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**EDC STANDING COMMITTEE**  
**01/25/10**

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**MEETING AGENDA**

- I. "There Is No Predictability"
  - Empire Zone Program vs. Excelsior
- II. National Grid
- III. GLOBALFOUNDRIES

# Warren County Empire Zone Results

Since its inception in Warren County in 2002:

- 1,460 new jobs created
- \$267 million in capital investments
- \$840 million in cumulative wages & benefits
- ROI of 50X - \$22 mil in tax credits to \$1 billion in wages, benefits, cap investment

# New York's Tech Valley

Where the world locates and innovates.

**NYS is globally competitive**

**“GLOBALFOUNDRIES’ plan for a \$4.2 Billion leading edge manufacturing facility represents the largest industrial investment ever made in New York.”**



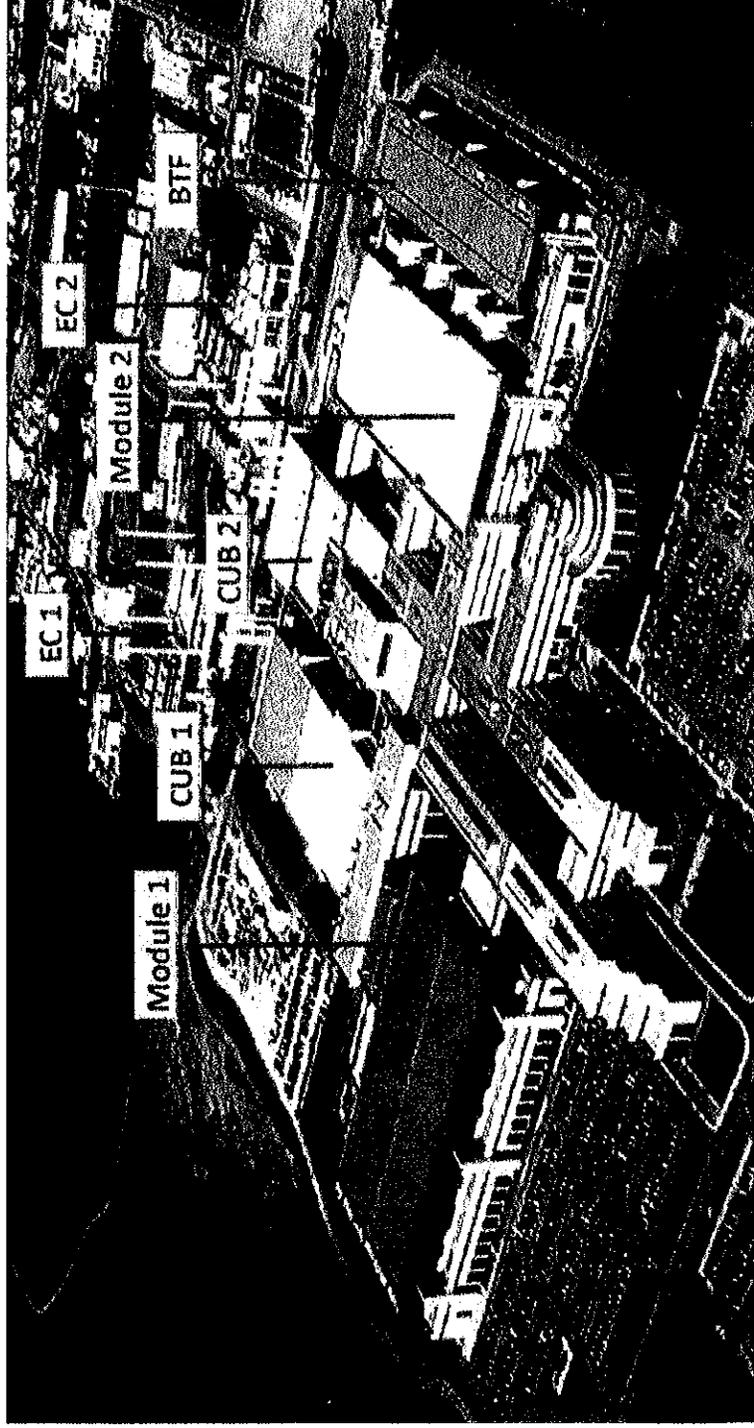
**GLOBALFOUNDRIES**

**AMD**

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## Dresden 2009 GLOBALFOUNDRIES – Fab 1:

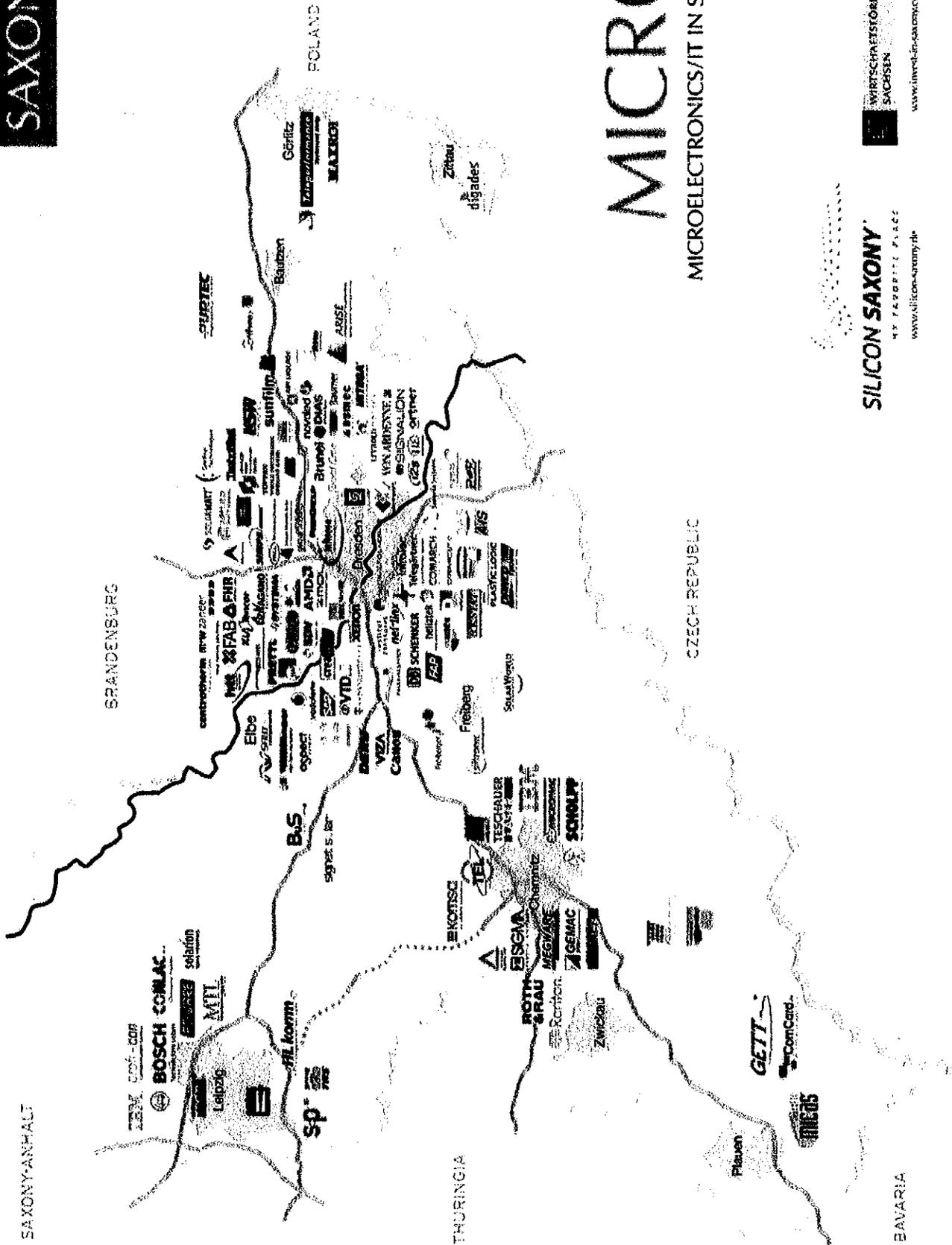


CUB = Central Utility Building  
EC = Energy Center  
STF = Sump Test Facility

SAXONY!

SAXONY-ANHALT

BRANDENBURG



POLAND

THURINGIA

CZECH REPUBLIC

BAVARIA

# MICRO!

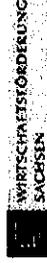
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GLOBALFOUNDRIES

**FAB 8: Malta, New York**

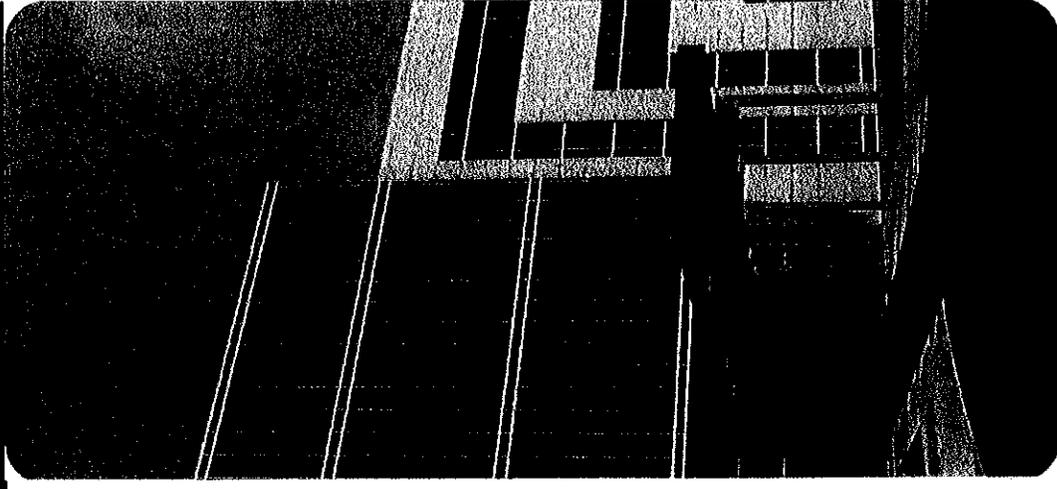


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## Fab 8: 300mm Manufacturing

- **The world's most advanced foundry**
  - Luther Forest Technology Campus
    - Saratoga County, NY
  - \$4.2 billion investment
  - Expected to come online in 2010
  - Over 1,400 direct jobs
    - More than 5,000 spinoff jobs
  - Designed for 28/22nm process tech
  - 35,000 WSM once fully ramped
  - Leverages strong regional US talent and shared experiences from Dresden
  - Integrated global network of fabs



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## Typical Fab Workforce Breakdown

### 35% Fab Operators

- Role: Fab Operations
- Degrees: Associates, Electrical, Instrumentation, Semiconductor Programs

### 25% Technicians

- Roles: Fab Operations Engineering, Manufacturing Support, Site Services
- Degrees: Associates, Electrical, Instrumentation, Semiconductor Programs

### 30% Engineering

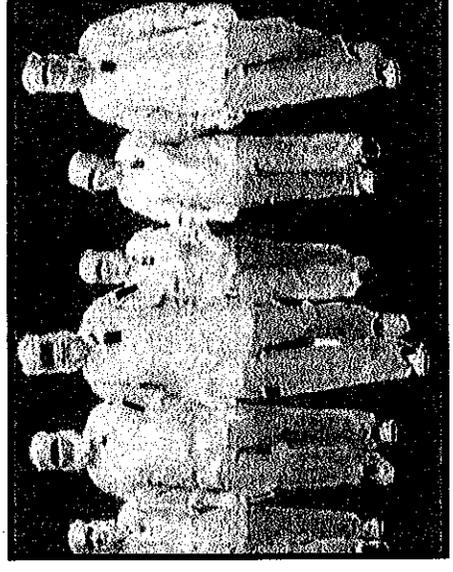
- Roles: Fab Operations Engineering, Manufacturing Support, Site Services
- Degrees: EE, Materials Science, Chemistry, Physics, Math

### 5% Management

- Roles: Manufacturing Support, Site Services, Fab Ops
- Degree: Largely Engineering & Technical

### 5% Administrative

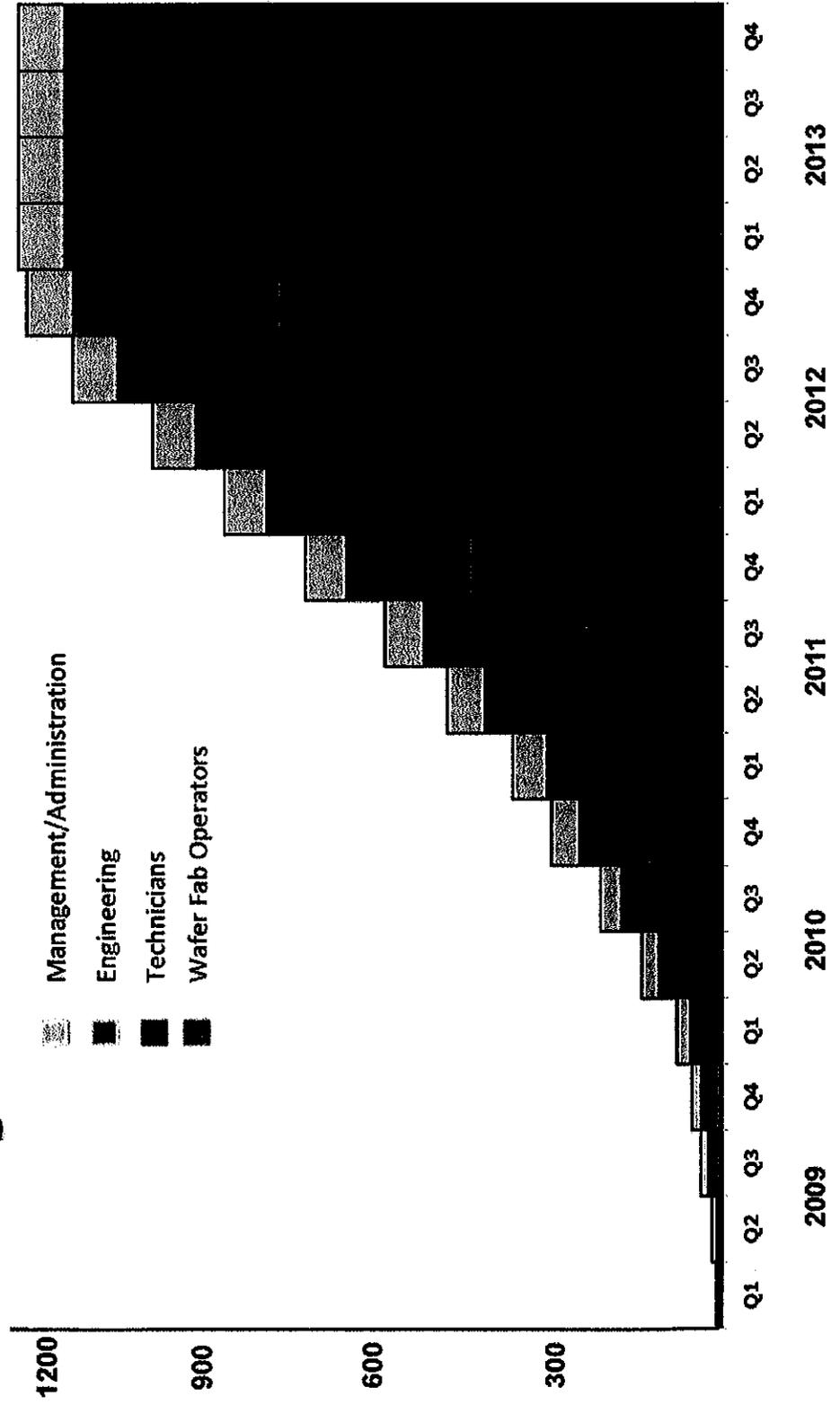
- Roles: HR, Finance, Legal, PR, Marketing
- Degrees: BA, MA, MBA, PhD



# New York's Tech Valley

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## Fab 8 Hiring Timeline



# New York's Tech Valley

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**“New York’s Tech Valley region  
could become the  
Silicon Valley of Nano  
and even surpass it in  
economic importance”**

**- Forbes**

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## 10 Year Impact - Billions of \$\$

10 year State direct tax* revenue increase:	\$711,773,111
10 year County sales tax* revenue increase:	\$414,028,530
10 year additional GDP from multiplier effect:	\$5,678,840,086

\* sales/income tax for consumables in the fab and increased purchases by new consumers



# New York's Tech Valley

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## Summary Sheet

Required Investment and Metrics for New York State Include:

- **Anticipated Number of Jobs = 5,514**
  - Direct and Indirect
- **Assumptions**
  - \$650 Million Investment by New York State
    - \$500 Million Invested in the First Three Years
    - \$150 Million R& D Investment in Years Four – Six
  - Investment Cost of \$117,884 Per Job Created
  - Direct and Indirect Jobs Include Fab Employment, Support Services and Additional Jobs Generated in the Community
- **ROI**
  - 5 yr = 466%
  - 10 yr = 609%
- **Breakeven Years and Months**
  - Within First Year

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## Return to the State of New York

	State Revenue	Added GDP	Total
Year 1	\$23,884,500	\$353,480,000	\$377,364,500
Year 2	\$40,516,680	\$537,990,331	\$578,507,012
Year 3	\$41,732,181	\$554,130,041	\$595,862,223
Year 4	\$42,984,147	\$570,753,943	\$613,738,089
Year 5	\$44,273,671	\$587,876,561	\$632,150,232
Year 6	\$45,601,881	\$605,512,858	\$651,114,739
Year 10	\$51,325,318	\$681,510,056	\$732,835,375