

LEOSCOPE: MEASUREMENT USING VOLUNTEER NODES AKA “PLANETLAB FOR STARLINK”



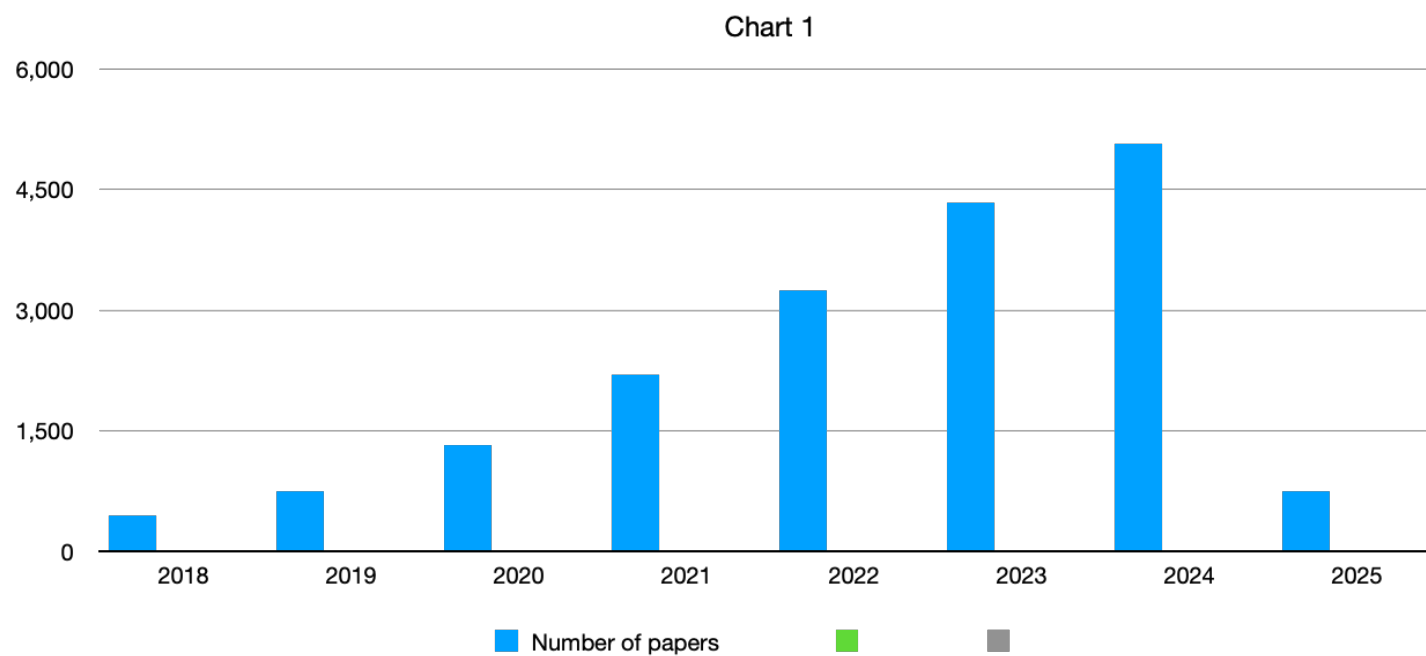
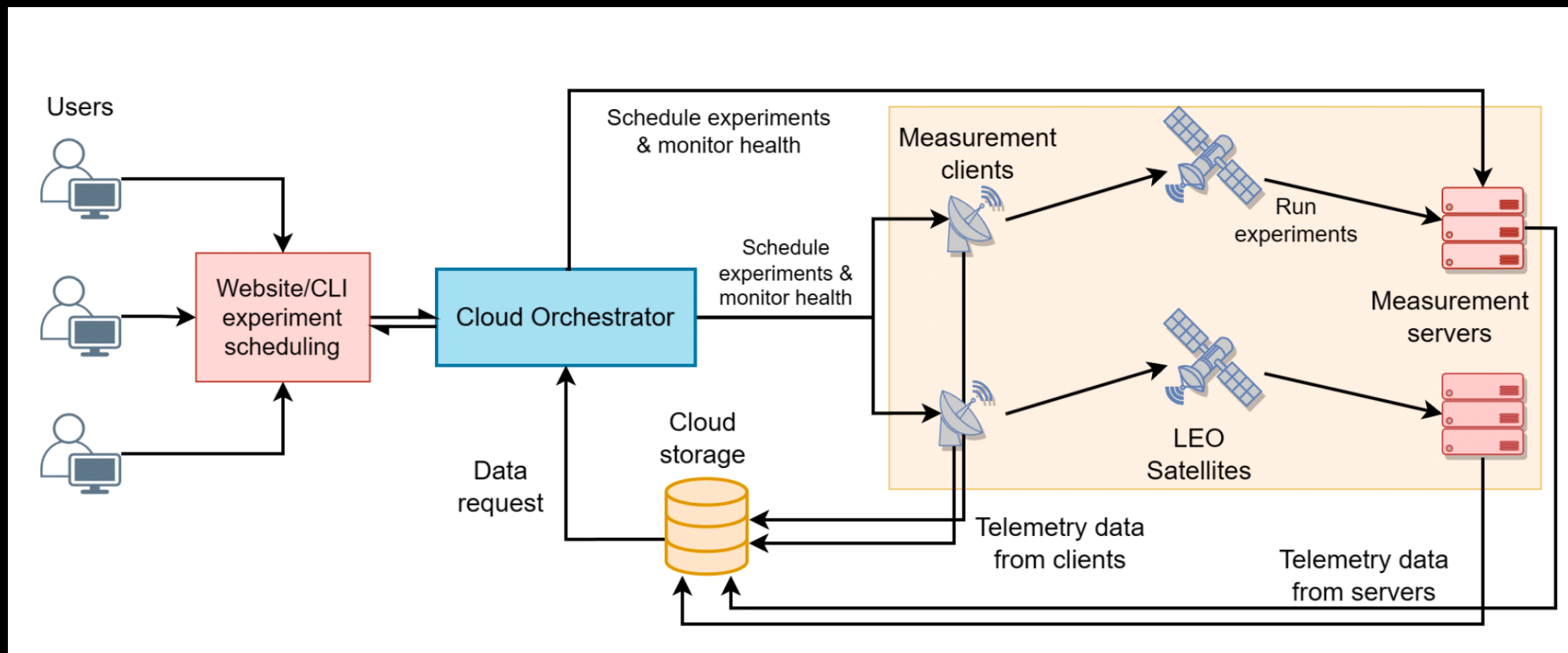


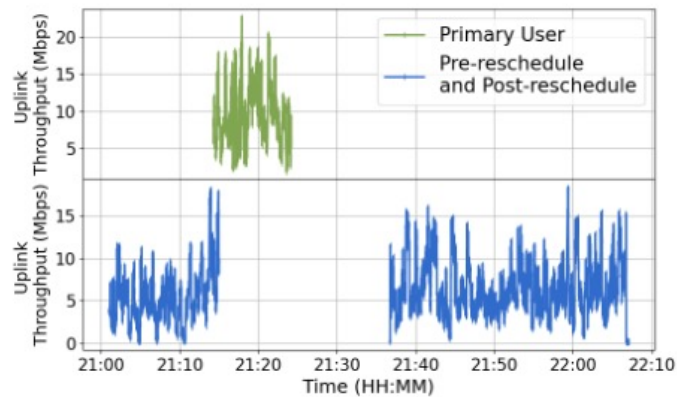
Table 1

	Number of papers		
2018	442		
2019	751		
2020	1,320		
2021	2,200		
2022	3,240		
2023	4,340		
2024	5,060		
2025	751		

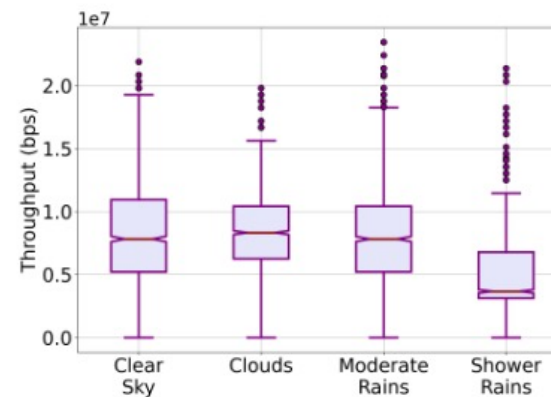
LEOSCOPE ARCHITECTURE



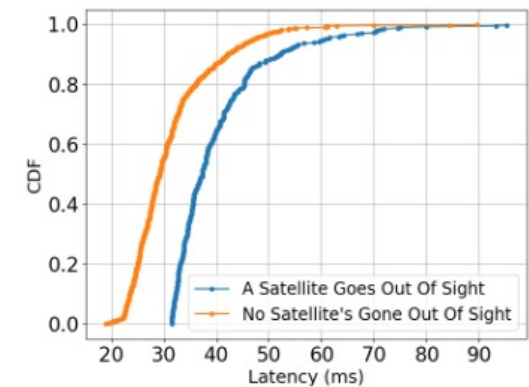
LEOSCOPE IS ADAPTED TO LEO MEASUREMENT NEEDS



(a)



(b)



(c)



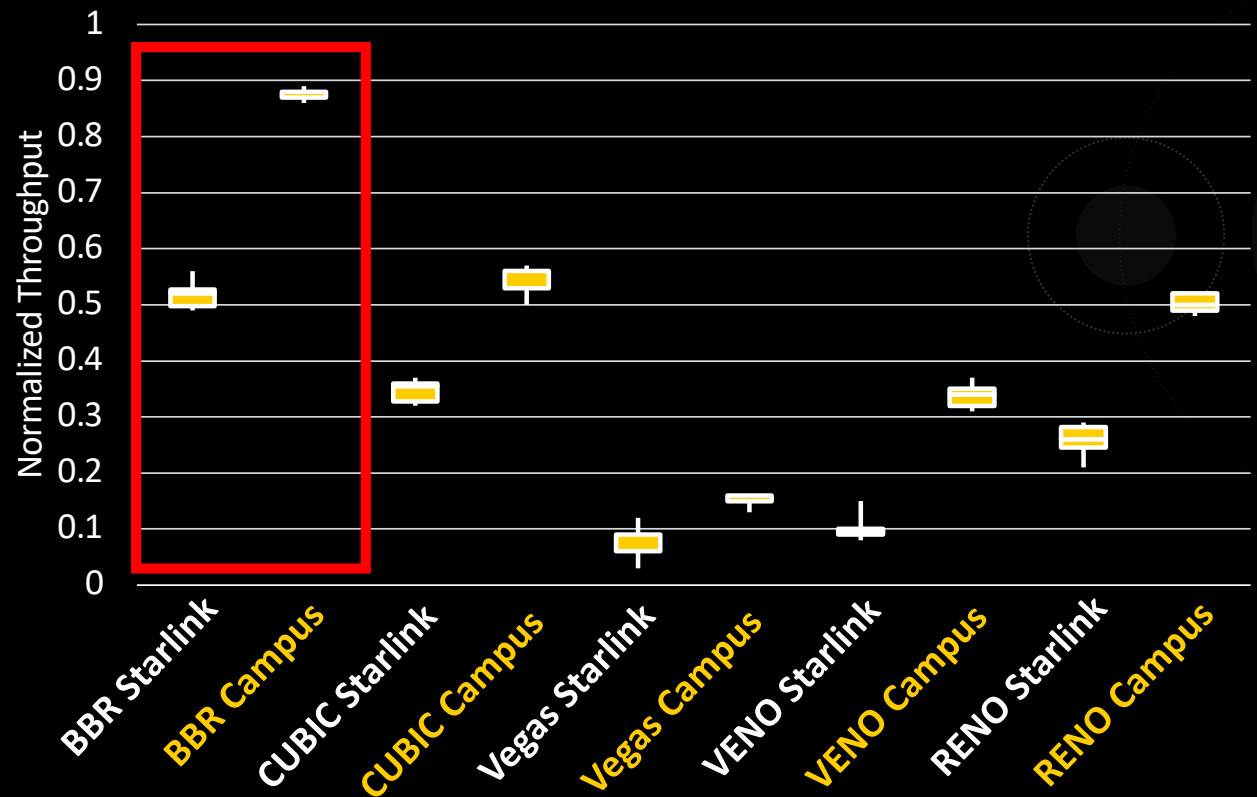
TCP CONGESTION CONTROL ON STARLINK



BBR achieves much higher throughput than the other algorithms.

Yet, it only achieves 50% of the overall capacity

This suggests that perhaps the loss rate on Starlink can be too high, even for protocols explicitly designed for packet losses



YOU CAN HOST A NODE TOO!

Starlink Router

WiFi Router
(Optional)

Power Supply

30 CM

ETH Bridge

Banana CM

RIPE

