RAPTOR DYNAMIX

Architecting Adaptive, Intelligent Systems

Autonomous Defense.

Cognitive Precision.

Joel Nelson

President & CEO

Raptor Solutions

Embedded Cognitive Reasoning

Differentiating with an advanced cognitive reasoning engine for real-time situational awareness, mission adaptability, and decision-making without humans in the loop

Space Warfighting

Counter-Unmanned Aerial Systems (C-UAS)

Mission Operations and Time-Sensitive Kill Chains

Space Domain Awareness
Gaps and Needs

Space domain awareness systems (SDA) are struggling to keep pace with the explosive growth in satellites, space debris, & adversary anti-satellite weapons.

– Gen Salzman, Chief Space Operations
Sep 2025

Impacts to the $90B commercial markets, human spaceflight, and US Space Force

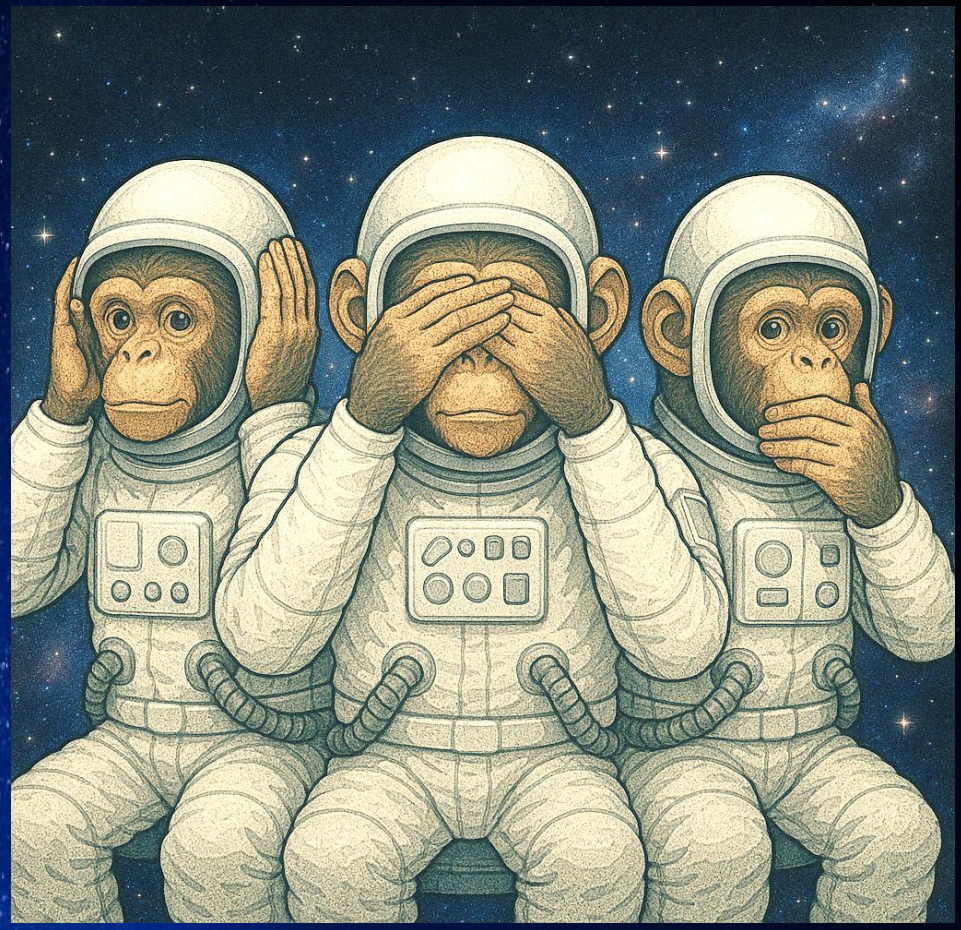
Underlying Problem:

Today's Space Systems are Blind, Deaf, and Dumb

Space Systems rely on constant human oversight. This reliance results in massive delays in real-time reaction.

Major Problems:

- Threat Classification taking hours/days
- Limited autonomy in Rendezvous and Proximity Operations for on-orbit servicing
- Overtasking operators



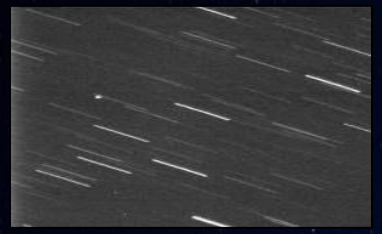
Raptor Dynamix:
A new frontier in space intelligence

Raptor is building the brain that changes everything— integrating real-time data and turning space platforms into smarter, more autonomous systems – seconds vs days

Through advanced algorithms and edge computing payloads, we will **convert existing satellites into Advanced Cognitive Reasoning Satellites**

RDX Products:

Enabling Real-Time Threat Detection and Response

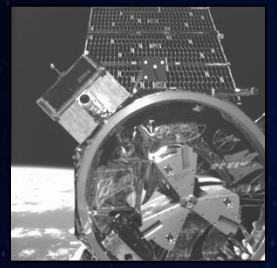


SpaceGuardian™ Software

Proprietary on-orbit algorithms for real-time threat detection – seconds vs days

ShadowSentinel™ Hardware

An integrated edge-computing payload for real time operations



ShadowMind™ Software

Autonomy architecture to enable onboard threat response and anomaly resolution

Our product suite is ready to be the solution to the ever-changing space landscape

Dual-Use Market Opportunities

Growth in Artificial Intelligence for Space

AI in Defense Space

Segmented Market

Payloads/Edge Computing

AI in Commercial Space

Segmented Market

Payloads/Edge Computing

A Non-Traditional Payload Leader

Building Out the Supply Chain for Operational Missions

Traction
US Air & Space Force

"We cannot be satisfied if it takes us hours to detect on-orbit activity…" Gen Saltzman, Chief of Space Operations

RAPTOR DYNAMIX™

Est. Aug 24

Space Domain Awareness Tap Lab
Nov 24

Awarded SpRCO Phase 1
Jan-Mar 25

Space Enterprise Consortium
April 25

Commercial Award
$500K Capital
Jul 25

CRADA & Facility Clearance Award
Sep 25

Awarded STTR
$200K
Oct 25

Traction
Commercial Partnerships

RAPTOR DYNAMIX

"Space-based cloud infrastructure is the next frontier…to enabling AI workloads at the orbital edge."
– Travis Steel, Chief Architect, Red Hat

RAPTOR DYNAMIX™
Est. Aug 24

aws
$100K Credits
Spring 24

NVIDIA
Discounted GPUs
Aug 25

APEX
$9M in bids
Aug 25

CASIS
Launch to ISS
Sep 25

VOYAGER SPACE

ANDURIL
$2M in bids
Nov 25

amazon project kuiper
Hosted Payloads

BAE
$6M in bids

LOCKHEED MARTIN

Go-to-Market Strategy
MVP, Scalability, & Growth

RAPTOR DYNAMIX

Commercial Path 2026+

Orbital Edge Pathfinder

Launch to ISS
MVP 1Q27

Commercial Satellites; Space Stations; In-Space Manufacturing

VOYAGER SPACE

VAST

Commercial Payloads
Edge Computing
$7B (2030)

2026 2027 2028 2030

USSF Path 2026+

SpWERX SBIR / AFRL
ShadowMind™

USSF Variant
ShadowSentinel™

Expand platforms

Tactically Aware & Responsive Satellite

Defense Payloads
Edge Computing
$2B (2030)

Customer R&D Golden Dome

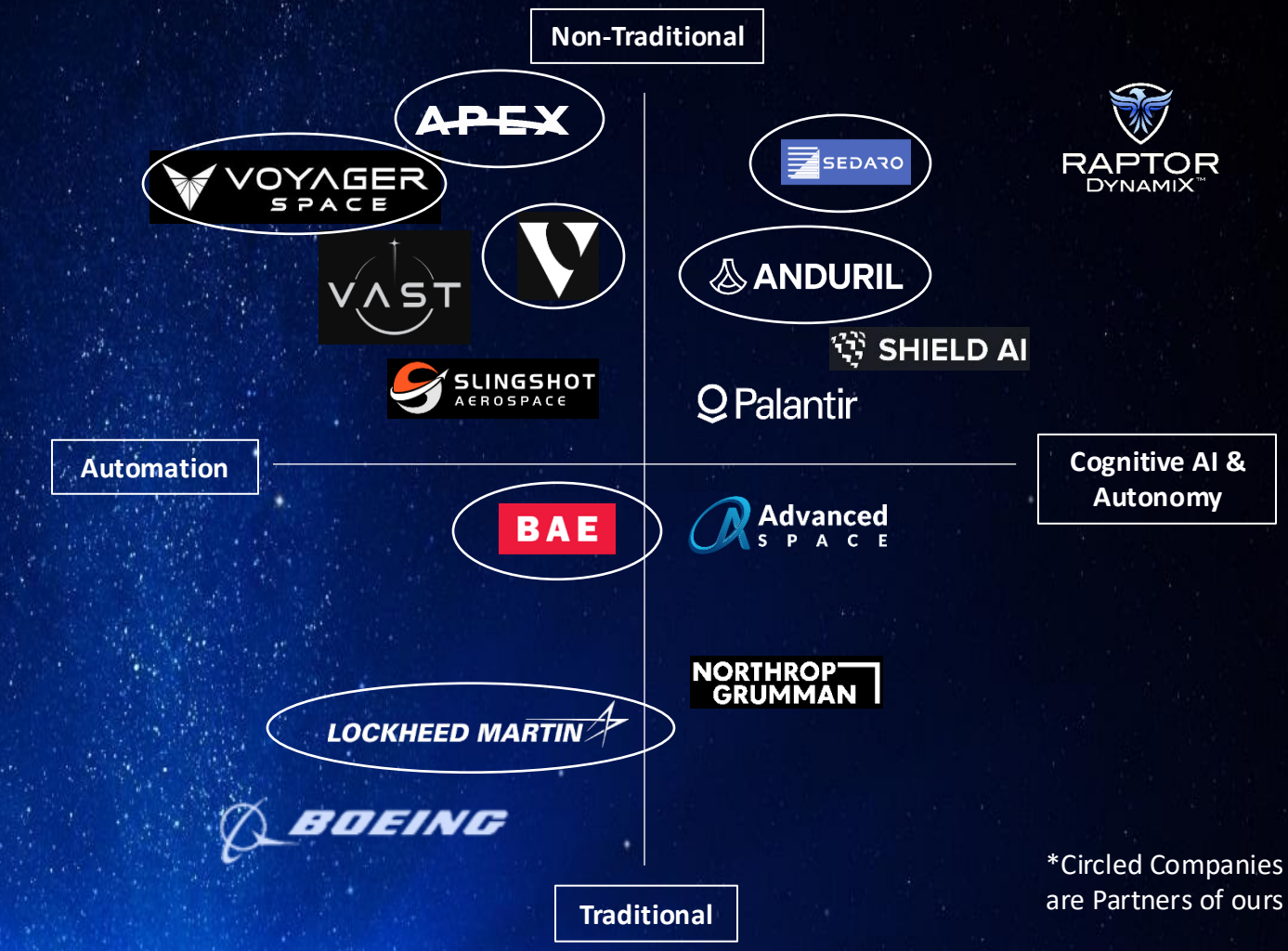
Satellite Constellations
Space-Based Interceptor

Golden Dome

Missile Defense Agency
Edge Computing
$3B (2030)

Competitive Landscape

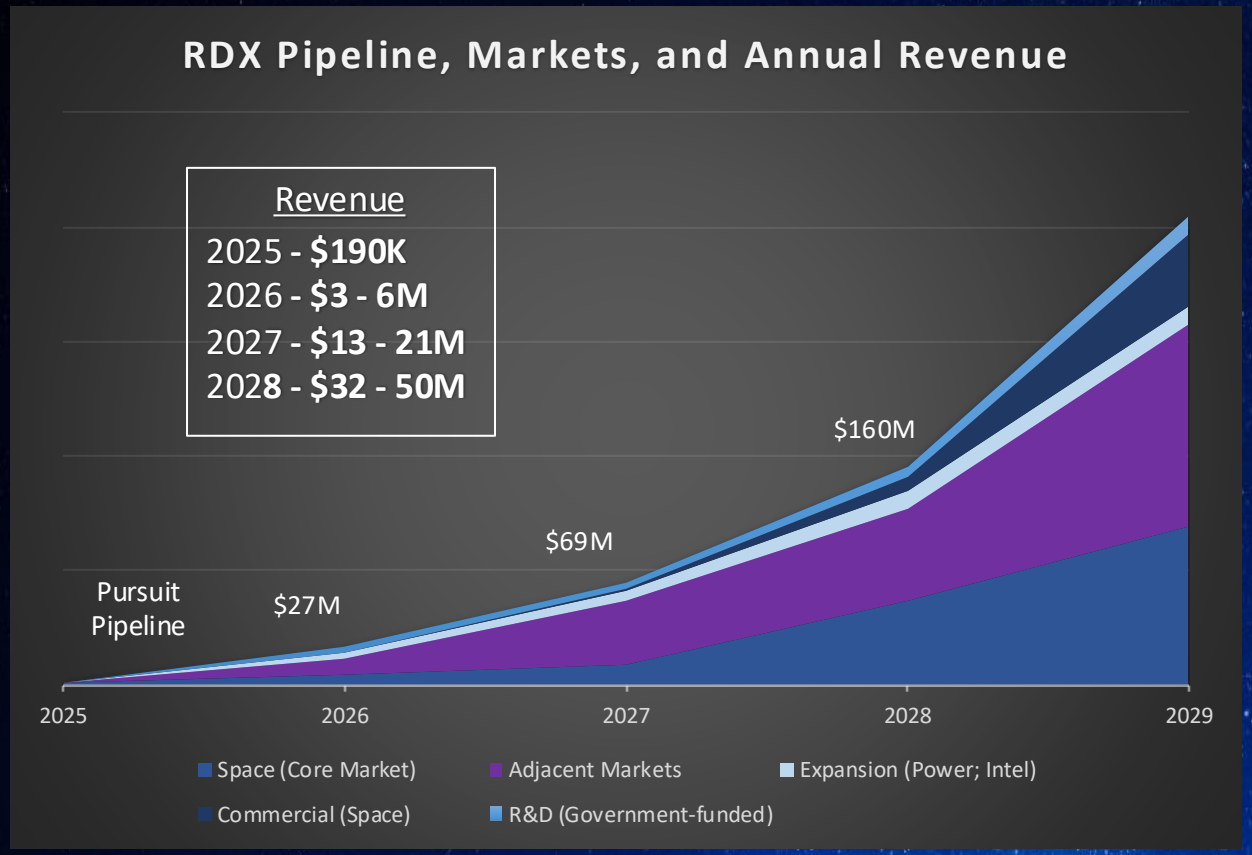
- Limited competition developing Cognitive Reasoning Engines – Raptor brings a differentiator
- US Government shifting to Non-Traditional developers
- Raptor Competitive Advantage
  - Technical Differentiation
  - Adaptable to Threats
  - Team Talent and Relationships
  - Customer Traction
  - Scalable & Upgradable



*Circled Companies are Partners of ours

Financials

AI, Edge Computing, and Payload Solutions



- Path to $1M in Revenue & 10x growth
  - USSF new starts for Intelligent Space Systems ($6.5M+)
  - Space-Based Interceptor program ($3M+)
- Adjacent Markets
  - Counter – Unmanned Aerial Systems ($2M+)
  - Data fusion / analytics for Operations ($2M+)
- Commercial and Strategic Partnerships (e.g. Anduril and Apex)
- Government R&D Awards

RDX Leadership

Right Team to Develop & Grow

Joel Nelson
President & CEO

- 25-years building Payloads & Satellites
- Strategy & Business Development

Del Christman
VP, AI & Autonomy

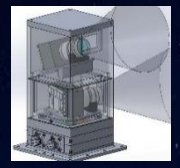
- 40-years Aerospace and Artificial intelligence
- Cognitive & Neural Systems (since 1990s)

Advisory Board
(being finalized)

ShadowSentinel™ Pathfinder
Orbital Edge

RAPTOR DYNAMIX

Full Motion Video
- Event-based Imaging
- 100-1000x less data



Edge Computing GPU
- Commercially deployable
- NVIDIA® Jetson AGX Orin™
- Processing in seconds

SpaceGuardian™
- AI Algorithm suite
- Deployed on-orbit
- Real-time knowledge

Data collected from ISS 5/23/25
ShadowSentinel will Upgrade

Seed Raise

Use of Capital and Path to MVP

Raise Allows

- SpaceGuardian™ Algorithms ($350k)
  - ✓ Onboard AI Developer
  - ✓ Develop & Test Algorthims
- ShadowSentinel™ Payload ($500k)
  - ✓ Onboard Payload Engineer
  - ✓ Payload Development
- Go-to-Market Activities ($150k)
  - ✓ Marketing / Advisors
  - ✓ Develop Opportunities

RAPTOR DYNAMIX

Joel Nelson

www.raptordynamix.us

Joel.nelson@raptordynamix.us

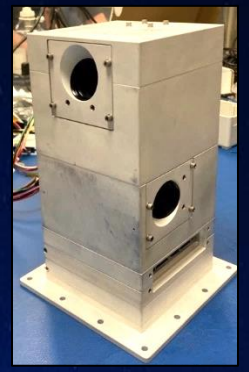
719-429-7463

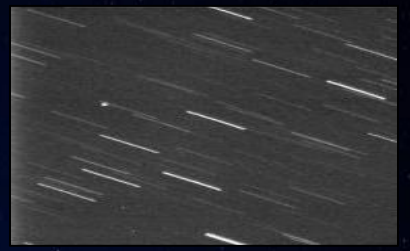
Business Model

AI, Edge Computing, and Payload Solutions

Four distinct revenue streams will allow for us to succeed in market capture

- License Model for AI Algorithms
  - **SpaceGuardian™** will generate revenue through subscription services (as developed or annual pricing), licensing, and/or data services for space threat alerts.
  - Recurring -- $25M/yr by 2029
- Maintenance (Mx) and Update Subscription to Models
  - Software can learn and be updated
  - Recurring -- $10M/yr by 2029
- Sales for Threat Detection and Autonomy Payloads
  - **ShadowSentinel™** – Cognitive Autonomy Engine and Edge Computing payload for any spacecraft
  - Payload Development -- $50M/yr by 2029
- Operations & Predictive Analytic Services ($25M/yr)





RaptorEye™
Counter–Unmanned Aerial Systems (C-UAS)

A C-UAS detection system (TRL7) acoustically detects UAS threats which provides a scalable, low-cost counter-UAS detection layer for defense and critical infrastructure

Operations Gaps

Avoid Operational Surprise from UAS Swarms

Identify Threats Early in Cluttered Environments

Cognitive Artificial intelligence for responsible autonomy

RaptorEye in Operations

RaptorEye™ Prototype

FusionEdge™

Data Fusion, Threat Detection, and Decision-Making

RAPTOR DYNAMIX

Proliferated Warfighter Space Architecture

- Real-time ingestion and fusion of data from PWSA space systems
- Deploying AI/ML-driven analytics for anomaly detection, threat identification, and predictive situational awareness
- Enabling real-time tasking, automated decision-making, and timely kill chain

SDA
SPACE DEVELOPMENT AGENCY