

QU
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QUGATE

Our Team



Kujtim Gashi

CEO & Founder

Kujtim is a software engineer with a background in computational modeling for cardiovascular health.

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Sjeng Quicken

CTO & Co-Founder

Sjeng is an assistant professor at TU Eindhoven with expertise in model-based decision support.

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Lavdrim Gashi

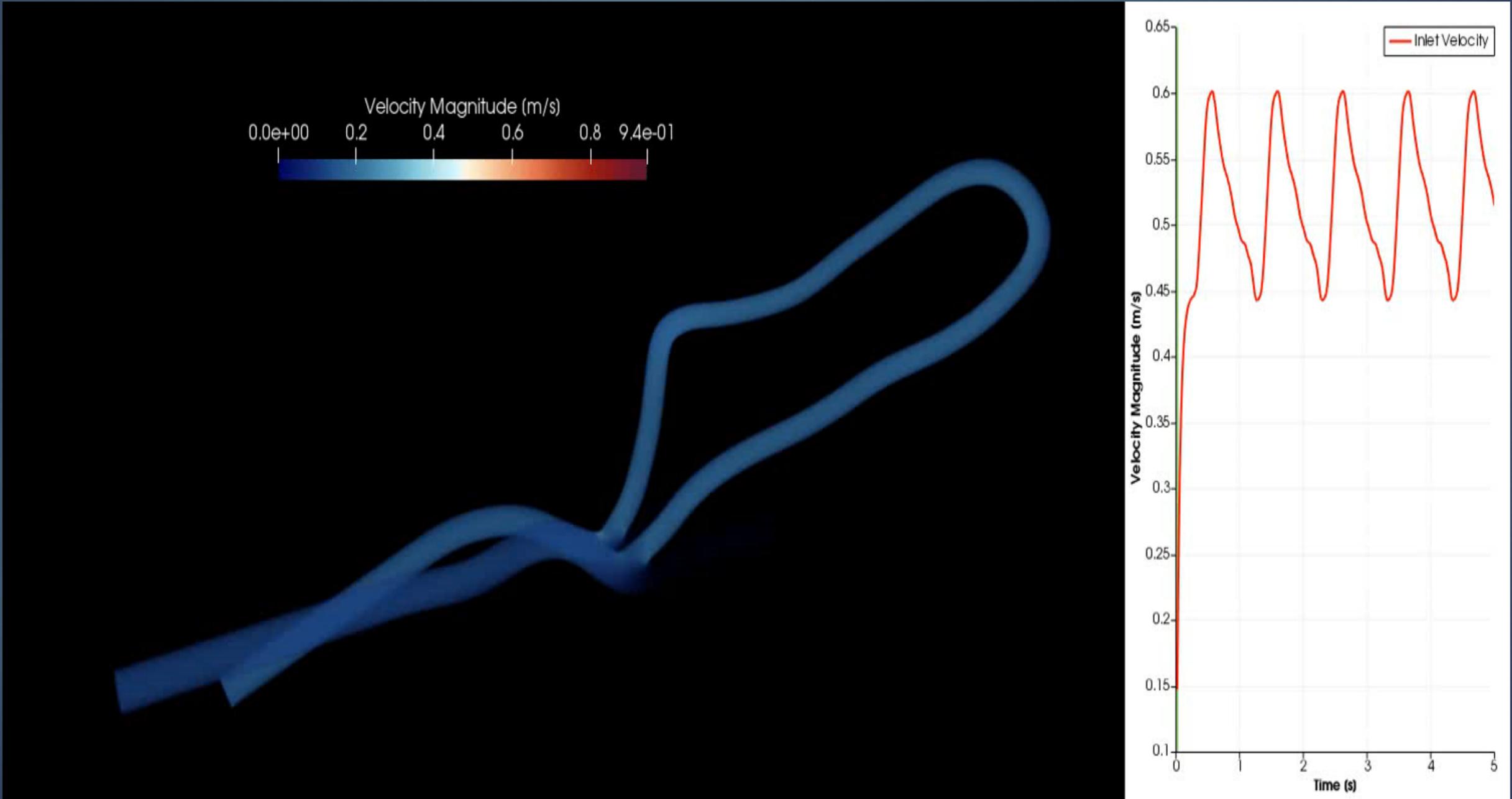
COO & Co-Founder

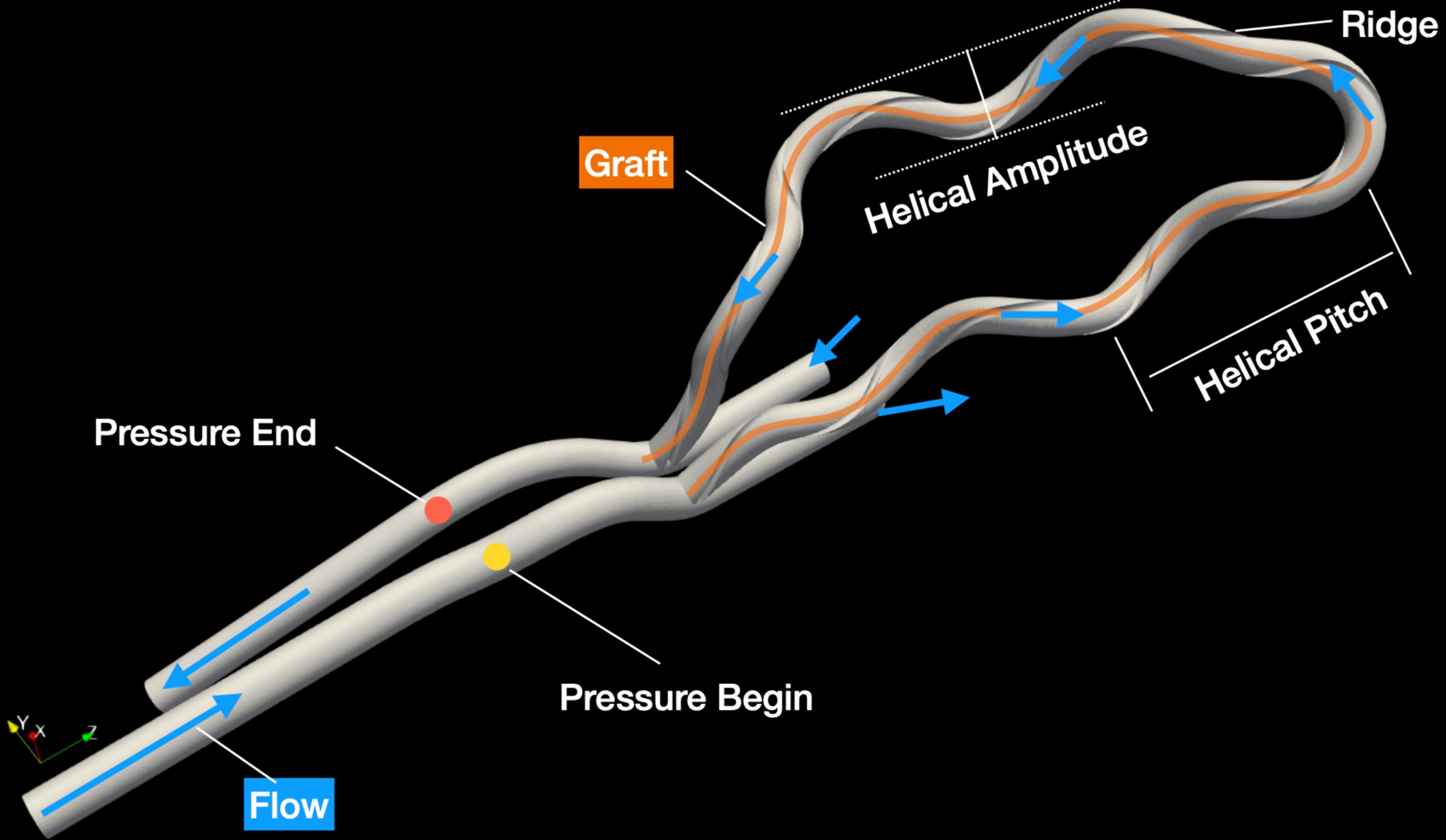
Lavdrim oversees the daily operations and plays a role in the growth strategy and the commercial side.

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Medical Device (AVG)

Optimise for better blood flow

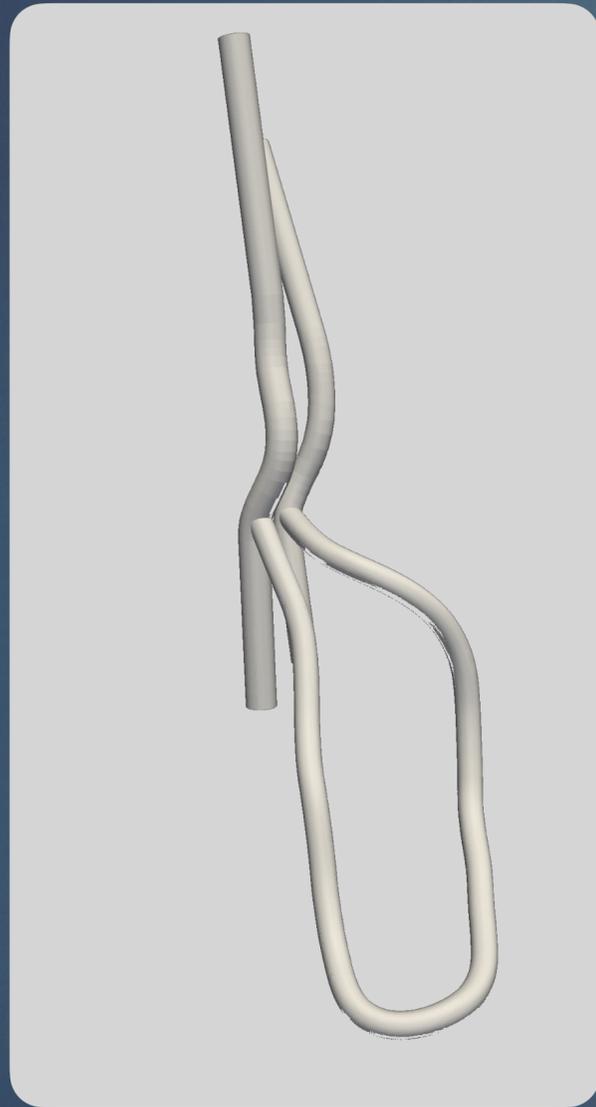




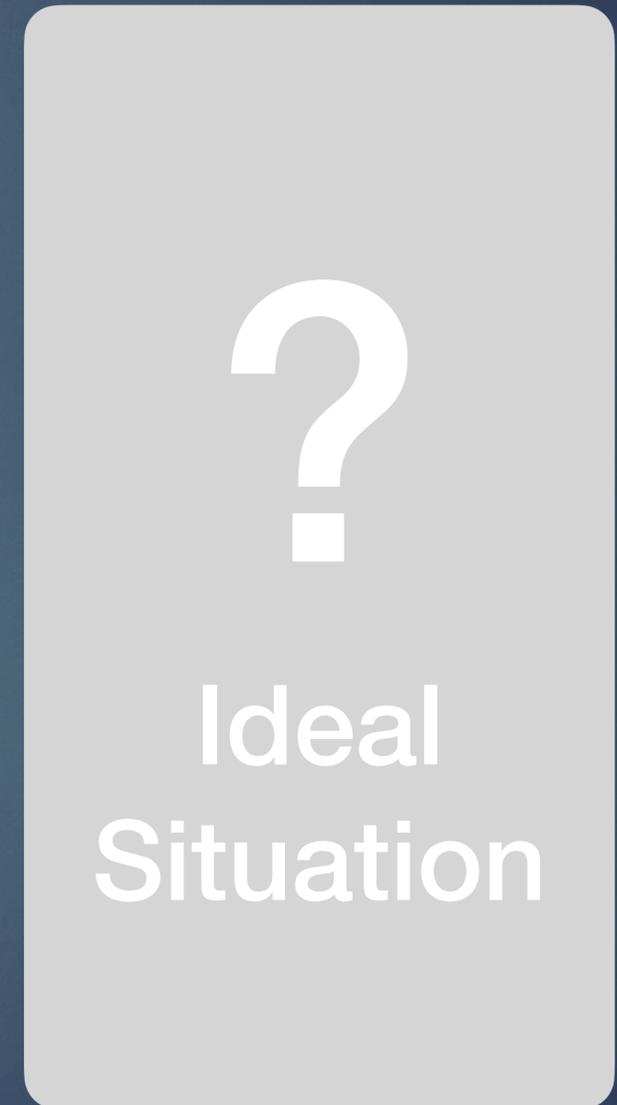
Meet FDA's ASME V&V40 credibility standards

Quantify uncertainty & validate models with fewer tests & faster insights

How do we go from here?



Original



Ideal

Increase
Parameter

Pressure Drop

14.7
mmHg

16.3
mmHg

15.4
mmHg

15.2
mmHg

+

+

+

+

-

-

-

-

Pressure Drop

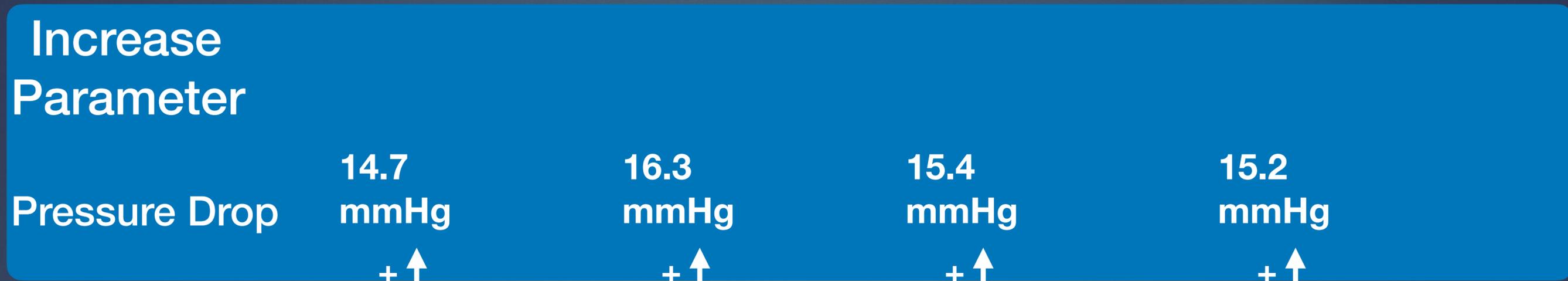
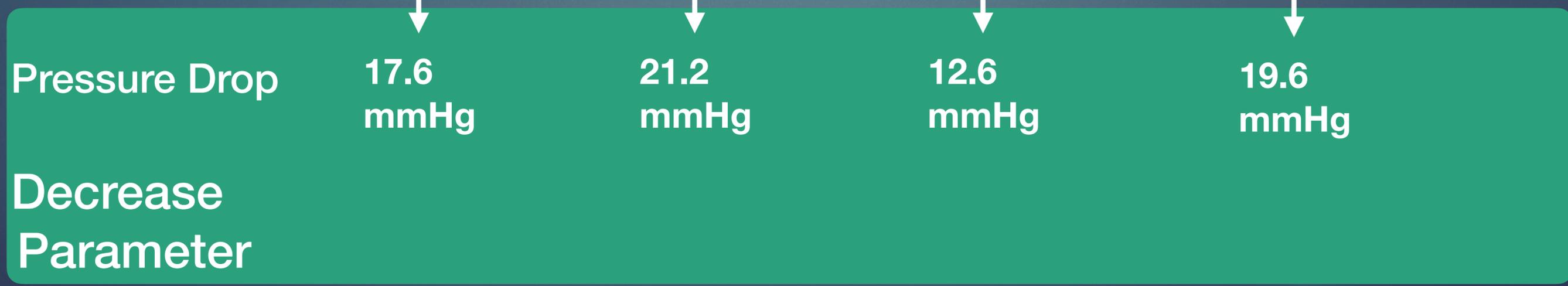
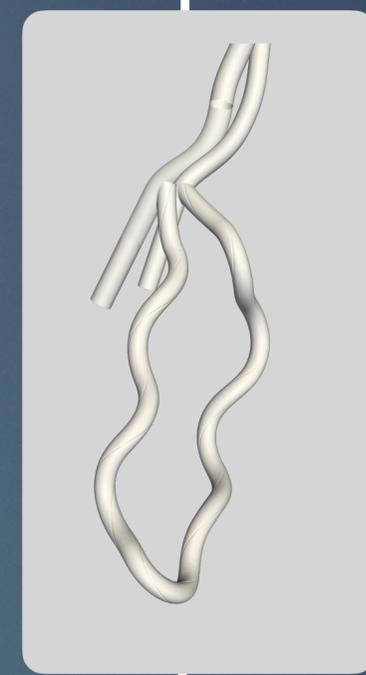
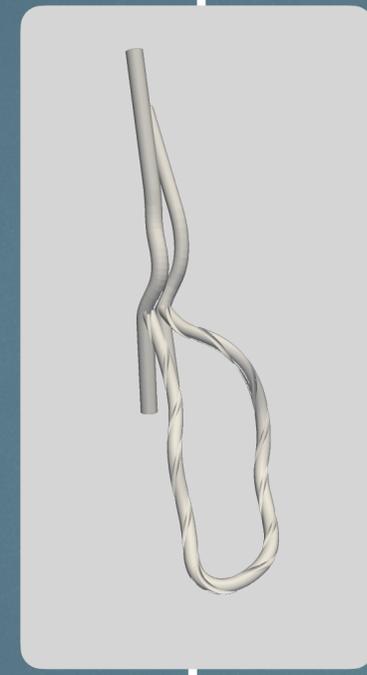
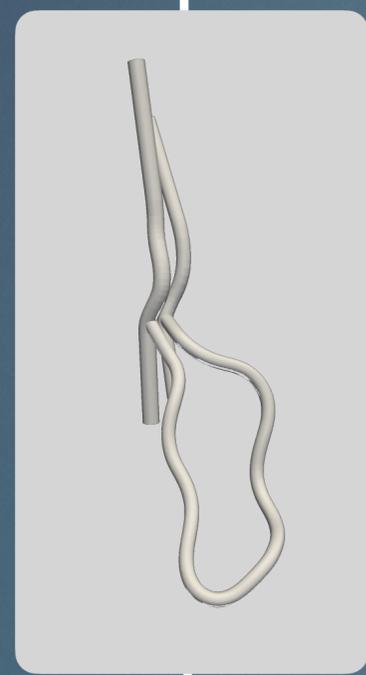
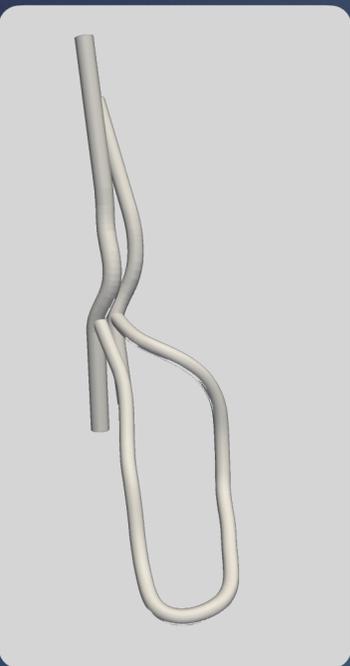
17.6
mmHg

21.2
mmHg

12.6
mmHg

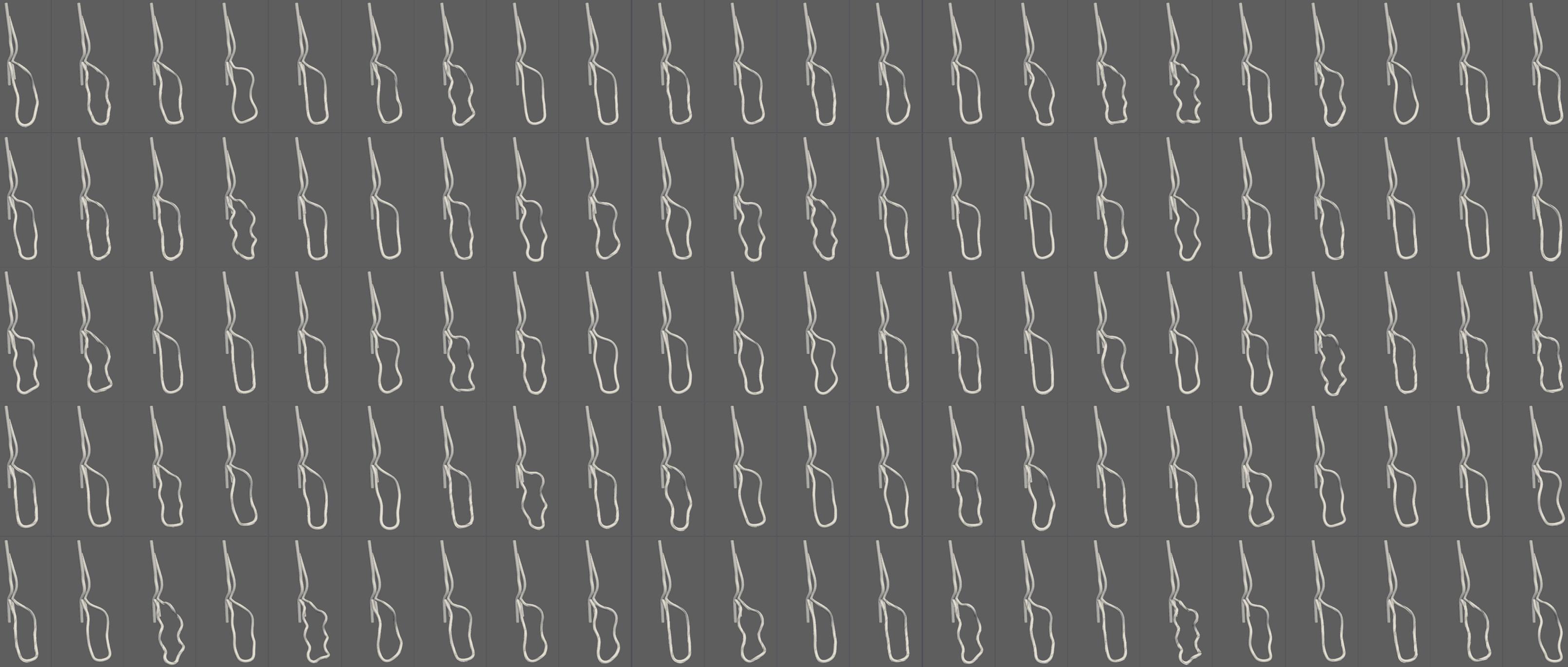
19.6
mmHg

Decrease
Parameter



The one certainty with trail and error:

**You will never meet FDA's ASME V&V40
credibility standards**

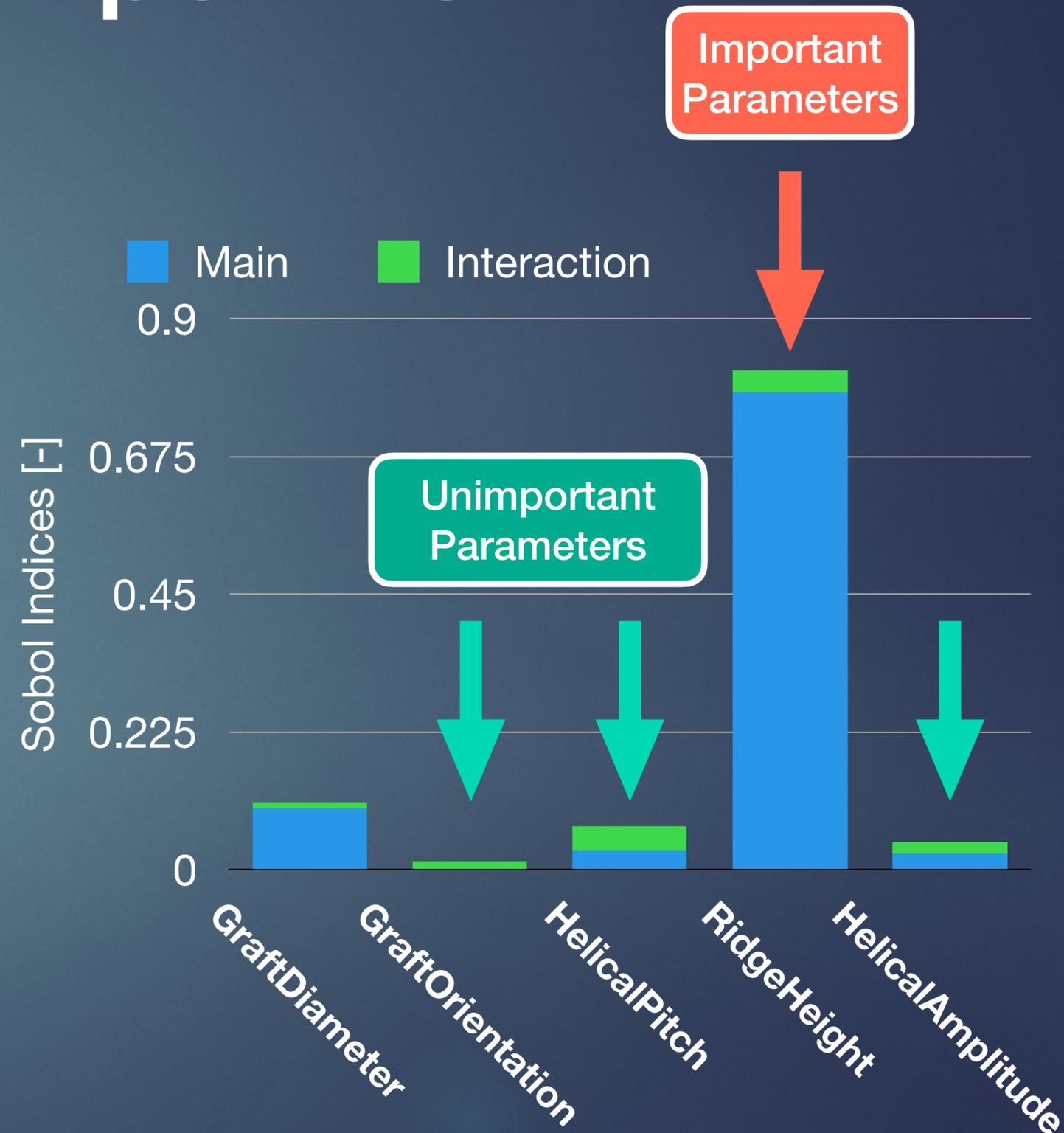




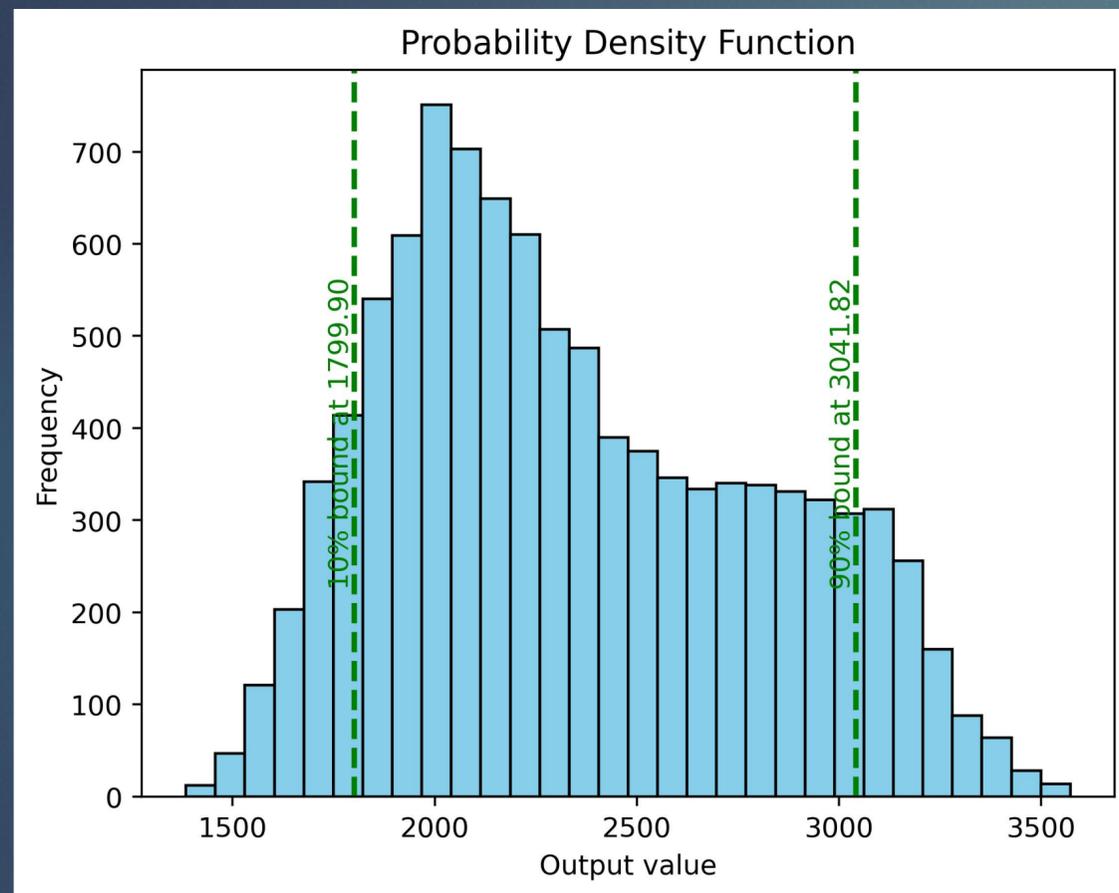
From compliance to competitive advantage

One parameter drives 80% of the variation, the rest can be deprioritized.

Save testing time.



From compliance to competitive advantage



Shows the safe operating range and failure probabilities.

Confidence in design

From compliance to competitive advantage

- **Highly oscillating wall shear stresses reduced by 25%**
- **Magnitude of flow disturbance significantly reduced**
- **Smoother blood flow and a lower risk of complications**

From compliance to competitive advantage

- Meet FDA's expectations with stronger evidence, faster.
- Reduce time-to-approval
- 50-70% fewer simulation iterations needed

Next step:
**Let's explore a pilot on one of your
devices**