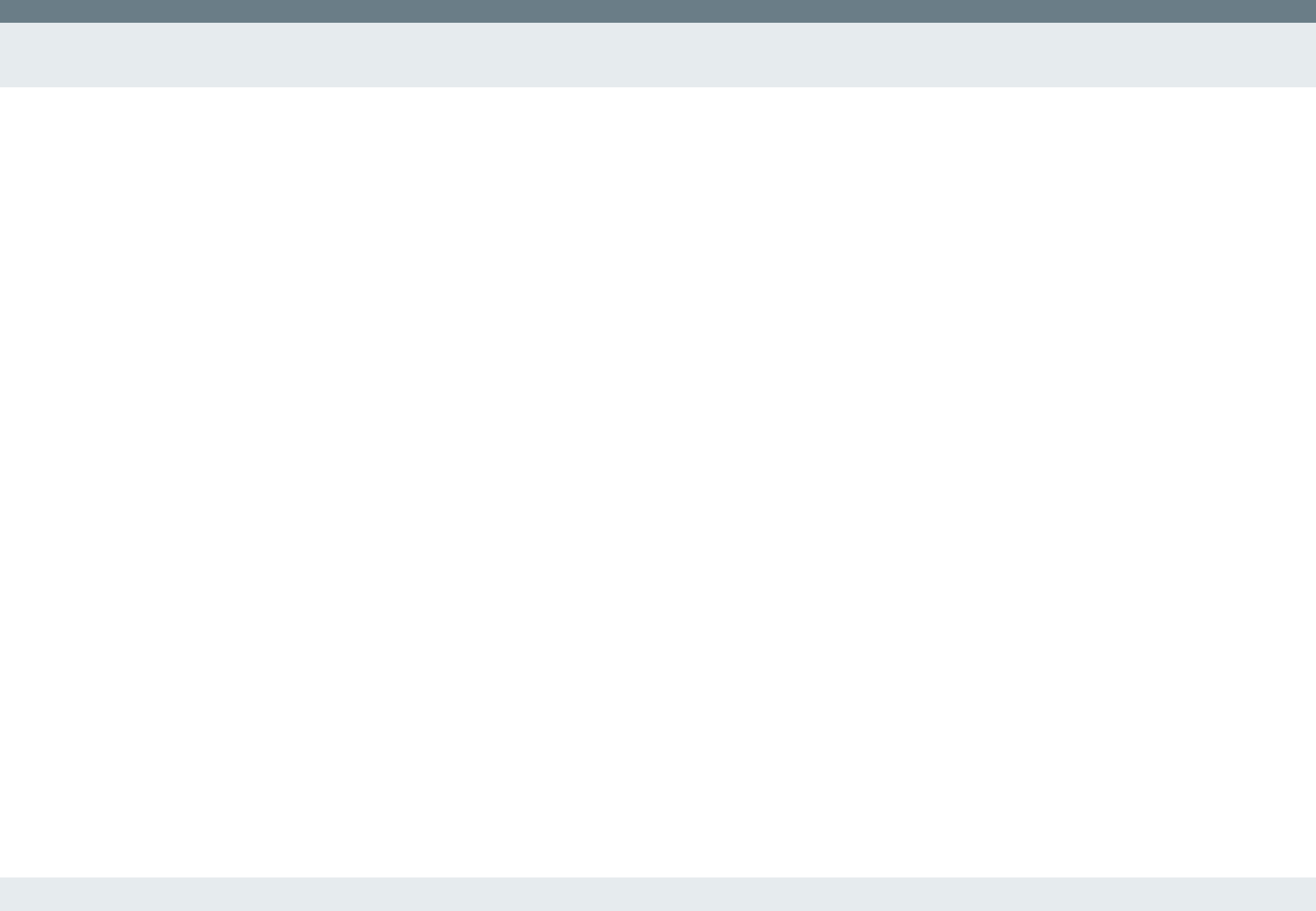
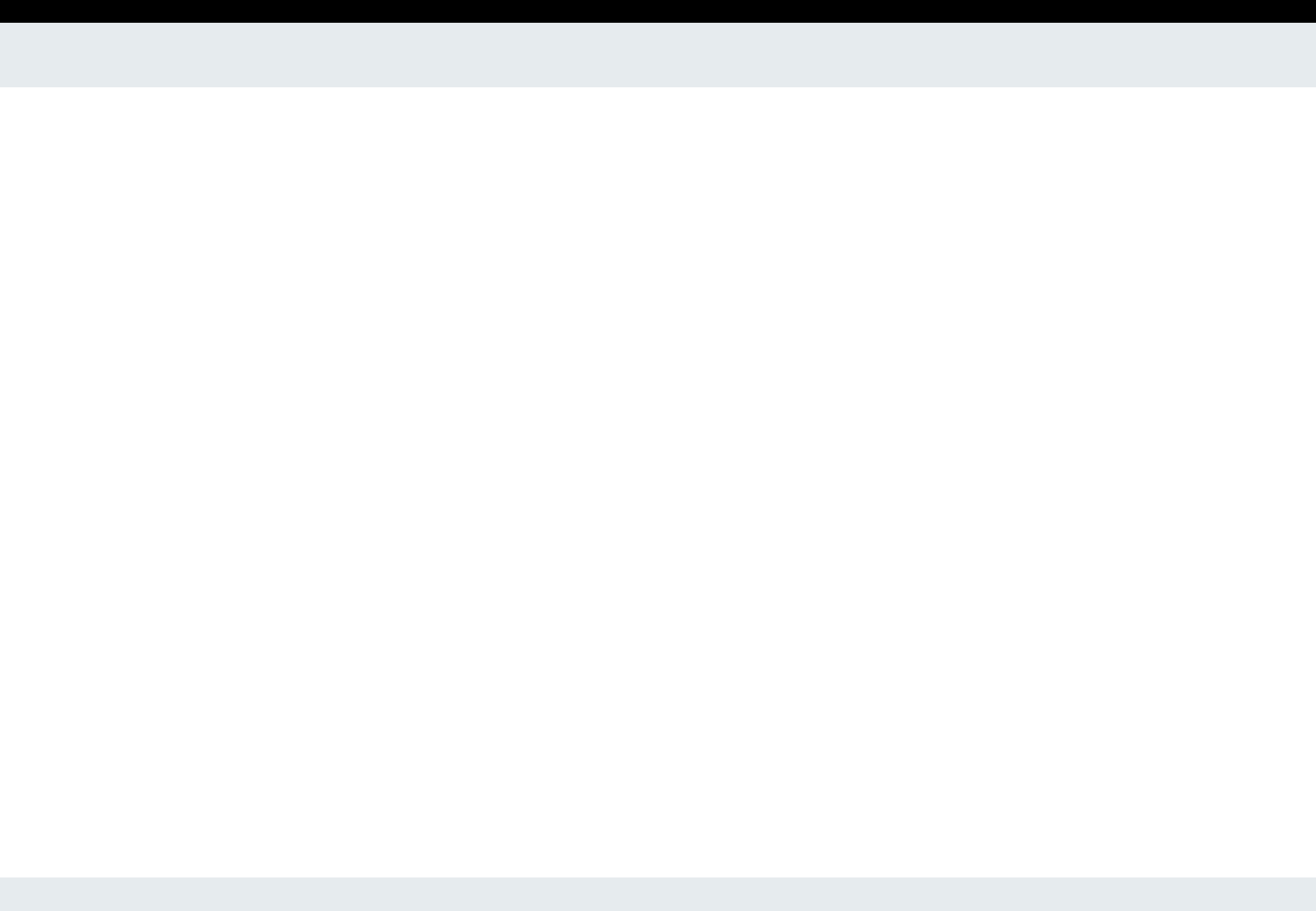


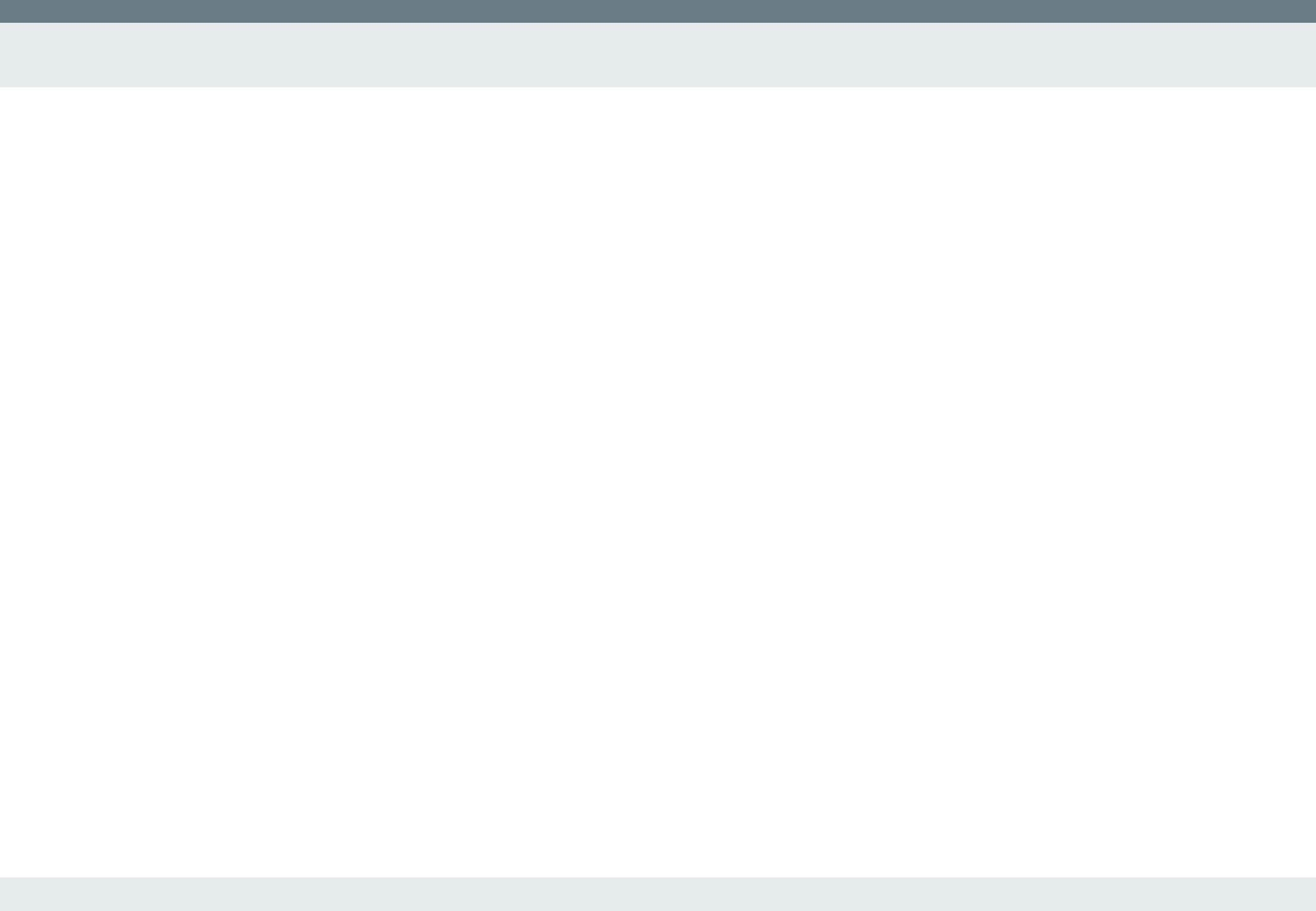
Create New Value

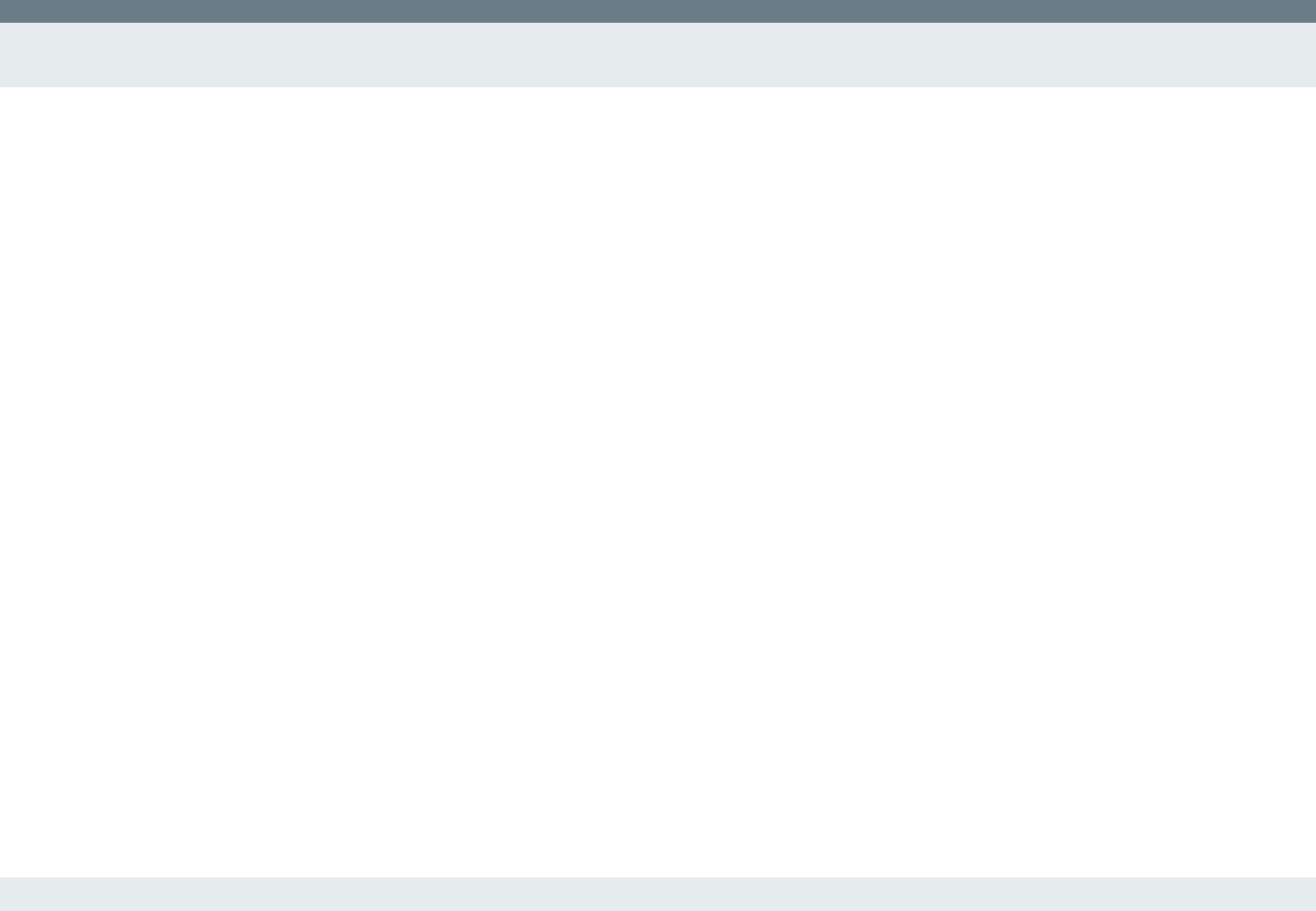
Morgan Stanley | Q3 2017 | Revenue | \$10.1 billion | Net Income | \$2.1 billion | EPS | \$1.00

December 19, 2017

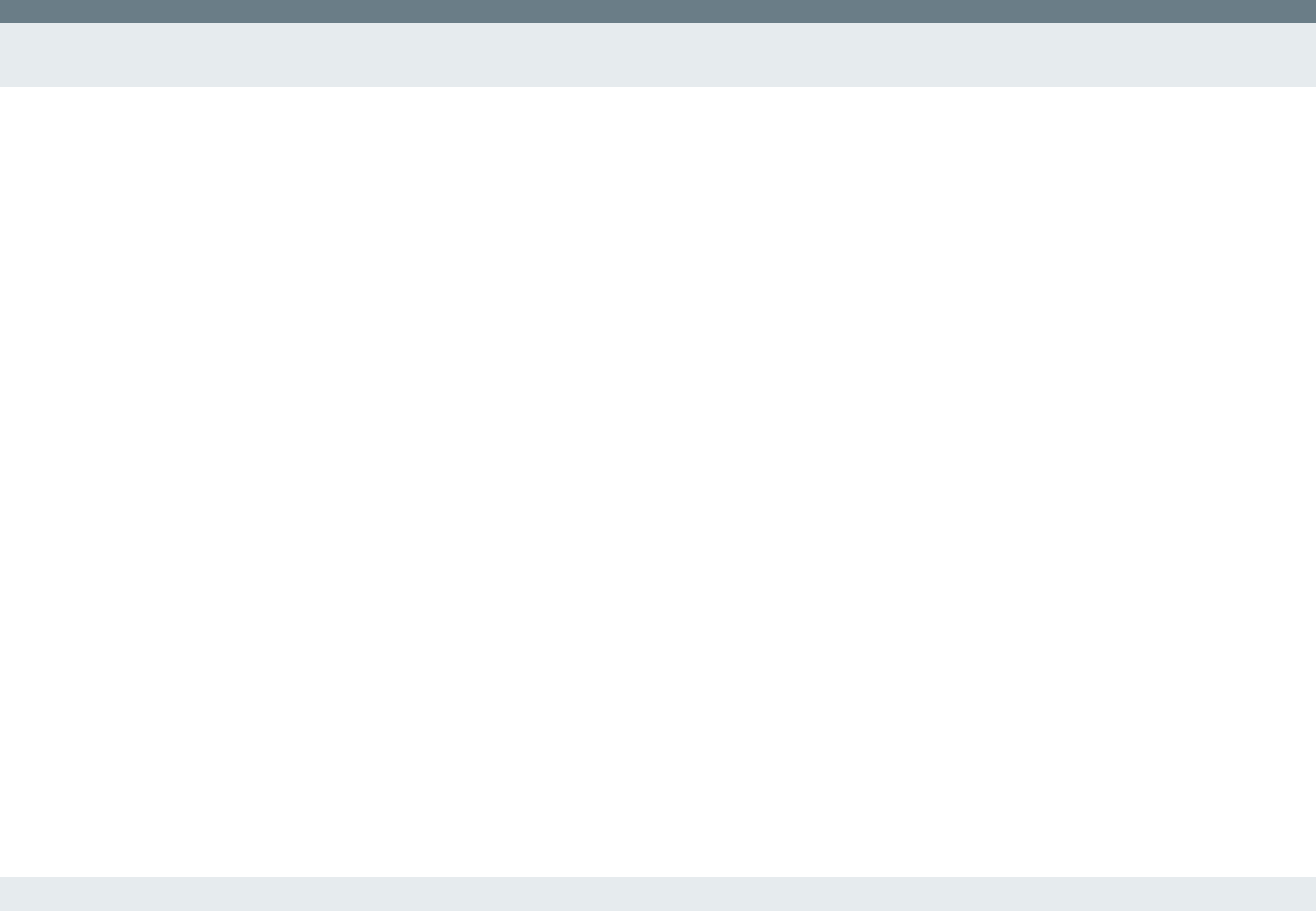






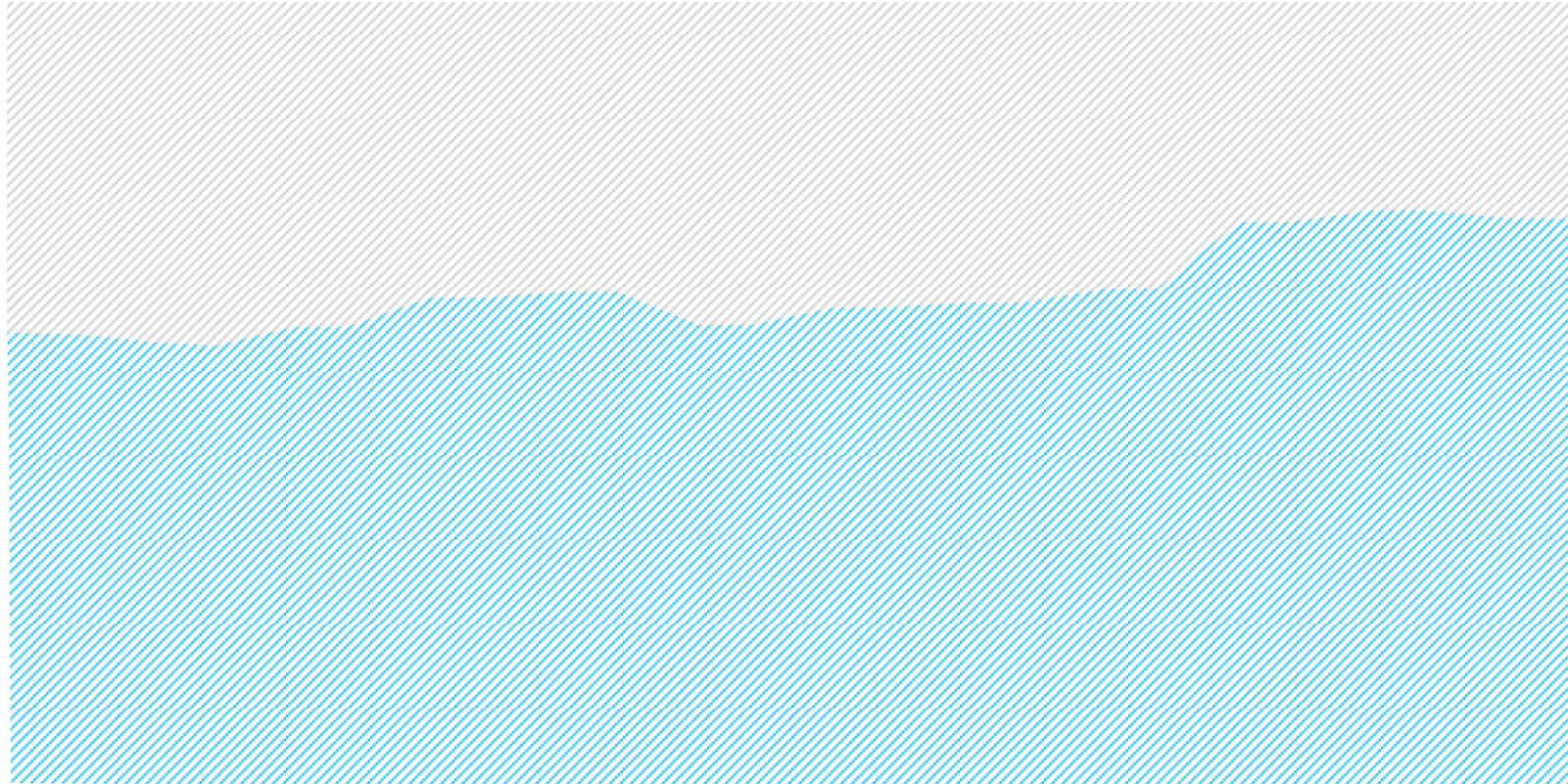




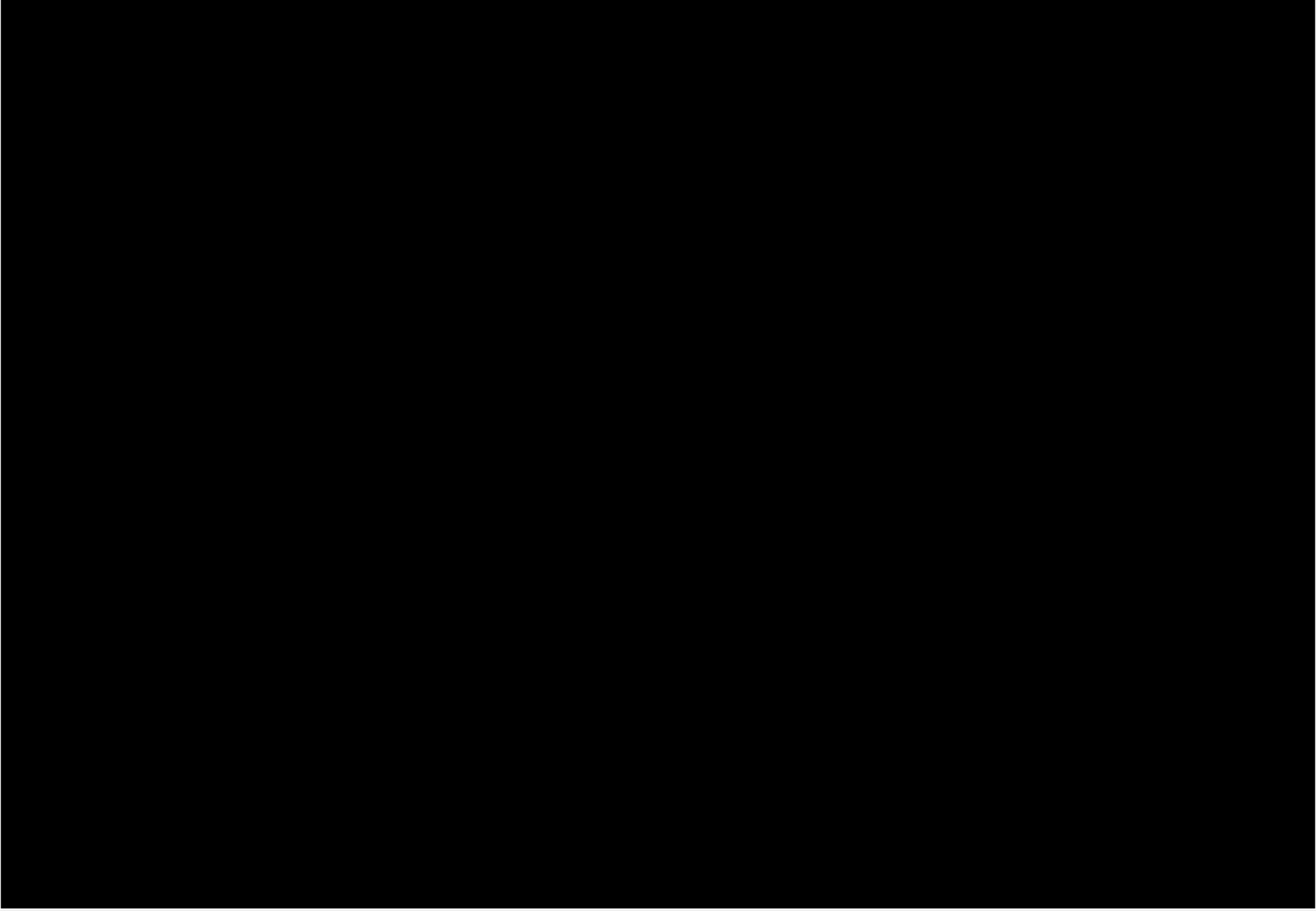




Changes in Our Business Portfolio



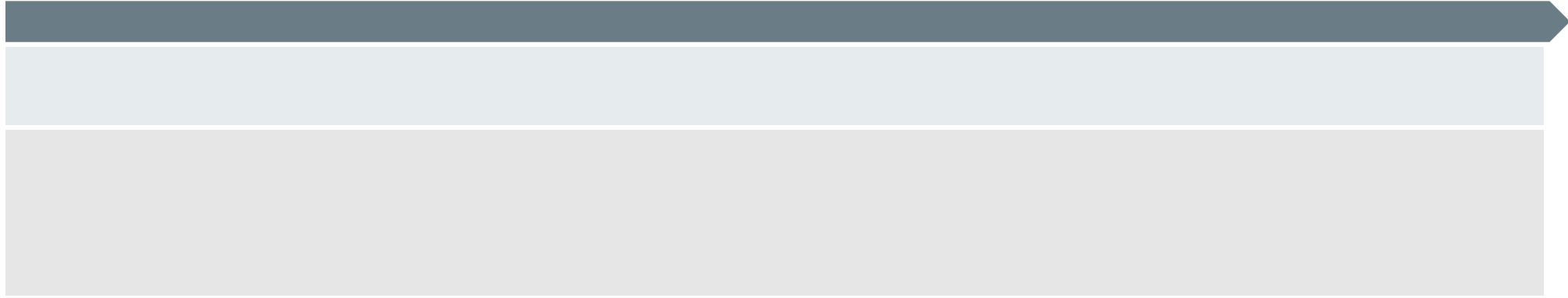




Advantages of aramid coated separators (compared to ceramic separators)

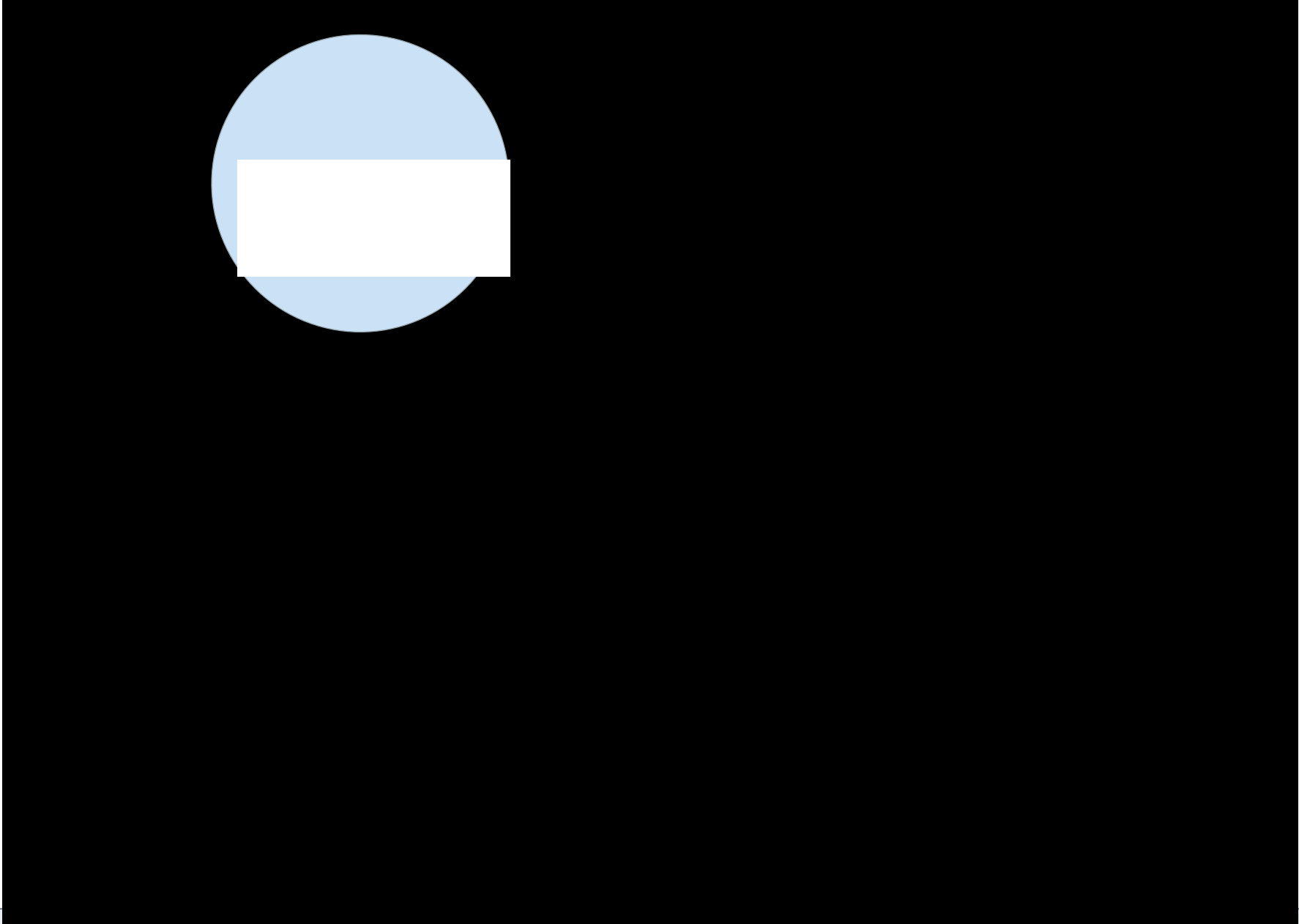
High heat resistance,

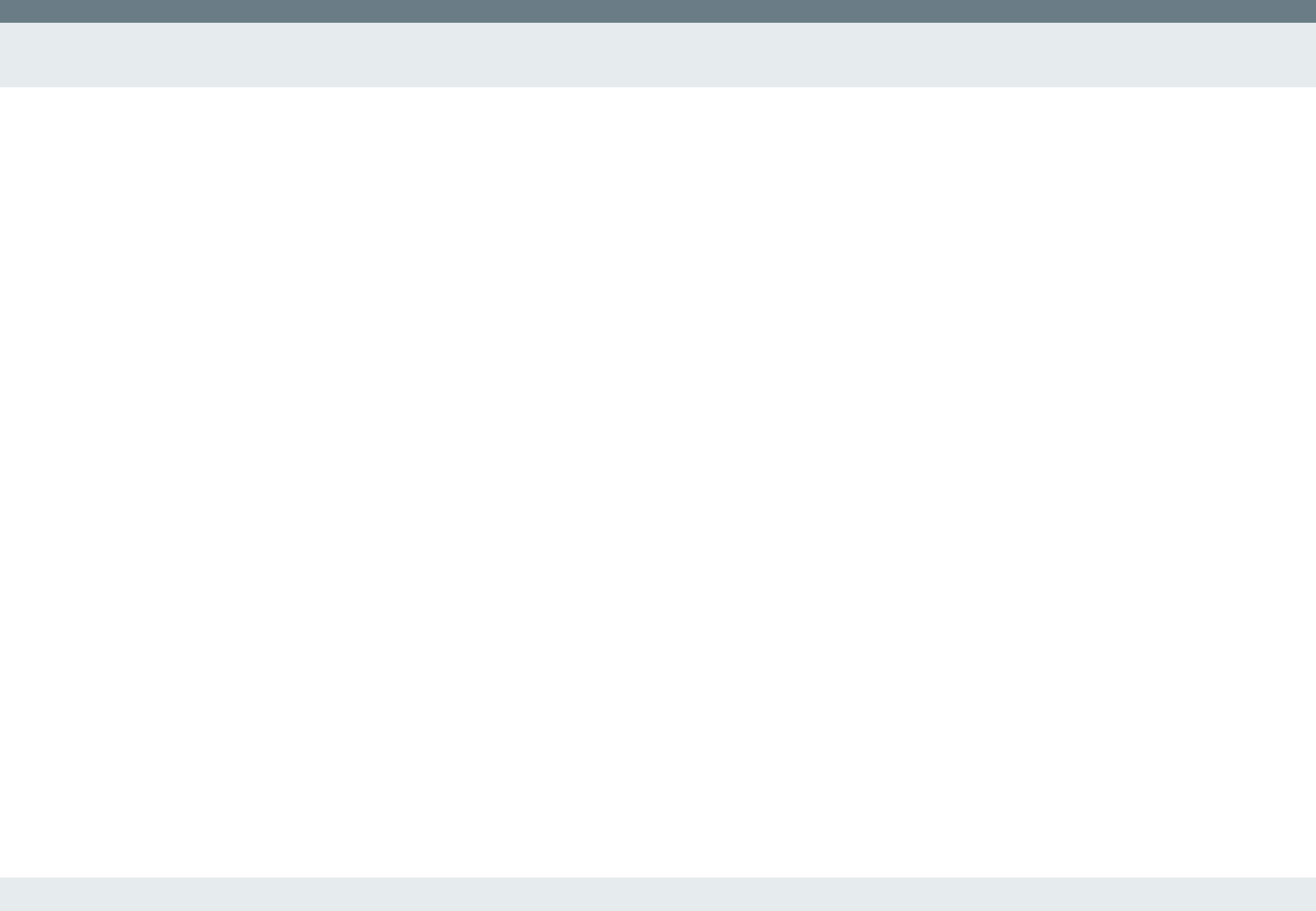
	Future
Japan	Approx. 100 million m ²
South Korea	Approx. 300 million m ²
Total	Approx. 400 million m ²

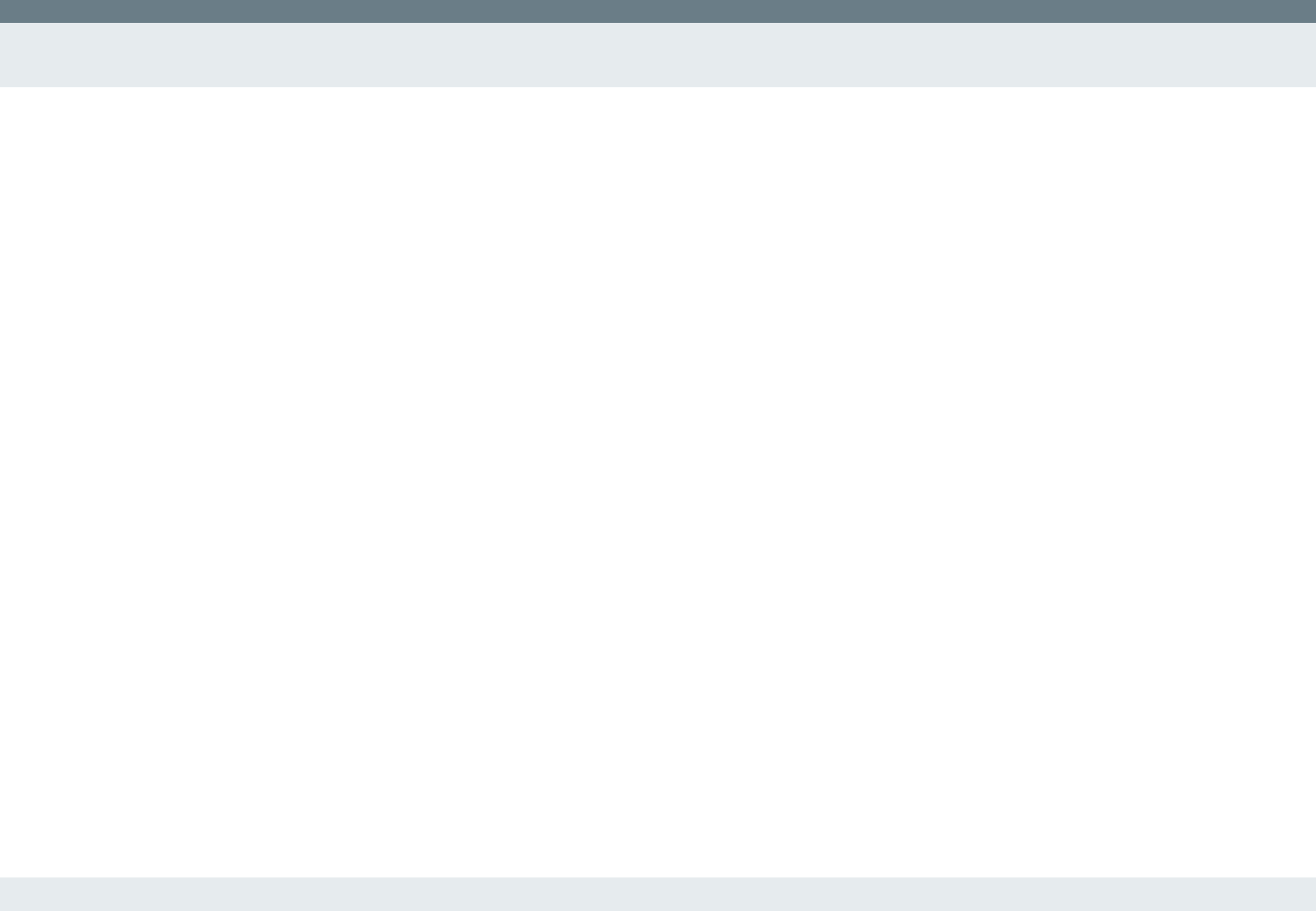


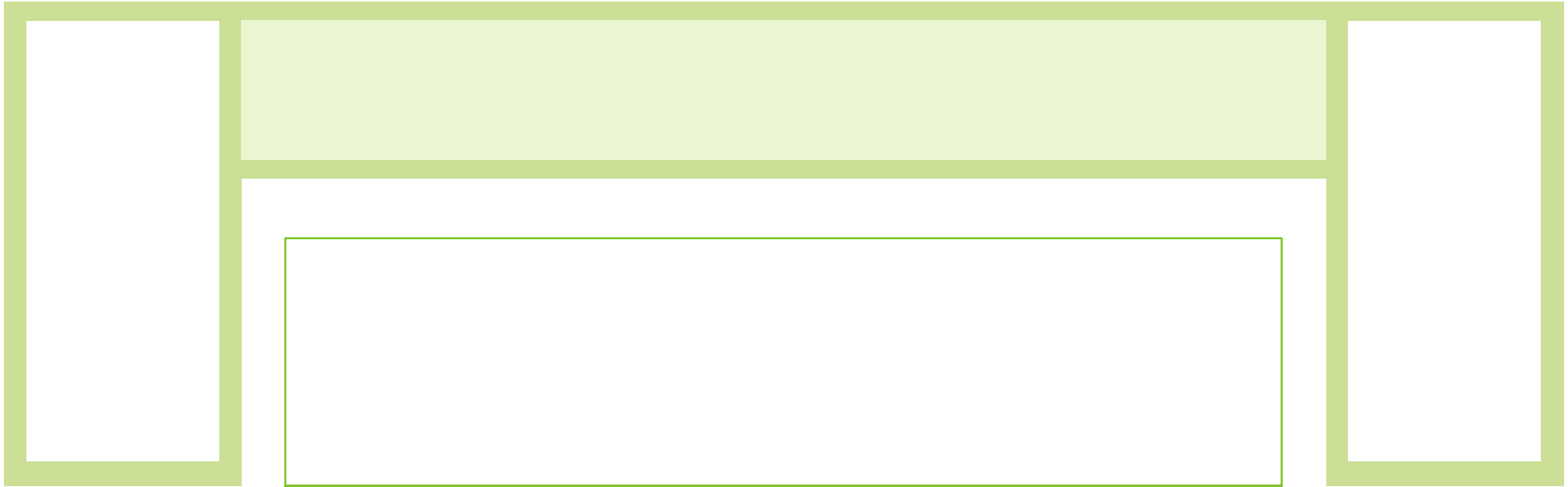
Energy & Functional Materials:

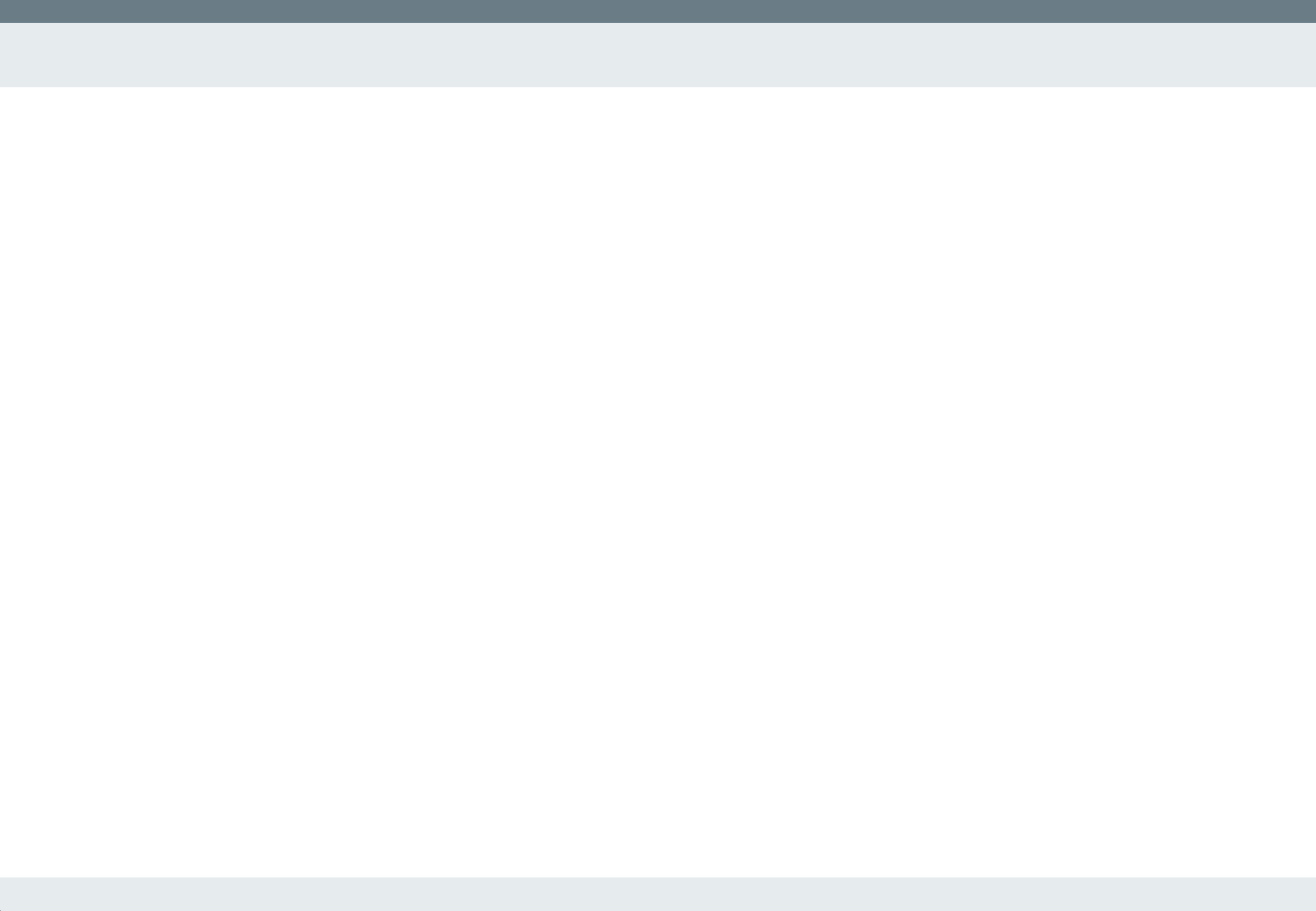
Required Functions for Automotive Components (Besides Weight Reduction)











Initiatives for Maintaining Sustained Growth:

**Applicable fields for
biotechnology**

**Technological revolution in
biotechnology**

