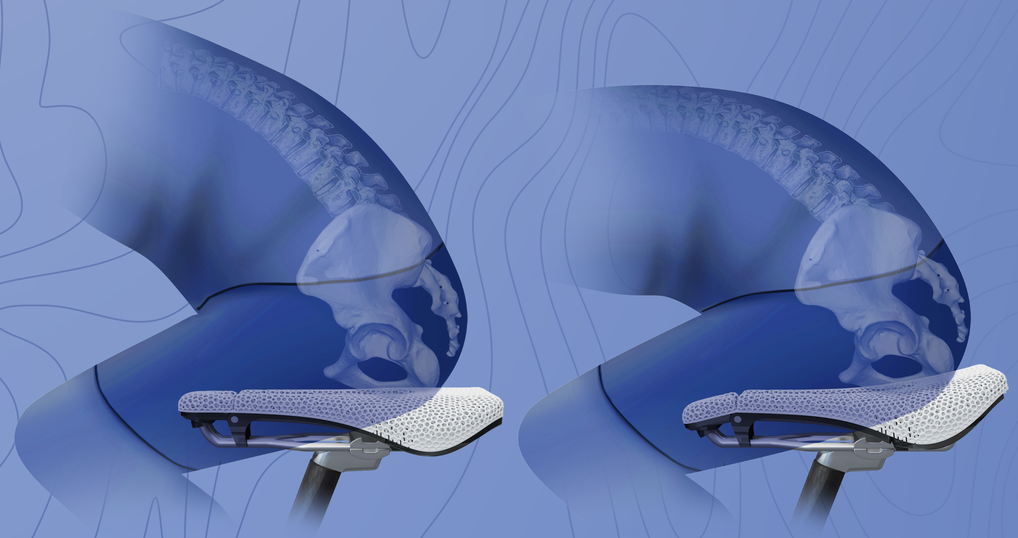
SCULP

A VARIABLE PROFILE SADDLE TO PREVENT SADDLE SORES



LOW PELVIC TILT
Flat profile saddle

HIGH PELVIC TILT
Waved profile saddle

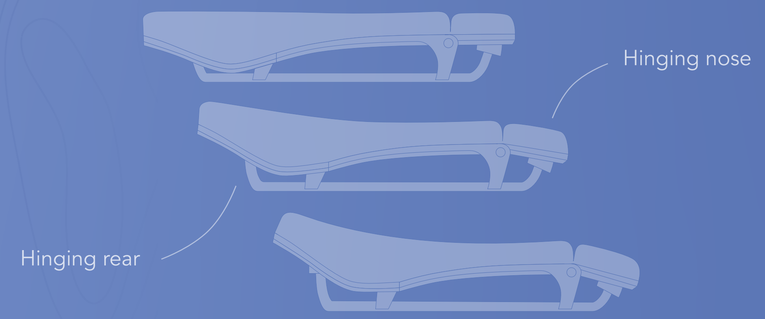
PROBLEM

While cycling offers numerous health advantages, saddle sores pose a common and significant problem for cyclists. More than 50% of cyclists experience **discomfort around the sit bones**, with up to 90% experiencing **discomfort around the perineum**. These sores often are a result of **improper bicycle fit and saddle selection**, as factors such as anatomy, riding style, and personal preference are not considered, leading to **improper pressure distribution** on the saddle.

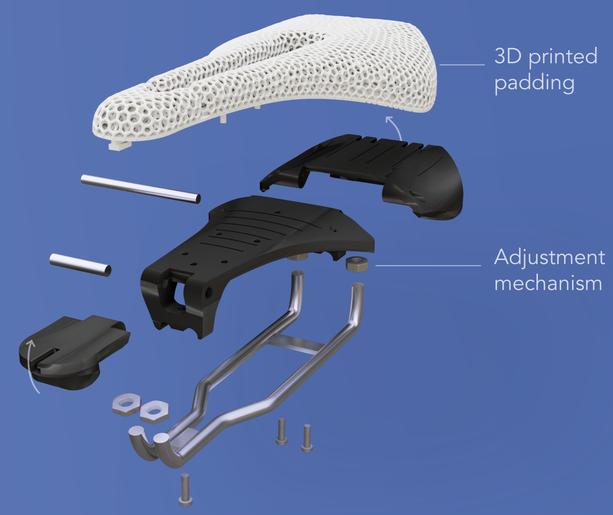
PROPOSED SOLUTION

Sculp addresses this issue by introducing **a saddle with an adjustable profile**. This novel design allows the saddle to **conform to the pelvic tilt of the rider**, ensuring an optimal pressure distribution tailored to **individual preferences**. The saddle features a solid base with hinged rear and nose parts, which are covered by a 3D printed padding for seamless comfort. Additionally, a **Fit Kit** is provided to customers, facilitating finding the perfect bicycle and saddle fit.

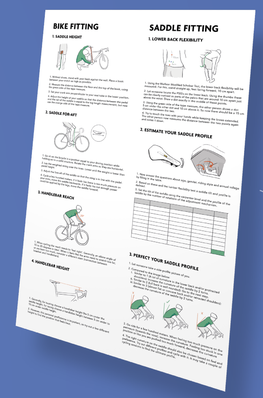
By prioritizing the unique needs and preferences of each rider, Sculp enhances the cycling experience, promoting comfort and enjoyment on the road.



A VARIABLE PROFILE SADDLE



A BICYCLE AND SADDLE FIT KIT



Guide to the perfect bicycle and saddle fit

Art van Zuuk
Sculp: A Variable Profile Saddle To Prevent Saddle Sores
27-3-2024
Master Graduation Project

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