



Virtofy Business Case: Virtual prototyping and design reviews

Executive Summary

Using Virtofy as an efficient virtual reality (VR) solution enables manufacturers of all types of products to **optimize their design review process** by replacing physical prototypes with virtual 3D models. This shift not only **reduces the costs and resource consumption** associated with traditional prototyping, but also **speeds up the design iteration process** and enables faster identification and correction of design issues.

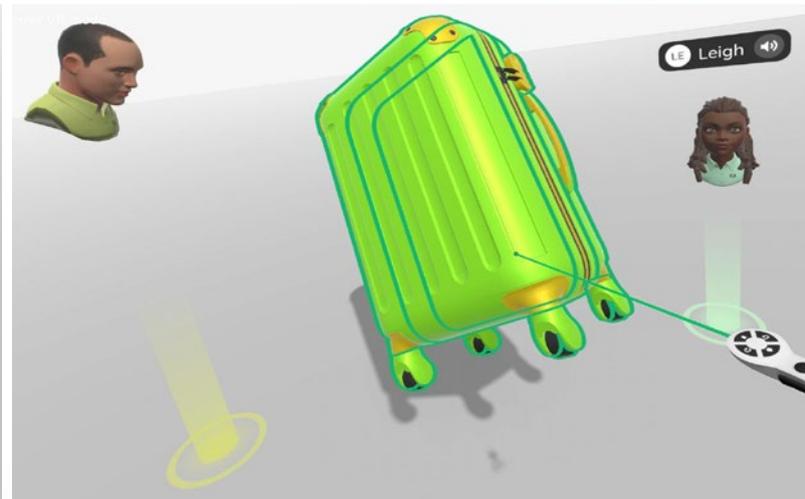
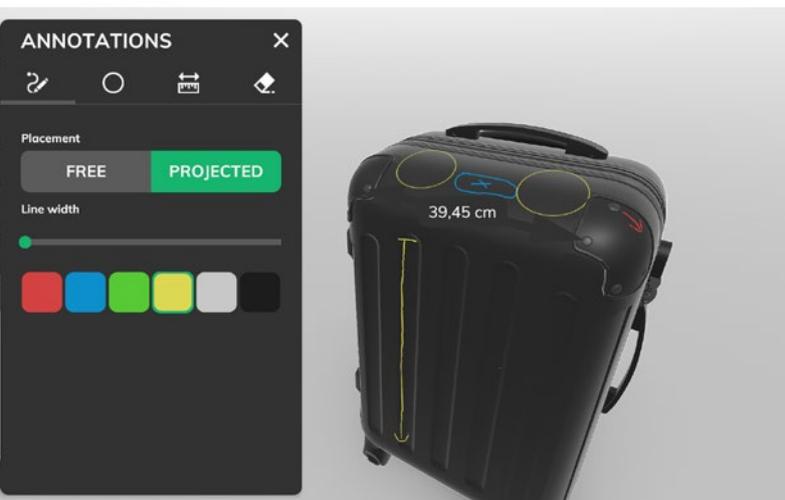
The luggage manufacturer's challenge

A German manufacturer of luggage was faced with significant costs and delays in the design process, requiring the construction of an average of 12 prototypes per model, costing between 2,000 and 6,000 Euro to produce, depending on size

and complexity. The total cost of developing the prototypes was therefore between 24,000 and 72,000 euros per model. Design flaws were often only discovered during the physical inspection of these prototypes, and was always associated with high production and travel costs.

The solution: Virtofy

Thanks to intuitive VR presentations, Virtofy enables the manufacturer to visualize the 3D models of luggage designs in a more understandable way, and to review them more effectively before deciding on physical prototypes. This allows the design team to conduct more thorough reviews in virtual space and make the necessary adjustments, significantly reducing the number of physical prototypes required.



Implementation

A new, virtual design review process based on Virtofy was developed together with the customer:

1. Import of 3D design drawings into

Virtofy: The manufacturer's 3D design drawings are first imported into Virtofy and automatically converted into detailed 3D models.

2. Integration into Virtofy: These 3D models are then uploaded to the Virtofy cloud to create interactive virtual prototypes.

3. Virtual design reviews: The design team uses Virtofy to conduct design reviews and examine each model from different angles and contexts.

4. Iterative design process: The designers are able to significantly accelerate the feedback loops and thus the iterative design process based on the results of the virtual design review process.

Benefits

Cost reduction: The company made significant savings by reducing the number of physical prototypes required.

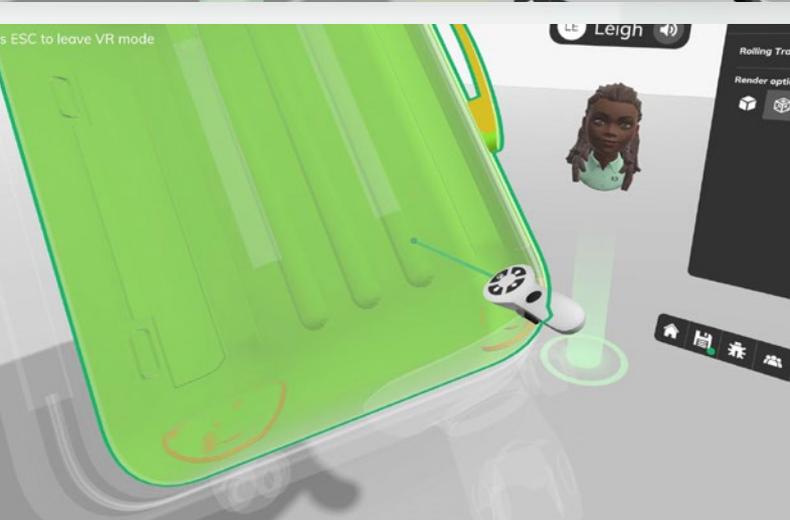
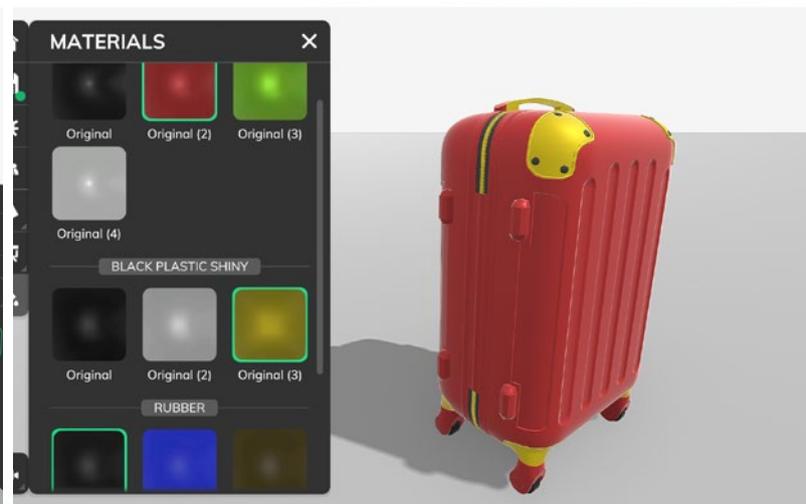
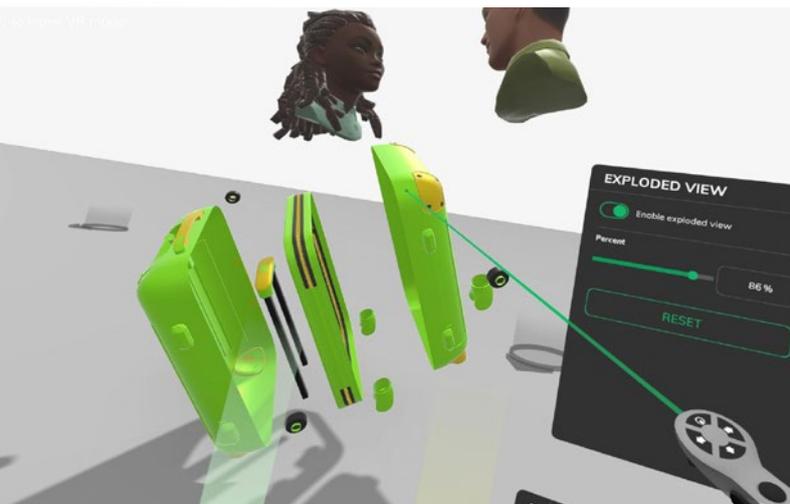
Time savings: The design review cycle was shortened, enabling a faster product development.

Design optimization: Potential design issues are identified and resolved early in the design process.

Return on investment (ROI): The cost savings resulting from the design process of a single model can amortize the investment in the software after a short period of time.

Conclusion

The introduction of the VR application Virtofy by the German suitcase manufacturer represents a significant advance in product design and development. By integrating virtual prototyping into the workflow, the manufacturer can now expect a significant reduction in costs and time to market for



new luggage models, meaning that the investment in Virtofy will pay for itself in the near future.

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Learn more about Virtofy at:

www.virtofy.com

