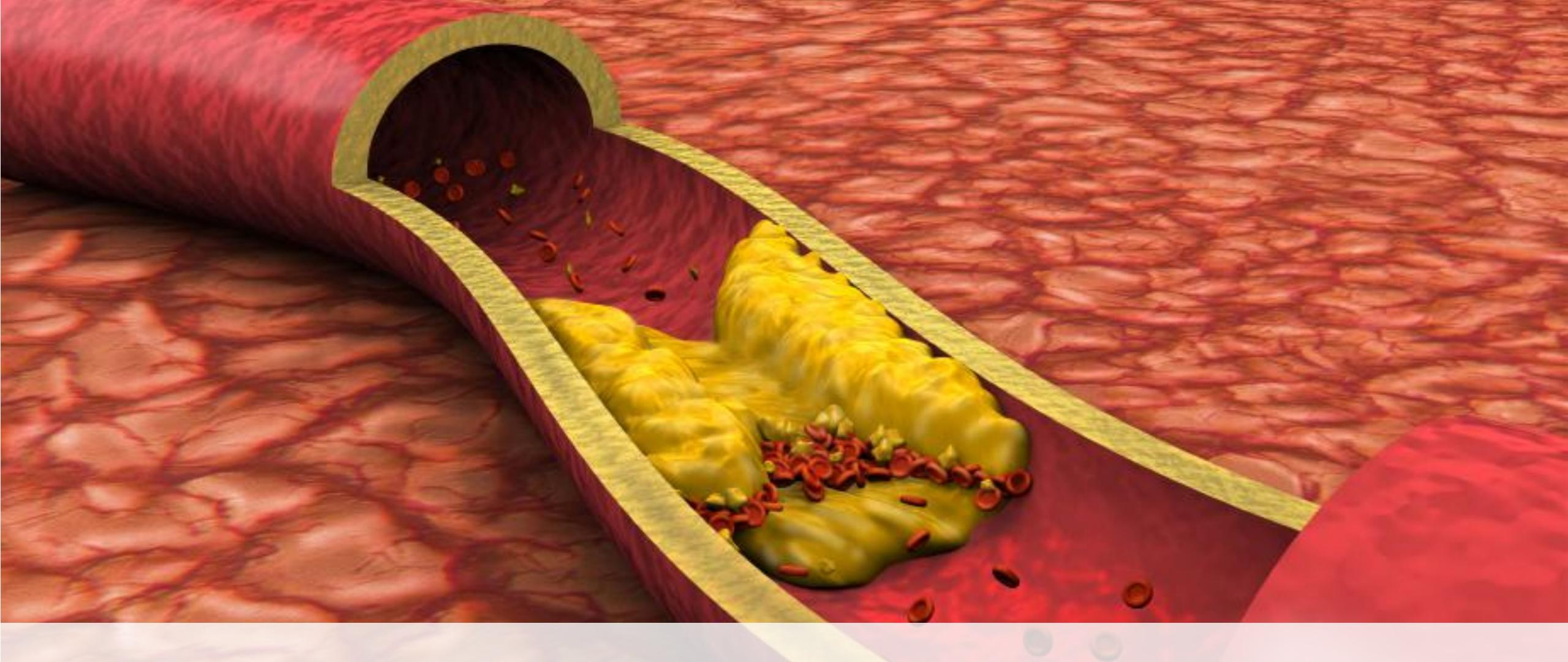




Regenerate new blood vessels from natural silk

Gabriele Grecchi, CEO & Founder - Milano, July 2016





1.4m patients in the US need revascularizations

There is a huge unmet clinical need for vascular prostheses

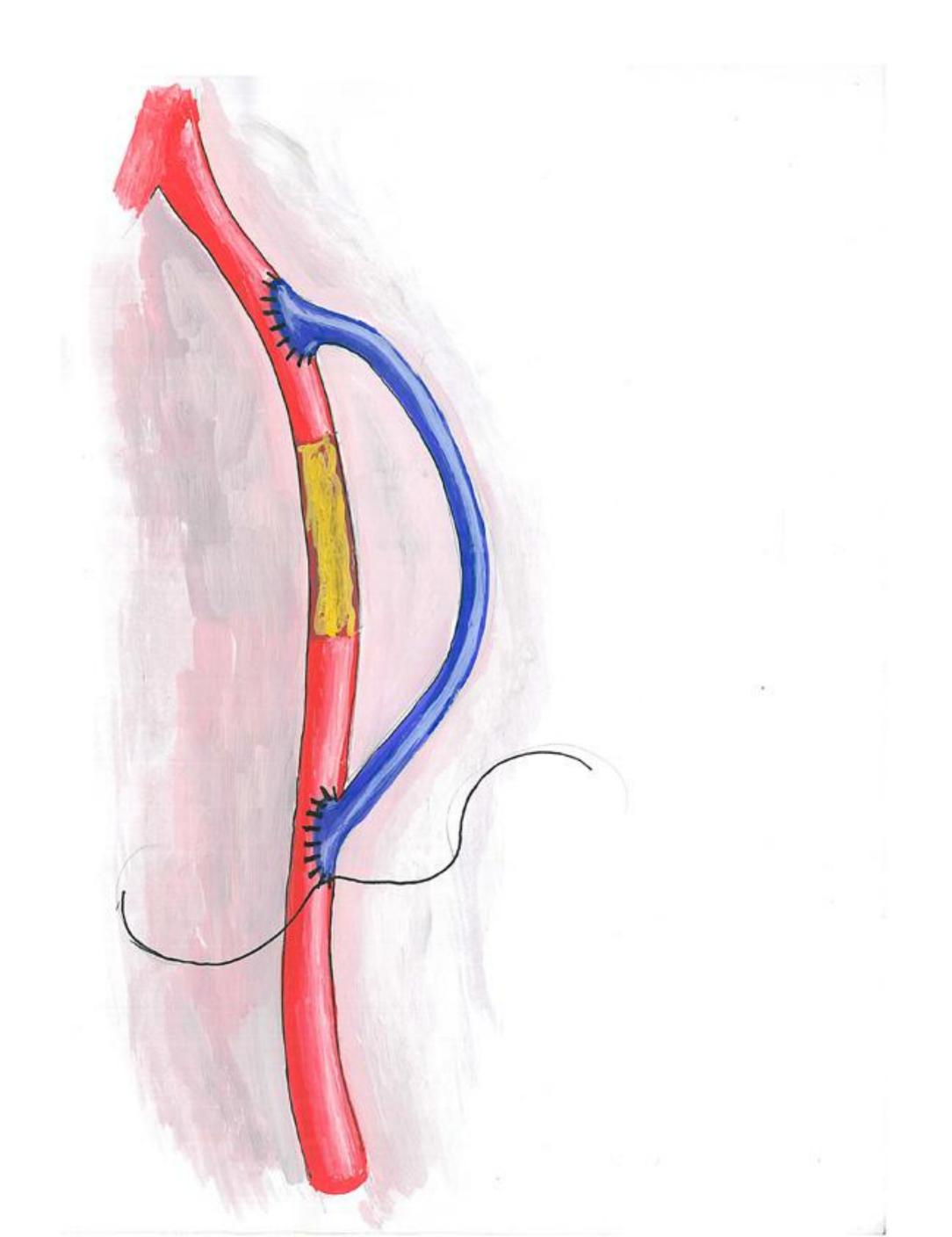
#### Bypass procedures

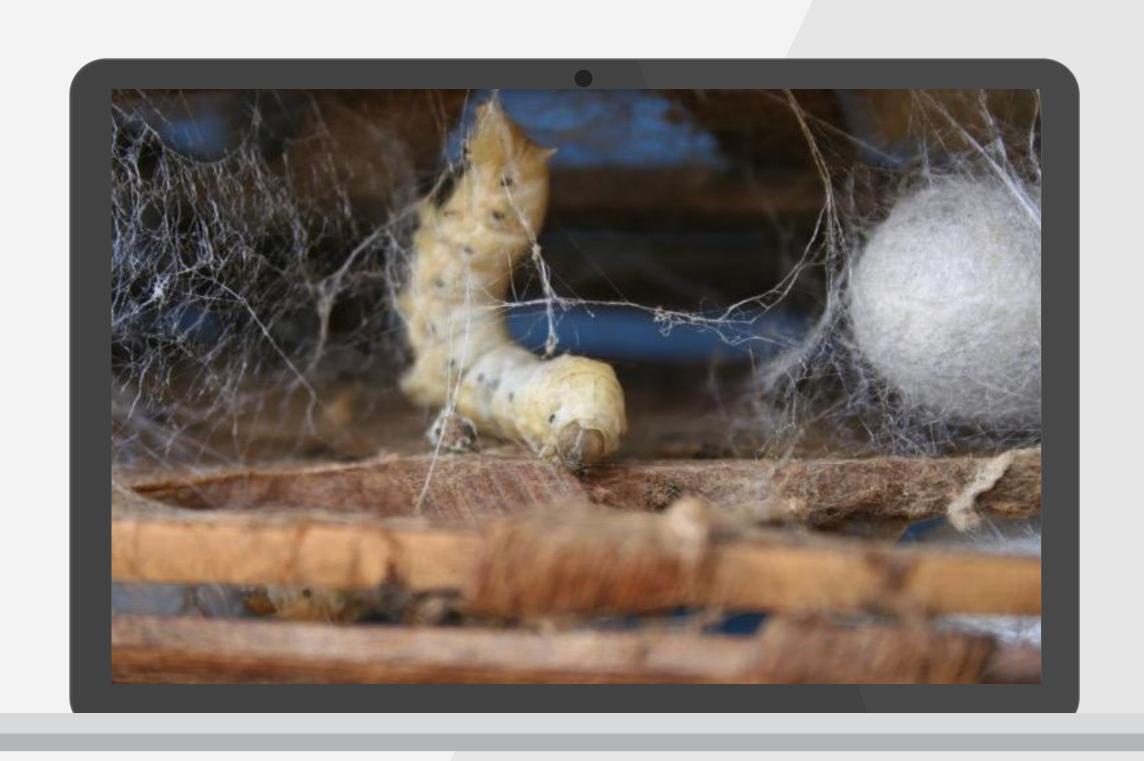


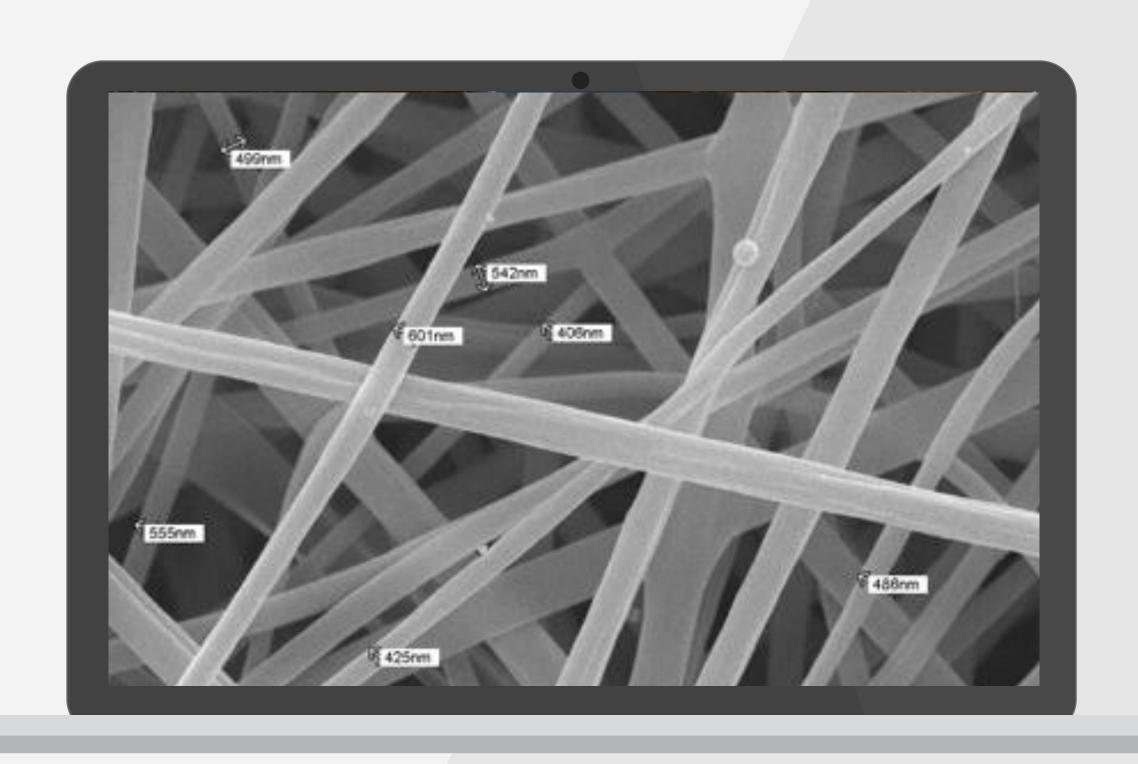
- You could use your own veins
- But most of the time they're **not available**

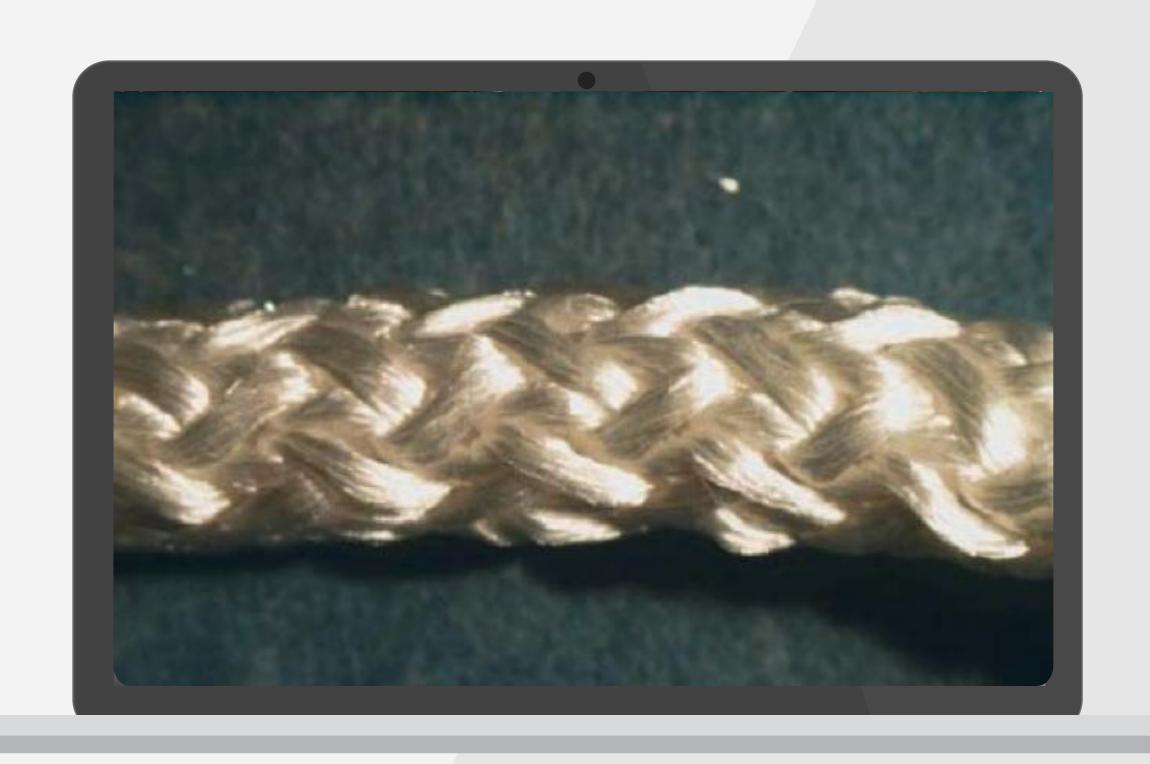


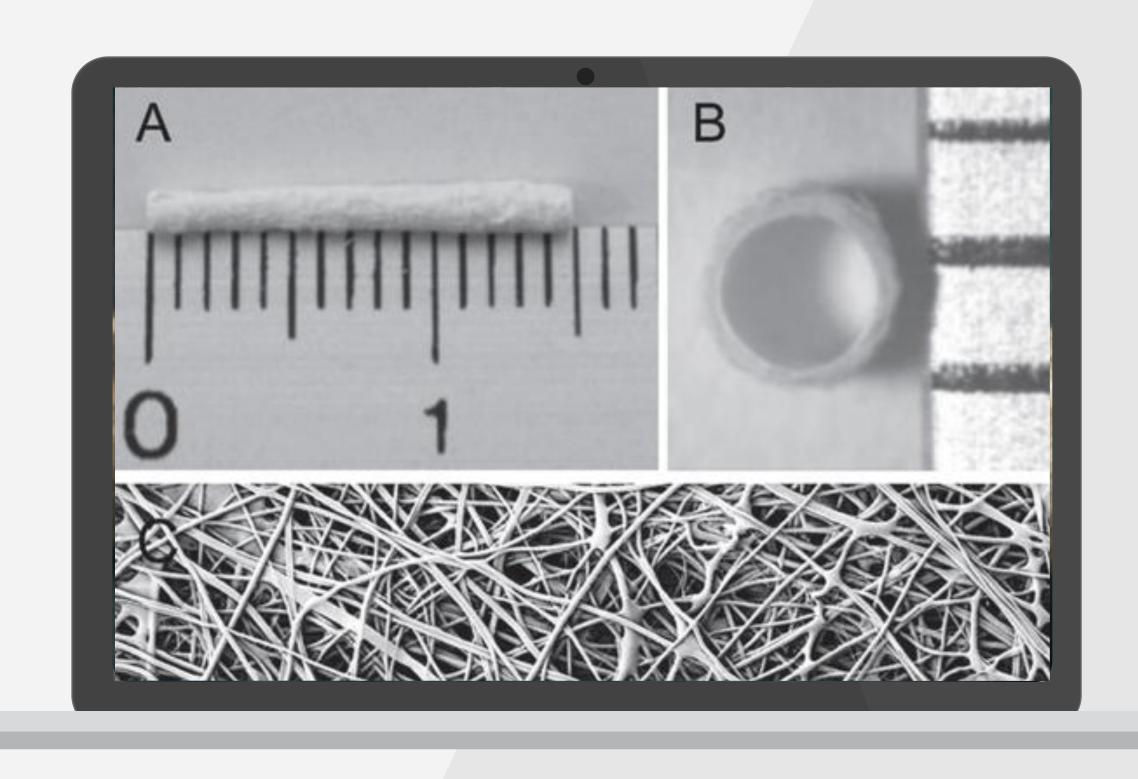
• Or use **synthetic vascular grafts**, which still have important limits: **they simply fail**!

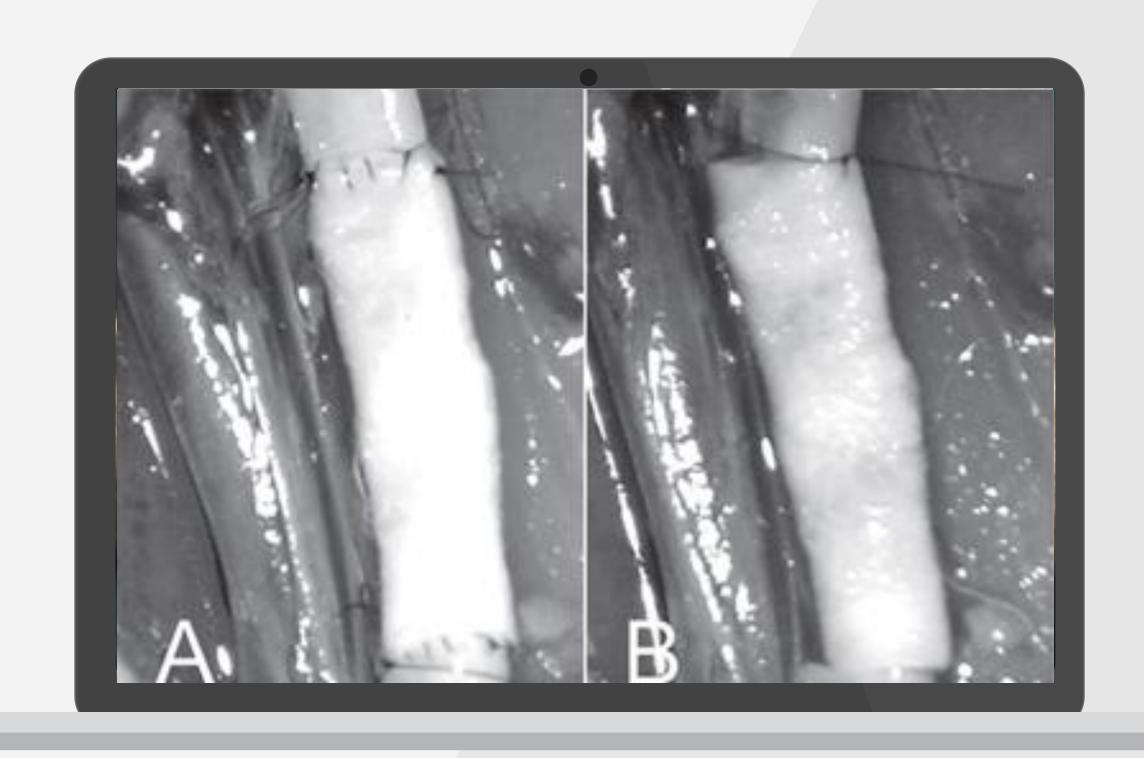


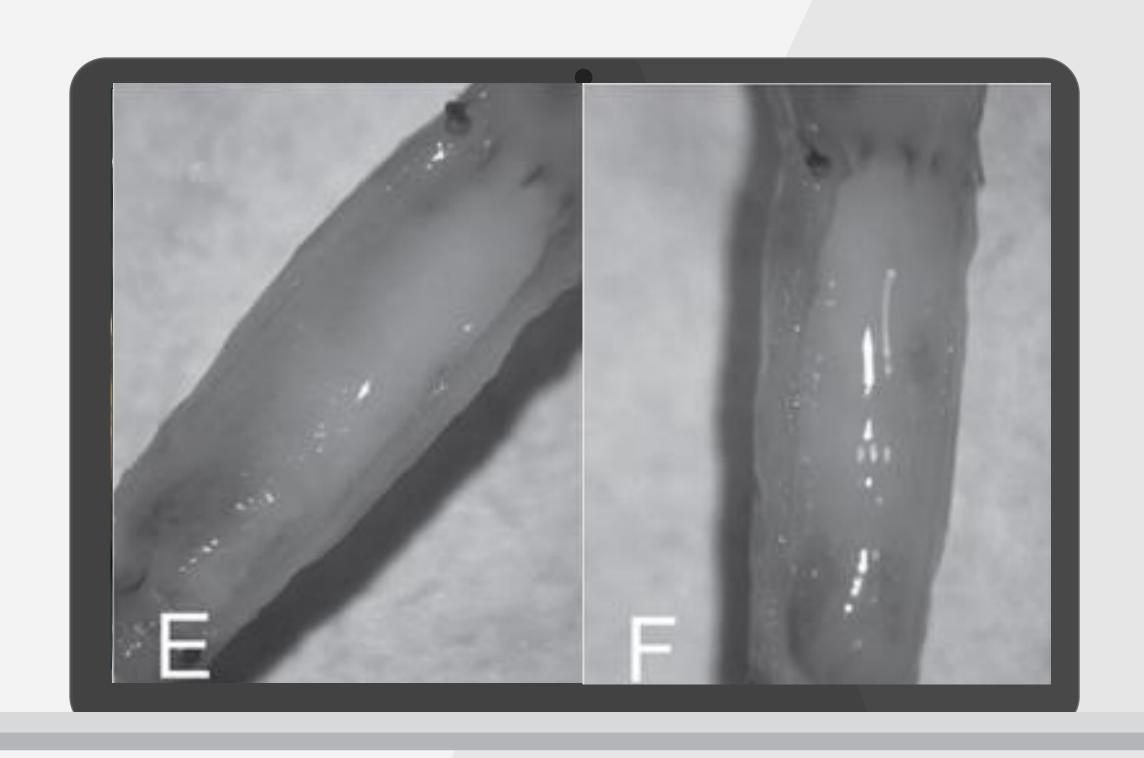








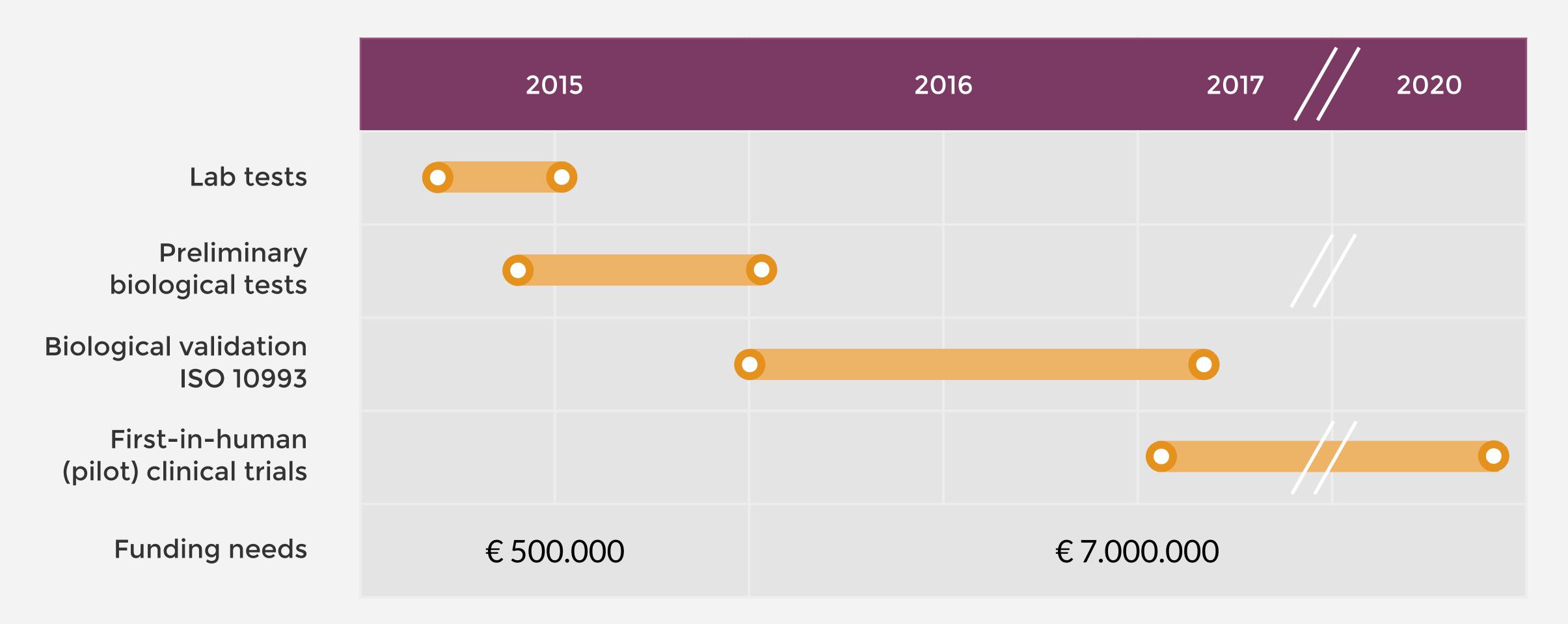




### Silk: a "gifted" material



#### Regulatory path



Already creating partnerships with consultants and CROs to prepare the **clinical evaluation plan**, following in parallel the CE Mark (Notified Body, etc.) and FDA (pre-IDE, etc.) paths

The market

\$90Bn market for tissue engineering in 2016

+20% CAGR ('12-'18) in cardiology & vascular

\$9.7Bn/yr CABG market in OECD countries\*

\$4.1Bn TEVG addressable market\*\*

<sup>\*</sup> the estimated price of a coronary bypass surgery on average across 24 OECD countries was about USD 17'400 in 2011

<sup>\*\*</sup> based on an average 3.3 grafts per procedure and an ASP \$1'580/graft, as estimated via interviews and market research

#### The core team



Antonio Alessandrino

Chief Engineer
Ph. D. in Materials Engineering
Several patents published



Gabriele
Grecchi
Chief Executive Officer

MBA at INSEAD Life science venture investor



Giuliano Freddi

Chief Biologist
Ph. D. in Biology
140+ peer-reviewed papers published



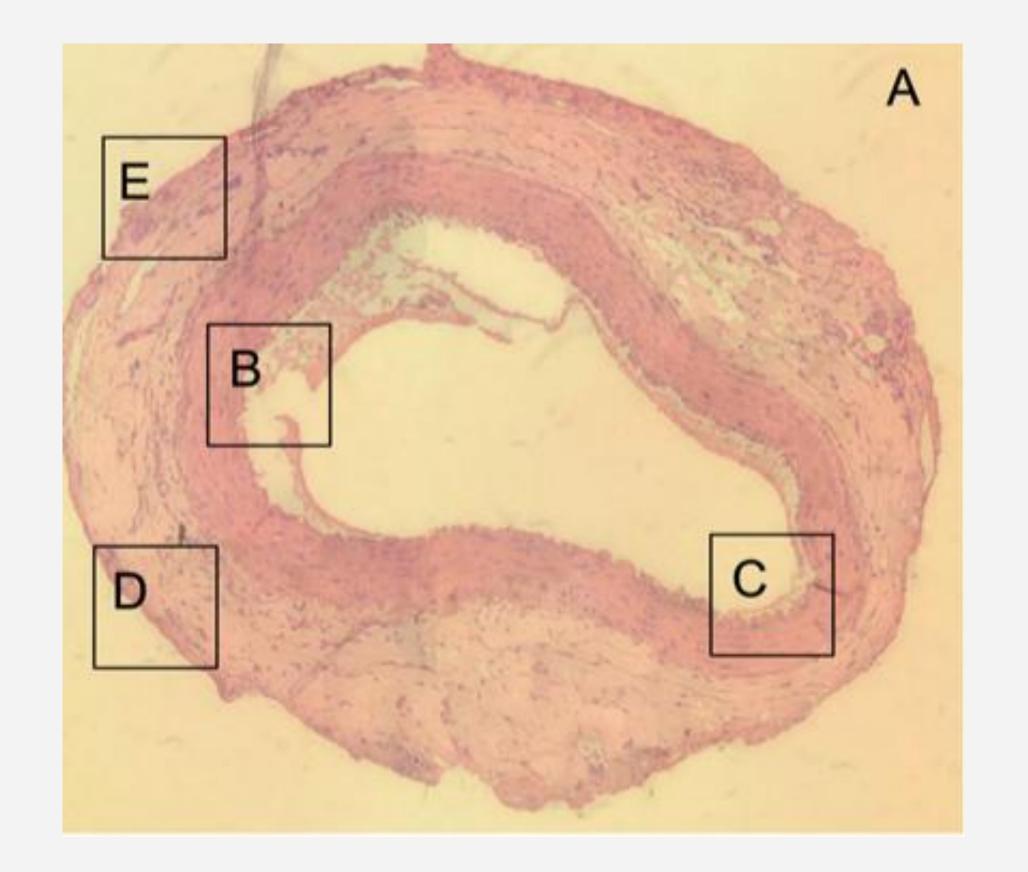
Lorenzo Sala

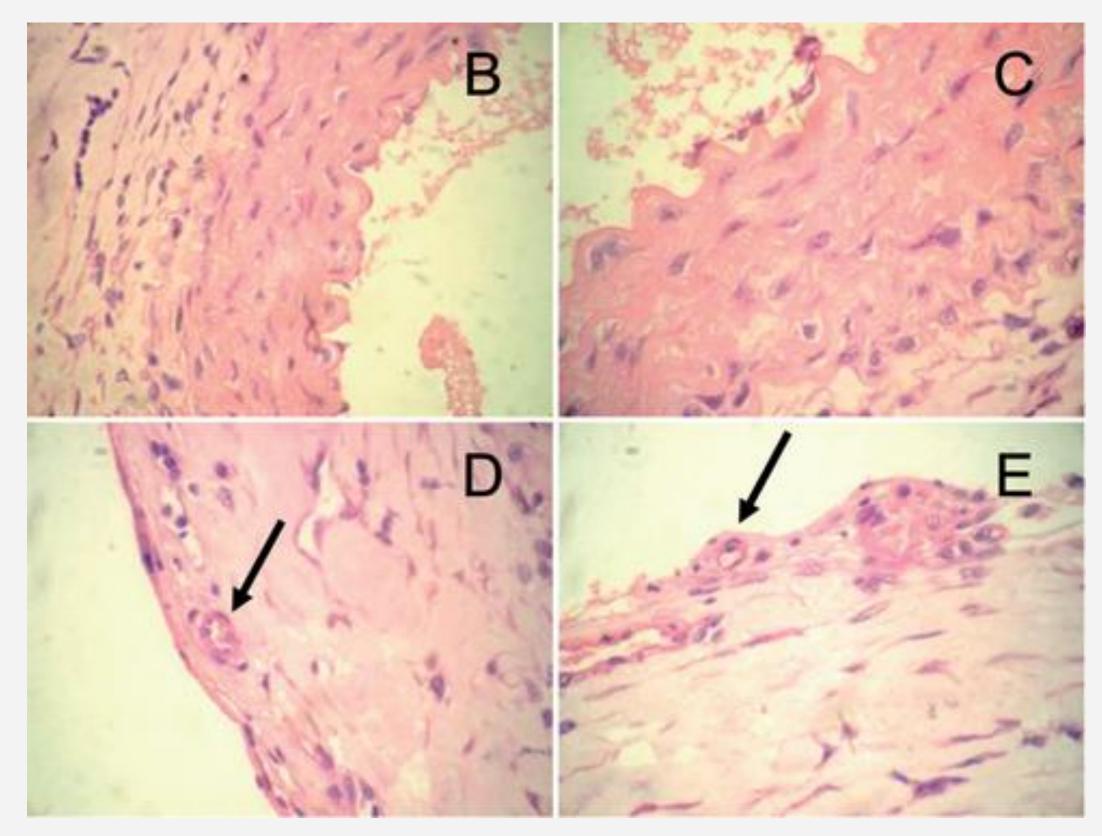
Process & operations Master Degree in Management Engineering at Politecnico di Milano



The global top experts on silk as a biomedical tool

#### Amazing results





- 1. Cellular intimal layer similar to the natural tunica intima
- 2. Vasa vasorum (D,E: black arrows)
- 3. Cells in all the thickness

# Amazing results

