

Digital Twin technology set to transform New York's historic Brooklyn Navy Yard

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CHICAGO, ILLINOIS, UNITED STATES, September 7, 2021 /EINPresswire.com/ -- Digital Twin technology set to transform New York's historic Brooklyn Navy Yard

A ground-breaking project at the iconic Brooklyn Navy Yard site in New York City will show how a Digital Twin platform enables buildings of any size, type, or age to significantly cut operating costs and carbon emissions.



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An [Ernst and Young](#) report confirms that Digital Twins help commercial property and infrastructure owners reduce operating costs by a massive 35%, improve productivity by 20% and cut emissions by 50-100%.

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Cityzenith CEO Michael Jansen

Furthermore, ABIresearch tech intelligence suggests city planners and building asset owners are set to save a staggering \$280bn through Digital Twin technology over the coming years. This is in line with the US Government's 'Build Back Better' programme and its new \$3.5 trillion

infrastructure bill.

The New York City Brooklyn Navy Yard project starts Digital Twin pioneer [Cityzenith](#)'s global 'Clean Cities - Clean Future' initiative to implement the company's SmartWorldOSTM software platform in major cities around the world committed to achieving carbon neutrality.

Caption: Digital Twin technology set to transform New York's historic Brooklyn Navy Yard

NYC took the lead through an alliance between Cityzenith (CZ), NYC 2030 District, and Agile Fractal Grid (AFG) to transform the energy footprint of the 225-acre (91-hectare) Brooklyn Navy Yard.

Phoenix and several other cities will soon follow the 'Big Apple's' example and join the Clean Cities - Clean Future initiative. The announcement of the forward-looking navy yard project comes at a time when major American cities, including New York City, Washington DC and Los Angeles, are pledging to eliminate all emissions by 2050.



Cityzenith CEO & Founder Michael Jansen

Cityzenith founder and CEO Michael Jansen is delighted with the ambitious Brooklyn Navy Yard opportunity.

"We are honored to start our initiative in New York City with NYC 2030 District and energy resilience provider AFG. Cities produce more than 75% of the world's carbon emissions (source: UN), and their buildings account for 50-70% of that - the figure could be as high as 80% in Manhattan. That makes buildings the single biggest polluter on the planet.

"Incredibly, of the 5.9 million commercial office buildings in United States totalling over 100 billion ft., fewer than 100,000 are green buildings (1.7%), and only 500 (0.008%) are net zero buildings.

"Here's the big challenge we're addressing—for commercial property owners, there is no single path to getting to net zero emissions, so they don't move. Achieving net zero emissions in buildings requires simultaneous deployment of multiple strategies, including real time energy monitoring, onsite renewable power generation, and the purchase of carbon offsets. Property owners need a clear predictable engineering solution and financial structure.

"Today, many property owners turn to green building retrofit consulting services which are labor-intensive, costly, and not risk-free. The Brooklyn Navy Yard Digital Twin project will seek to automate these currently manual services in a single easy-to-use solution that is more

comprehensive, more accurate, and much less expensive.

"Digital Twin technology's unparalleled ability to aggregate, visualize, and analyze 3D (space) + 4D (time) data and correlate efficiencies among multiple systems is ideal to solve this problem, providing an optimized net zero building engineering solution that makes financial sense. This is what the market has needed for a long time—a green building calculator that any property can easily use.

"Our goal is to show how an investment of \$0.10 per ft² will unlock \$3-\$5 per ft² in savings with a shortened payback schedule of 3-5 years on retrofit investments.

"We have a long way to go and a lot to do to get to carbon neutrality in our cities, and historically there just haven't been any platform tools to help us get there. That's why we launched the Clean Cities - Clean Future initiative.

"We have the answers our cities in America need to fulfil their climate promises and put words into action. We hope this foundational 'Smart District' Digital Twin project in Brooklyn will set an example for the rest of New York and the country."

NYC 2030 District Chairman Haym Gross responded:

"We are proud to partner with Cityzenith to develop the Digital Twin model of the Brooklyn Navy Yard's Bldg.77, a one million ft² warehouse (equivalent to 21 football fields) recently renovated for commercial and manufacturing use. NYC 2030 District, a non-profit partnership, will work with Cityzenith, Brooklyn Navy Yard, CUNY Building Performance Lab, Buldee and others as a template for the district's partners.

"The Digital Twin, to be produced for a group of navy yard buildings, systems and infrastructure, will provide Brooklyn Navy Yard with the capability to comprehensively monitor building performance and plan energy sustainability and climate resilience projects. Expanding the model to the surrounding area will demonstrate the potential for including neighbouring properties and facilities in community-scale sustainable projects and urban-scale innovative planning."

Energy resilience and security company AFG CEO John. Reynolds said:

"We are so pleased to be working with Cityzenith on the Digital Twin for the New York City area, focusing first on the innovation complex at the Brooklyn Navy Yard. "The plan is to expand the initial project for a wider roll out across the entire country, to transform energy security and infrastructure."

Cityzenith have announced a new webinar series, which starts on 7th September at 1pm CT (7pm BST). This will be a unique opportunity to hear from Michael Jansen, CEO and Founder of Cityzenith, talking about the Clean Cities – Clean Future initiative.

[You can register for the free webinar on Tuesday 7th September here.](#)

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