

# Illinois Quantum & Microelectronics Park **Informational Meeting**

August 28, 2024



# AGENDA

## **Welcome**

Peter Chico, 10<sup>th</sup> Ward Alderman  
Stanley Moore, 4<sup>th</sup> District Commissioner

## **IQMP Project Overview**

G. Tito Quiñones; Deputy Director, Illinois Department of Commerce and Economic Opportunity  
Harley Johnson; Acting Director, Illinois Quantum and Microelectronics Park, LLC

## **Environmental Considerations**

James Jennings; Interim Director, Illinois Environmental Protection Agency

## **Development Team & Engagement**

Yanet Garcia; Vice President Construction, Related Midwest

## **Discussion**

# Peter Chico

10<sup>th</sup> Ward Alderman





# **Stanley Moore**

4<sup>th</sup> District  
Commissioner



## **G. Tito Quiñones**

Deputy Director, Illinois Department of  
Commerce and Economic Opportunity



## **Harley Johnson**

Acting Director, Illinois Quantum and  
Microelectronics Park, LLC





An aerial photograph of a city, likely San Francisco, with a blue overlay. A specific area in the city is highlighted with a semi-transparent blue rectangle, showing a campus layout. Within this highlighted area, a large building is labeled with the PsiQuantum logo (a stylized Psi symbol) and the name "PsiQuantum".

# WHAT IS IQMP?

A **first-of-its-kind** campus built for quantum computing scale-up and related quantum and advanced microelectronics research and development



# WHY QUANTUM?

Quantum computing has the potential to **solve problems that will transform how critical industries function.**

- Allow chemists to develop **more efficient and cost-effective green energy** tech including solar & EV batteries.
- Helping scientists design **life-saving drugs**
- Tackle **optimization problems** in **supply chain** and **financial services.**

Quantum computing stands to serve as a **catalyst for Illinois' critical industries and the local community**, creating hundreds of jobs and making Chicago a hub for quantum innovation





# WHERE IS IT?

- **128 acre site**, 1M+ sq ft along Lake Michigan
- **US Steel South Works** site
- Amidst a strong existing ecosystem to further establish Illinois as a **global hub for quantum** (universities, national labs, industry, etc.)





# What's at the park?

- 128-acre campus for **quantum companies, Illinois universities, and other organizations**
- **PsiQuantum's** Quantum Computing Operations Center will be the anchor tenant of the IQMP
- Most of the infrastructure will be **office buildings**
- **A shared cryoplant** will deliver the low temperatures required to operate
- **Workforce development programs** for quantum and microelectronics education and training
- **Supplier facilities** for critical components such as **microelectronics and refrigerators**
- **DARPA Quantum Proving Ground** to prototype and test promising quantum technologies





# About the URO

- **A single-member organization** overseen by the Board of Trustees of the University of Illinois
- Purpose of the URO is to **manage and operate** the IQMP, modeled after the University of Illinois Research Park
- Led by a **Board of Managers**, with reps from:
  - Academic institutions (including CSU and CCC)
  - State government
  - Nonprofit organizations
  - Private sector





# IQMP Key Facts



**NO smokestacks**



**NO chemical pollutants**



**100% carbon-free power**



**No impact to Steelworkers  
Park or Park 566**







# **James Jennings**

Interim Director,  
Illinois Environmental  
Protection Agency



# Environmental impact

- Modeled after the Research Park at University of Illinois
- Significant remediation of the site was conducted under prior ownership in the 1990s
- 128-acre site has a No Further Remediation from IEPA in 1997 Illinois Environmental Protection Agency reconfirmed in 2006 and 2010
- IEPA will work closely with IQMP to continue to monitor for environmental impacts during construction to document and mitigate concerns



Research Park at University of Illinois



National Petascale computing facility at the University of Illinois

# **Yanet Garcia**

Vice President  
Construction,  
Related Midwest







# 35 Years of Creating Inspirational Places





# RELATED MIDWEST COMMUNITY PARTNERSHIPS



BENNETT PARK



ROOSEVELT SQUARE



PROJECT H.O.O.D



LATHROP HOMES



DISCOVERY PARTNERS INSTITUTE



HIRE360



# Discussion

## ● Microphones

Once we complete questions submitted during the presentation, please move to one of the two microphones to ask additional questions.

## ● Questions

Please only ask one on-topic question at a time and keep comments to less than 90 seconds to allow as many people to participate as possible.

## ● Unanswered questions

To be respectful of everyone's time, we will need to conclude on time. Please use the website to submit additional questions.



# THANK YOU

To learn more, ask additional questions, share comments, and sign up to receive more information, please visit:

[www.intersectillinois.org/illinois-quantum-park/](http://www.intersectillinois.org/illinois-quantum-park/)

