

# ParaMatters Delivers the Most Powerful Generative Design and Lightweighting Software that Works Autonomously

Releases CogniCAD 2.0 topology optimizer for lightweighting at Formnext 2018

- Integrates proprietary topology optimization, computational geometry and AI
- Offers intuitive, simple user interface that works autonomously and instantly
- Delivers ready-to-manufacture STL & STEP format designs in minutes
- Provides a holistic and agnostic generative design solution from CAD-to-CAD

**Frankfurt, Germany, November 12, 2018**-- ParaMatters, a leading generative design provider of autonomous topology optimization, parts consolidation and lightweighting software solutions, today announced the immediate availability of its second generation CogniCAD 2.0 platform both as a cloud-based service and enterprise solution.

Interested customers and strategic partners are invited to experience how CogniCAD 2.0 is making additive manufacturing the lightweighting engine of choice for automotive, aerospace, medical and industrial companies at the [XponentialWorks](#) booth, B01 - Hall 3 in the Frankfurt Messe. [Media kit available here](#). See CogniCad 2.0 in action [here](#).

"After a full year of working with leading industry power-users in automotive, aerospace and additive manufacturing, we are thrilled to launch CogniCAD 2.0, the most powerful agnostic CAD-to-CAD generative design and lightweighting tool available on the market today," said ParaMatters Co-founder and Chief Technology Officer Dr. Michael Bogomolny.

CogniCAD 2.0 is ParaMatters' second generation holistic and agnostic generative design solution, building on its successful cloud-based, cognitive design and high-performance computational platform. CogniCAD 2.0 is capable of automatically generating ready-to-3D print, high-performance, lightweighted structures for aerospace, automotive and other mission critical applications.

"We are taking full advantage of the convergence of advanced topology optimization techniques, computational geometry, infinite computing power in the cloud, and artificial intelligence to deliver the most powerful, affordable and impactful tool that unleashes the full potential of design for additive manufacturing," added Avi Reichental, ParaMatters Co-founder and board member.

CogniCAD 2.0 is immediately available for use and can be easily accessed via [www.paramatters.com](http://www.paramatters.com) as a pay-per-design, cloud-based service. The company is offering several subscription and enterprise-based models, and actively engages in several complimentary strategic partnerships.

In addition to speeding up the entire innovation cycle, ParaMatters is developing advanced algorithms that are designed to enhance the overall digital thread and additive manufacturing capabilities. This includes a new cloud-based, generative design platform that automatically compiles lightweight and metamaterial lattice structures on-demand, based on size, weight, strength, style, materials and cost as specified by designers or engineers.

Unique mesostructural capabilities, which are offered as a design service, deliver biomimicry design for optimal structural infills that are mission-critical for certain additive manufacturing processes.

"We are transforming the entire design-to-manufacturing process by making it possible for our cloud service to autonomously generate high-quality, CAD-agnostic and ready-to-manufacture, optimized lightweighted designs in minutes to a few hours," said Dr. Bogomolny. "Our proprietary generative engine automatically delivers high performance and quality designs with minimal user input. As a result, the entire design cycle is compressed from days to hours, and raises the quality of generative designs compared to what can be achieved manually."

CogniCAD 2.0 works by first importing CAD files into the platform, and then defining loading and design criteria. Within minutes, users can obtain generative designs verified by built-in Finite-Element Analysis, ready for 3D printing in both STL and STEP formats. All ParaMatters-generated designs can be directly produced using additive manufacturing.

### **About ParaMatters**

ParaMatters is the leader in autonomous topology optimization and generative lightweighting design. The company's cloud-based cognitive design platform is capable of automatically generating additive manufacturing ready, high-performance, lightweighted structures for aerospace, automotive and other mission critical applications. ParaMatters is committed to transforming the entire design-to-manufacturing process by making it autonomous and automated to generate high quality, optimized lightweighted designs and additive manufactured structures. For more information, visit [www.paramatters.com](http://www.paramatters.com).

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