→ **P33 ORGANIZATION**

→ COVID AND THE DATA COMMONS

→ WRAP UP

OUR MISSION

———————

TO TURBOCHARGE CHICAGO'S TECH ECONOMY AND PROMOTE INCLUSIVE GROWTH

OVER THE LAST TWO YEARS, P33 BROUGHT TOGETHER MANY CHICAGO LEADERS TO DEVELOP OUR STRATEGY

Led by respected Chicago leaders...

P33 leadership

Penny Pritzker — PSP PARTNERS

Chris Gladwin — OCIENT

Kelly Welsh — Civic Committee, COMMERCIAL CLUB OF CHICAGO

Brad Henderson — P33

P33 Working Group co-chairs

Tom Wilson
Michael Krauss
Steve Koch
Hardik Bhatt
Walter Massey
Mark Tebbe

John Rogers
Kristi Ross
Greg Brown
Suzanne Muchin
Michael Fassnacht

...and 200+ stakeholders across the industry, tech, and academia landscape

Industry & corporates: CAT, LinkedIn, Civic Consulting alliance, ULTA BEAUTY, accenture, BANK OF AMERICA, tastytrade, Allstate, MIND+MATTER studio, BCG, NORTHERN TRUST, MARKET STRATEGY GROUP LLC, MOTOROLA, UNITED, McDonald's, amazon web services, McKinsey & Company, FCB FOOTE CONE & BELDING, CHASE

Research, talent & gov't/NGO: ILLINOIS INSTITUTE OF TECHNOLOGY, THE UNIVERSITY OF CHICAGO, ChicagoNEXT, Chicago Public Schools, yearup, DISCOVERY PARTNERS INSTITUTE, Northwestern, BTM, CITY COLLEGES of CHICAGO Center for Operational Excellence Education that Works, Argonne NATIONAL LABORATORY, CITY OF CHICAGO, ILLINOIS

Developers, incubators / accelerators & capital: MHUB, Relativity, POLSKY, ARIEL INVESTMENTS, UNIVERSITY TECHNOLOGY PARK AT IIT moving innovation forward, MXD The Digital Manufacturing Institute, 1871, CHICAGO VENTURES, MATTER, fourkites, HYDE PARK VENTURE PARTNERS, ARCH VENTURE PARTNERS, UPTAKE, CREDIT SUISSE

P33 HAS AN EXTENSIVE BODY OF WORK UNDERPINNING OUR STRATEGY

1 Thorough **diagnostic of trends**, strengths, gaps by cluster

2 Deep **benchmarks** comparing our assets to other cities

3 300+ **partner conversations** to surface hypotheses and explore ideas

4 Extensive **customer research** about the perception of Chicago

P33 CHAIRS

PENNY PRITZKER
Founder & Chair, P33
Founder & Chairman, PSP Partners

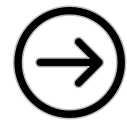**CHRIS GLADWIN**
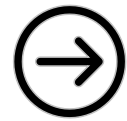**Founder & Vice Chair, P33**
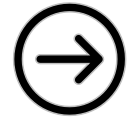Co-Founder & CEO, Ocient

KELLY WELSH
Vice Chair, P33
President, Civic Committee
of the Commercial Club of Chicago

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…BEFORE MARCH 11ᵀᴴ I HAD A DAY JOB THAT HAD LITTLE TO DO WITH COVID-19…

I am the SVP Lifesciences and Healthcare at P33

My platform involves Deep Tech and early science commercialization in Illinois

I have slides that discuss this later on in the presentation

After March 11th, P33, like many other organizations, went remote and tried to help with the COVID response

I am going to tell you about one initiative that we developed

COVID-19 IS A CRISIS OF INFORMATION...
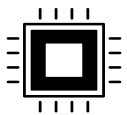
Key Decisions

How do we better treat COVID-19 patients?

How is the virus travelling through our city and state?

When should we open or close parts of the city / state?

What can we learn to avoid future pandemics?

Shifting from 'reacting' to 'predicting'

TODAY: Social Distancing to "flatten the curve"

IN 1-2 MONTHS: Smart tracking and prediction to prevent new outbreaks and better diagnostic and therapeutic interventions to treat outbreaks that do occur

—— Virus cases – no interventions

- - - - Virus cases – with smart interventions

Current hospital resources
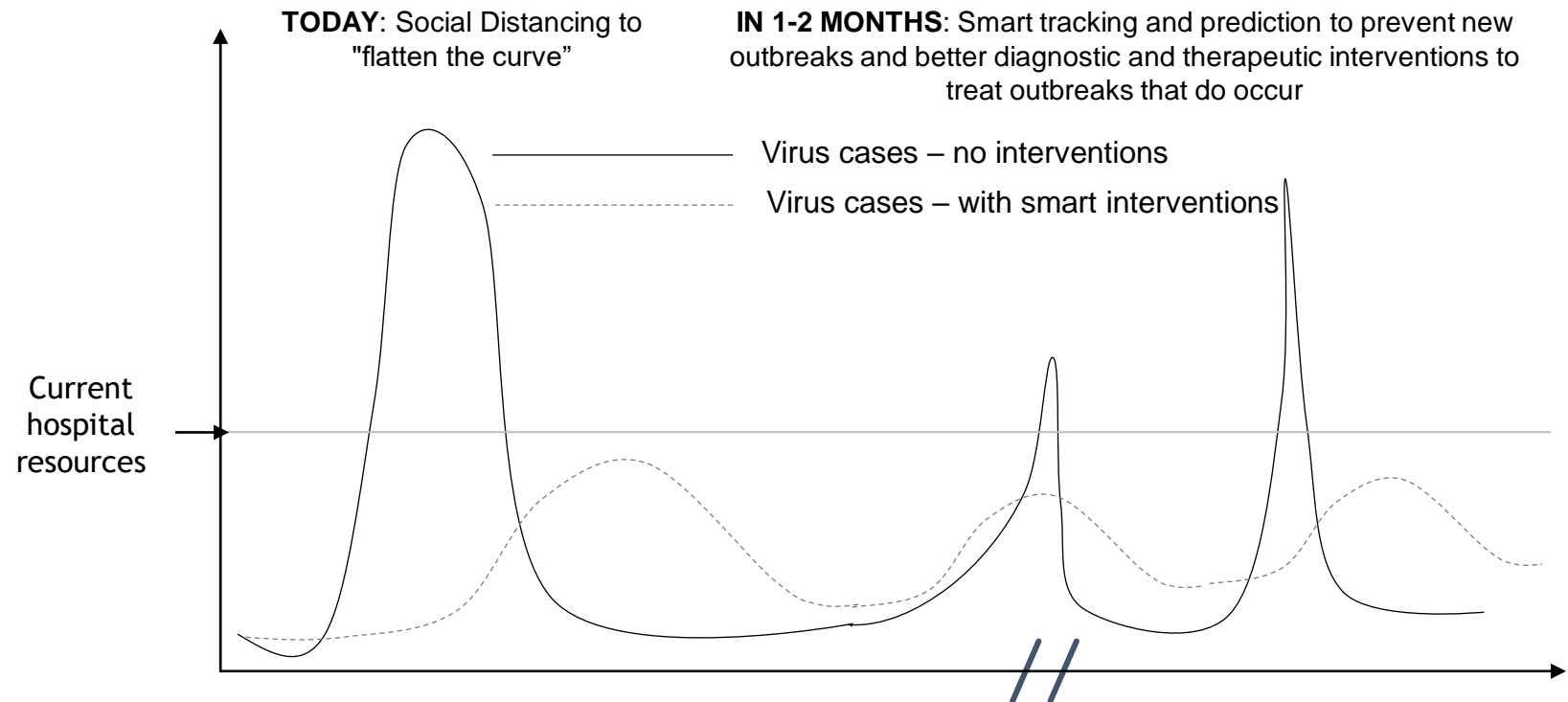
...TO COMBAT THIS, WE WORKED WITH THE OPEN COMMONS CONSORTIUM TO STAND UP THE CHICAGOLAND COVID-19 COMMONS

The **CCC** is a regional effort that brings together data from local hospitals, community clinics and public data sets. It will enable data analysis and development of predictive models that will improve our understanding of the virus and support the rapid development of targeted solutions to the emerging questions facing physicians, policy makers and decision makers.

Current CCC Data Partners

THE CCC IS A PUBLIC GOOD AND WILL IMPROVE HEALTH OUTCOMES FOR ALL COMMUNITIES

The CCC is a **public good** managed and operated by the Open Commons Consortium (OCC), a nonprofit entity dedicated to standing-up open data commons, in partnership with P33, a non-profit with the mission to turbocharge Chicago's tech economy and promote inclusive growth.
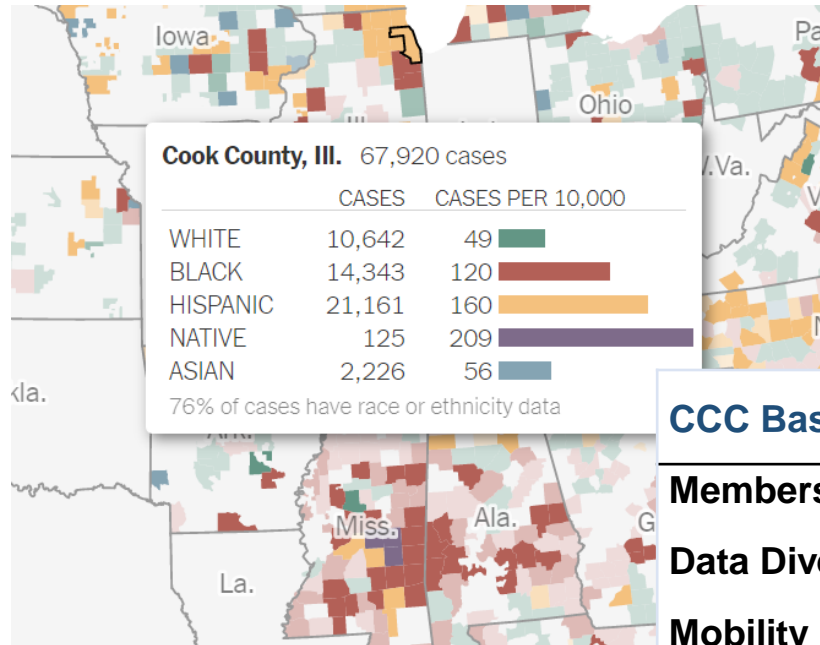
Public Good: The CCC is an open data source so that all communities can visit, query, set-up workspaces and conduct analyses. All data is de-identified and securely stored on the Gen3 Data Commons framework

Gen3 Data Commons framework is a product of the Center for Translational Data Science and the **Open Commons Consortium.** It is powering a number of other Data Commons, most notably a few at the National Institutes of Health (NIH).

P33 has been leading this work to ensure that hospital and community partners are involved as well as important partners in industry to support this work.

IT WILL ENABLE NEARLY REAL-TIME DATA SHARING FOR NEW INSIGHTS INTO A DISEASE THAT DISPROPORTIONATELY BURDENS PEOPLE OF COLOR

Cook County, Ill. 67,920 cases

	CASES	CASES PER 10,000
WHITE	10,642	49
BLACK	14,343	120
HISPANIC	21,161	160
NATIVE	125	209
ASIAN	2,226	56

76% of cases have race or ethnicity data

CCC Basics

Membership Participation	Member-led Consortium Model
Data Diversity	Clinical, genomic, phenotypic, proteomic, image and biospecimen
Mobility Data	Yes, self - reported
Access to data	Self-service
Data Updated	Daily
Analytics Tools	Dashboards, exploration pages, Rstudio, Jupyter notebooks
Project Assignments	Working groups

CCC MODELS – CONSTRUCTED BY DATA SCIENTISTS AT THE OCC AND INFORMED BY CCC WORKING GROUPS – ALLOW USERS TO EASILY EXPLORE THE DATA
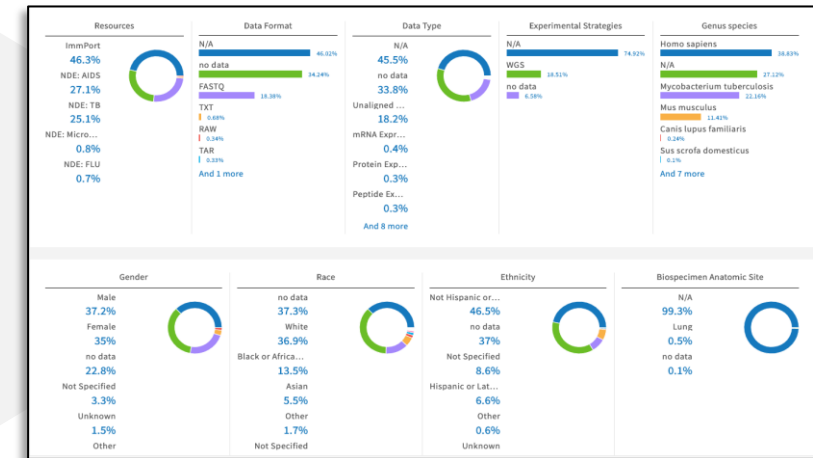
1 **Filter by subjects…**

- Genus species
- Race
- Ethnicity
- Gender
- Age
- Etc.

2 **…. And by experiments**

- Experimental Strategies
- Virus Type and Subtype
- Biospecimen Anatomic Site
- Cell Line
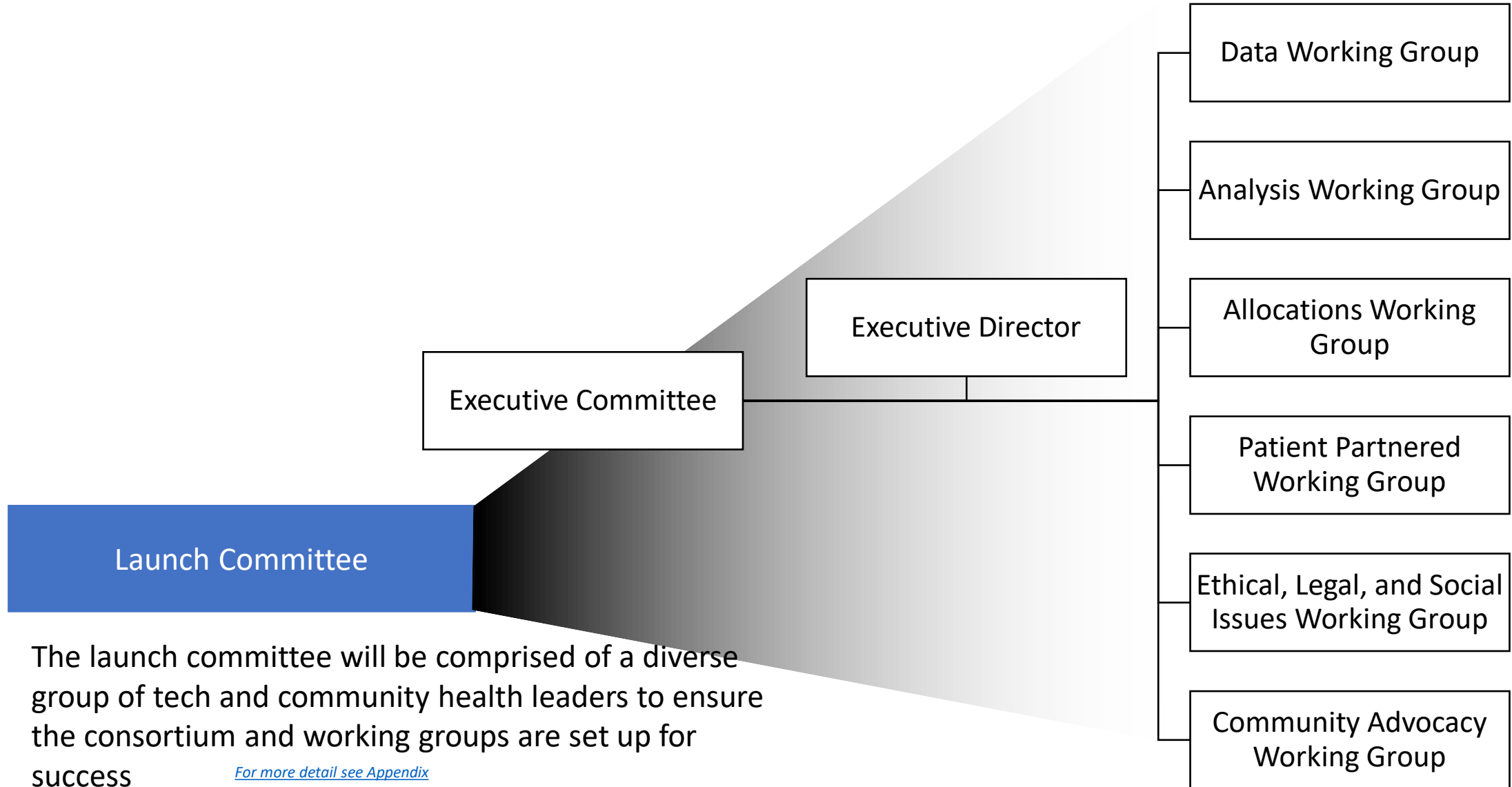- Sample Type
- Etc.

To Build A Virtual Cohort

- Genus species
- Race
- Ethnicity
- Gender
- Age
- Experimental Strategies
- Virus Type and Subtype
- Biospecimen Anatomic Site
- Cell Line
- Sample Type
- Etc.

THE MEMBER-LED GOVERNANCE MODEL WILL ENSURE THAT ALL MEMBERS HAVE A VOICE AS THEY ARE SEATED AT THE TABLE.

Executive Committee

Executive Director

Launch Committee

Data Working Group

Analysis Working Group

Allocations Working Group

Patient Partnered Working Group

Ethical, Legal, and Social Issues Working Group

Community Advocacy Working Group

The launch committee will be comprised of a diverse group of tech and community health leaders to ensure the consortium and working groups are set up for success

For more detail see Appendix

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THE CCC IS DEPENDENT ON A STRONG ECOSYSTEM OF HEALTHCARE PROVIDERS, RESEARCHERS, DEVELOPERS, AND OTHER CRITICAL 3RD PARTIES

Health and Tech Coalition Builders:
P33 brings together local partners and leaders and engages supports as needed

Data Scientists:
Identify and harmonize the data coming to the CCC and build data models, visualizations, etc.

Hospitals & FQHCs and Community Clinics:
Share summary incident data and clinical data and serve on working groups to ensure that all, especially those most vulnerable, are the focus of public strategies. CCC provides support to partners – via data wranglers – to facilitate their ability to share data, even those with low data capacity.

Public Partners:
Local, regional and national government partners access the data to inform policy.

Chicagoland COVID-19 Commons

Industry:
Supports hospital, FQHCs and community clinics to share data and the overall CCC's infrastructure.

Private Philanthropy:
Seeds the cost of initial launch.

Legal and Data Privacy Experts:
Assess any licensing concerns surrounding redistributing the data and ensure proper infrastructure is in place to protect the data.
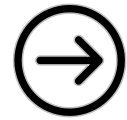
OUR ASK

Healthcare institutions: Become a member of the data commons – membership fees are waived and we are raising money to support your membership. The more data we have the more useful the CCC is
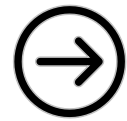
Community members: ask about getting involved, we need all voices at the table

Industry: We are 50% funded to date, we are looking for more industry sponsorships and memberships
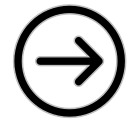
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