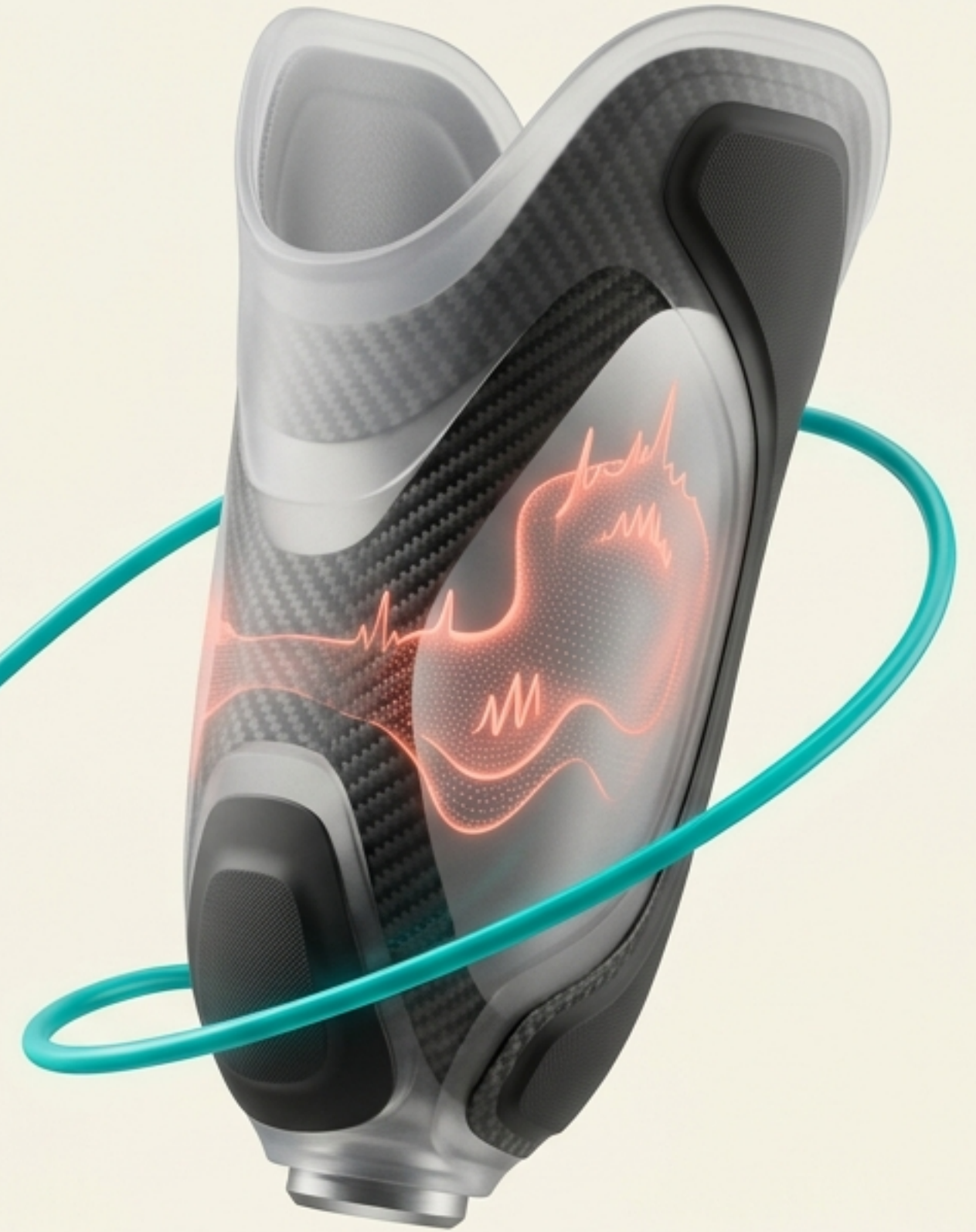


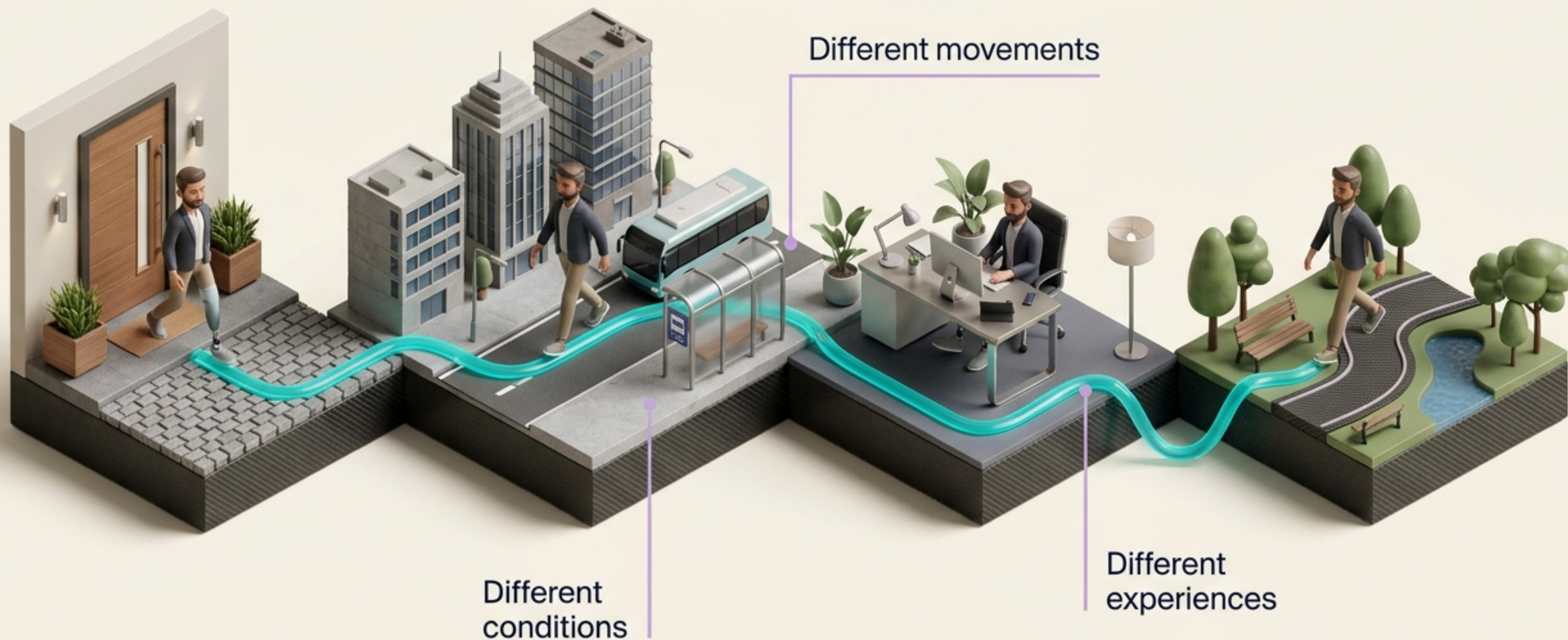
Every better fit starts with a better understanding.

SOMA · The Human Interface of Bionic Design



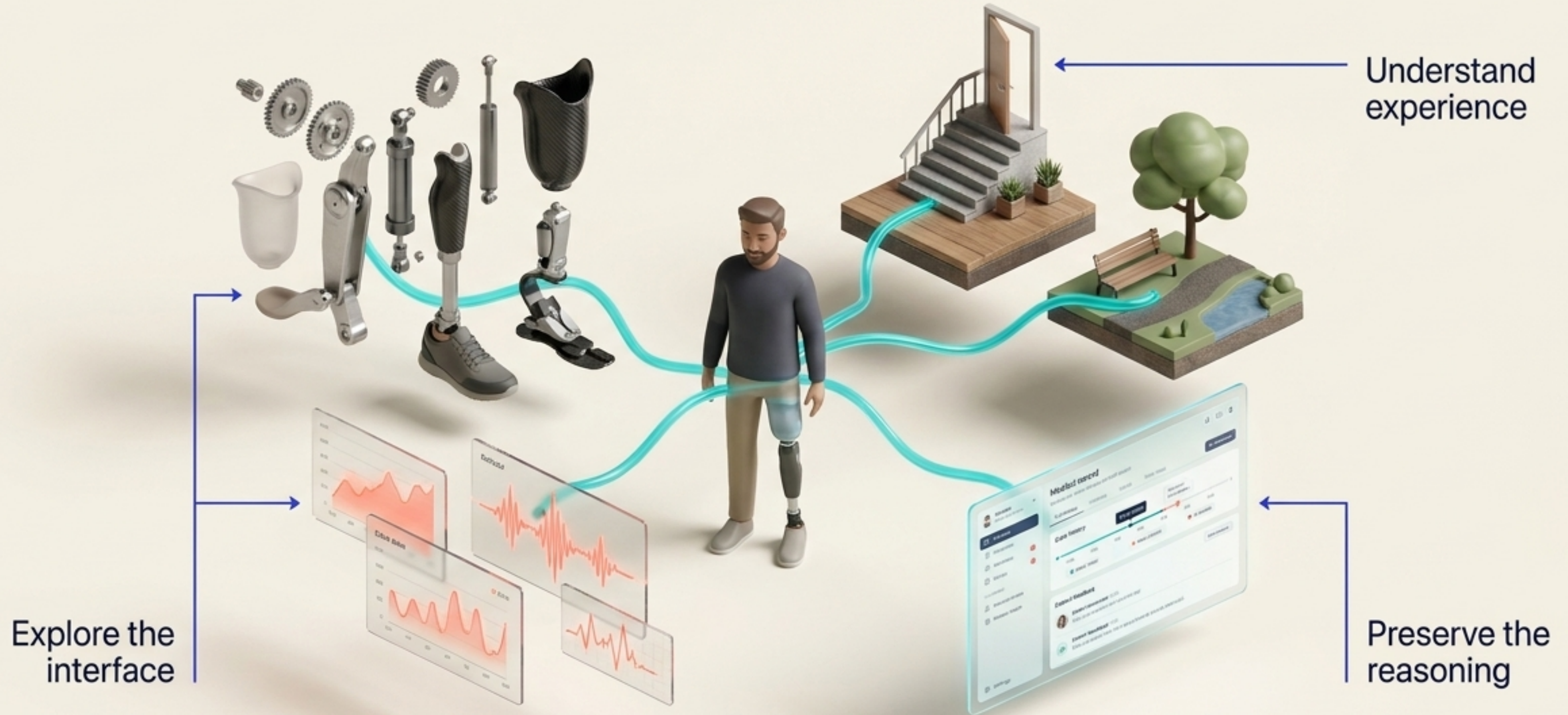
What happens between fittings?

A clinical fitting is a single moment. A limb is worn, but a life is lived.



The person's day becomes part of the design brief.

Every step has a story. Connect the lived experience, the changing fit, and the next design decision.



One person. A whole day of changing demands.

How might longer periods of activity change the wearer's experience?

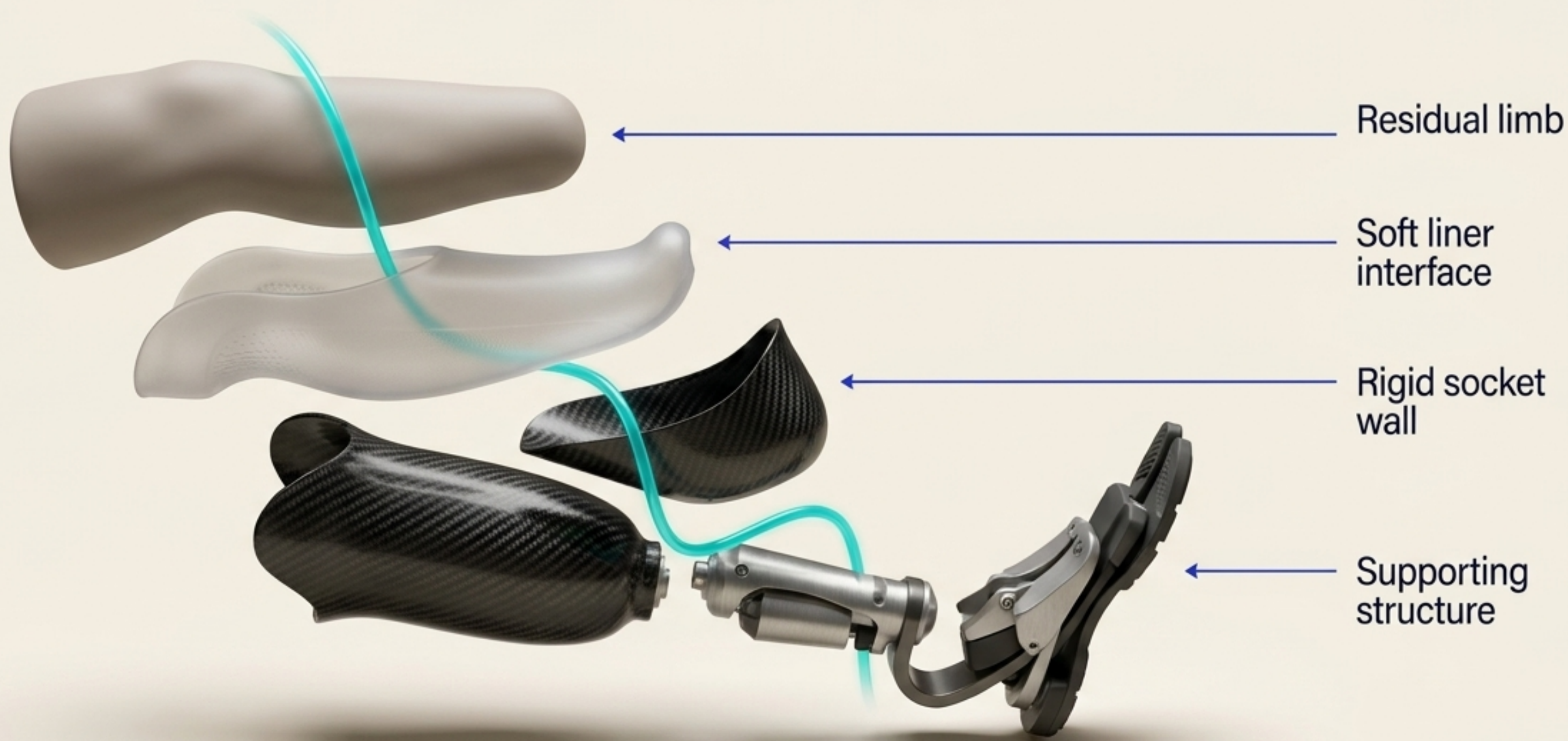


Illustrative scenario.

Look inside the relationship between limb and socket.

A meticulously engineered system designed to mediate between biology and mechanics.

Explore components, layers, and design choices.



Follow the conditions over time.

Move through a synthetic journey. See pressure, activity, and reported discomfort in the exact same moment.



Event: Walk from the station to home comfortably

Normal pressure: **72.8 kPa**

Volume change: **-2.2%**

Reported discomfort: **3.3 / 10**

0 mins

60 mins

120 mins

180 mins

240 mins

300 mins

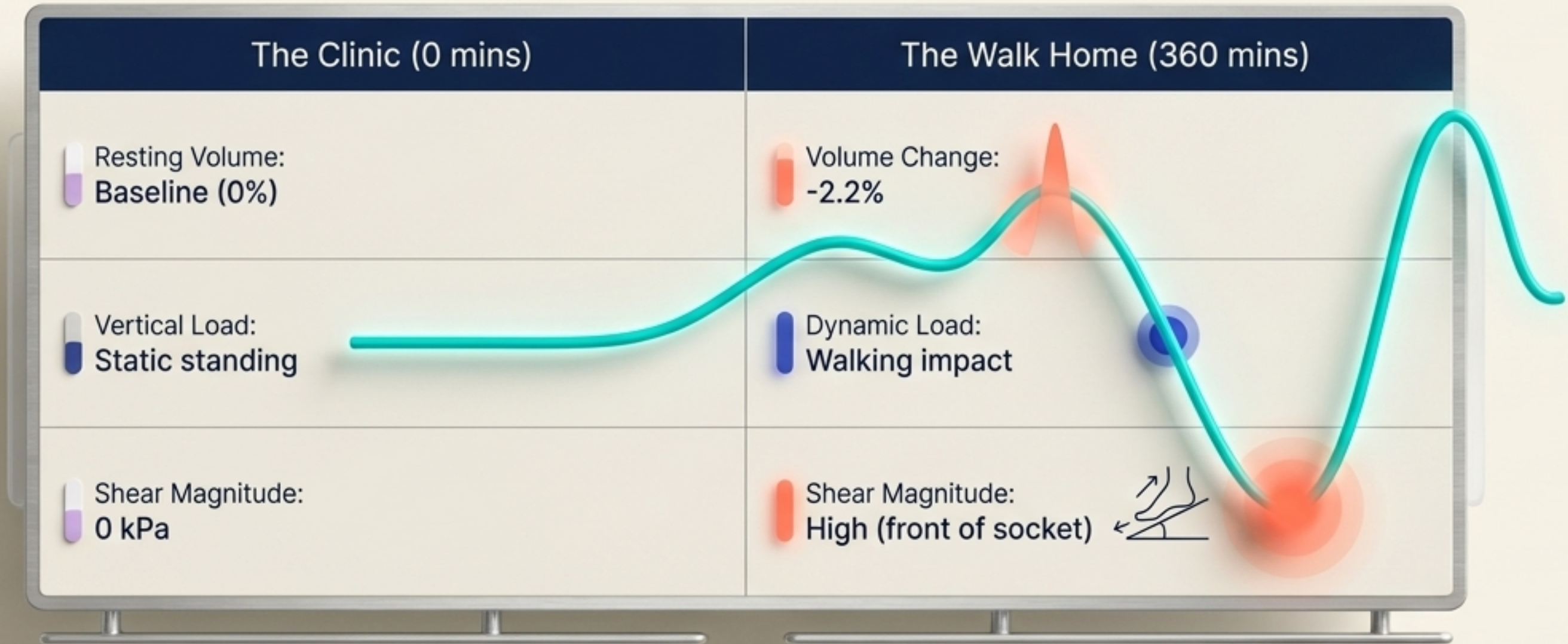
360 mins

420 mins

480 mins

From a static snapshot to a dynamic reality.

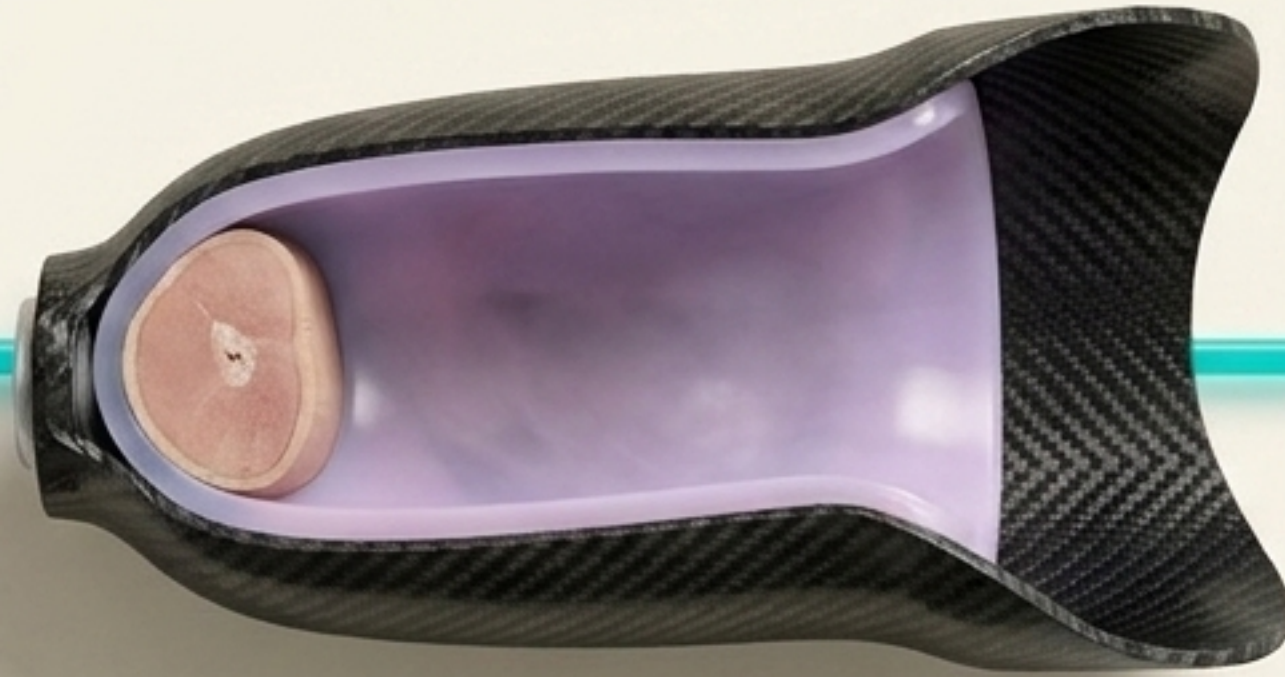
Changes that occur together demand observation.
What the clinic sees versus what the leg actually feels over time.



Inspect form. Replay change.

Compare a reference socket with a new proposal in 3D.
Follow changing conditions in 4D, then decide what requires a physical test.

0 mins



360 mins



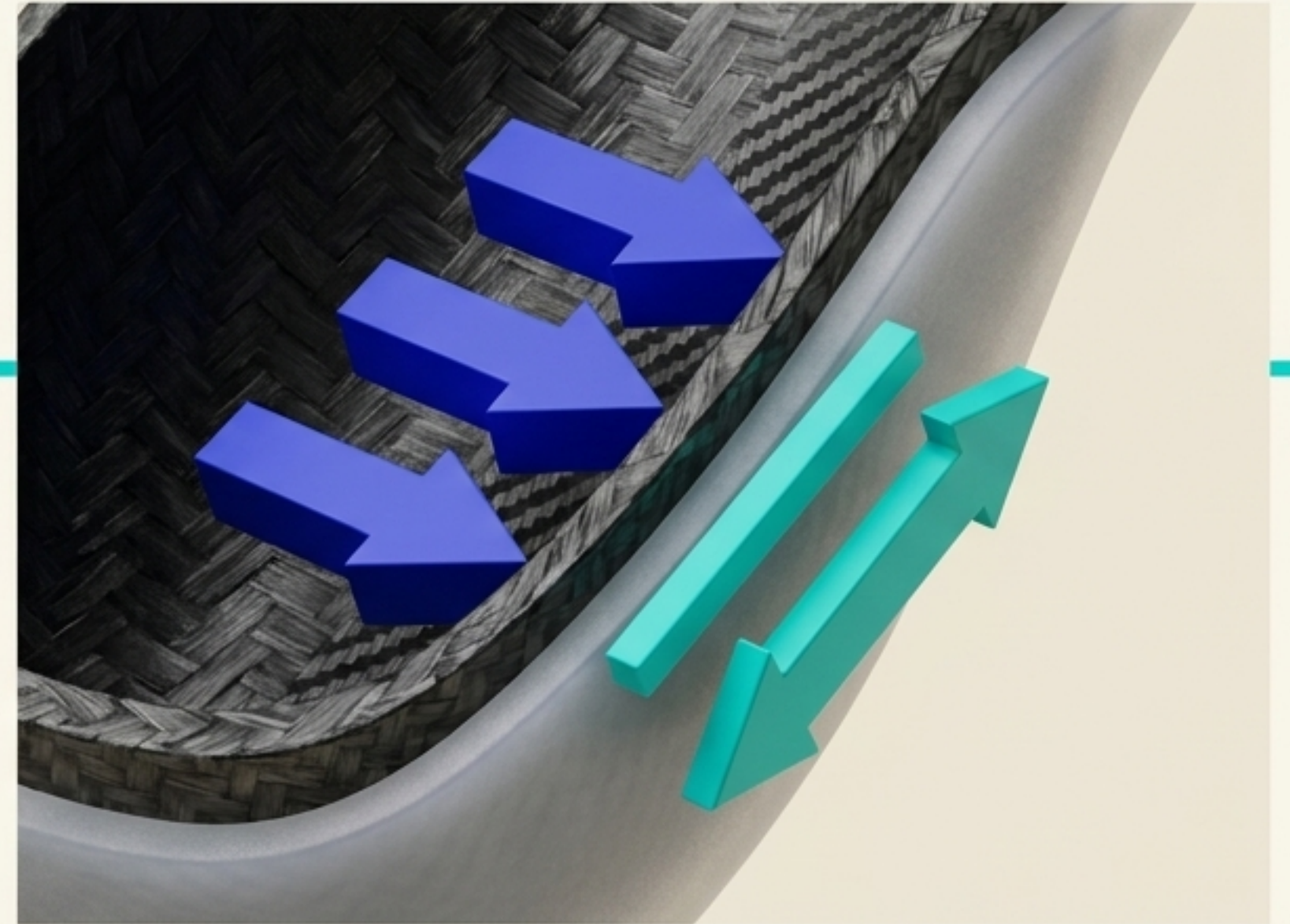
Material Study / 001 — Carbon composite x soft interface

Uncovering forces and closing the loop.

Touch with a way home. Separate compression from sliding to reveal missing information.



01 Sensory return



02 Interface sensing

A fit that follows the day.

Investigate bounded adjustments, flexibility, and targeted support by specific region as limb volume changes.

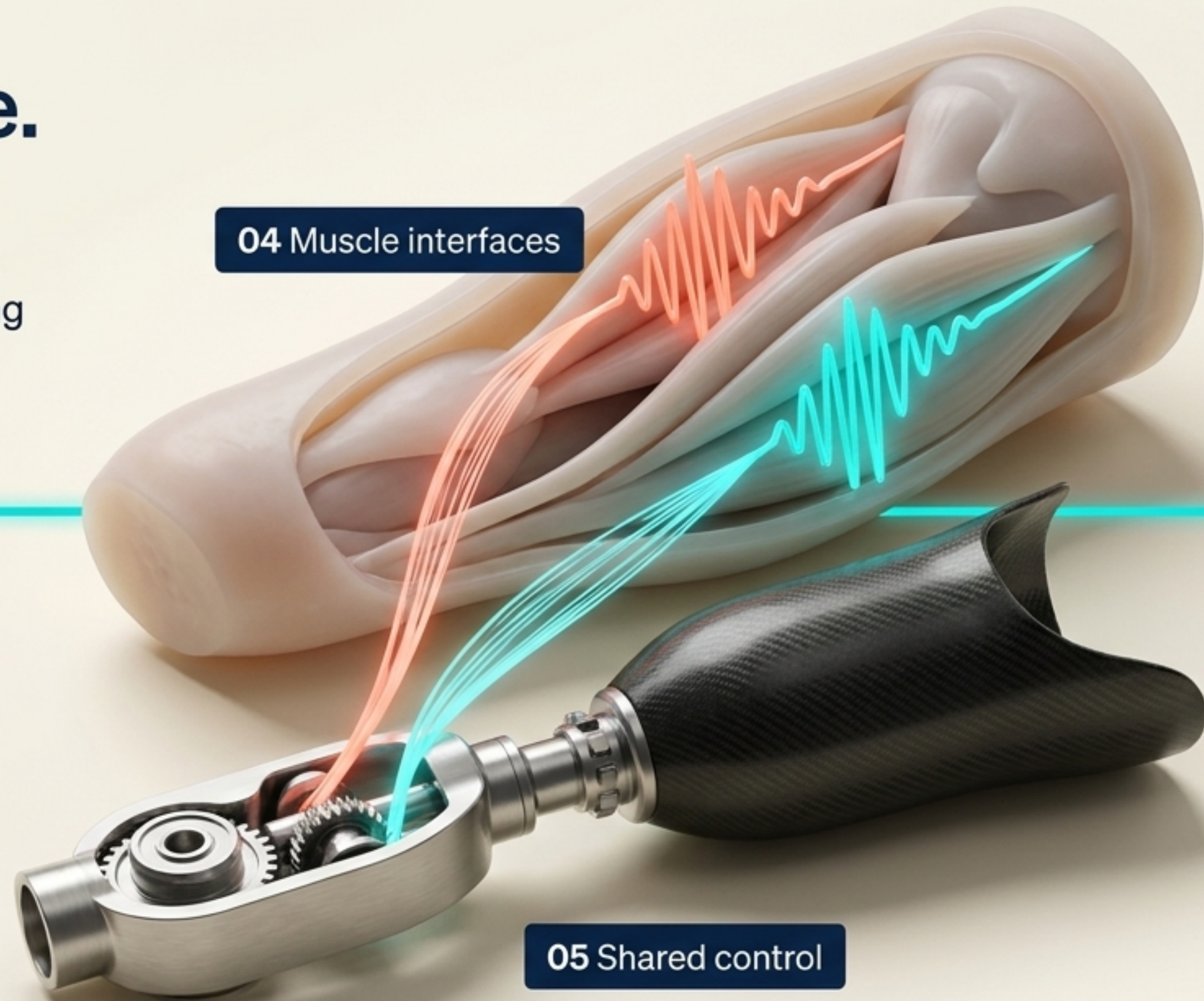
03 Adaptive
sockets



06 Regional
materials

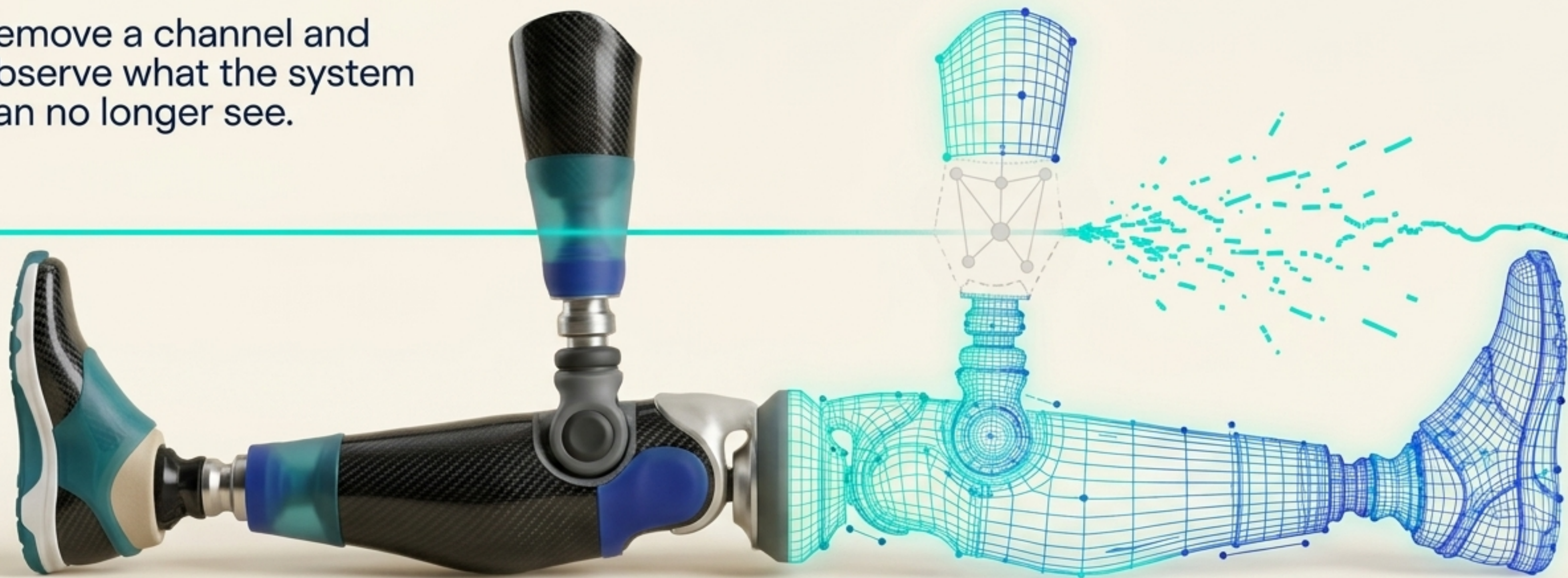
Movement as a shared language.

Follow the opposing signals of a coupled muscle pair. Provide help at the moment of contact, while keeping release firmly in human hands.



A model that admits the unknown.

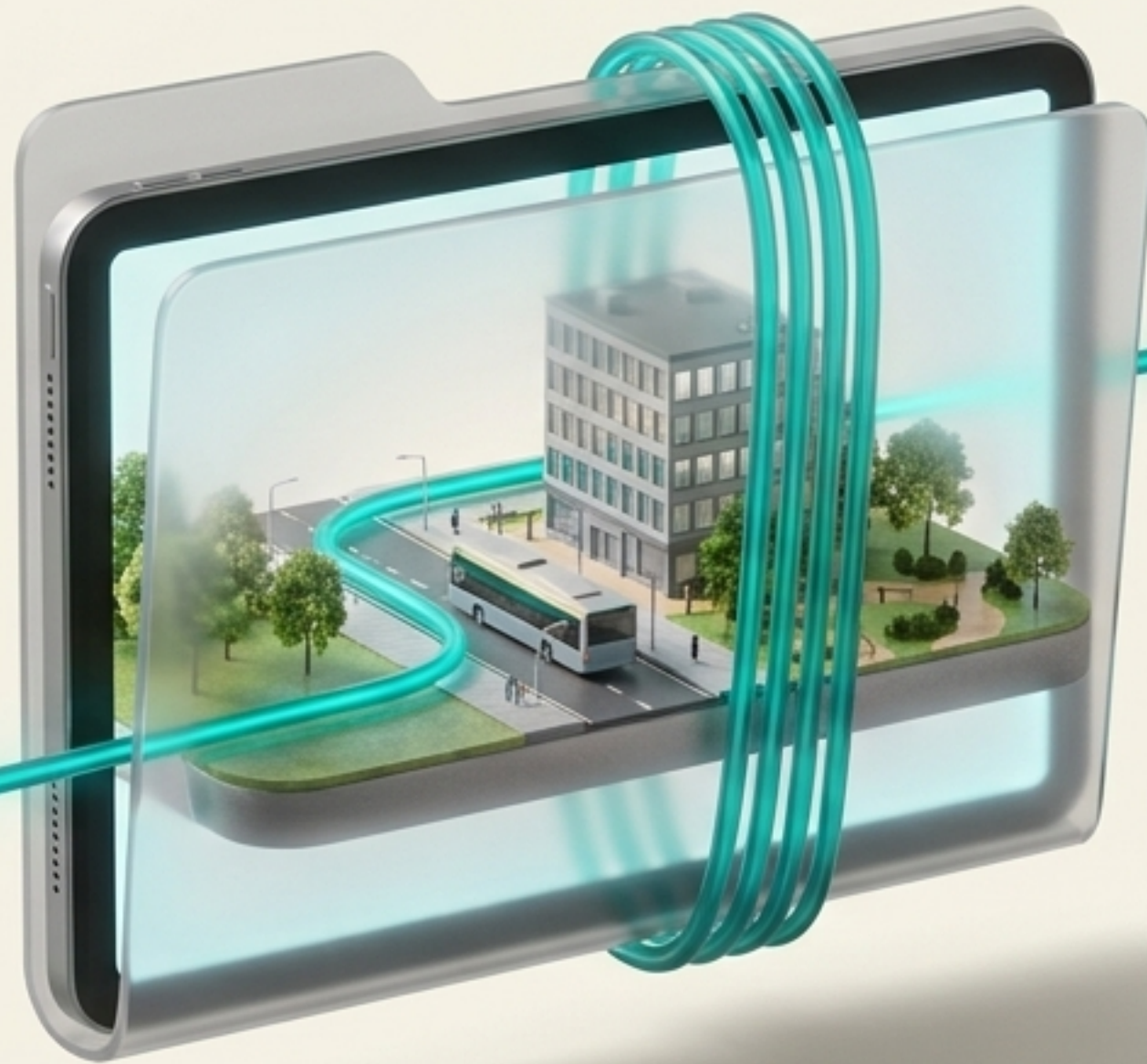
Remove a channel and observe what the system can no longer see.



07 Digital-twin concepts

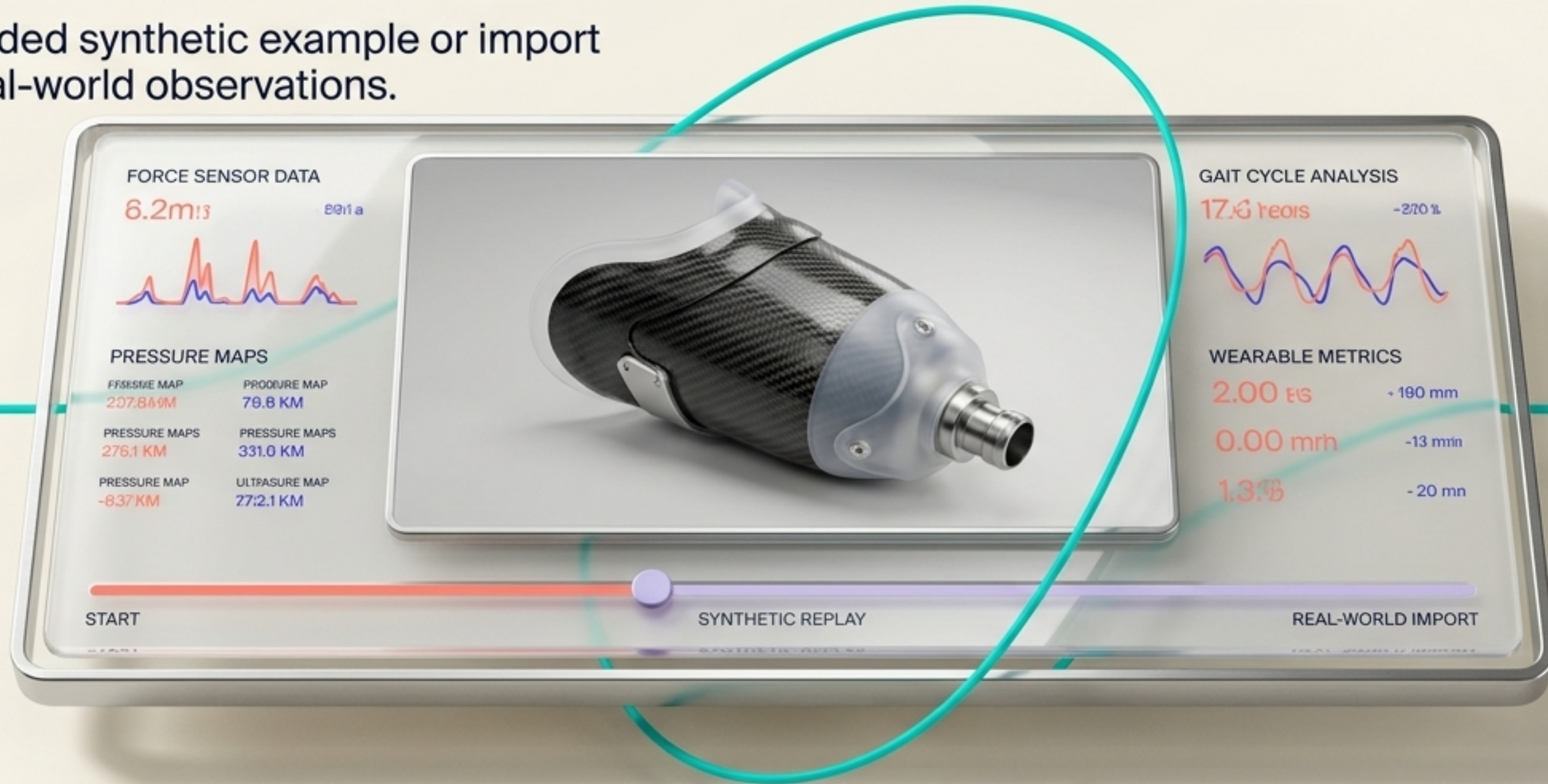
What worked should travel with you.

Carry observations, questions, and decisions into your next conversation. The goal is the life around the limb.



Bring observations into the workspace.

Replay a guided synthetic example or import your own real-world observations.



01 — Understand the moment

Link concepts directly to evidence.

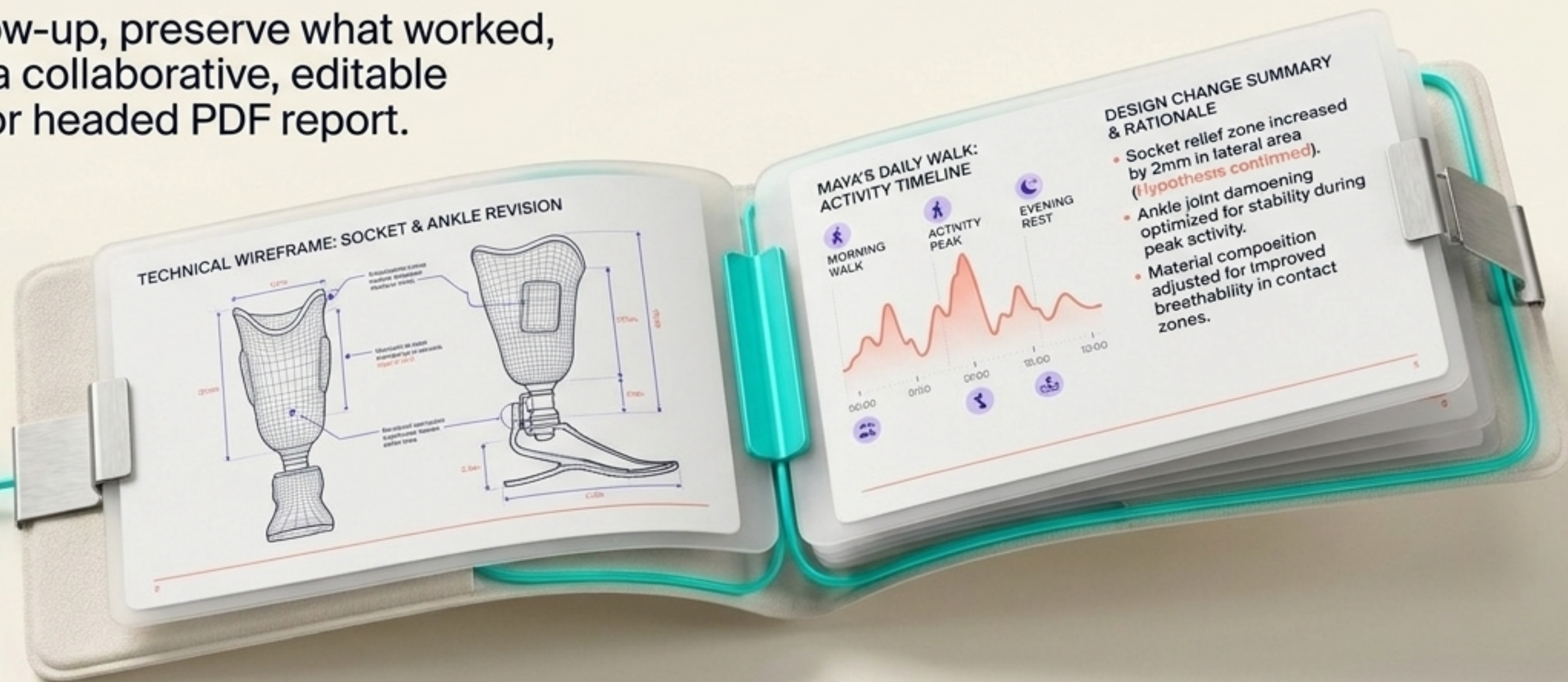
Connect a concept revision to specific assumptions and a proposed physical test.



02 — Make the question reviewable

Preserve the reasoning for the future.

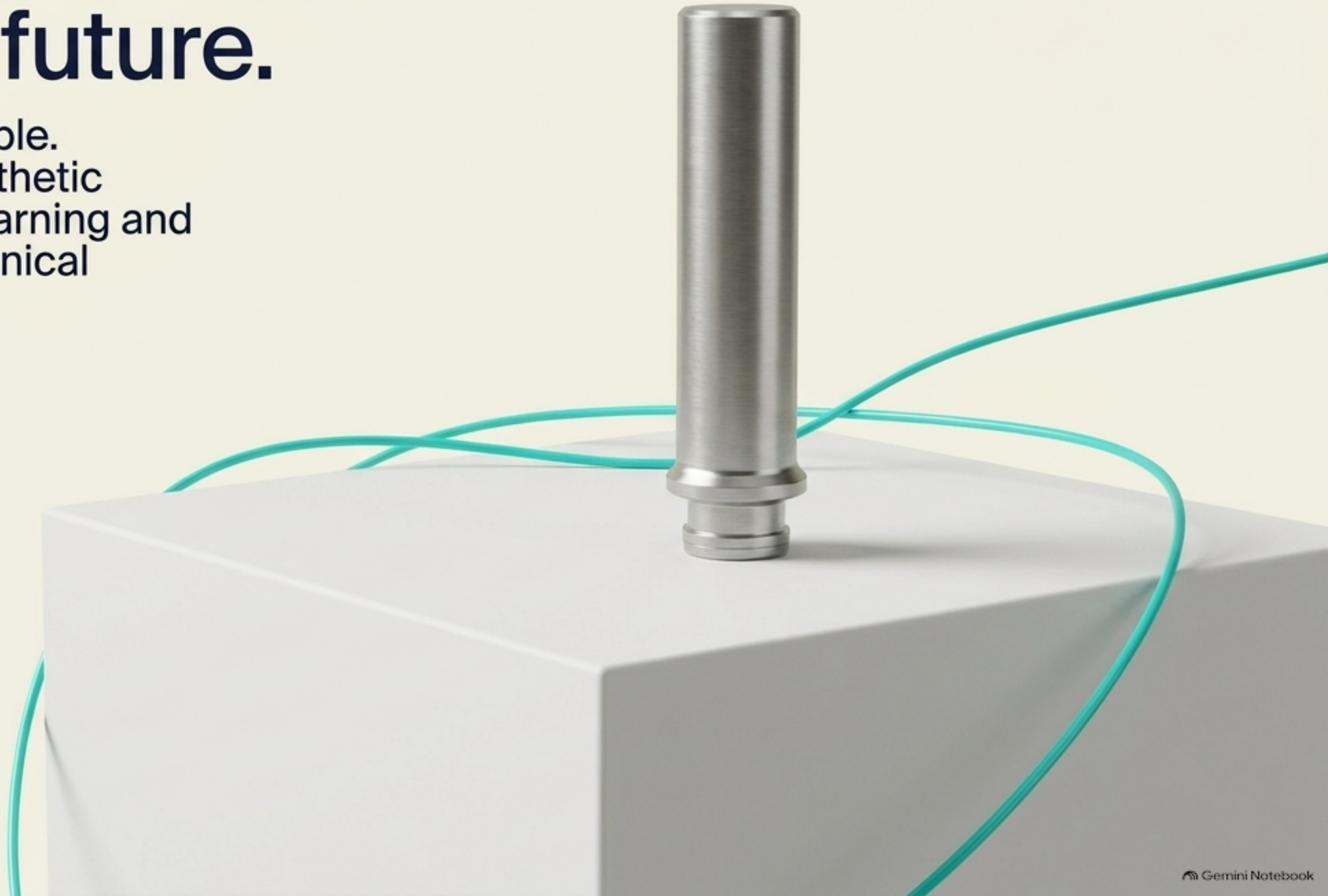
Record follow-up, preserve what worked, and export a collaborative, editable Markdown or headed PDF report.



03 — Keep the care memory

A research prototype for a better future.

SOMA explores the possible.
Concept imagery and synthetic
examples exist to drive learning and
inquiry, not to establish clinical
benefit.



See the person. Explore the possible.

Enter the SOMA studio. Begin with a guided example and follow it all the way through.



SOMA
