

RAVEE OPTICS

Satellite Optical Communications, No Limits

Dr. Piyush J. Shah, CEO
piyush@raveeoptics.com

Dr. Augustine Urbas, CTO
augustine@raveeoptics.com



PROBLEM

- User demand drives on orbit data volume
- Small sats can generate 10s-100s TB of data
- Low data availability

Market Pressure

To incorporate free space optical comm

10x
Increase

Orbital Data
Traffic in 2030



Data to users is the value of small sats

SOLUTION

Conventional Laser Link

~ 26 Liters
> 20kg

Ravee Laser Link

~ 1-2 Liters
~ 1-2kg

COMPARABLE
PERFORMANCE

IMPACT

Enables > 50K+ smaller class
of satellites (< 500 kg)

Enabling optical networks for more satellites

MARKET OPPORTUNITY

Satellite Free- Space Optical Comm

10Ks units expected



\$2B, 2024

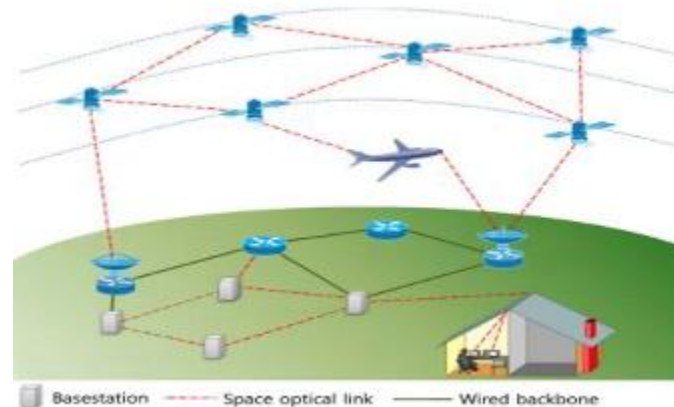
~45 %

CAGR



Airborne Free- Space Optical Comm

100Ks units expected



\$2B, 2024

~13 %

CAGR



\$20–30B

Free Space
Optical Comm
Market by
2035

RAVEE TEAM

Augustine Urbas, Ph.D.

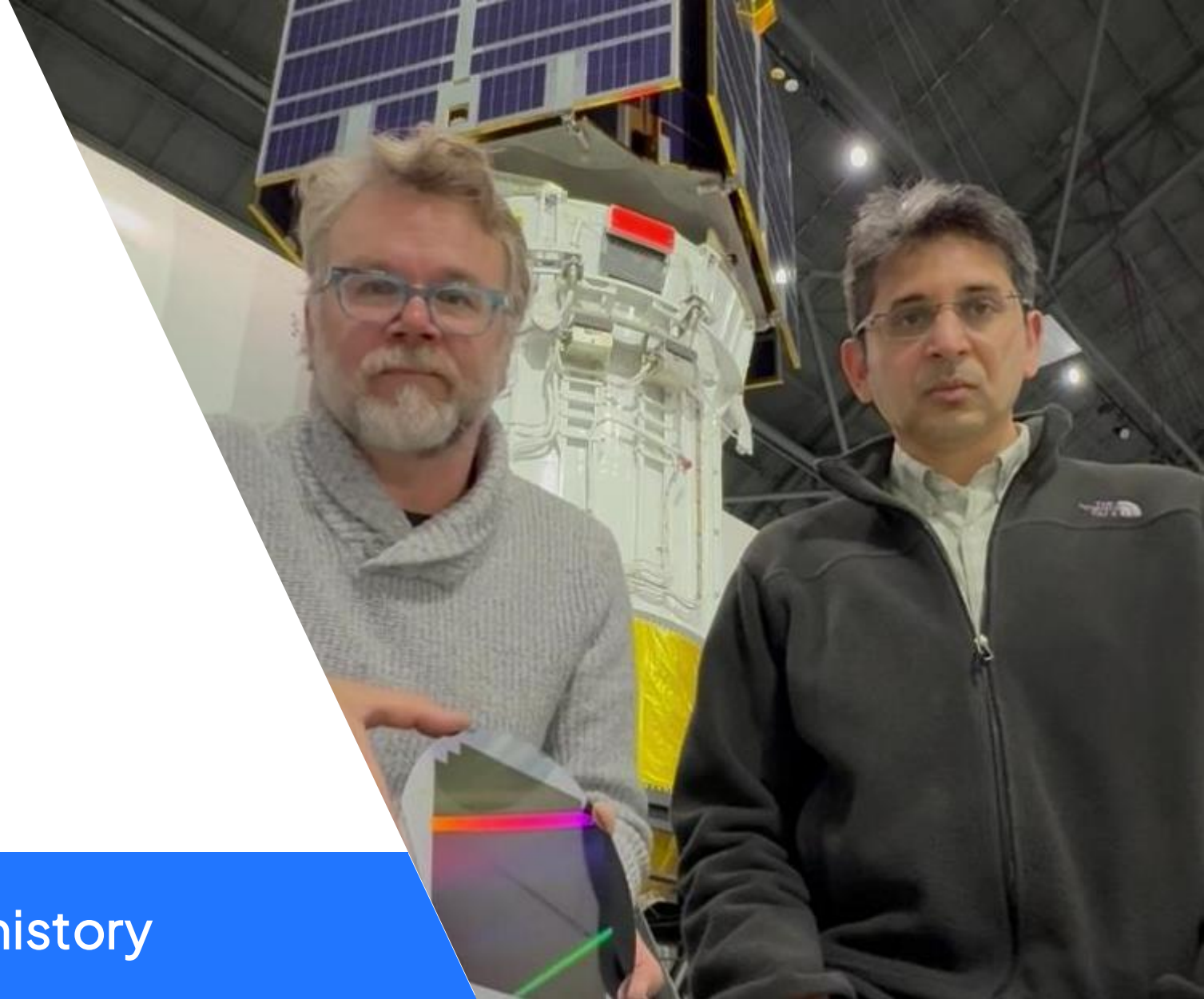
CTO/ Co-Founder

- 30 years R&D experience
- Lead for revolutionary metaoptics program
- PM for efforts \$250M+

Piyush J. Shah, Ph.D.

CEO/ Co-Founder

- 22+ years industry experience
- R&D company founder
- Product development
- Multiple USAF contracts secured



10-year collaboration history

BUSINESS MODEL & CUSTOMERS



Supplier of Laser Links

Ravee Optics aims to be a manufacture/supplier of laser links



Customers

- Satellite Payload Developers
- Bus Manufactures
- Satellite Constellation Owners

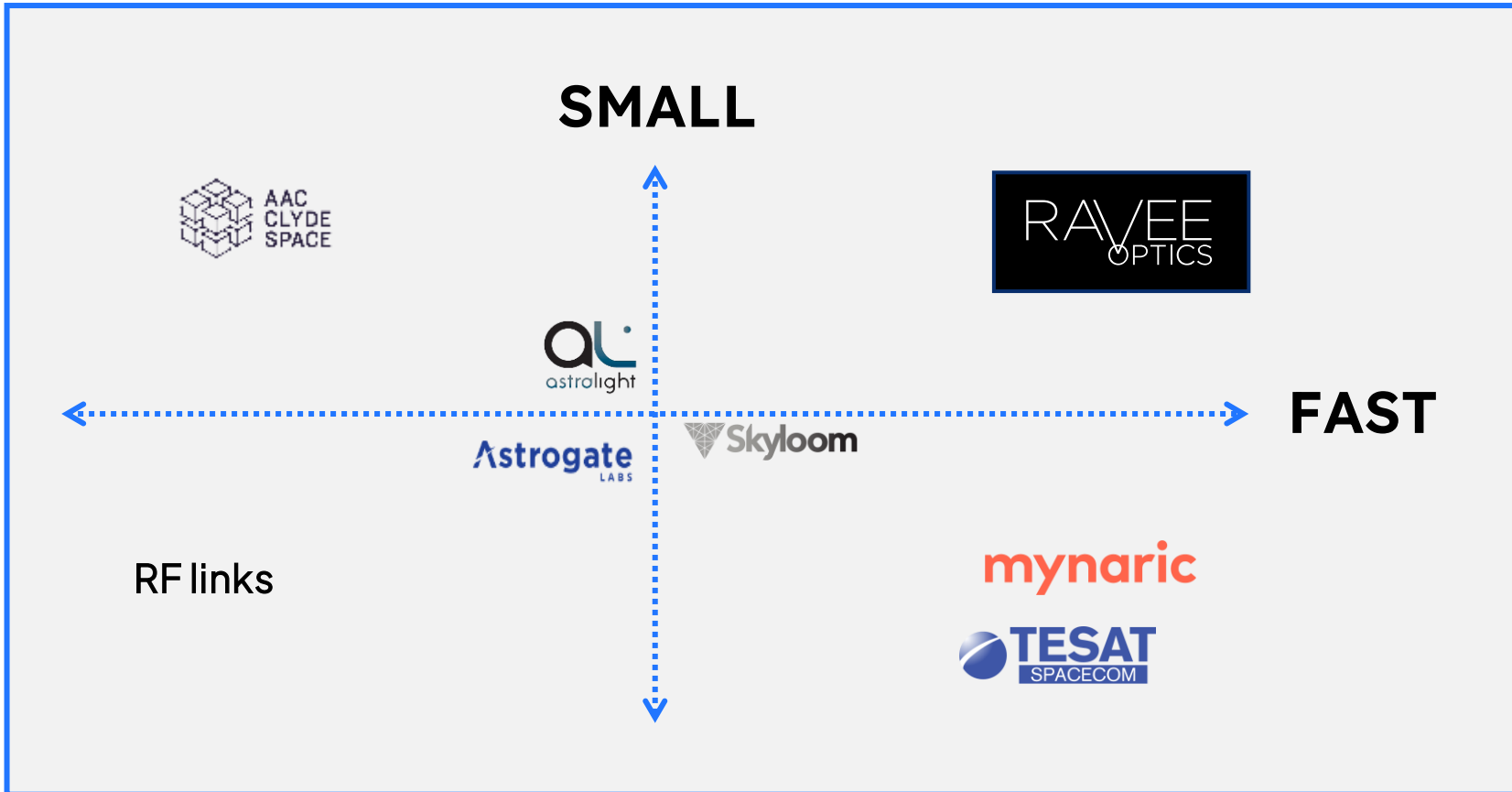


Recurring Revenue

- "Bandwidth as a Service" subscription
- LEO Small Sat Population 50–100k
- ~ 5–Year Refresh Rate



USP & COMPETITION



Ravee laser
links are
**MORE
COMPACT
AND
CAPABLE**

OUR TRACTION

Sales Revenue



2025 Component
Sales Revenue
Growth **\$500k**
(expected)

Risk Reduction



Prolific track
record of raising
non-dilutive
capital

State of Ohio Grant



Selected for State of
Ohio **\$200k**
Technology Seed
Grant

Customer Partnership



Working with current
customers to
respond to demand
signals

ASK & SUMMARY

**\$5.5M seed round funds –
36-month development plan
for orbital demo**

- Build on core technology space heritage
- TRL 6 communications demo goal
- System operational testing



RAVEE OPTICS



THANK YOU **FOR JOINING!**

Dr. Piyush J. Shah, CEO
piyush@raveeoptics.com

Dr. Augustine Urbas, CTO
augustine@raveeoptics.com