



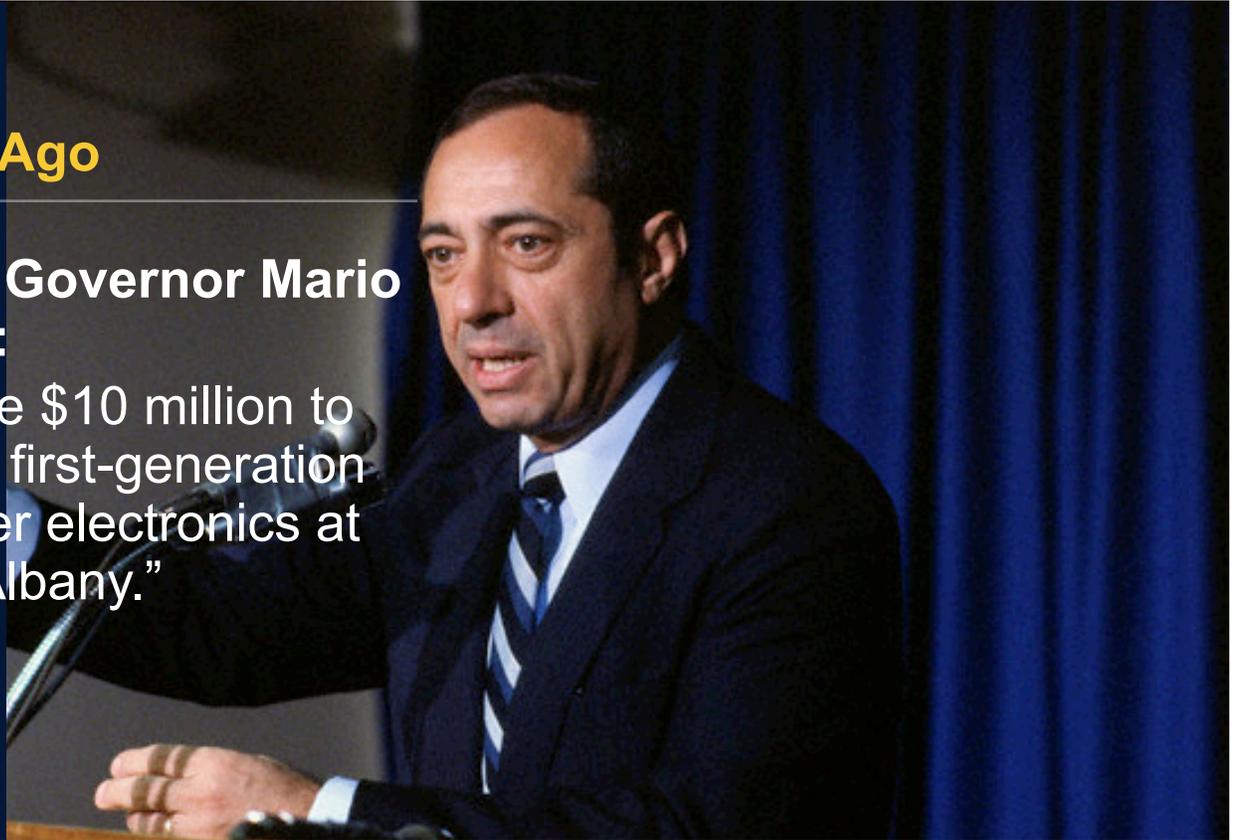
**CNSE is one  
example of how  
New York State is  
leading the  
transition to a 21st  
Century economy**



**25 Years Ago**

“  
I asked Governor Mario  
Cuomo:

“Give me \$10 million to  
develop first-generation  
computer electronics at  
SUNY Albany.”





**That investment today in  
the Capital Region**

**CNSE:**

\$25 billion total investment from  
public and private sources  
3,300 jobs supported on site and  
more than 15,000 across Upstate  
\$91,000/year average salary  
5.1% unemployment (6.1% national)

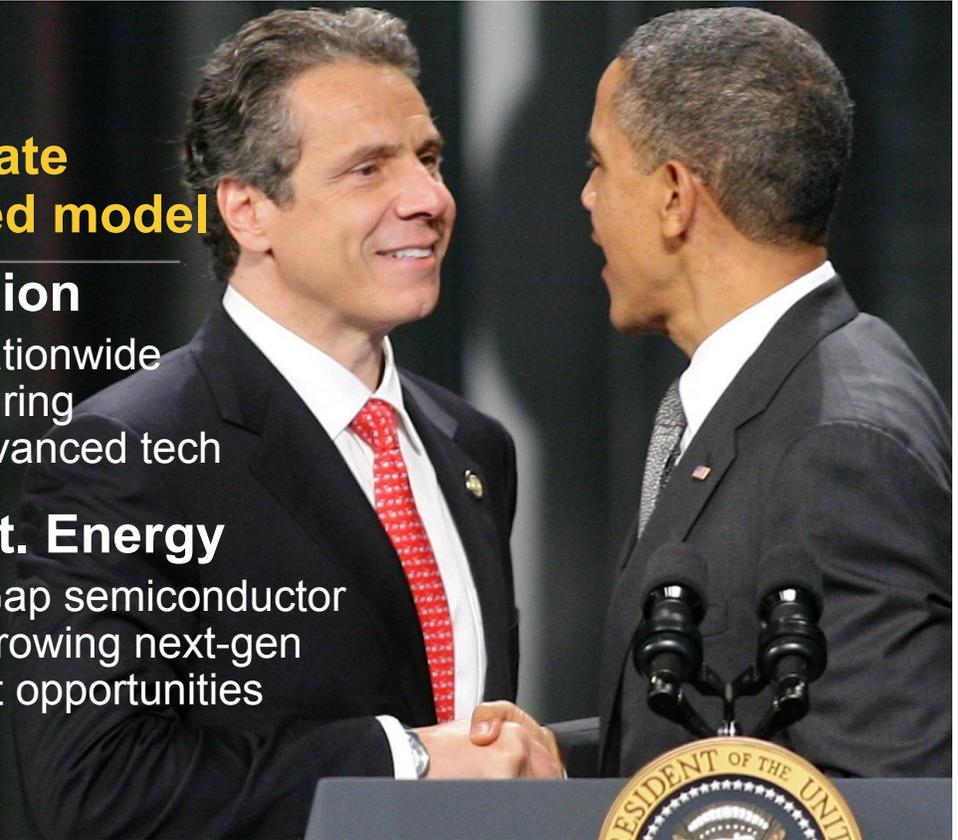
**CNSE / New York State  
nationally recognized model**

**2013 State of the Union**

POTUS called for a Nationwide  
Network for Manufacturing  
Innovation to scale advanced tech

**June 2013 – US Dept. Energy**

Identifies Wide Band Gap semiconductor  
as one of the fastest-growing next-gen  
technology and market opportunities



**Today**

“

I ask the next generation  
**Governor Cuomo:**

“Give me \$135 million to  
develop the next generation  
power electronics.”





We are pleased to announce today a second half of the **New York Power Electronics Manufacturing Consortium**, a partnership to build the next generation of semiconductors, **in Rochester**.

# What will the next generation semiconductor do?



## Optical Electronics

Light Emitting Diodes(LEDs)



Laser Diodes for Data



Displays/ Optical Scanners



## Power Electronics

Power Supplies & UPS



EV/HEV



Electric Motors



Grid & Micro-Grid



Wind & Solar



## RF Electronics

Satellite



Wi-Max/LTE Base



Radar/Sonar Defense



We have attracted the leading businesses in the field...

NEW YORK POWER ELECTRONICS  
MANUFACTURING CONSORTIUM



GLOBALFOUNDRIES





**Public-Private Investment**

**\$500 million** investment reliant  
on **\$135 million** in State  
funding over 5 years

**+ STARTUPNY**  
**Tax-free program**

An aerial photograph of the Rochester Technology Park, showing several large industrial buildings and parking lots. The text is overlaid on the left side of the image. The text is in white and yellow colors. The background is a dark, semi-transparent overlay.

## Impact in Rochester

### New 200mm wafer fab line

At Canal Ponds Business Park  
Commercialize power electronic  
devices used in **data centers,**  
**electric vehicles, avionics,**  
**defense, consumer, smart cities**

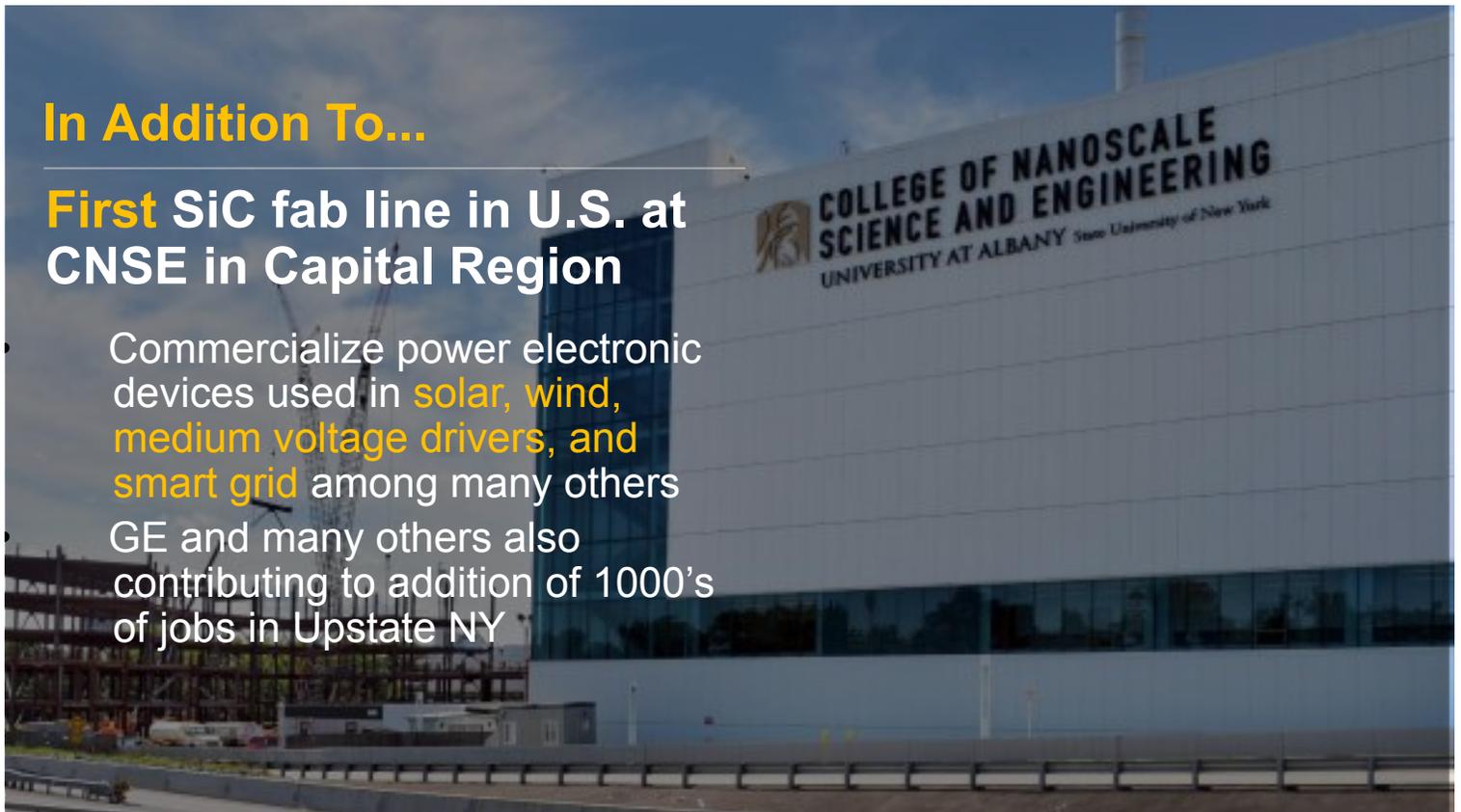
Leadership support from IBM,  
Sematech and others, creating  
1000's of jobs in Upstate NY

## In Addition To...

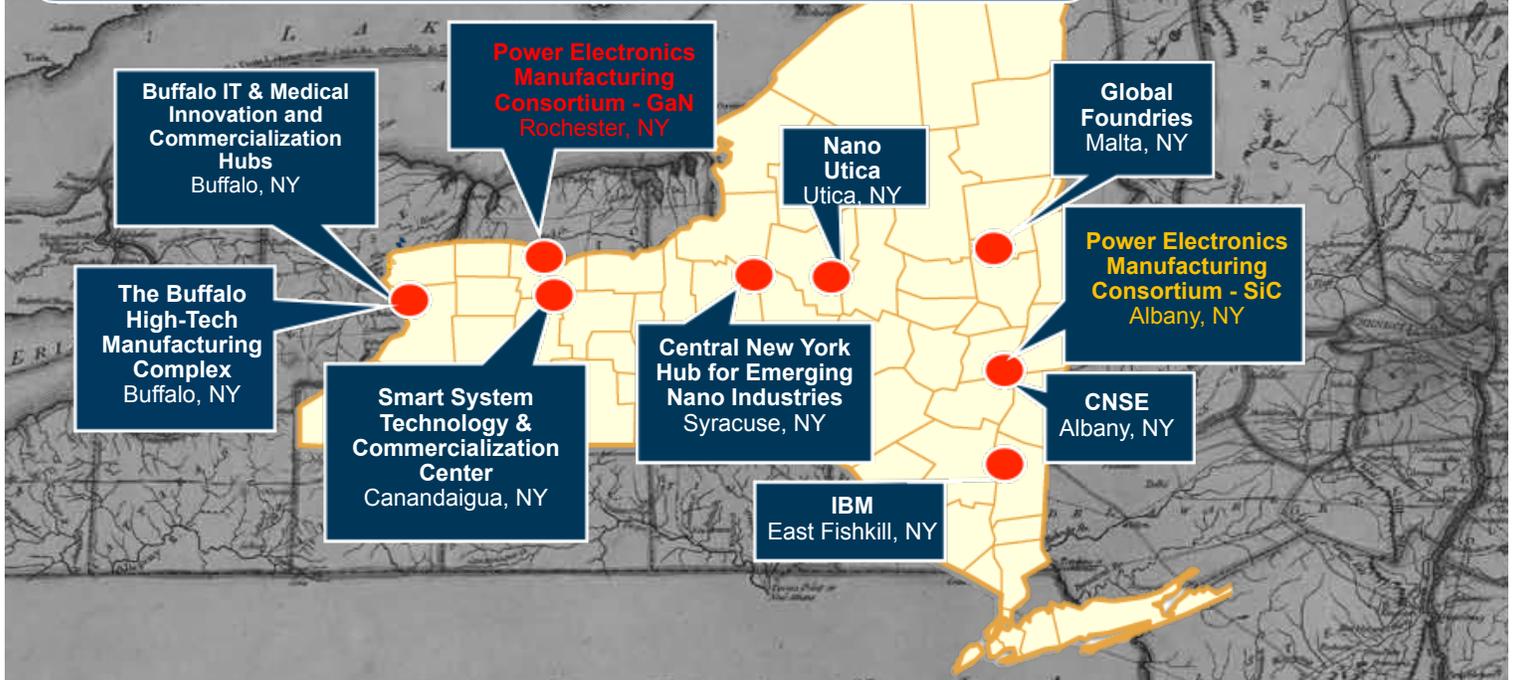
### First SiC fab line in U.S. at CNSE in Capital Region

Commercialize power electronic devices used in solar, wind, medium voltage drivers, and smart grid among many others

GE and many others also contributing to addition of 1000's of jobs in Upstate NY



# Growing New York's Nanotech Corridor



An aerial photograph of a city grid, likely New York City, showing a dense pattern of streets and buildings. The colors are somewhat muted, with shades of brown, grey, and green. Overlaid on the center of the image is a logo for the New York Power Electronics Manufacturing Consortium. The logo consists of a blue silhouette of the state of New York on the left, with a thick orange swoosh that starts from the bottom of the state and curves upwards and to the right, ending behind the text. The text is contained within a light blue horizontal bar that has a slight 3D effect with a darker blue shadow underneath. The text is arranged in two lines: the top line is in a dark blue, sans-serif font, and the bottom line is in a bold, orange, sans-serif font.

NEW YORK POWER ELECTRONICS  
**MANUFACTURING CONSORTIUM**

