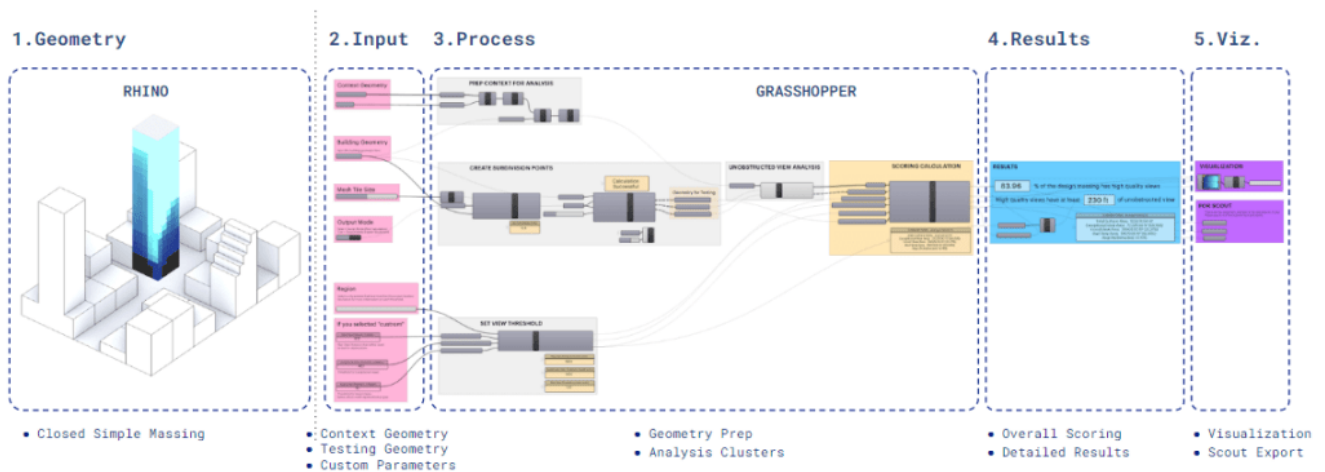
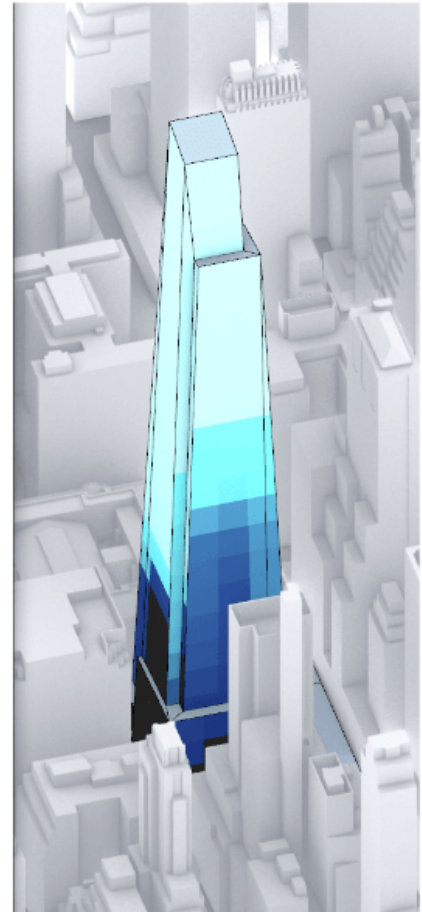
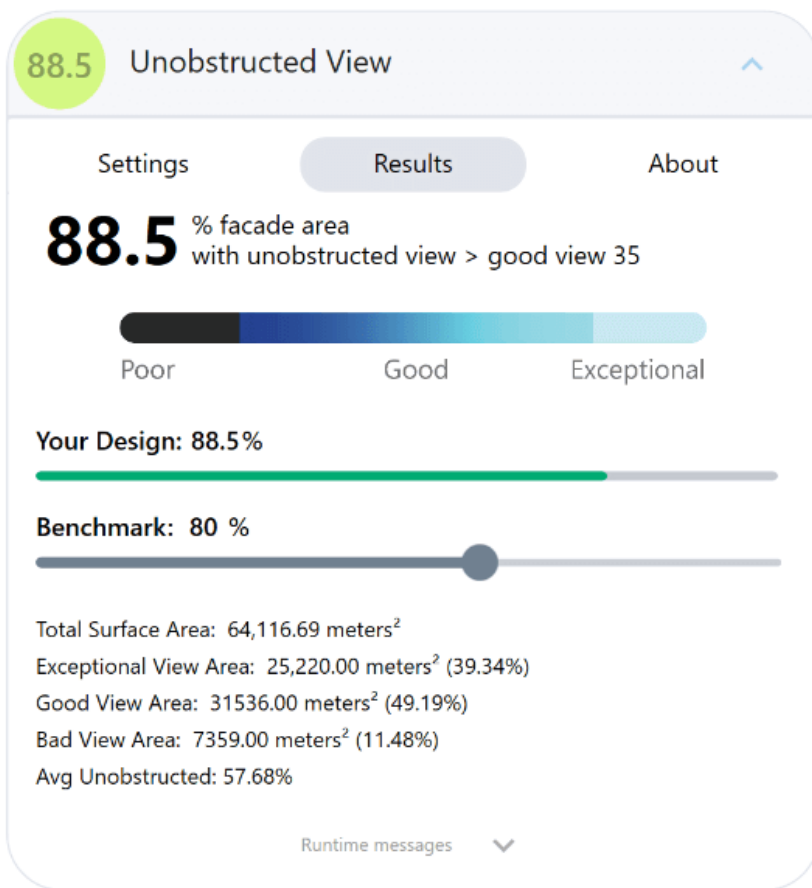


# Innovation Over Time: KPF's Legacy with Rhino.Compute In-House Developed Plugins

In the dynamic world of architectural innovation, few names resonate as profoundly as [Kohn Pedersen Fox \(KPF\)](#). For nearly half a century, this architectural powerhouse has consistently pushed boundaries, redefining skylines and design paradigms across the globe. Yet, what sets KPF apart isn't just its towering achievements; it's the relentless pursuit of innovation ingrained in its DNA.



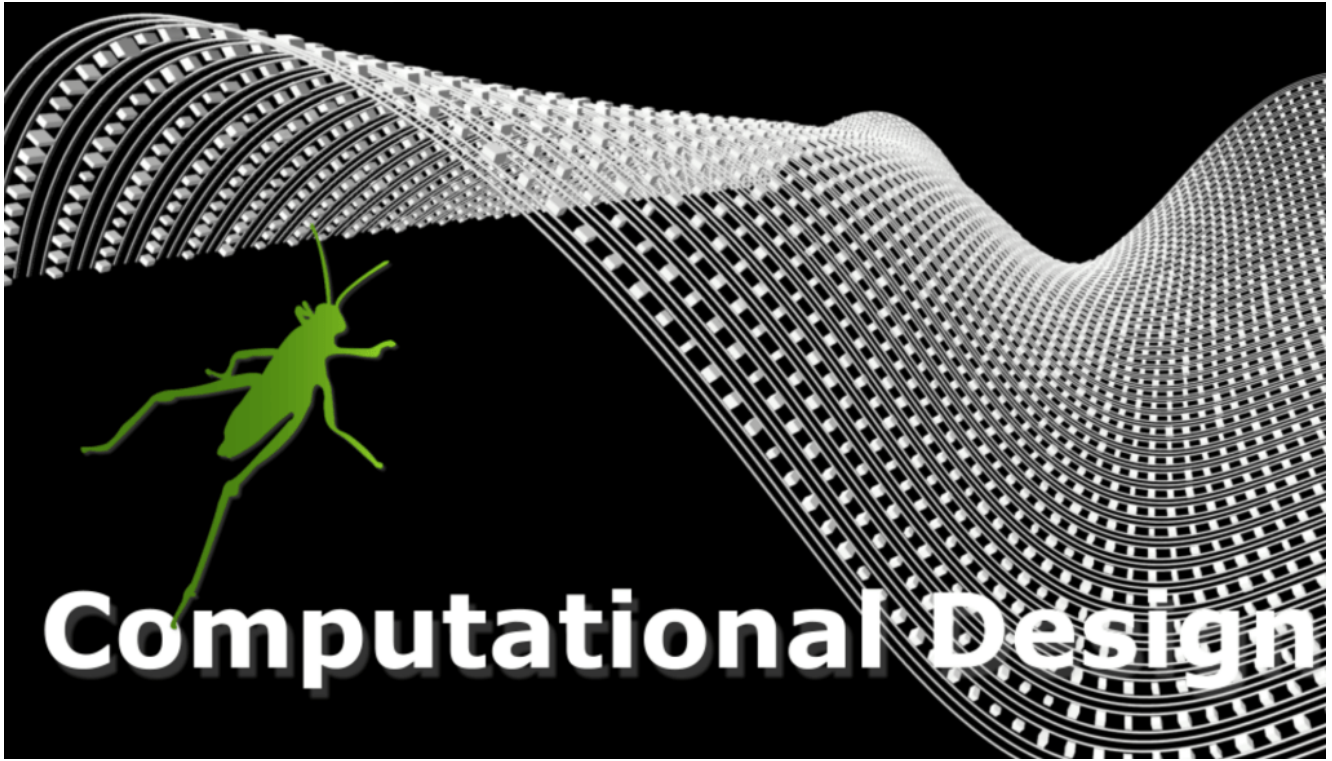
At the heart of KPF's innovative journey lies a commitment to leveraging its rich legacy of knowledge. With 45 years of experience under its belt, the firm recognizes the invaluable wealth of insights garnered over the decades. Rather than resting on past laurels, KPF harnesses this reservoir of expertise to propel itself forward, developing cutting-edge tools like Toucan and Flow Plugin to streamline its in-house design processes.



## What do you do with 12 years' worth of grasshopper definitions that only the experts use?

One of the central challenges faced by KPF was the siloed nature of its design tools. With a treasure trove of [Grasshopper](#) scripts amassed over 12 years, the firm grappled with the dilemma of accessibility. These scripts, while powerful, were confined to the realm of Grasshopper experts, limiting their broader utilization.

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[See Also](#)

[COMPUTATIONAL DESIGN WITH GRASSHOPPER](#)

To bridge this gap, KPF embarked on a transformative journey, culminating in the development of Toucan – a Rhino plugin powered by [Rhino.Compute](#).

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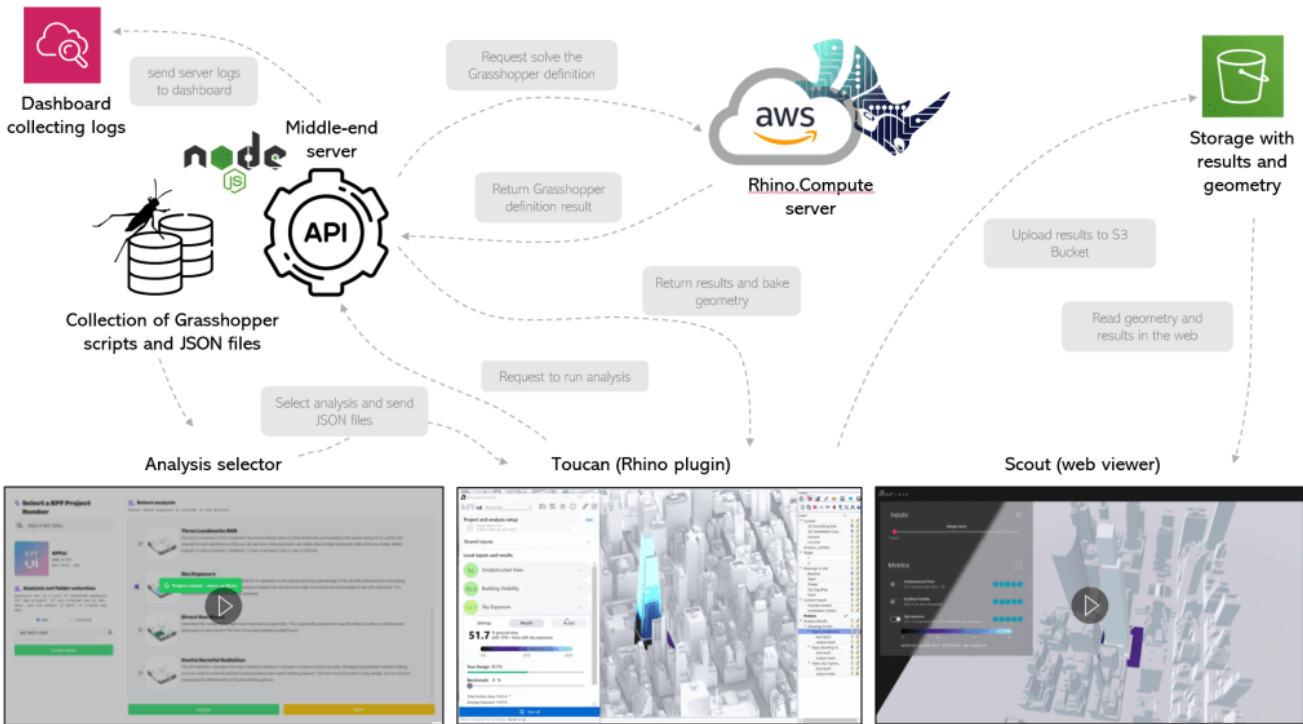
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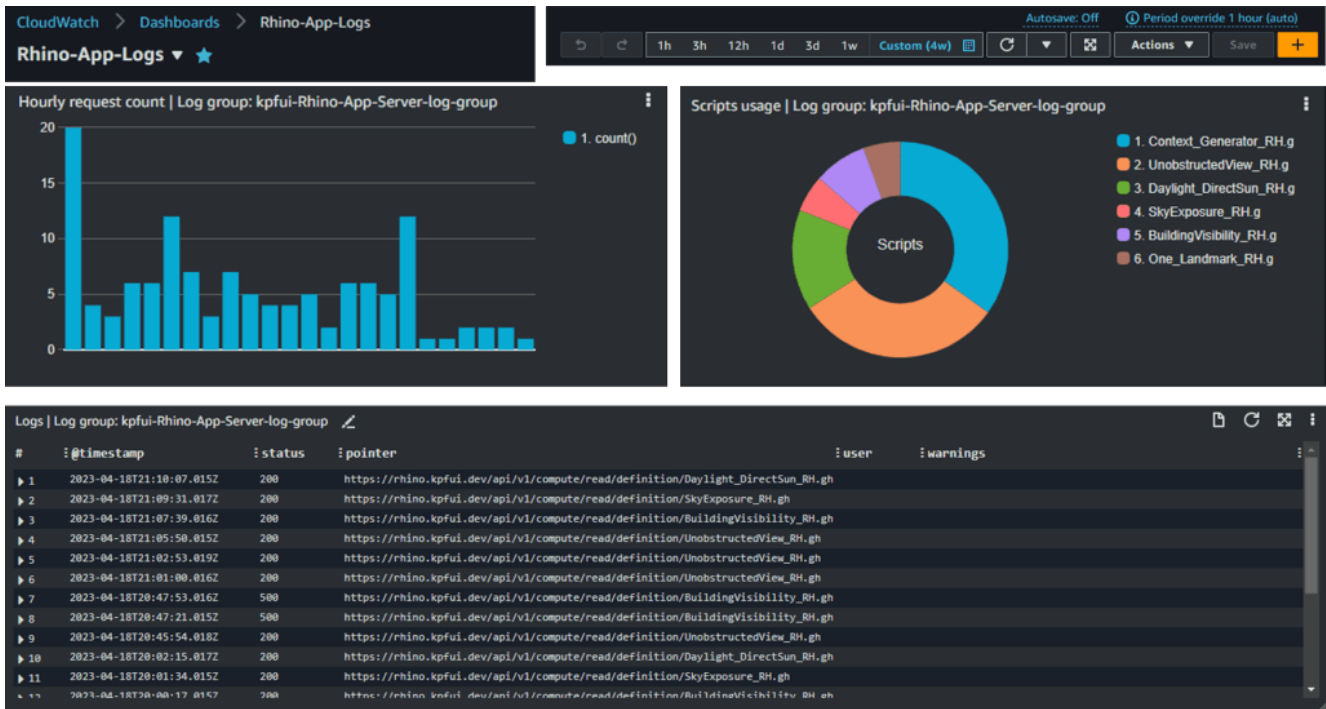
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Central to Toucan's functionality is Rhino.Compute, a game-changer in computational design. By offloading heavy computations to a dedicated server, KPF ensures optimal performance and real-time feedback. This synergy between Toucan and Rhino.Compute epitomizes KPF's ethos of innovation – leveraging cutting-edge technology to augment design capabilities.

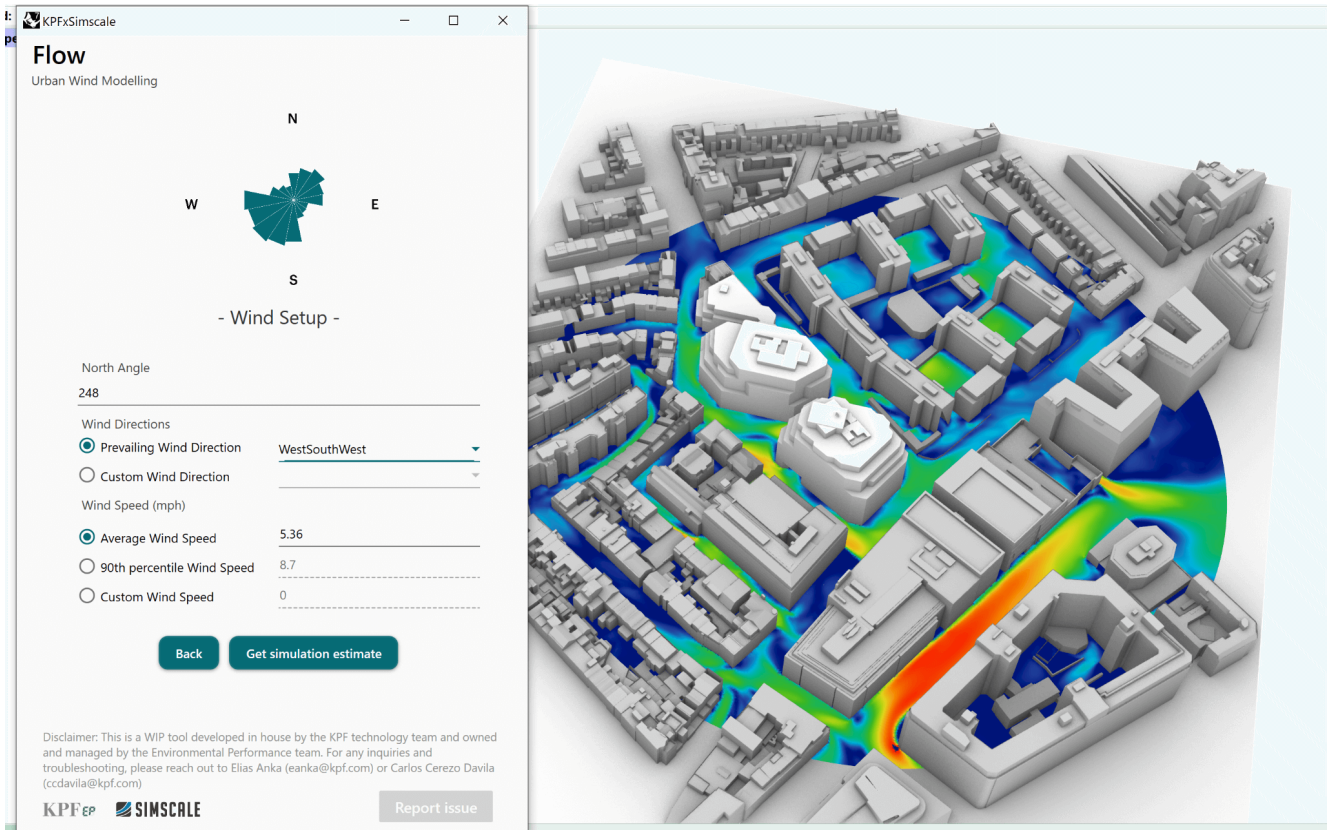


Yet, KPF's commitment to innovation extends beyond streamlining design processes. The firm's foray into core planning and area calculations underscores its holistic approach to design. By leveraging image segmentation and similarity search algorithms, KPF transformed years of expertise into structured data, accessible through an intuitive web interface or Rhino plugin.



Moreover, KPF’s collaboration with SimsScale via the Flow Plugin exemplifies its proactive stance towards innovation. By integrating wind modeling seamlessly into the design workflow, the firm empowers architects to optimize urban environments with unparalleled precision.

However, innovation isn’t without its challenges. KPF acknowledges the need to navigate the evolving landscape of design technology continually. The firm’s proactive approach to addressing user adoption challenges exemplifies its agility and resilience in the face of adversity.



Looking ahead, KPF remains steadfast in its commitment to excellence. As the architectural landscape evolves, the firm's unwavering dedication to innovation serves as a beacon of inspiration. From towering skyscrapers to sustainable urban landscapes, KPF continues to shape the future of architecture, one innovative stride at a time.

In conclusion, KPF's journey epitomizes the transformative power of innovation. By leveraging decades of expertise and embracing cutting-edge technology, the firm transcends boundaries, redefining what's possible in architecture. As the legacy of KPF continues to unfold, one thing remains certain – the future of design is inextricably intertwined with the spirit of innovation.