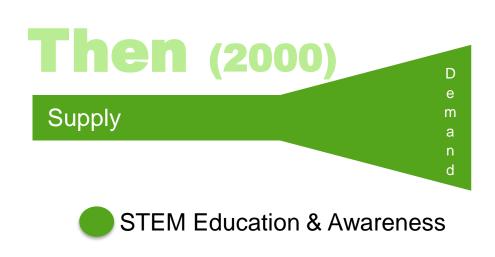




### **The Talent Pipeline**

#### **Problem Statement:**

- Industry prosperity depends on a high skilled, innovative workforce.
- Increased demand for talent and challenges with the supply of workers require active workforce development initiatives.







### **SEMI – Deloitte Global Workforce Study**

#### Discovery interviews & major issues

- Industrial transformation & increased competition
- Demand-driven industry, customization, cultural shift
- Aging workforce (average age; 45-50+)
- Sharing knowledge across generations/cultures
- Managing global & virtual teams
- Mobility / commuting
- Diversity & inclusion















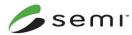








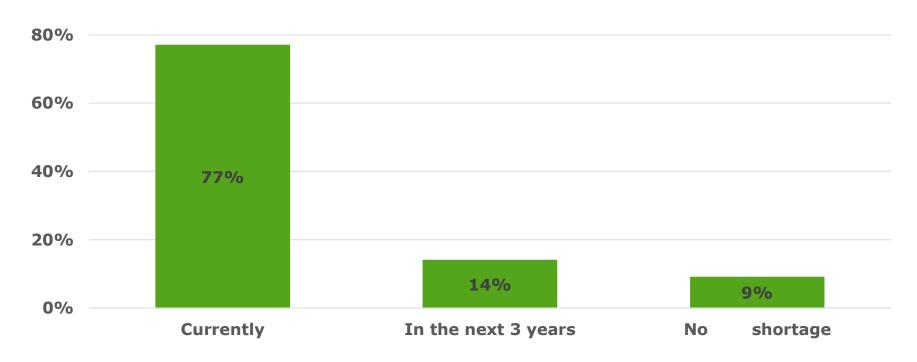




### **SEMI - Deloitte Global Workforce Study**

A talent shortage is upon us...

When do you think we will see a critical talent shortage?

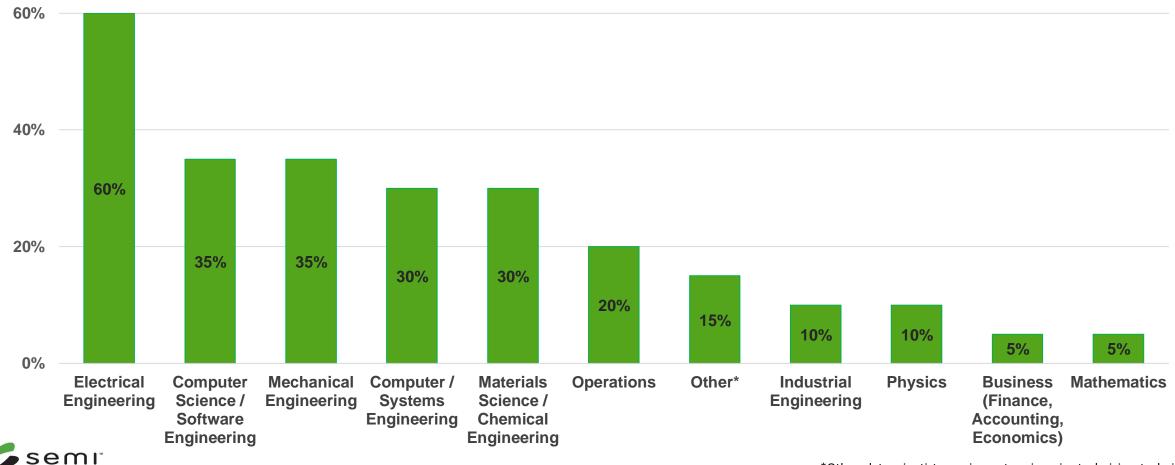


We are experiencing an acute shortage of specific skills



### **SEMI – Deloitte Global Workforce Study**

% of companies that have difficulty filling open positions by discipline



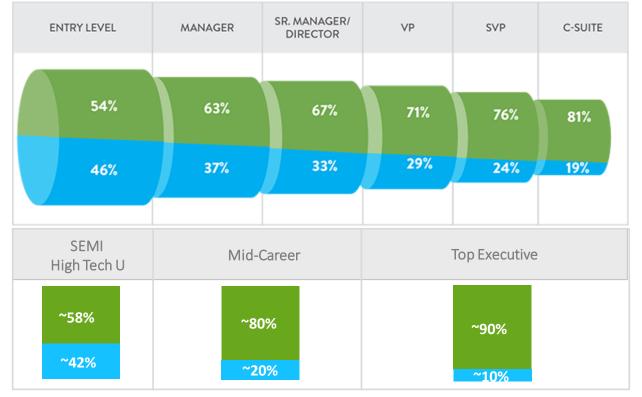
### **Diversity and Inclusion**

- Validated broad member interest a top workforce concern along with recruitment
- Many diverse interests (such as long standing societal concerns, equity, empowerment, rights, etc. etc.)
  - SEMI will focus where we can have distinct impact

U.S. Corporations
Source: McKinsey & Company,
Women in the Workplace 2016

Semiconductor Industry

SEMI Assumptions - Approximate







Women

#### **SEMI Workforce Development Council Europe**

#### Connect

 Relevant business representatives from the industry under a common

## Identify

 common skills gaps affecting electronics manufacturing supply chain

## Highlight

 best practices and paths of action from the industry

**Promote** 

EU initiatives and

opportunities

towards group

#### **Disseminate**

 industry position on skills challenge & public policy recommendations







 Workforce development programmes with group members























members







## The Skills Challenge of European Electronics Manufacturing



Growing demand & raising skills bar in high-tech



RETIRE Aging workforce in electronics manufacturing



Concerns about the quantity of STEM graduates



Challenging school-to-industry transition in STEM



Image of "manufacturing jobs"



Societal concerns: does technology replace manufacturing workers?



Global competition for talent



Low female participation in STEM



### **SEMI Workforce Development Initiatives**



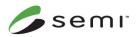
#### Workforce Advocacy/Policy

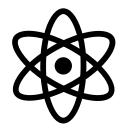
Influences policy and advocates for regional WFD needs with regulatory and governmental organizations.



## Industry Training Courses

Educates and elevates a capable workforce.





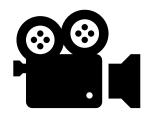
#### **SEMI High Tech U**

Engages future workforce in a threeday, STEM focused program taught by industry professionals.



# **Diversity & Mentoring Initiatives**

Works to establish gender parity and expand the talent pool. Mentoring programs will help develop and retain talent for the industry. Additionally, SEMI will participate and expand diversity and women-in-tech related program offerings.



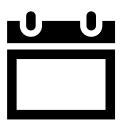
# Industry Image Campaign

Educates and exposes the benefits or working in microelectronics industry.



# **Highschool & University Connections**

Develops substantial relationships with program specific (engineering, physics, etc.) talent pool as they graduate and prepare to enter the workforce.



## **Workforce Pavilion** at **SEMICON/Events**

Utilizes SEMICONs in a meaningful way to educate and recruit talent. Leverage other SEMI platforms and events to draw attention to workforce development

SEMI offices Workforce Development Councils to regionally tackle workforce development.

Initiatives are being developed as regionally appropriate.



## **SEMICON** Europa Smart Workforce and Diversity Days





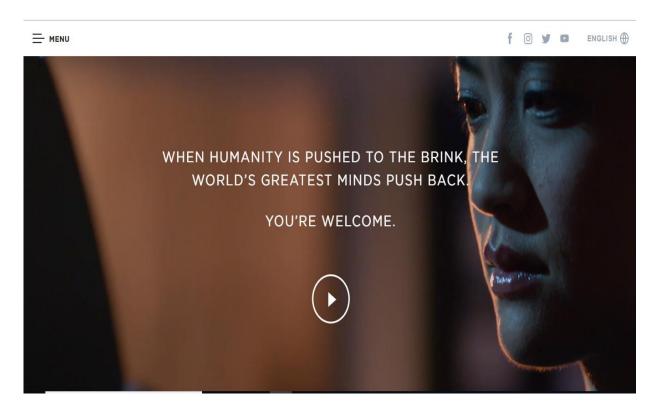






## SEMI Industry Image Campaign: Contact Protocol

https://www.youtube.com/watch?v=jWgwSTFibCg&







## Summary

- The semiconductor industry is poised to grow thanks to increasing market penetration into smart verticals
- But without the right skills-set, the growth will be limited
- SEMI as an umbrella association at global level is well-positioned to support its members' skills needs:
  - Industry direction & intelligence
  - Connecting (future) talent and SEMI members
  - Awareness raising at an early age, reach out to parents, promote diversity
  - Policy influence at EU-level





# Thank you!

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