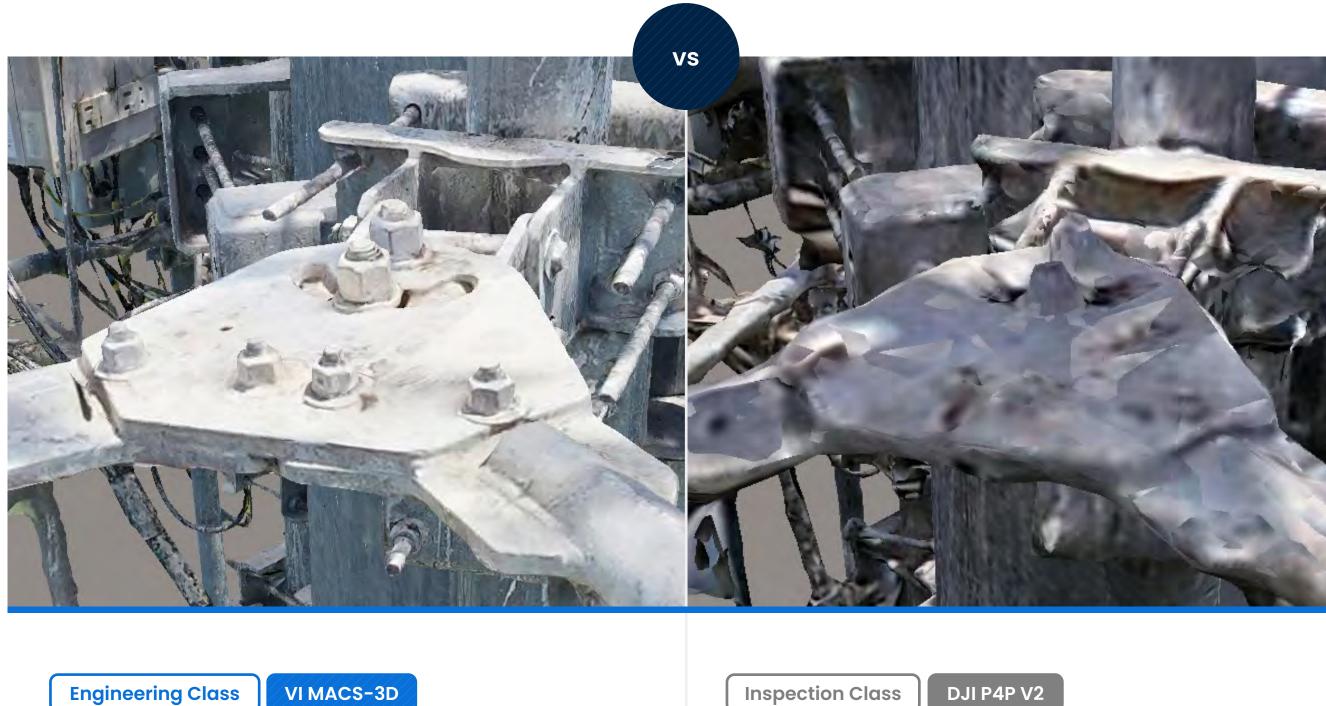
visual intelligence TELECOM INFOGRAPHIC

Understanding Drone Data Classes

A Complete Guide to Comparing 3D Tower Data

Engineering-Grade VISUAL INTELLIGENCE MACS-3D SENSOR

Inspection-Grade
DJI PHANTOM 4 PRO V2 SENSOR



needed for applications that require millimeter class measurements, such as engineering analysis and structural design. Engineering class digital models have accuracy that provides 1/16th inch (or 1.6 mm) RMS error or

Comparisons

Visual Intelligence offers the world's

technology capable of collecting 3D, engineering class tower data. Our patented technology is custom designed to consistently capture

first and only dual-sensor drone

better across 99% of a tower structure.

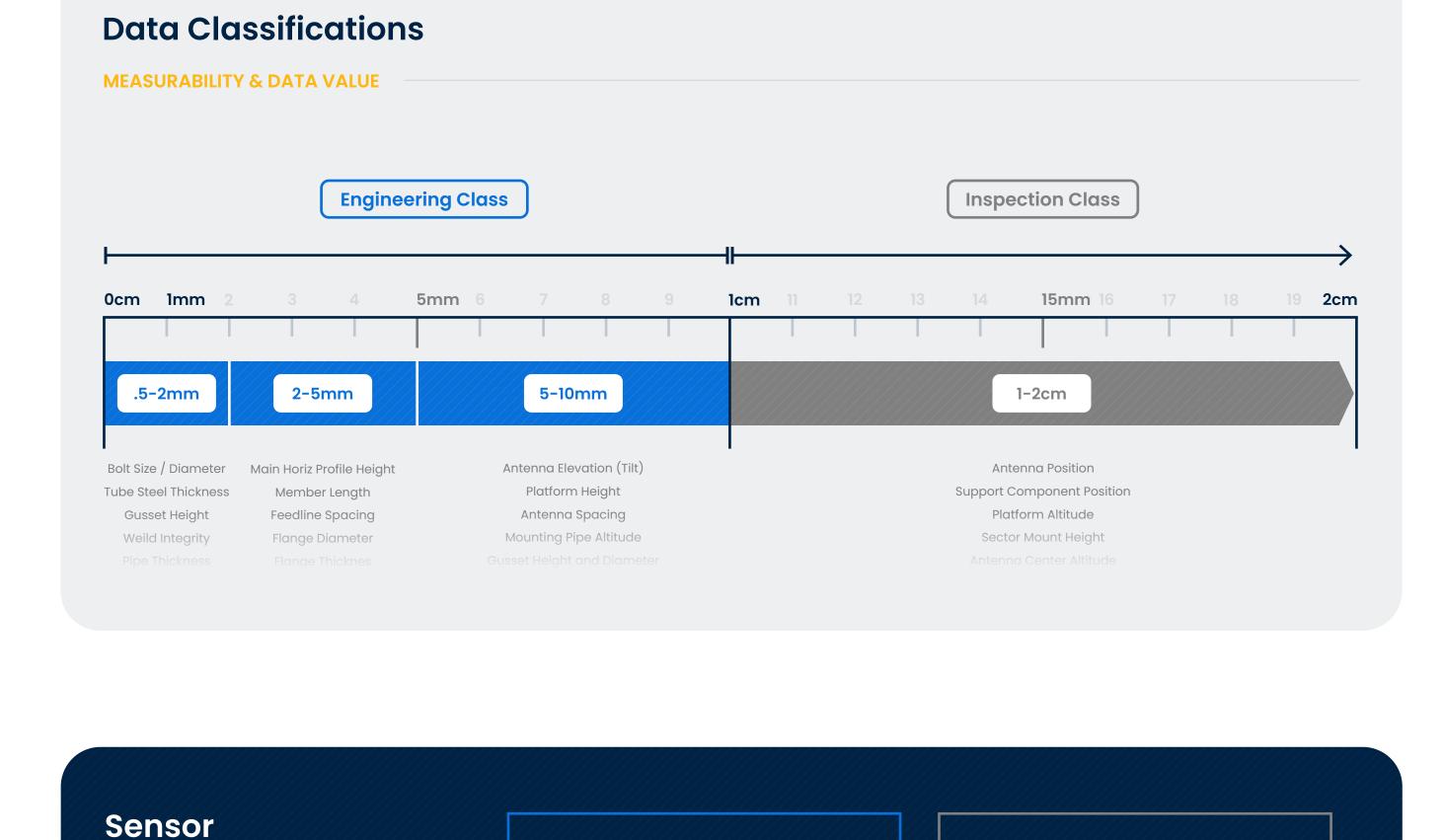
Engineering-grade accuracy is the data fidelity and structural coverage

needed for applications that require centimeter class measurements, such as major appurtenance types or mount heights. Inspection class digital models have accuracy that provides 1 cm RMS across 80% of a tower structure.

Inspection Class

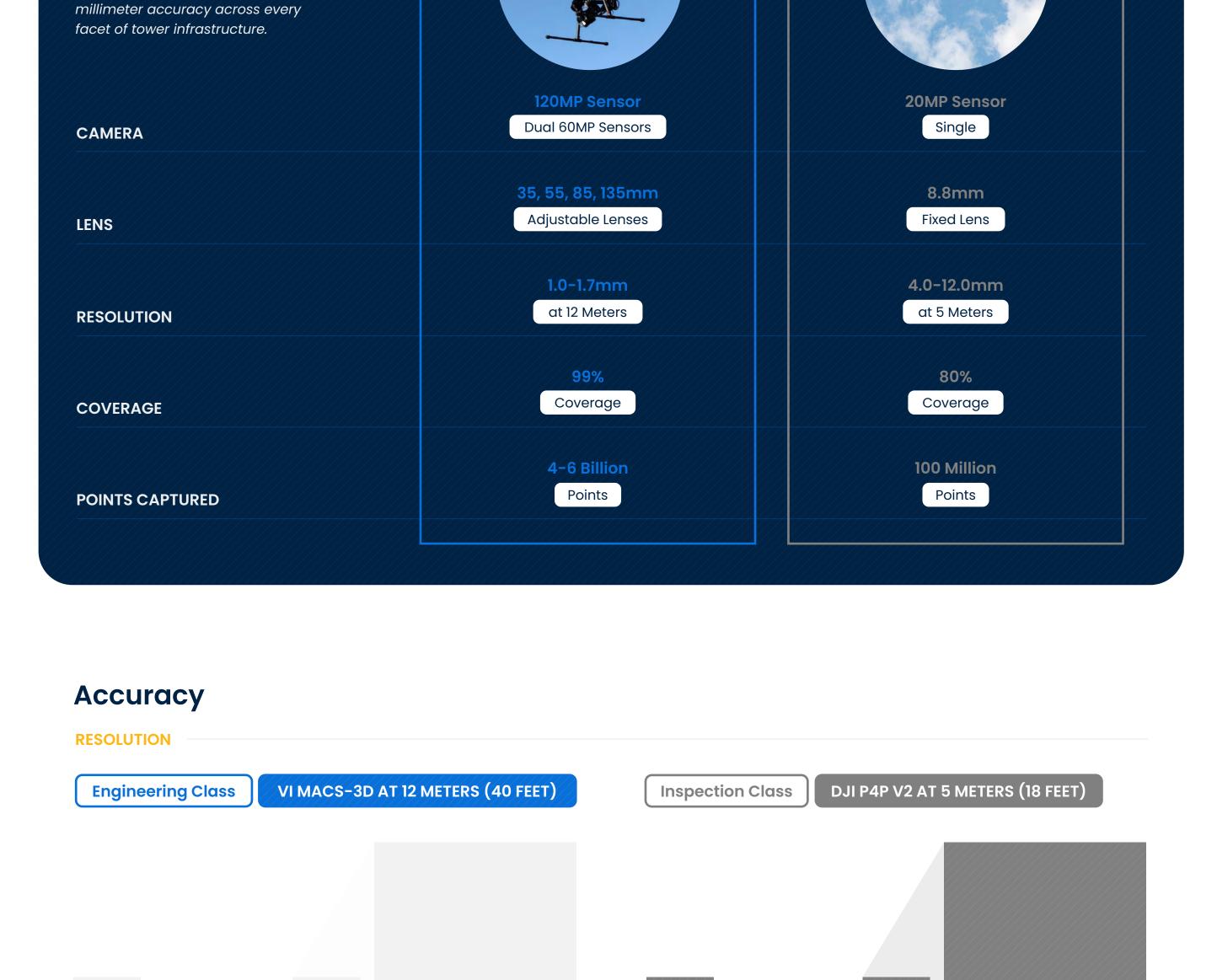
DJI P4P V2

Inspection-grade accuracy is the data fidelity and structural coverage

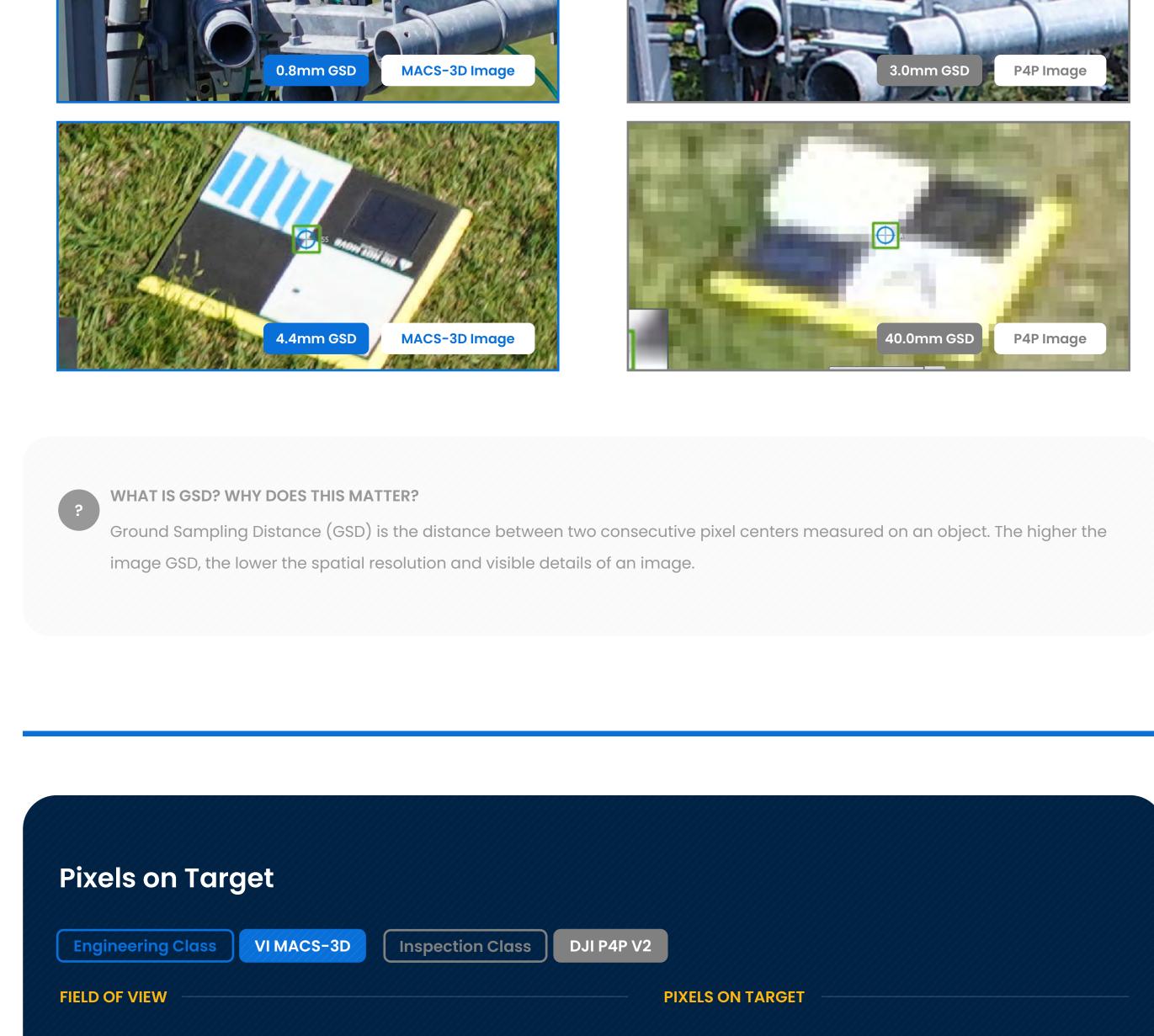


Engineering Class

VI MACS-3D







5,200px

: 0m

5m

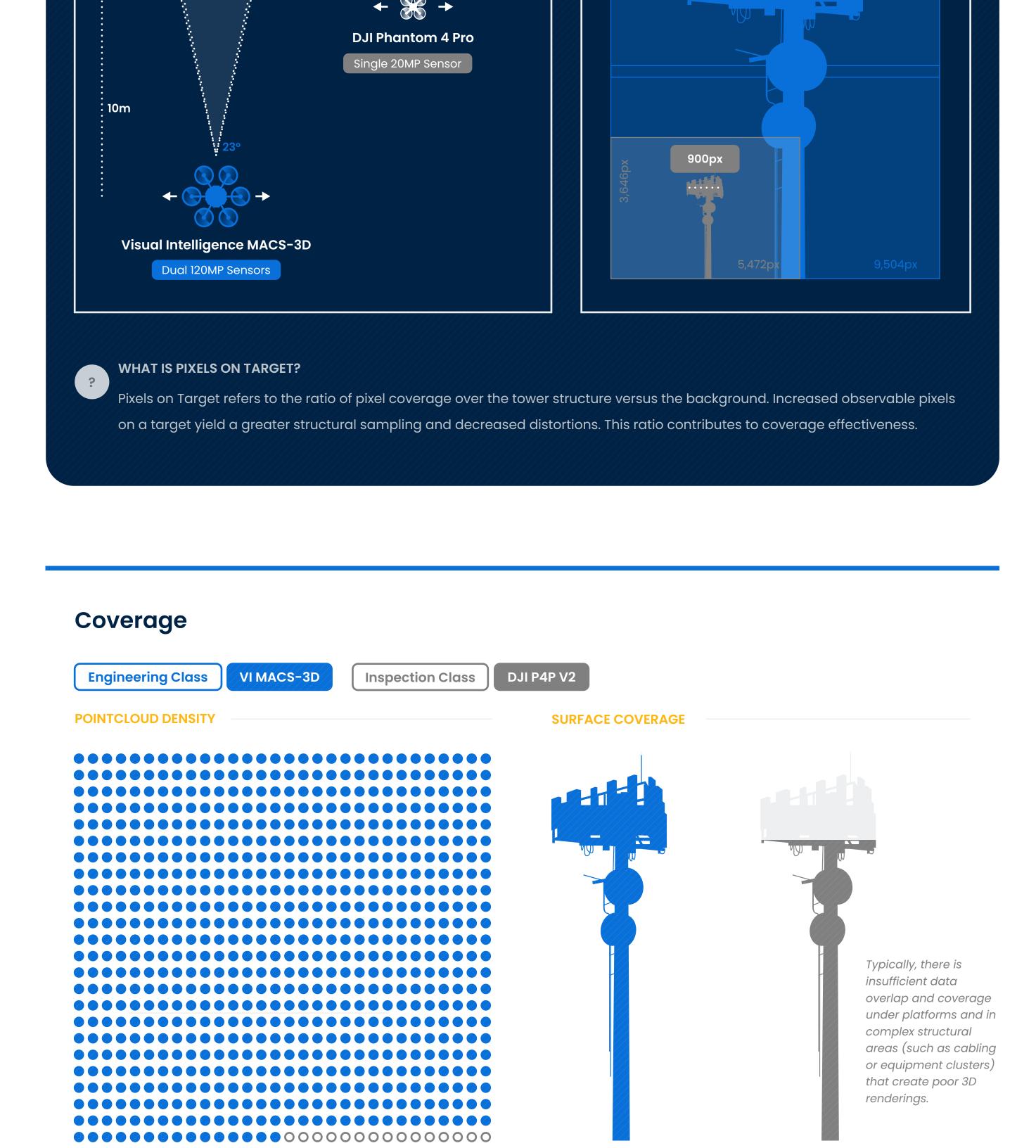
4-6 BILLION POINTS

100 POINTS / CM²

MEASURABILITY

100 MILLION POINTS

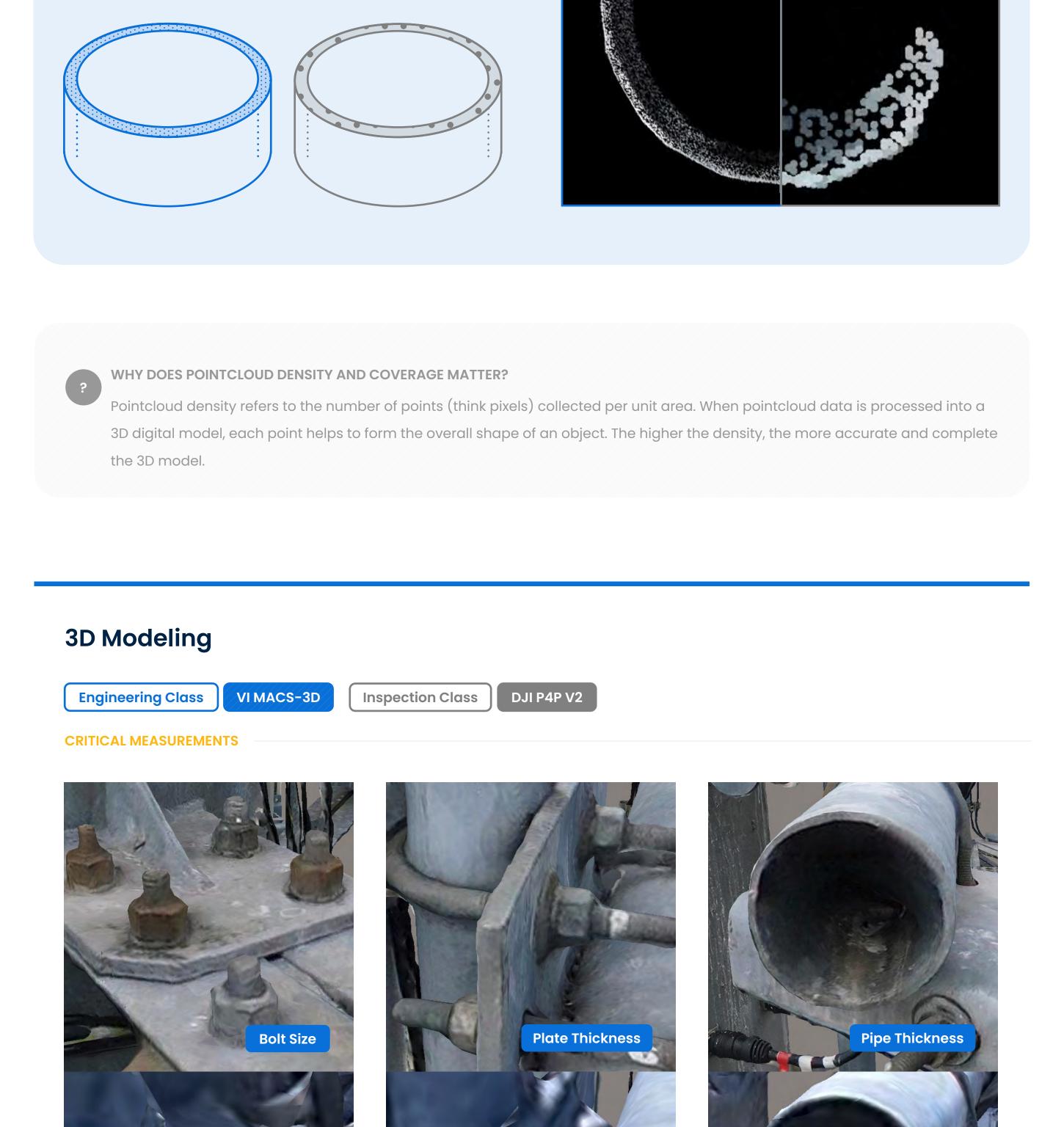
4 POINTS / CM²

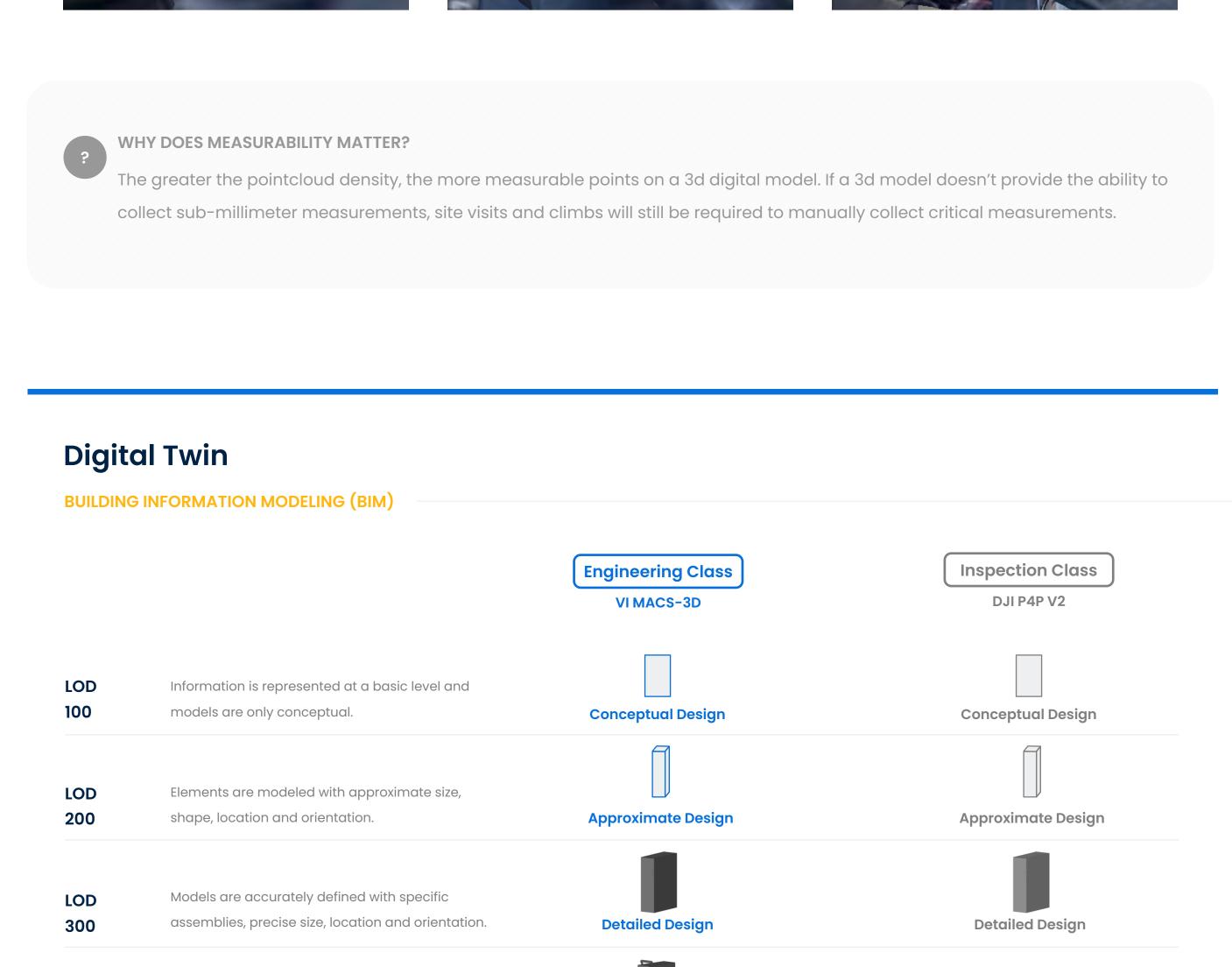


99% TOWER COVERAGE

EXAMPLE POINTCLOUD

80% TOWER COVERAGE





Fabrication & Assembly

As-Built

Because legacy tower data is typically poor, BIM requires an accurate and up-to-date digital footprint of the site. 3D models serve

as a foundation for BIM, however BIM is constrained by its input. Where accuracy and coverage is poor, level of detail is low.

Engineering Class

VI MACS-3D

Plate Thickness

Bolt Size

LOD

400

LOD

500

EXAMPLE CAPABILITIES

AI / ML MAJOR FEATURE IDENTIFICATION

HOW DOES ACCURACY AND COVERAGE ENABLE MORE CAPABILITIES?

Models provide engineering precision with

are field-verified and updated as built.

HOW DOES A 3D MODEL FIDELITY RELATE TO BIM?

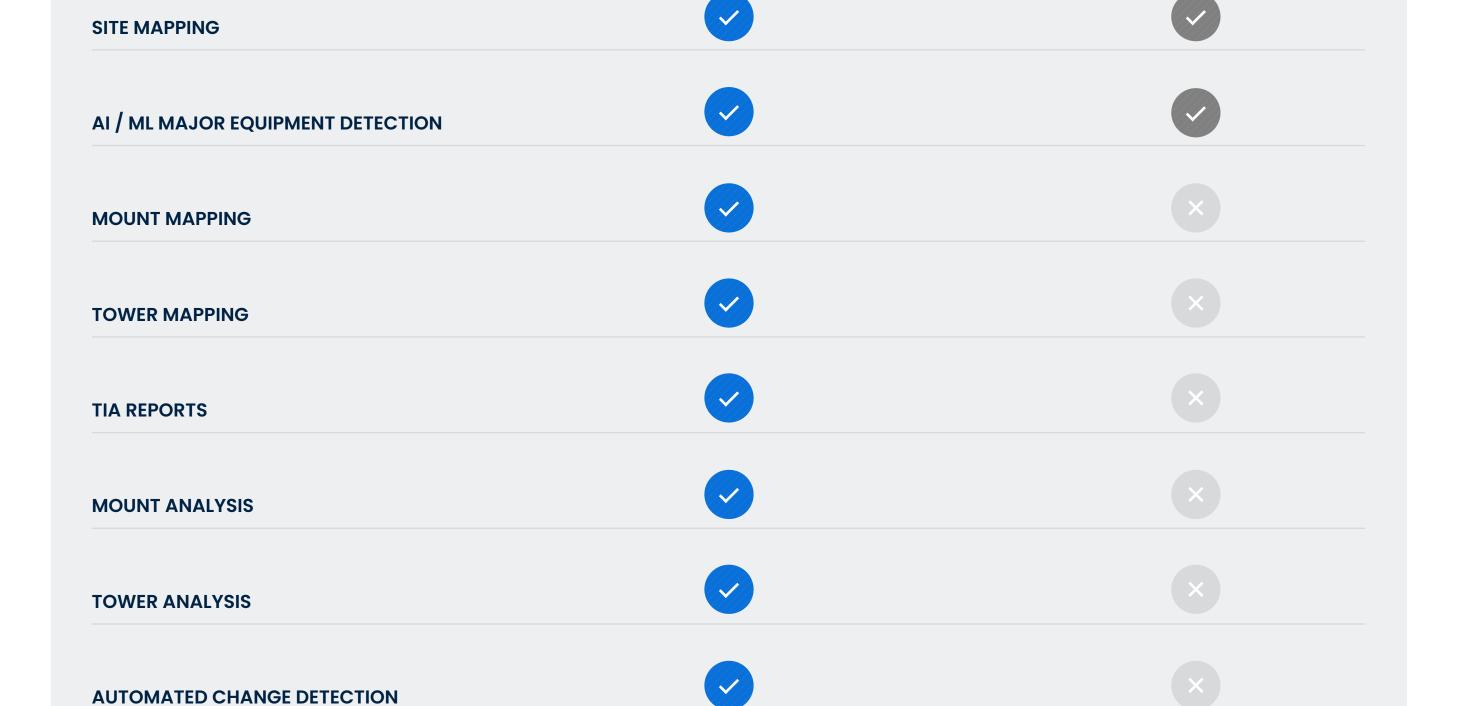
specific size, shape, location and orientation.

Model elements meet LOD 400 specifications and

Pipe Thickness

Inspection Class

DJI P4P V2



Millimeter accuracy is changing how tower companies operate.

VISIT VITOWERS.COM/TELECOM

Visual Intelligence is the first and only drone sensor and software automation platform that digitizes tower infrastructure

with millimeter accuracy to reliably deliver 3D, engineering-grade asset intelligence.

visual intelligence

As data quality increases, so too does its applications. Higher fidelity and increased coverage provide a better representation of a