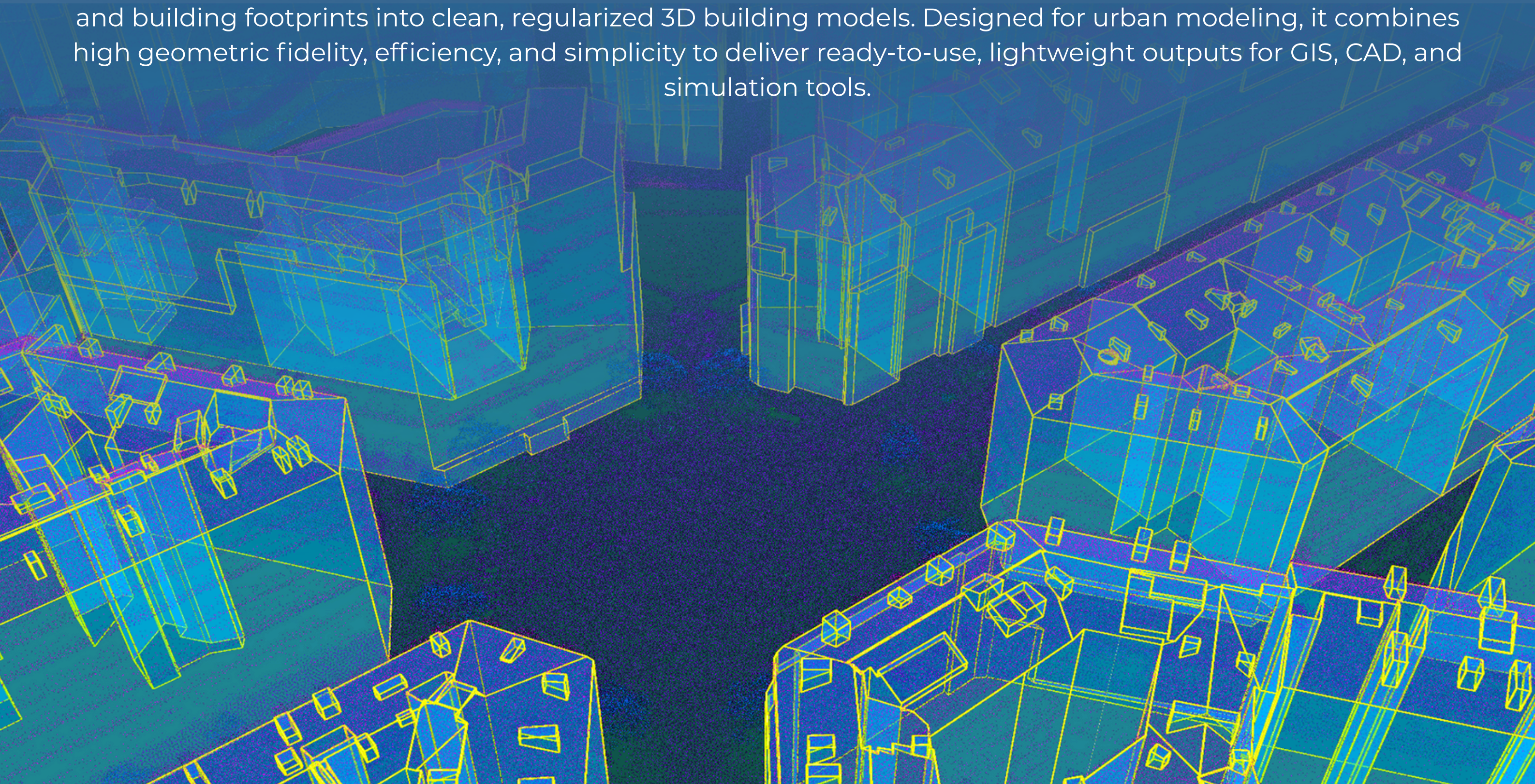# LuxCarta

SimpliCity

SimpliCity is an advanced, fully automated software solution that transforms massive classified LiDAR datasets and building footprints into clean, regularized 3D building models. Designed for urban modeling, it combines high geometric fidelity, efficiency, and simplicity to deliver ready-to-use, lightweight outputs for GIS, CAD, and simulation tools.

Key Benefits

Fully Automated & Scalable

Automatically process thousands of buildings per day without manual intervention, delivering unmatched efficiency for large-scale urban modeling projects.

Clean & Regularized Models

Produce watertight, lightweight vector outputs with correct topology and semantic labels (Roof, Wall, Ground) ready for GIS, CAD, and simulation tools.
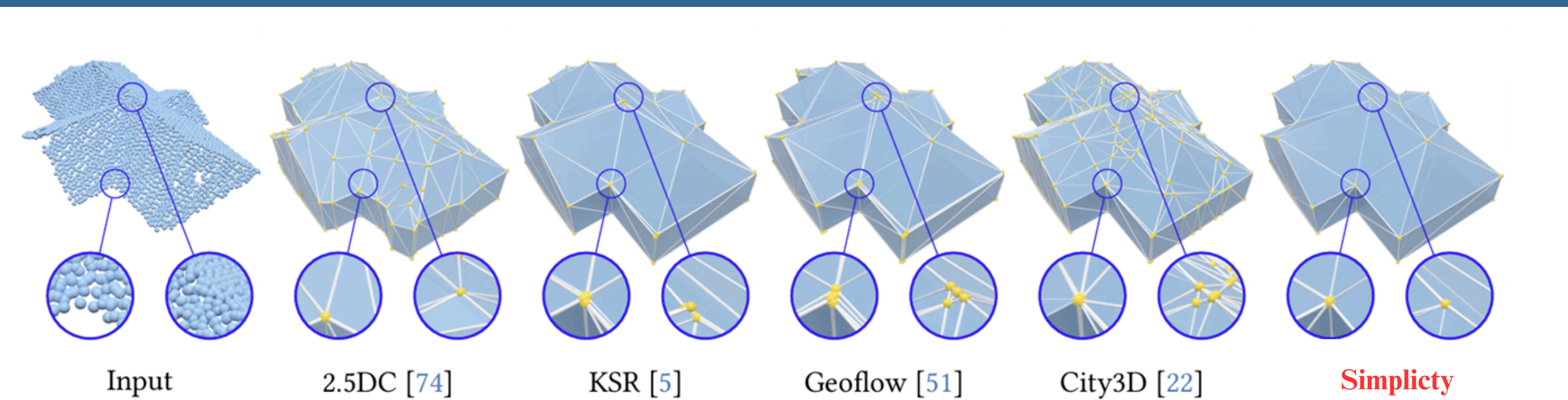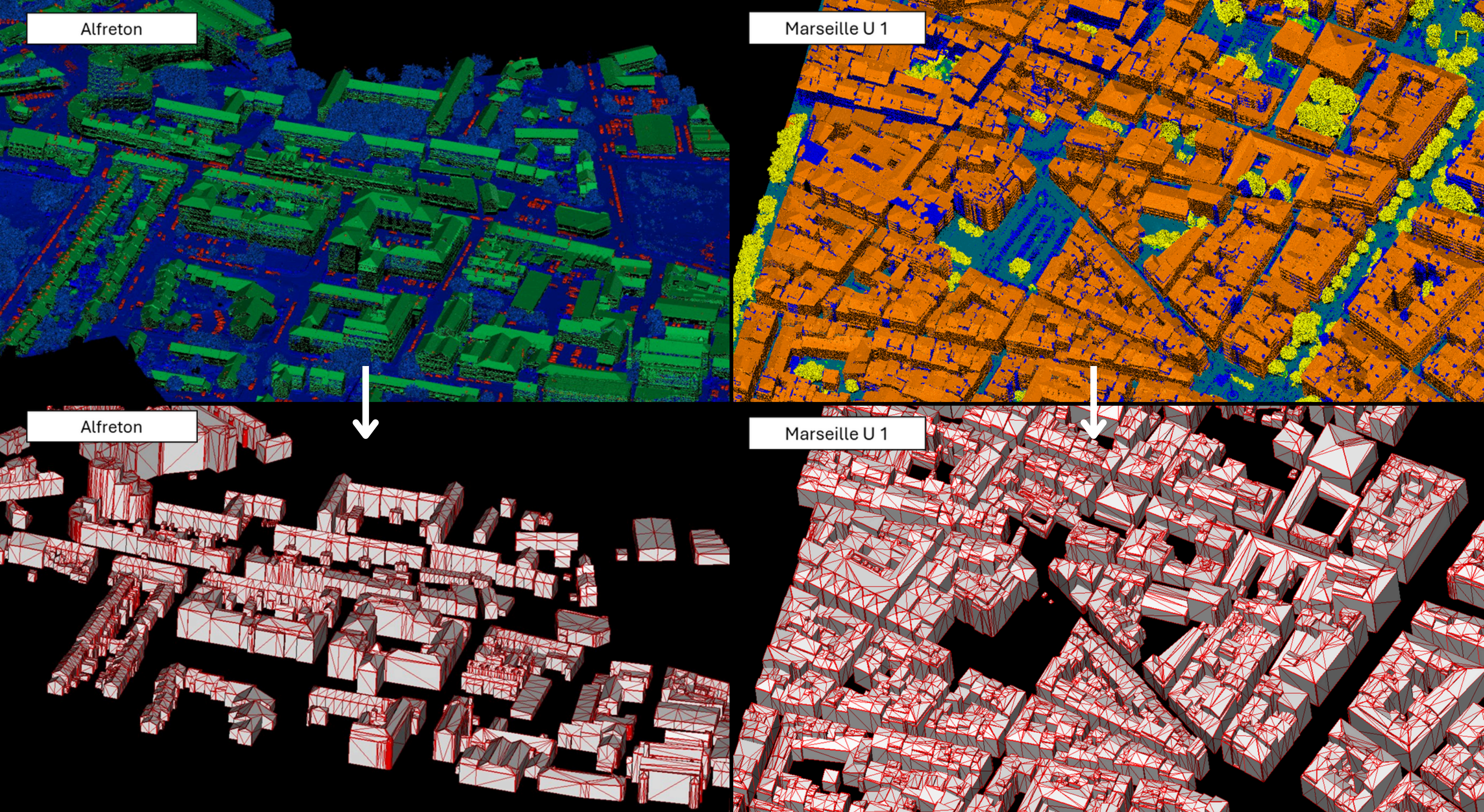
Lightweight & Efficient

Generate optimized 3D models that are easy to handle, store, and visualize, reducing processing time and simplifying data management in your workflows.

Easy Integration & Control

Deploy seamlessly as Docker or SaaS, ensuring full control over data sovereignty, predictable processing costs, and compliance with internal requirements.

Deliver ready-to-use 3D building models in standard formats, ensuring seamless integration with your existing tools and workflows.

Alfreton

Marseille U 1

Alfreton

Marseille U 1

Input   2.5DC [74]   KSR [5]   Geoflow [51]   City3D [22]   **Simplicty**

Performance & Formats

Throughput: up to 17,300 buildings/day

Inputs: Classified LiDAR (PLY, LAS) + building footprints
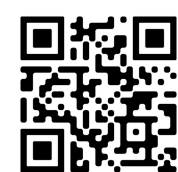
Outputs: CityJSON, STL, PLY, SHP

Ready for GIS, CAD, and 3D visualization tools

Why SimpliCity?

SimpliCity solves the challenges of urban 3D reconstruction by delivering clean, regularized building models from massive LiDAR datasets. Fully automated, scalable, and easy to deploy, it streamlines workflows, reduces costs, and ensures high-quality outputs ready for GIS, CAD, and simulation.

Looking to improve the speed and accuracy of your derived geospatial data?

Contact us today for a personalized demo: sales@luxcarta.com | www.luxcarta.com

LuxCarta

Simplicity is powered by LuxCarta, one of the world's leading map data companies.

SimpliCity is LuxCarta's automated platform for producing clean, regularized 3D building models from classified LiDAR and building footprints. Designed for urban reconstruction at scale, SimpliCity delivers high-quality, lightweight, and semantically enriched outputs ready for GIS, CAD, and 3D visualization tools. Available as a cloud-based solution (On Demand), a private network deployment (On Premises), or directly from LuxCarta's Production Services, SimpliCity builds on over 30 years of expertise in geospatial data and 3D modeling — providing instant access to standardized, interoperable outputs for your workflows.