

Identifying Potential New Materials for Endoluminal Vacuum Therapy

What is 'EVT?'

- Endoluminal Vacuum Therapy treats disease conditions of the gastrointestinal (GI) tract
- Minimally invasive way to promote and accelerate healing
- Novel approach with promising future as an adaptable and inexpensive procedure

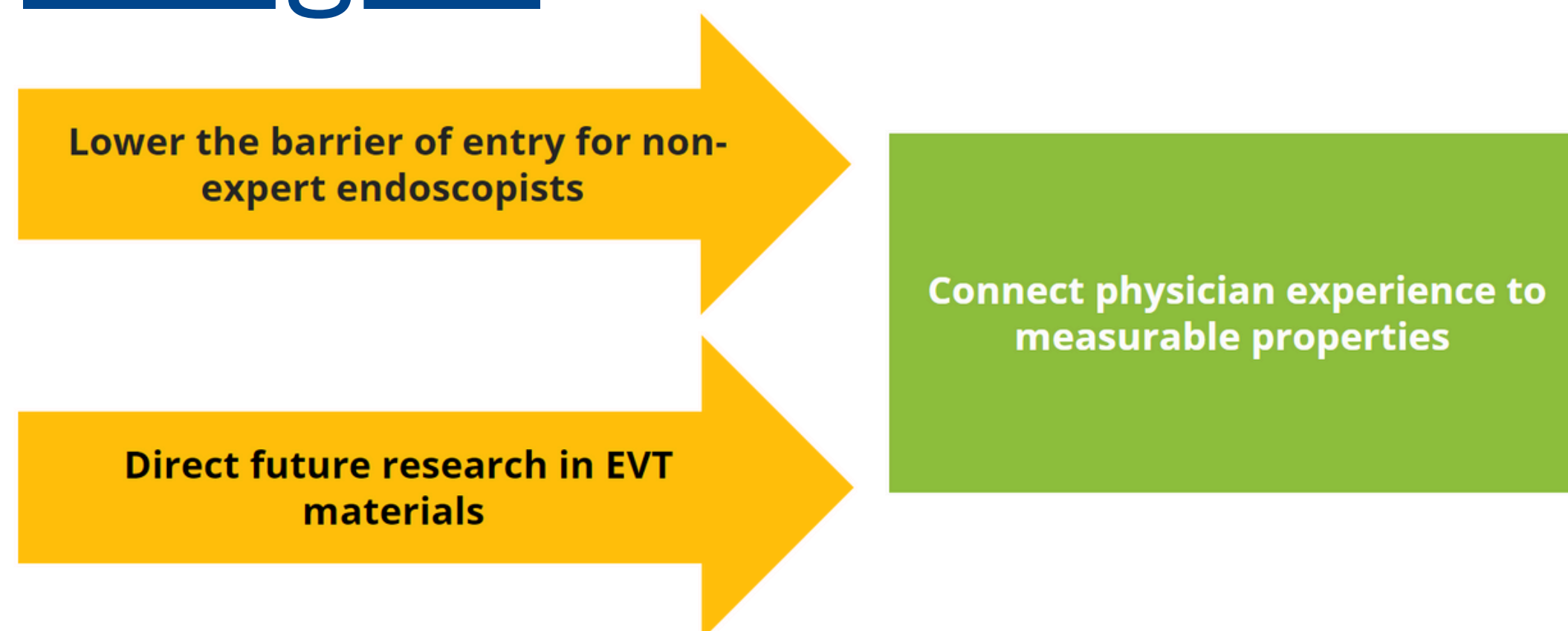
however...

Roadblocks!

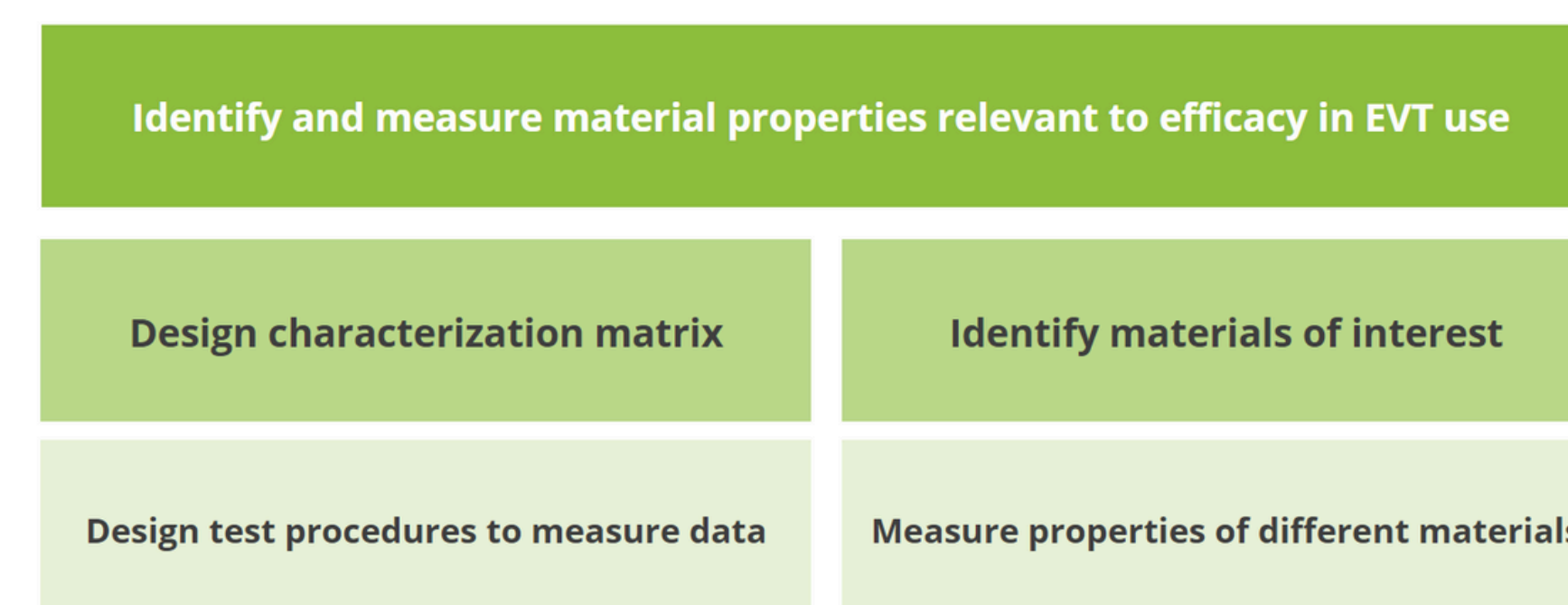
- Material properties <--?--> Mechanisms of action
- High skill floor required of practitioners
- Expensive and resource intense

SO...

Our goal



Our approach

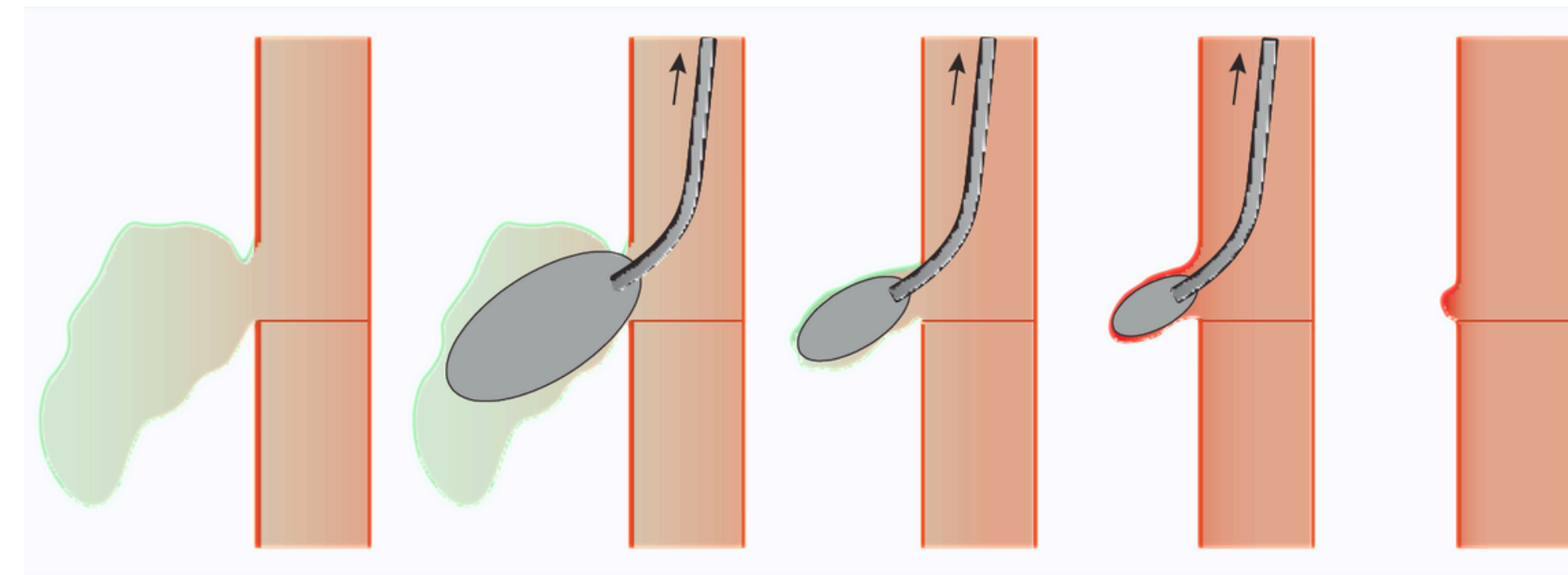


Our deliverables

A characterization matrix with:

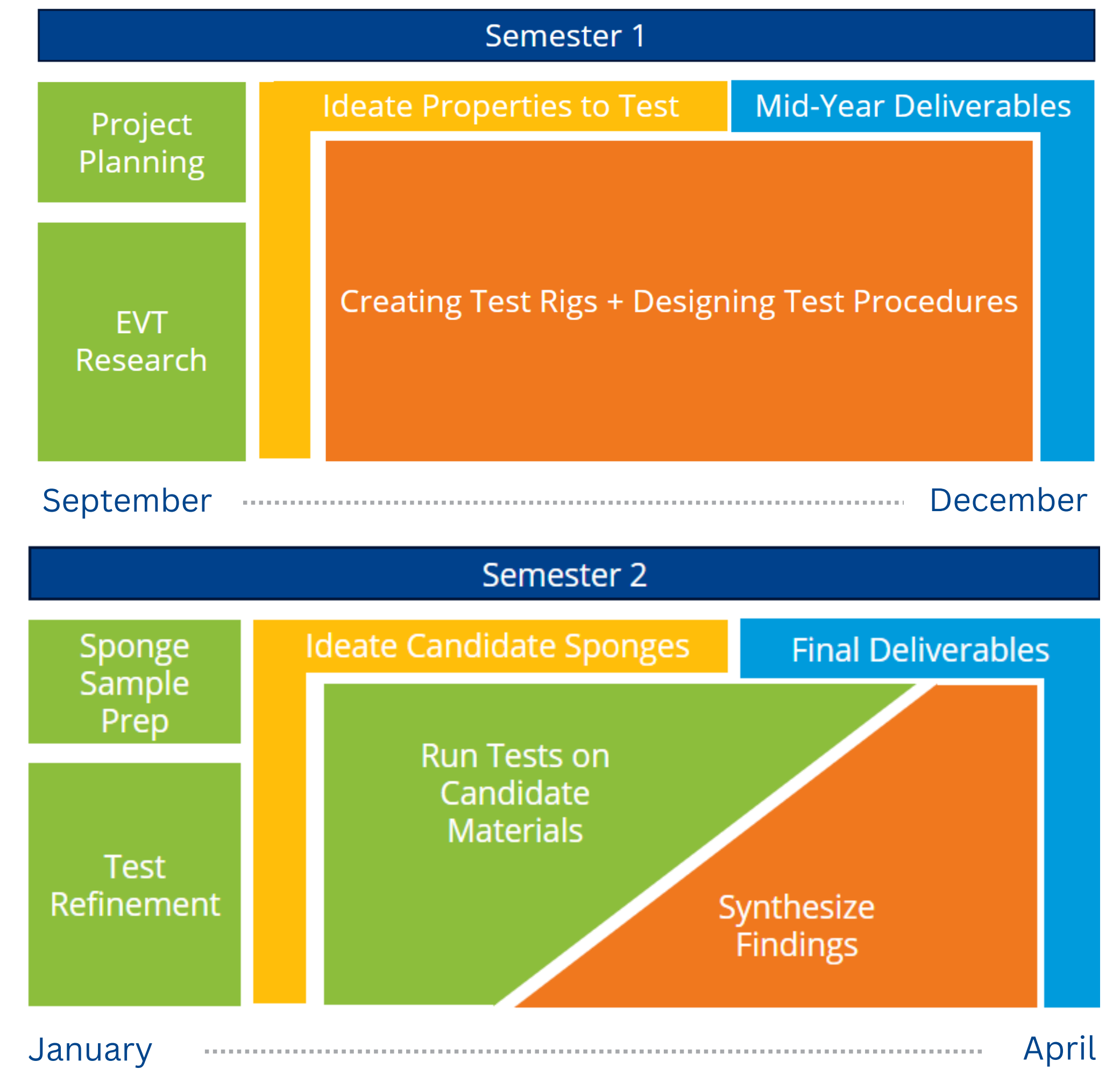
- 8 unique test procedures that measure material properties and clinical performance
- Data collected from 5 porous materials

	Materials				
Tests	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue



A commercially available EVT sponge

Project Timeline



Ale Cuevas



Esme Abbot



Grant Goodall



Sarah Bloomer
Faculty Advisor



Leah Mendelson
Subject-matter Expert



Matt Neal
Subject-matter Expert



Jaclyn Ho



Jen Sundstrom



Martyn Folan
BSC Liaison



Laura Christakis
BSC Liaison



Rahul Prabhu
BSC Liaison