

TOWARD A SMART TAMPA

TAMPA, FLORIDA, MARCH 9 - 10, 2020



Comments from Stantec Vice President Nancy MacDonald

Tampa is a dynamic, growing city. If you look around the United States, the average growth rate of cities is about 1.5 percent. In Tampa, it's 2 percent. It's a city full of people, ideas, opportunity, and a place where innovation and creativity thrive. It's what we urban planners would call a magnet.

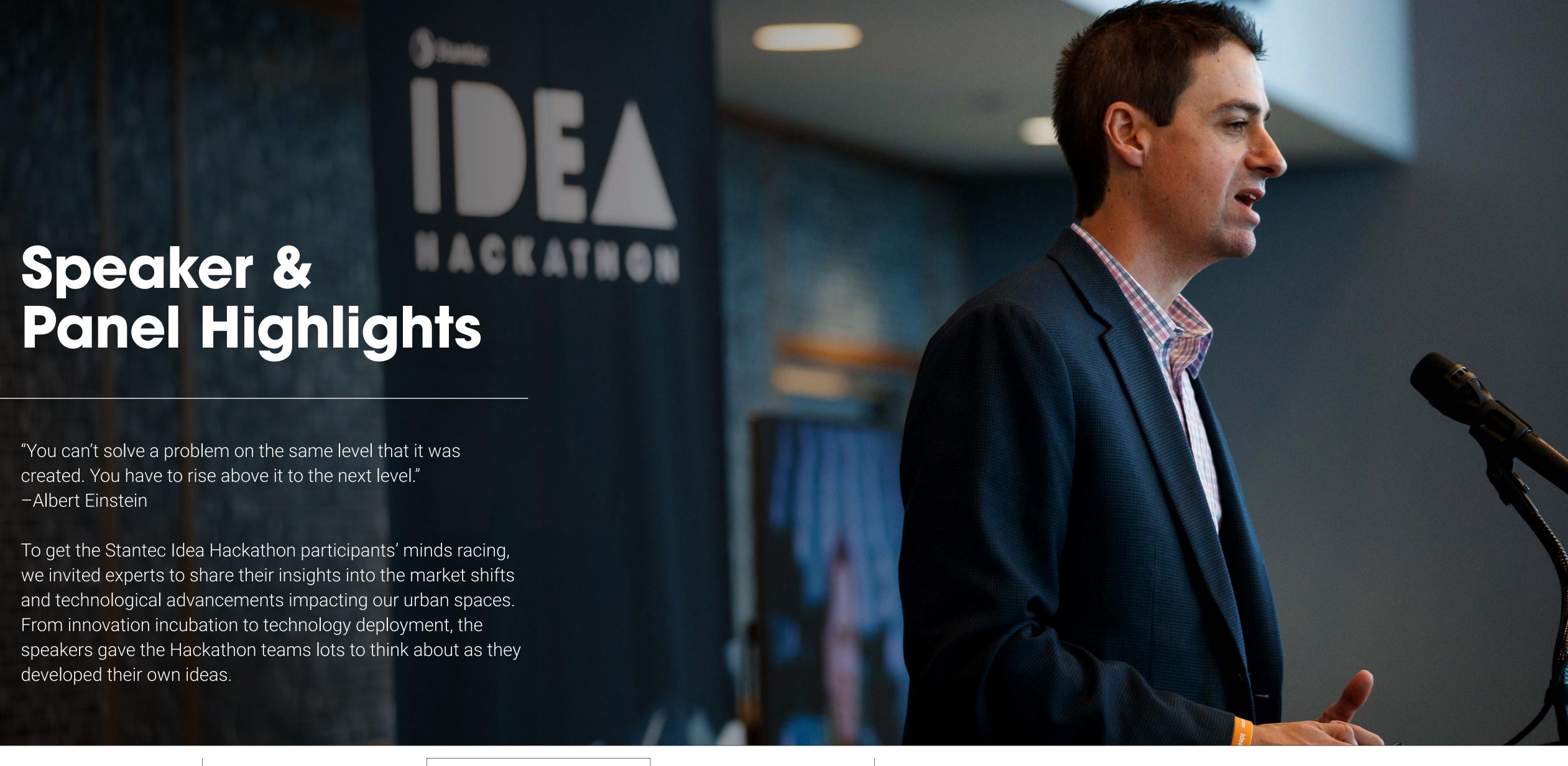
That's an important thing for businesses.
They look for cities like Tampa with a great quality of life, a great place to live, and a

great place to run a business. But with growth comes challenges, one of which is mobility.

Stantec has a strong presence in Tampa, with a lot of great partners, including the Tampa Bay Lightning. We have deep roots in the community. So, this was a logical place for us to explore new ideas on mobility and cities, how we build the future and enhance quality of life.

The best solutions that happen in a city are never the product of just one group. We're here because the Idea Hackathon is an opportunity to put diverse groups from the community together to solve problems in ways that wouldn't normally happen. That's why we decided Tampa is a great place to be. Our challenge here is to explore how we can leverage technology to define and design a new mobility future that ensures Tampa is a livable, equitable, and resilient city.





SPEAKERS



Vik Bhide

City of Tampa
Director of Transportation and Stormwater Services





The challenge is very clear when it comes to mobility. Mobility is pretty much at the core of liberty. It's the ability to move from one place to another. And how we move about is shaped by how we are developed. What do our spaces look like? Are we suburban and are we urban?



Jason Schrieber

Stantec Senior Principal, Urban Places





Transportation design has to be equitable. And we have to be able to make sure that we can get all of these services into anybody's hands - of any background, age, or financial ability.



Brian Kornfeld

Synapse
President and Founder

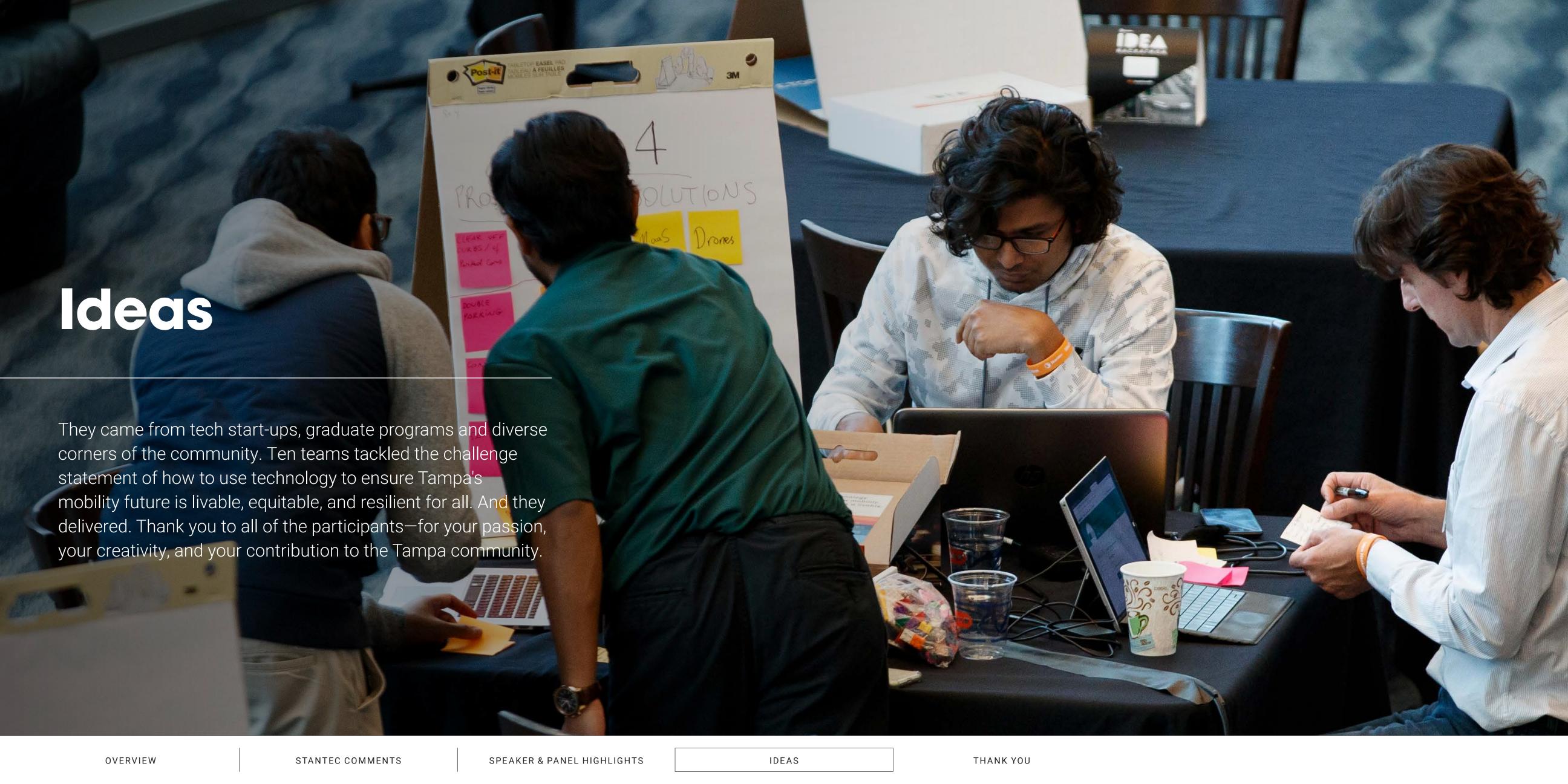
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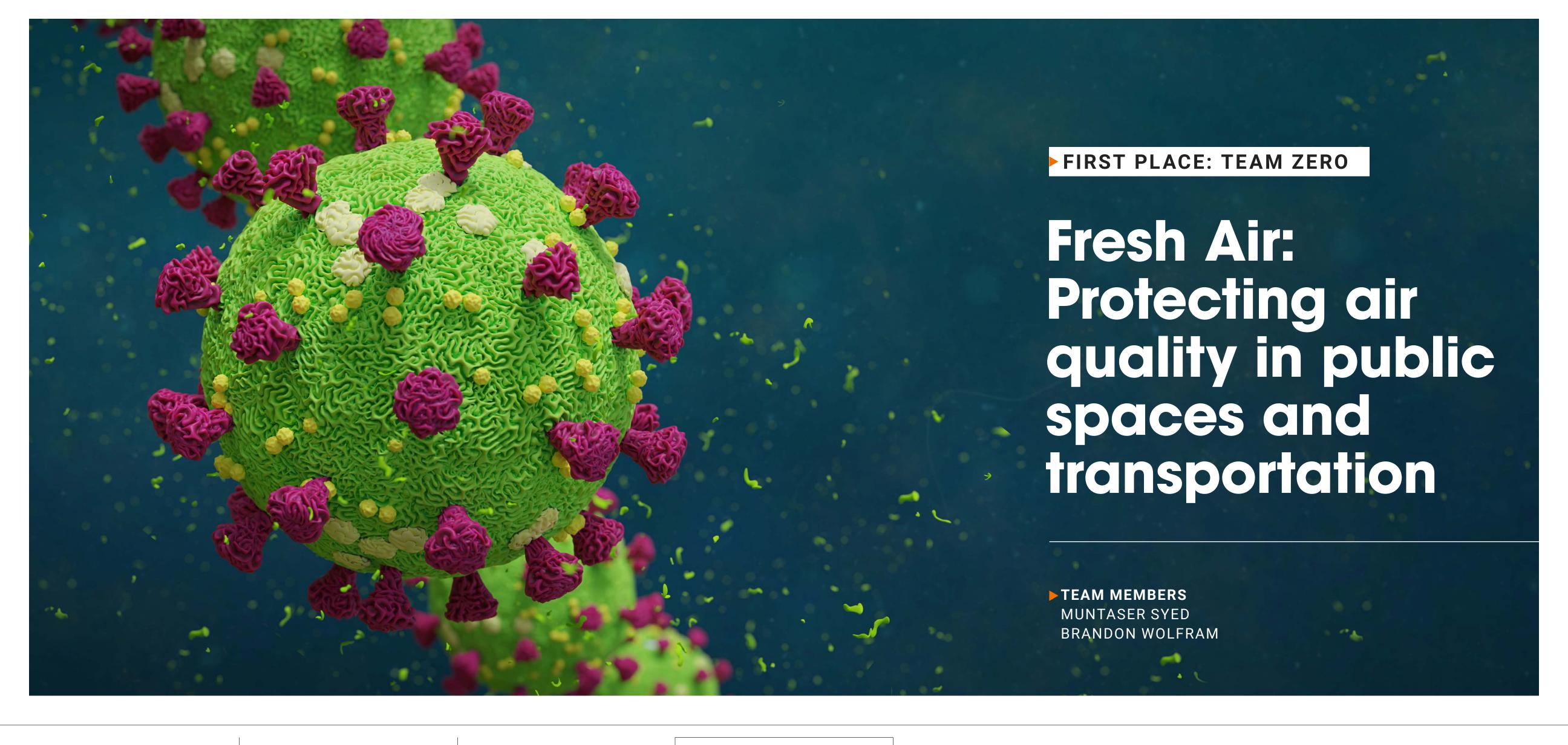


THANK YOU

We can get things done by thinking differently, and that's how we can innovate in a big way. So as you go forward, continue to think, continue to push each other. There is no wrong answer in this room. There's just a lot of right answers.

Please note that the speaker and panelist quotes have been edited and condensed yet faithfully represent the speakers' ideas.





OVERVIEW STANTEC COMMENTS

SPEAKER & PANEL HIGHLIGHTS

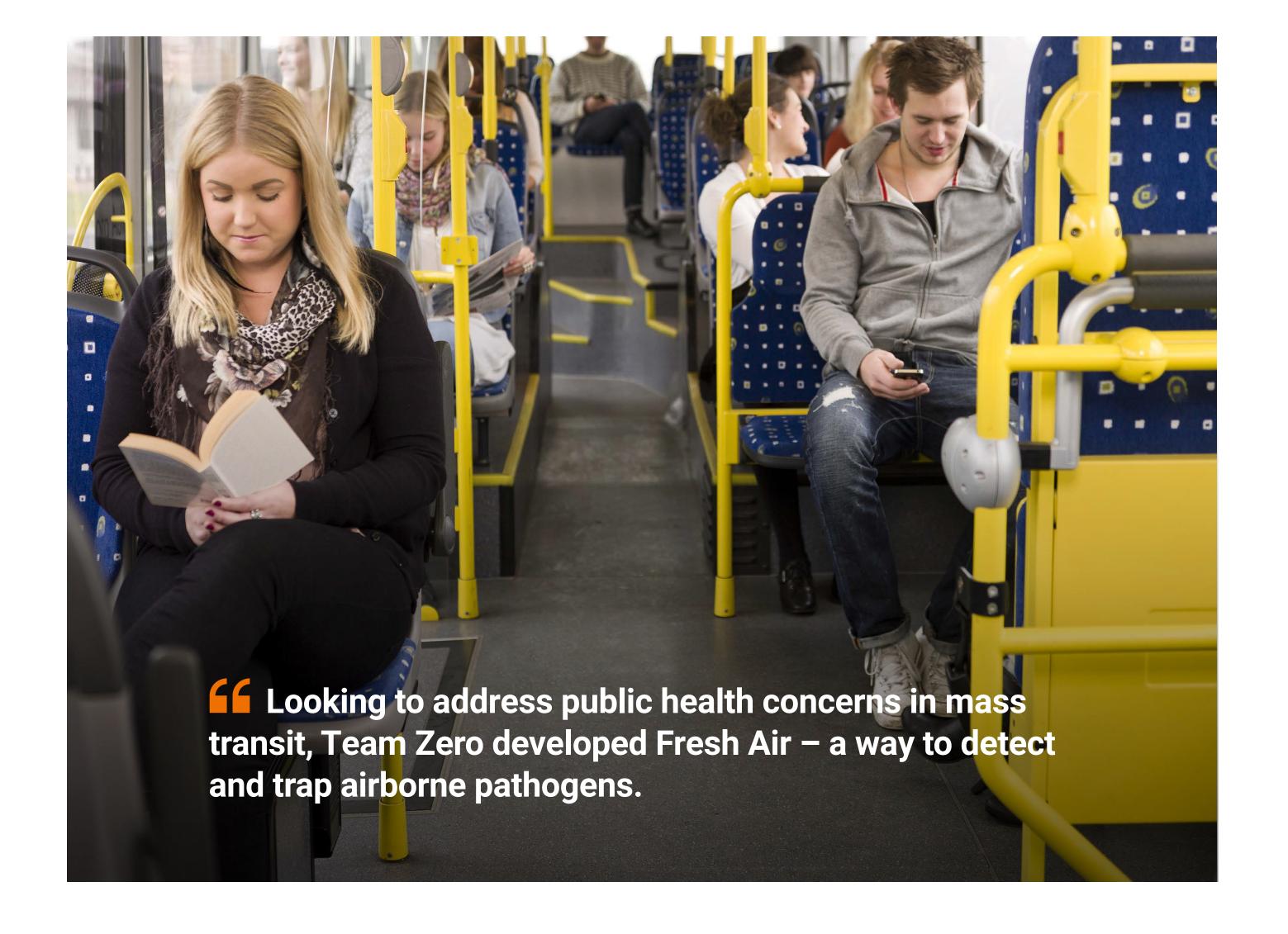
IDEAS

Air quality has always been a focus for technological innovation, whether in public spaces, buildings, or vehicles. But the COVID-19 pandemic put the issue of pathogen testing and transmission on the forefront of public agendas across the world.

Looking to address public health concerns in mass transit, Team Zero developed Fresh Air – a way to detect and trap airborne pathogens. An ion chamber capable of eliminating airborne pathogens is paired with sensors that monitor air quality and enable real-time data mapping and notifications. The data collected is available through an online customizable dashboard.

Fresh Air can be mounted on personal protective equipment for individuals in higher risk situations, such as healthcare providers or transit operators. There is potential to integrate it into HVAC and HEPA filter systems for wider deployment on buses, trains, or airline cabins. In addition to pathogens, Fresh Air can detect harmful or flammable gases such as carbon monoxide and volatile organic compounds.

The ability to monitor, isolate, and direct an early response to air quality issues has the potential to increase public safety and avoid the shutdown of critical services. This is particularly useful for mass transit, where social distancing is challenging. Keeping people moving safely is critically important to a city's economy as well as its social fabric.



SECOND PLACE: TAMPA BAY MOBILITY

Enabling two-way communication and solutions for all mobility users

TRACY INGRAM



OVERVIEW STANTEC COMMENTS

SPEAKER & PANEL HIGHLIGHTS

IDEAS

Pedestrians and other mobility users face distinct challenges from people who drive cars. Tampa Bay Mobility aims to provide a plaform to individuals to give direct feedback on bike paths, scooters, and bus stops to identify where and when there are problems in mobility.

By starting simple – with text messages – user input can be integrated into a hub that connects to existing systems, links to forms, and enables transit agency outreach. Effectively, the hub brings together transit commuters, cyclists, transit agencies, and public works staff. The hub also makes the connection across different levels of government – city, county, and state.

Mobility outreach can be challenging and fragmented. Making the right connections enables agencies to boost outreach and receive feedback on projects to improve mobility experiences for all citizens.

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OTHER IDEAS

GO 4 Team

The team from the University of South Florida looked to address underutilized parking and carpooling options while improving curbside management. Their idea was to develop a mobile app to leverage mobility hubs, carpooling apps, 5G networks, and vehicle to infrastructure connectivity for a more integrated parking and transportation experience. The team had the foresight to look at emerging technologies such as autonomous vehicles and drones, both of which will play an important role in our mobility future.





The Mode Shifters

The team proposed Move Tampa: a way to incentivize alternative transportation modes through data collection, analysis, and mobile alerts. Move Tampa would integrate with Agile Mile, a transportation demand management software that would help learn and influence mobility choices. The team's aim was to increase livability in Tampa by making more transportation mode choices viable, making transportation more equitable by shifting away from the personal vehicle, and improving resilience through reduced pollution and a more diverse transportation system.

Team EPT

Team EPT (Efficient Public Transit) looked to address common deterrents to adopting public transit: longer travel times, unreliable arrival time forecasts, and a lack of flexibility in route choice. Focusing on bus service, the team proposed installing connected sensors within bus stops to better track fleet movement and arrival times. Sensor data would be integrated with mobility apps to provide better, more accurate information for passengers who may need different route options or require additional accessibility. Ultimately, the proposed outcome was to improve the transit experience for all users and grow ridership.



Expo Judges

Dr. Robert Bertini

USF Center for Urban Transportation Research *Director*

David Chong

Stantec
Senior Associate, Power

Jose DeJesus

Port Tampa Bay Senior Engineer

Frank Domingo

Stantec
Senior Project Manager, Transportation

Tom Fass

Hillsborough County

Assistant County Administrator

Rick Gobeille

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Kartik Goyani

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Richard Pascoe

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Project Manager, GIS

Jessica Turgeon

TECO Engineer

Justin Willits

HART Senior Planner

Katie LaBarr

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Project Manager, Planning

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IDEAS



Jason Schrieber

Stantec
Senior Principal, Urban Places

Beth Alden

Hillsborough County
Metropolitan Planning
Organization
Executive Director

Vik Bhide

City of Tampa
Director, Transportation
and Stormwater
Services

Mike Kennedy

Stantec *Executive Vice President*

Brad Cooke

Strategic Property Partners

Vice President

Mentors

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Stantec
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Bob Dixon

qualifiedMEETINGS
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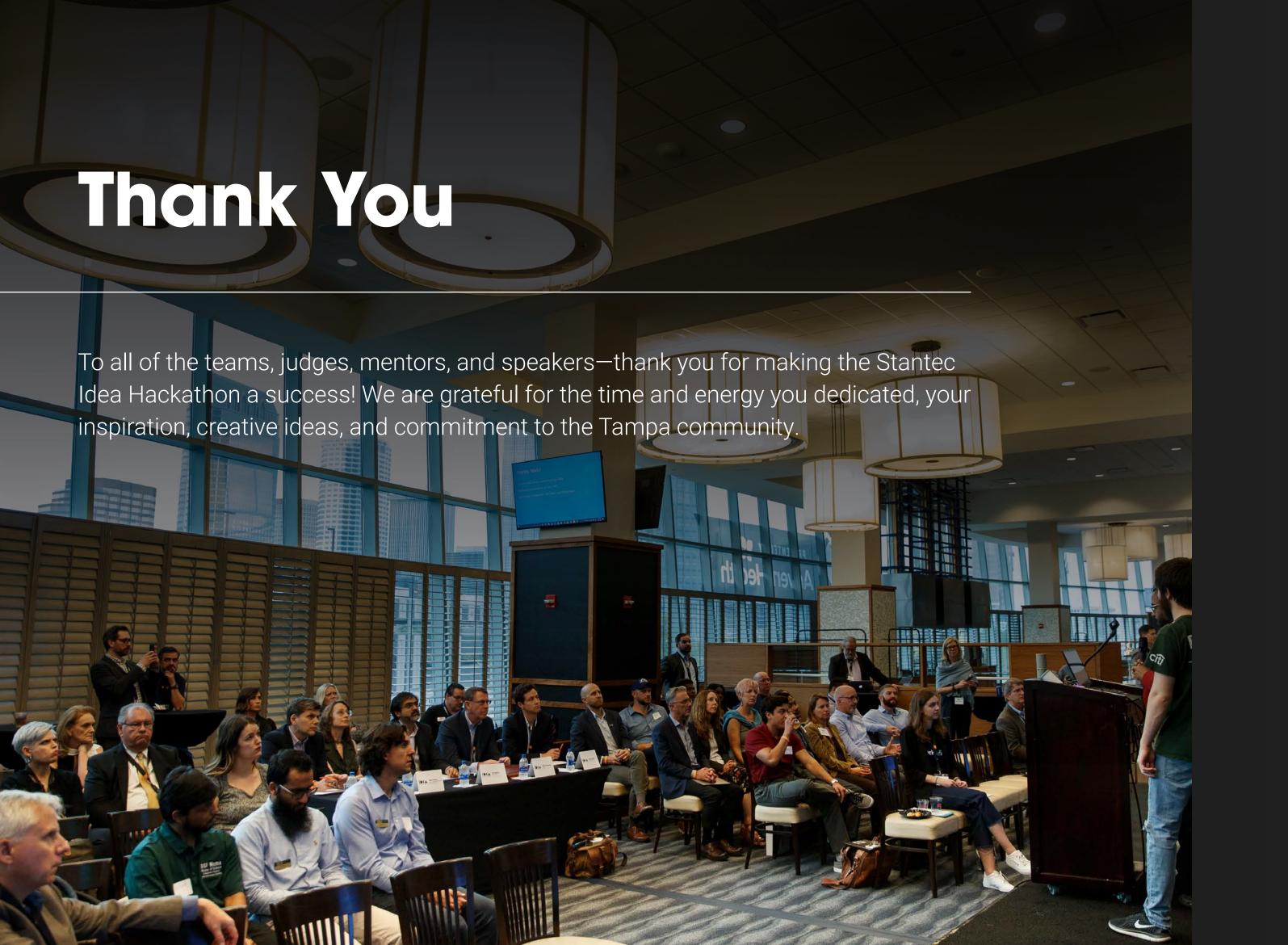
David Robinson

Tampa Bay EDC Economic Development Manager

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IDEAS



PARTICIPATING ORGANIZATIONS:

City of Tampa
Hillsborough Area Regional Transit Authority (HART)
Hillsborough County

Hillsborough County MPO

Metro Development Group

Port Tampa Bay

Schneider Electric

Strategic Property Partners

Synapse

Tampa Bay Lightning

Tampa Bay EDC

TECO

Urban Buffalo Marketing

USF Center for Urban Transportation Research (CUTR)





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