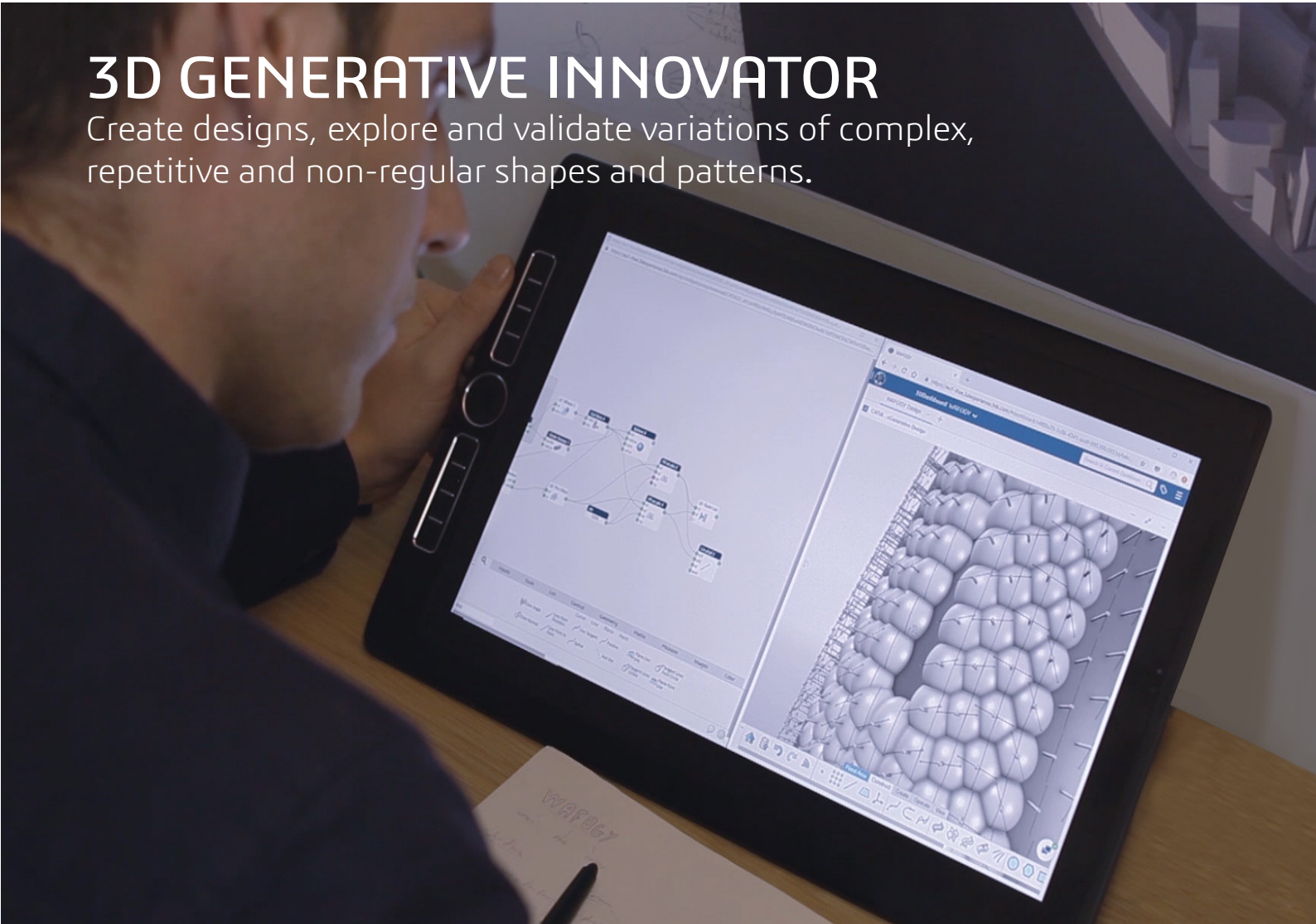# 3D GENERATIVE INNOVATOR

Create designs, explore and validate variations of complex, repetitive and non-regular shapes and patterns.
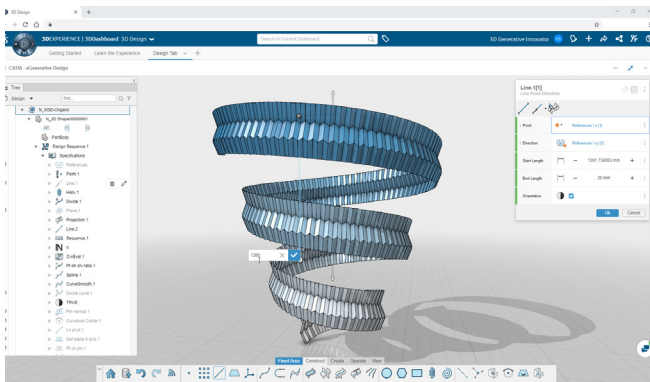
3D Generative Innovator

The 3D Generative Innovator role delivers a browser-based on-the-cloud generative modeling environment that uniquely combines graphical visual scripting and interactive 3D-modeling, with the ability to use one or the other interchangeably at any time. This role extension allows you to design any shapes and patterns using CATIA parametric modeling technology with high automation.

3D GENERATIVE INNOVATOR

This new, intuitive and smart approach allows creative people in Architecture, Design/Styling and Engineering to quickly design, explore and validate variations of complex, repetitive and non-regular shapes and patterns. All created geometry is available to be used in the world of detailed design and manufacture through the rich portfolio of roles on the 3DEXPERIENCE Platform.

Uniquely, at any stage of the design, the user can swap freely between the graph and the interactive 3D, as these are bi-directionally dynamically sync'ed. For instance, the user can start a command in the interactive 3D environment and finish it in the graph or vice-versa. The benefit is even more artistic creativity and productivity, leading to more successful designs.
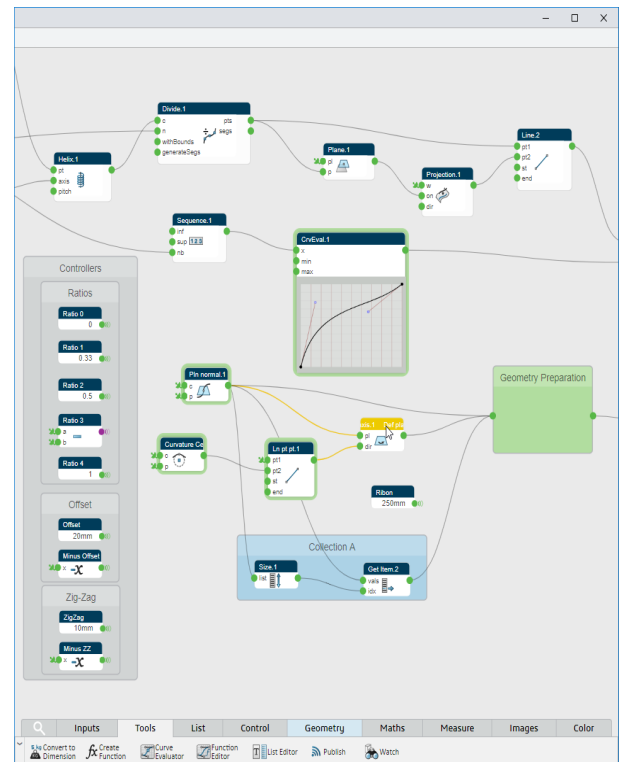

HIGHLIGHTS

- Web application, available inside the 3DEXPERIENCE platform as a widget.

- Design and update all types of wireframes and surfaces through logic operations.

- Generate multiple geometry elements by managing collections of objects.

- A progressive user experience from beginners to experts.

- Unique single environment that interactively combines a generative 3D modeling approach and a graph-based visual scripting interface.

- Organize and structure your graph according to your design process & methodology.

- Embedded templating mechanism to capture and reuse intellectual property.

- Centralized access to main design parameters for design exploration.

BENEFITS

- Quickly generate simple to complex and non-regular shapes and patterns.

- Extend styling capabilities by creating 3D innovative patterns and bio-inspired shapes.

- Increase creative flexibility and explore more alternatives.

- Make more informed design-decisions and shape research.

- Capture and reuse knowledge and design best practices with a template approach.

- Bring automation technology to a wider audience and reduce repetitive activities.

- Guarantee the best geometry quality and accuracy for downstream detailed activities.

- Ensure digital continuity with all project participants thanks to the 3DEXPERIENCE platform.

- Web & cloud technologies: no installation for instant deployment, accessible anytime, anywhere and on any device.

Our **3D**EXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3D**EXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit **www.3ds.com**.

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