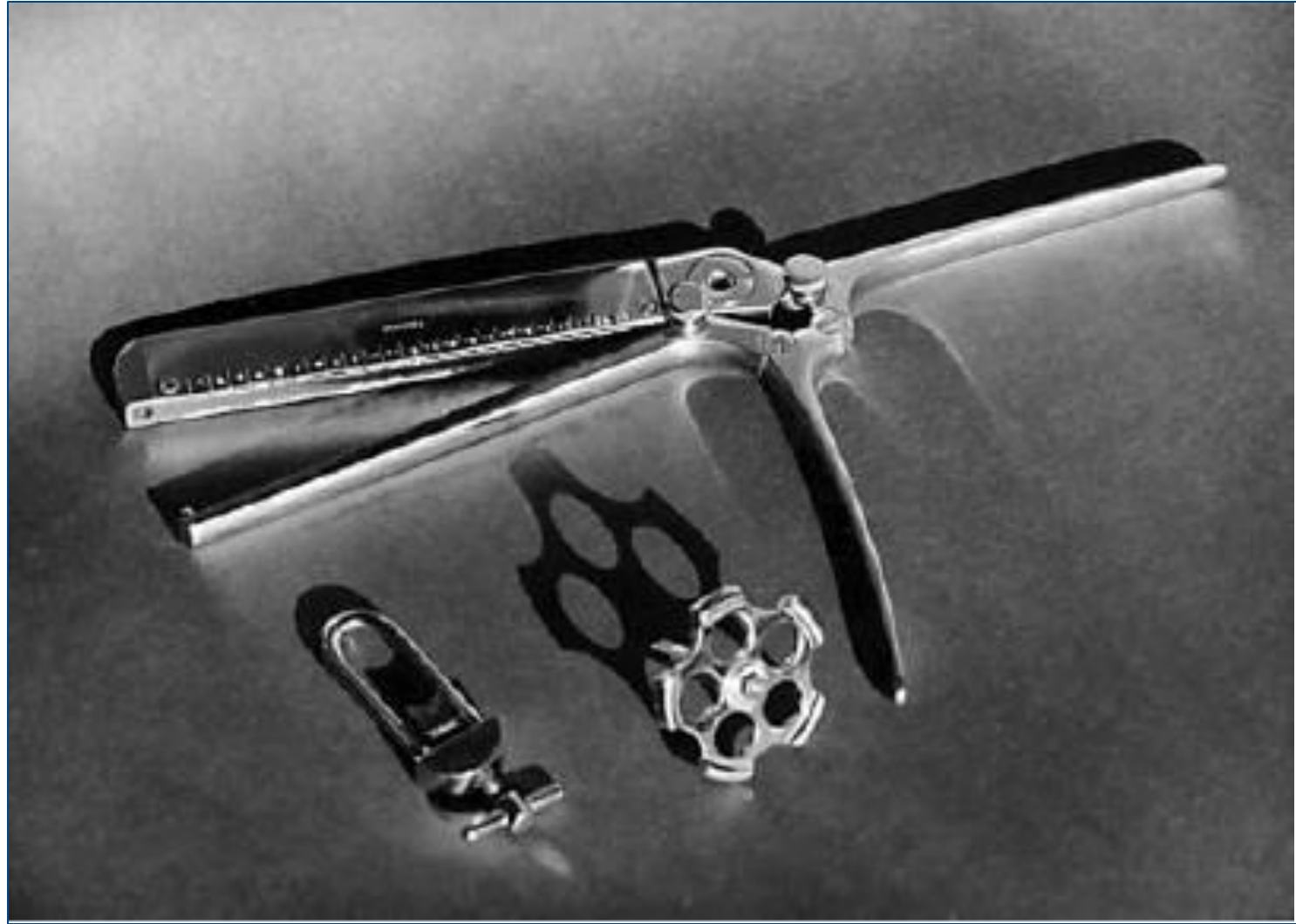


MGMCM Conference and Material Fair 2024

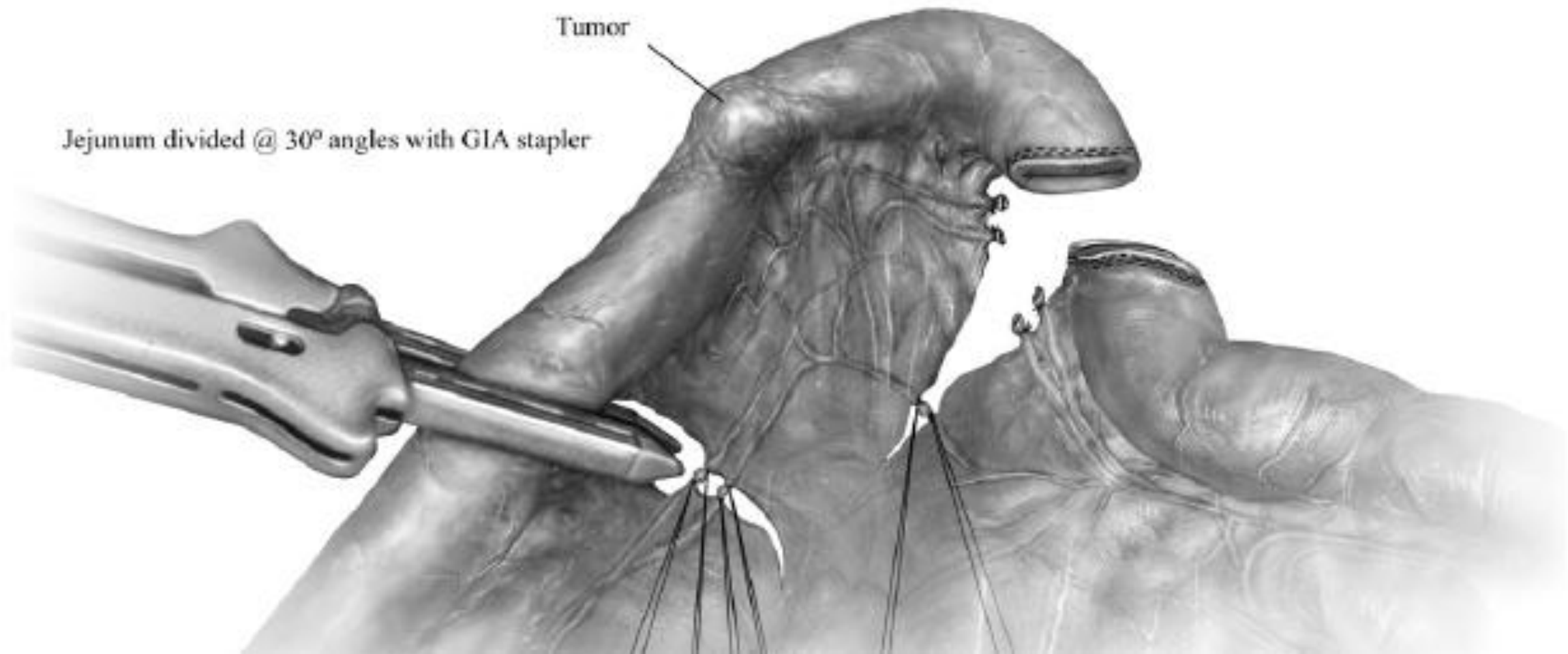
Device Review

Jason Harris, PhD
Engineering Fellow, Front End R&D





USSR
Circa 1952

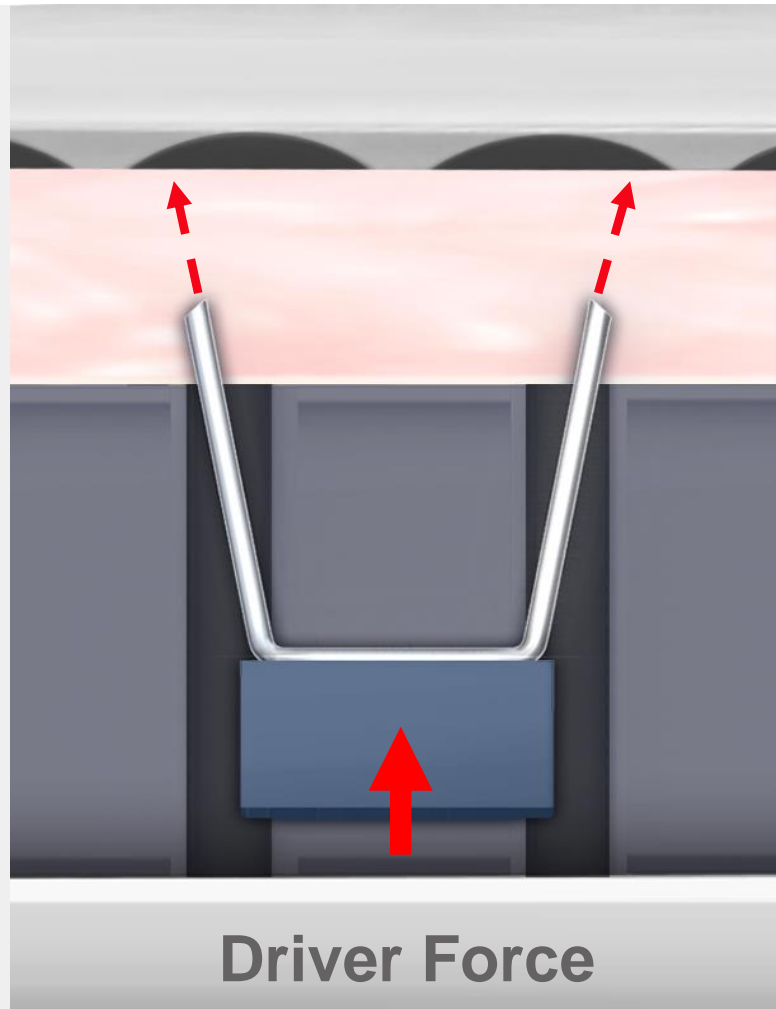


Jejunum divided @ 30° angles with GIA stapler

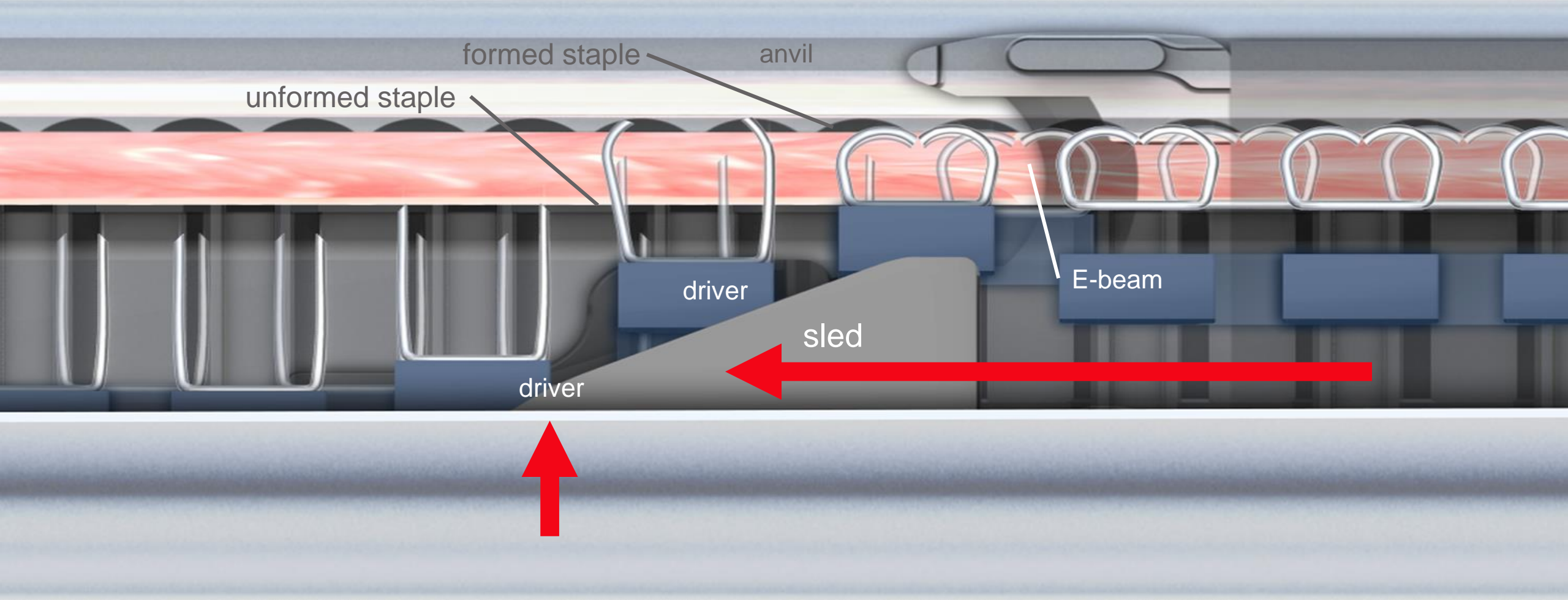
Tumor



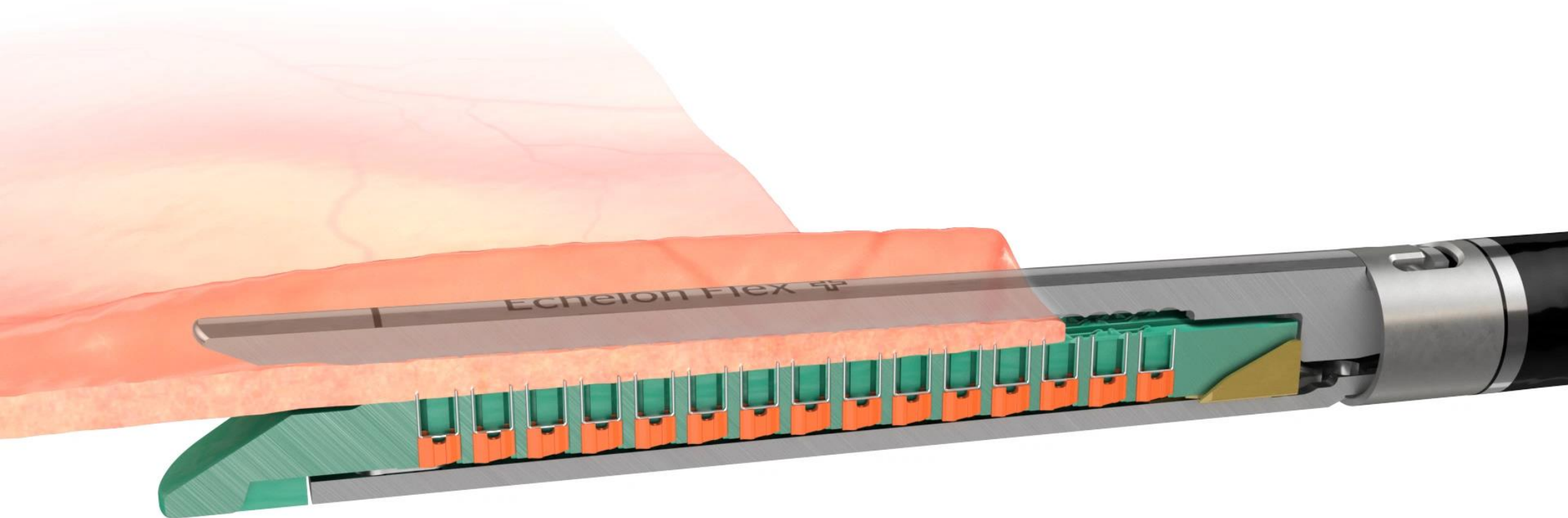
Primary Goal: Make the staple legs hit the anvil pockets



The Basics of Staple Formation



Laparoscopic Stapler Firing







Customers and patients face serious burdens from complications

Surgical complications can be devastating for patients and customers.

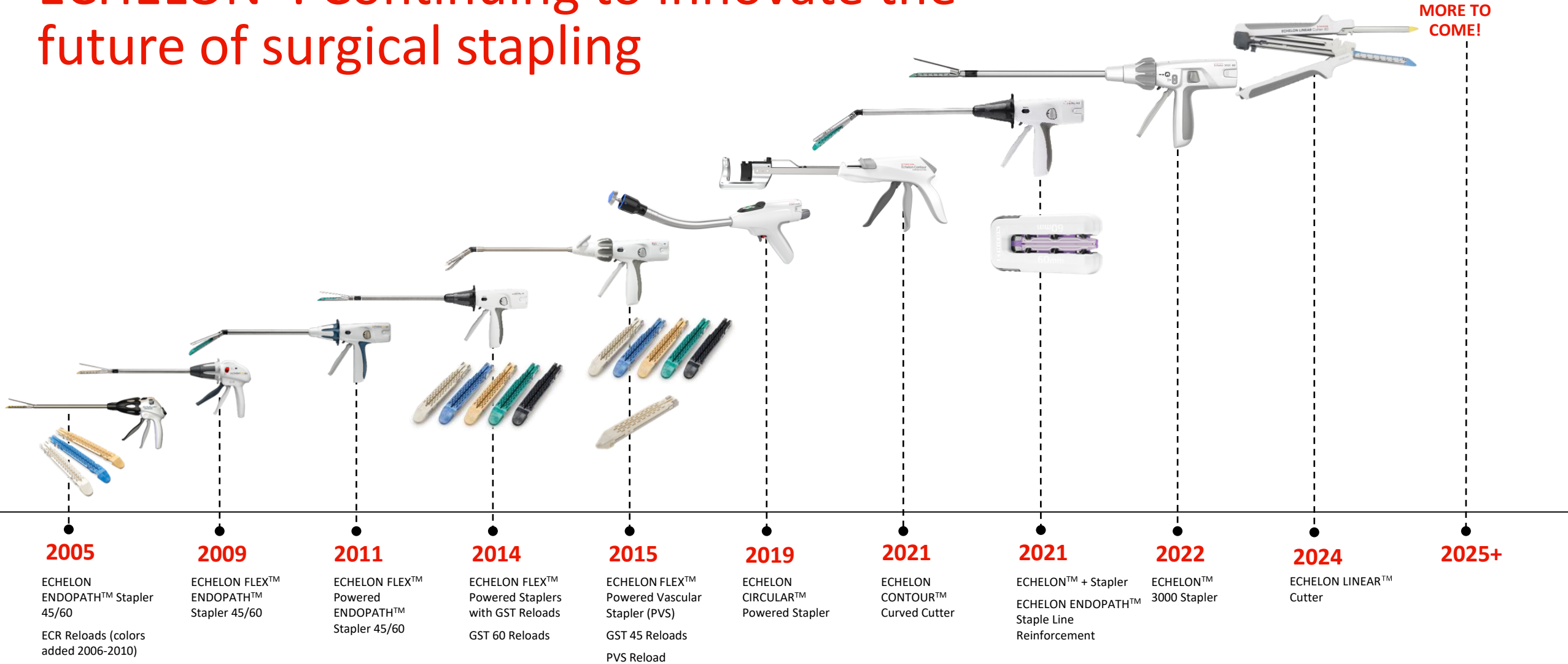
The complication burden associated with transections is \$3B in the U.S. alone and is highest in cancer procedures. \$6-8B globally

Key contributing factors are access to anatomy and tissue conditions.

\$3B complication burden associated with transections in the U.S.

	Major complications	Tissue conditions
 Thoracic	<ul style="list-style-type: none">• Air leaks• Bleeding \$470MM	<ul style="list-style-type: none">• Diseased tissue impairs sealing• High tension on lung tissue• Fragile vascular structures
 Colorectal	<ul style="list-style-type: none">• GI leaks• Bleeding \$1.8B	<ul style="list-style-type: none">• Ischemic risks• Tension on anastomosis• Diseased tissue
 Bariatric	<ul style="list-style-type: none">• Gastric leaks• Bleeding \$81MM	<ul style="list-style-type: none">• Thick, dense tissue• Blood supply• Healing challenges in diabetic tissue
 Solid organ	<ul style="list-style-type: none">• Leaks• Bleeding• Liver failure \$566MM	<ul style="list-style-type: none">• Cirrhotic/scarred liver tissue• Tissue sparing critical for function

ECHELON™: Continuing to innovate the future of surgical stapling



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Thank You

