



LiDAR based Analysis of
Re-development in Hudson
Yards between 2014 and 2017

29th March 2022
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Hudson Yards

Hudson Yards is a 28-acre real estate development in the [Hudson Yards](#) area of [Manhattan](#), [New York City](#), between the [Chelsea](#) and [Hell's Kitchen](#) neighborhoods.

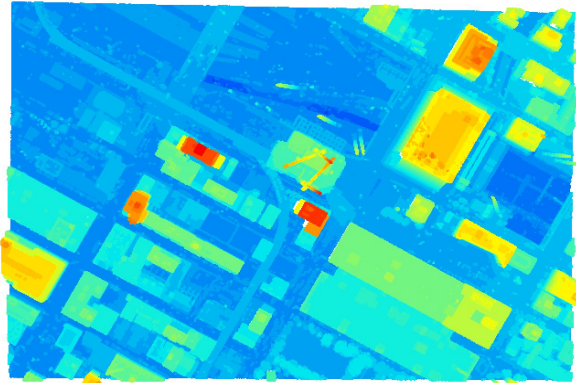
The Hudson Yards site was initially intended for other developments, most notably in the early 2000s as the site of the [West Side Stadium](#), during the [New York City bid for the 2012 Summer Olympics](#). Public officials and private investors began developing the new Hudson Yards plan after the failure of the West Side Stadium. Construction began in 2012 with the groundbreaking for 10 Hudson Yards, and the first phase opened on March 15, 2019.

Upon completion, 13 of the 16 planned structures on the [West Side of Midtown South](#) would sit on a platform built over the [West Side Yard](#), a storage yard for [Long Island Rail Road](#) trains.

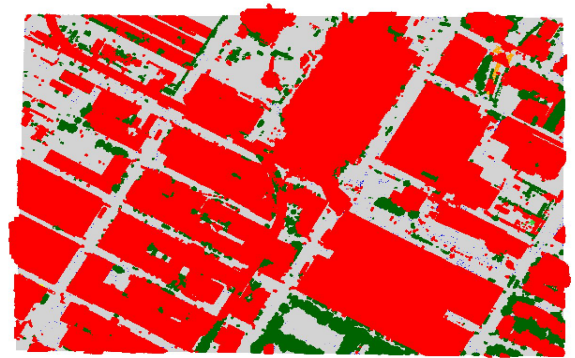
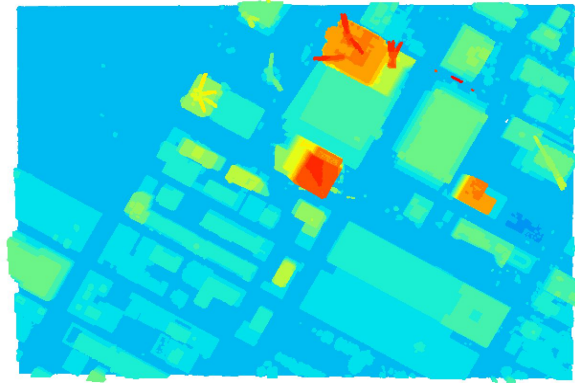
The first of its two phases, opened in 2019, comprises eight structures that contain residences, a hotel, office buildings, a mall, and a cultural facility. The second phase, on which construction had not started as of 2021, will include residential space, an office building, and a school.



LiDAR Point Classification

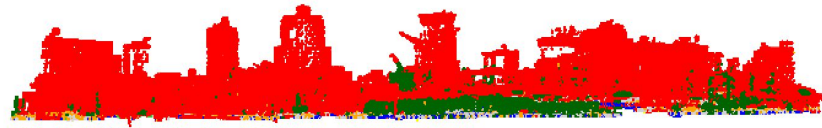
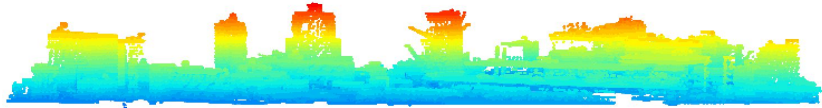


2014

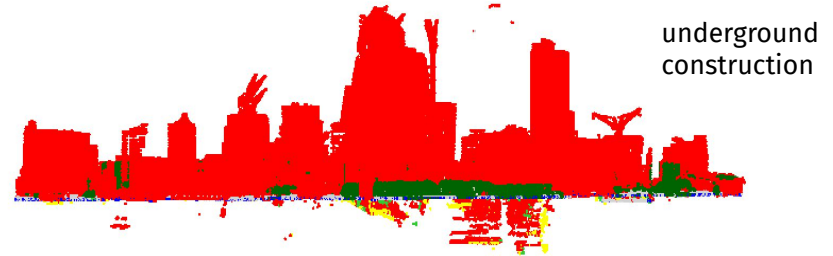
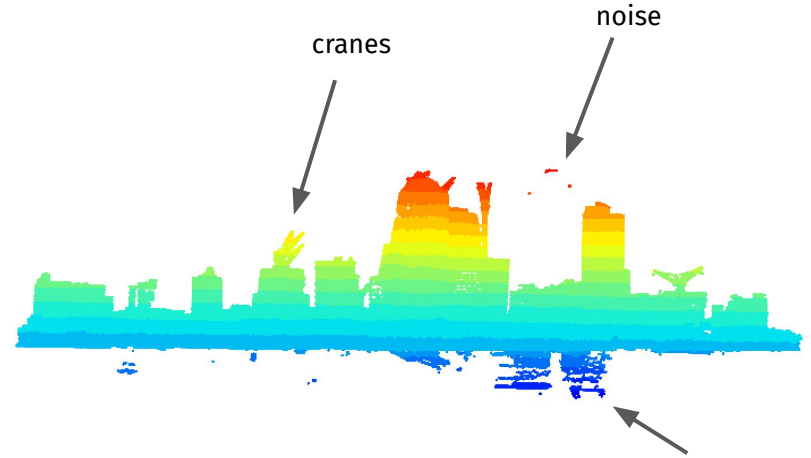


2017

LiDAR Point Classification



2014



2017

LiDAR Point Classification

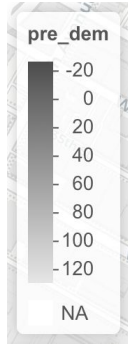


2014

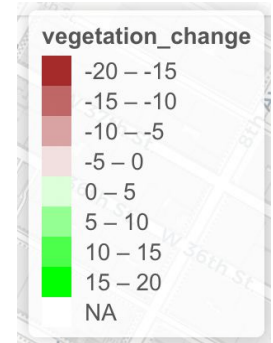
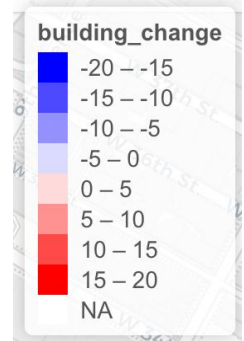
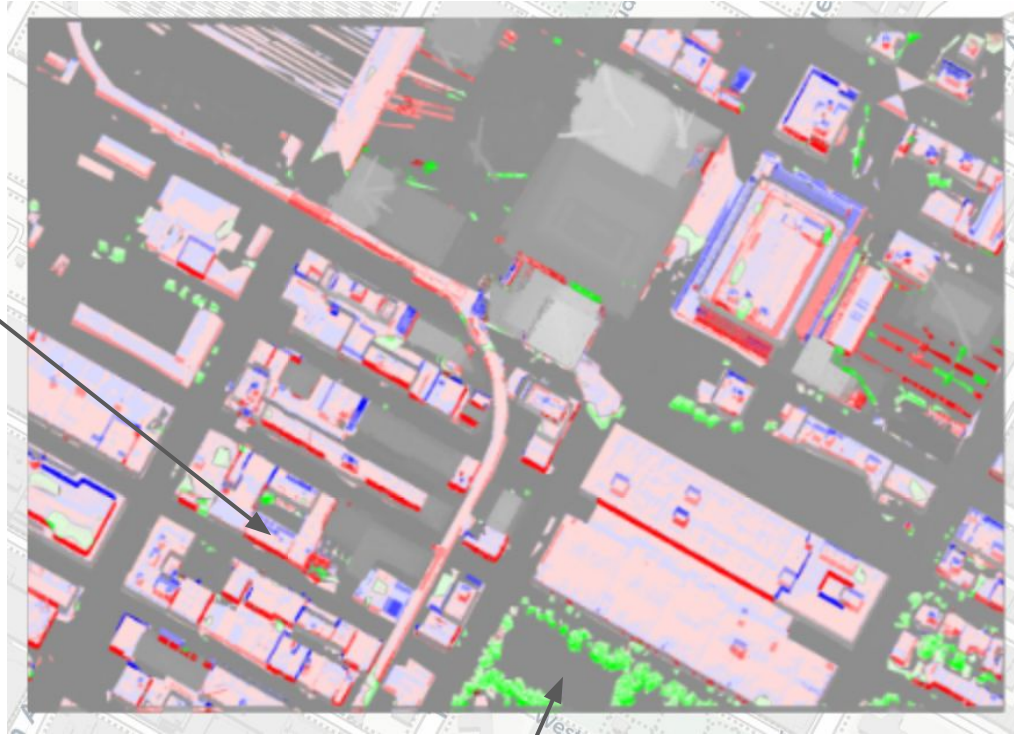
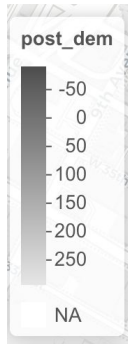


2017

Building and Vegetation Difference



Different
Rates of
Construction
Progress



Green Space