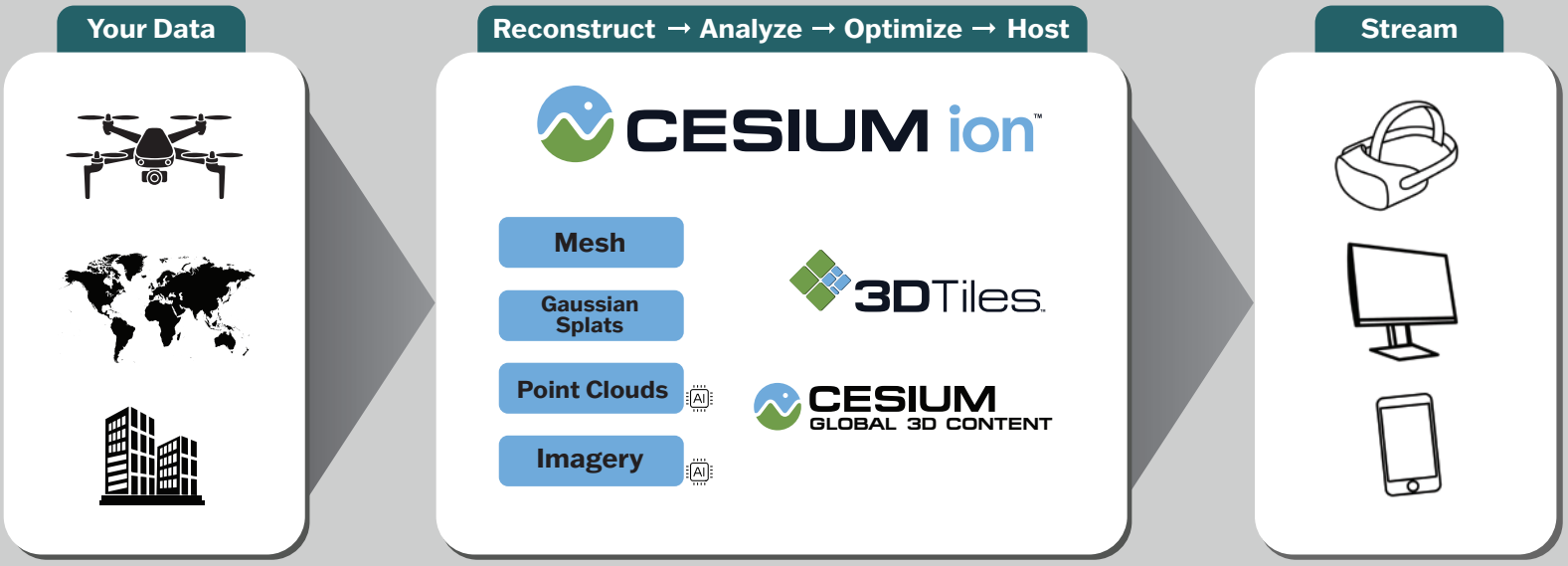
CESIUM® The Platform for 3D Geospatial

Executive Summary

- Cesium started in 2011 and joined Bentley Systems in 2024.
- With 12 million downloads, Cesium software is proven in use from aerospace to the built and natural environment, including subsea and subsurface.
- The Cesium team created 3D Tiles, the Open Geospatial Consortium community standard for streaming massive, heterogeneous 3D datasets.
- Cesium's core tenets of **openness** and **interoperability** support configurability and speed to value without vendor lock-in.
- Bentley Systems iTwin integration accelerates high-fidelity geospatial context at scale for as-designed and as-built digital twins.

Cesium provides a configurable platform



Cesium is used widely across industry and government, including Aerometrex, Ansys, Arup Group, Boeing, EARTHBRAIN/Komatsu, French Air Force, GHD, HNTB, Jacobs, NASA, Parsons, Pennoni, Royal Air Force, US DOD, US DOE, Vantor, and WSP.

cesium.com

CESIUM

The Platform for 3D Geospatial

Cost savings

HNTB

HNTB reduced design hours by 80%.

Scalability

DroneDeploy

DroneDeploy software is used for more than 1.7 million sites across 180 countries.

Public outreach

Swisstopo serves 50,000 users daily with design, building, terrain, and underground data.

User Stories

Read these stories and more

4D analysis

KOMATSU EARTHBRAIN

EARTHBRAIN's real-time and historical analysis of earthworks enables safer, more efficient construction projects.

Speed

ARMÉE DE L'AIR

The French Air Force took its helicopter VR training from idea to operations in less than 12 months.

Massive datasets

DB InfraGO

Deutsche Bahn's point clouds of rails were terabytes of data, optimized as 3D Tiles.

Cesium ion performance

Data compression of
60% to 98%
versus original data size

Tiled data streams
90% faster
versus non-3D tiled data

Maintains data resolution and quality
from raw data to visualization

Connect to learn more: sales@cesium.com