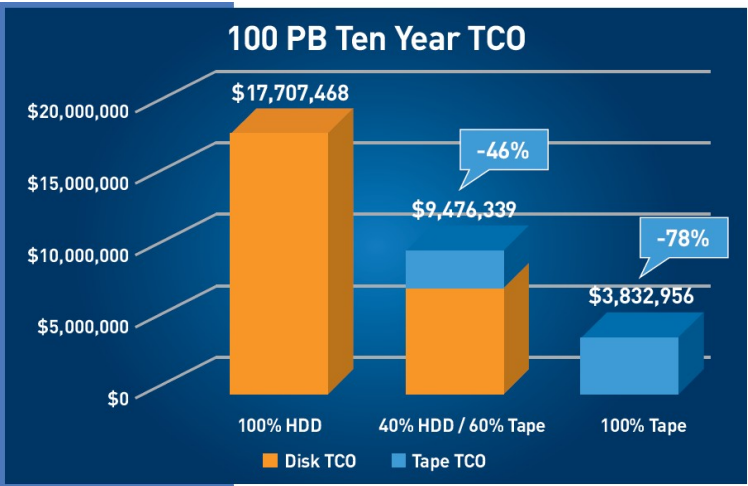


SECTION IV Attachment

Table 1

Tape roughness	Lubricant	Tape surface free energy	Friction of tape	Areal density
Ra= 1.5nm	PFAS	-20 %	Low (Good)	26 Gbps
↓	silicones (Alternative candidate)	-10 %	High (Bad)	- (no practical use)
↓	Alkyl carboxylic acids (used for low recording capacity tape)	Reference	High (Bad)	- (no practical use)
Ra= 2.0nm	↓	↓	Low (Good)	10 Gbps

Graph 1



Graph 2

