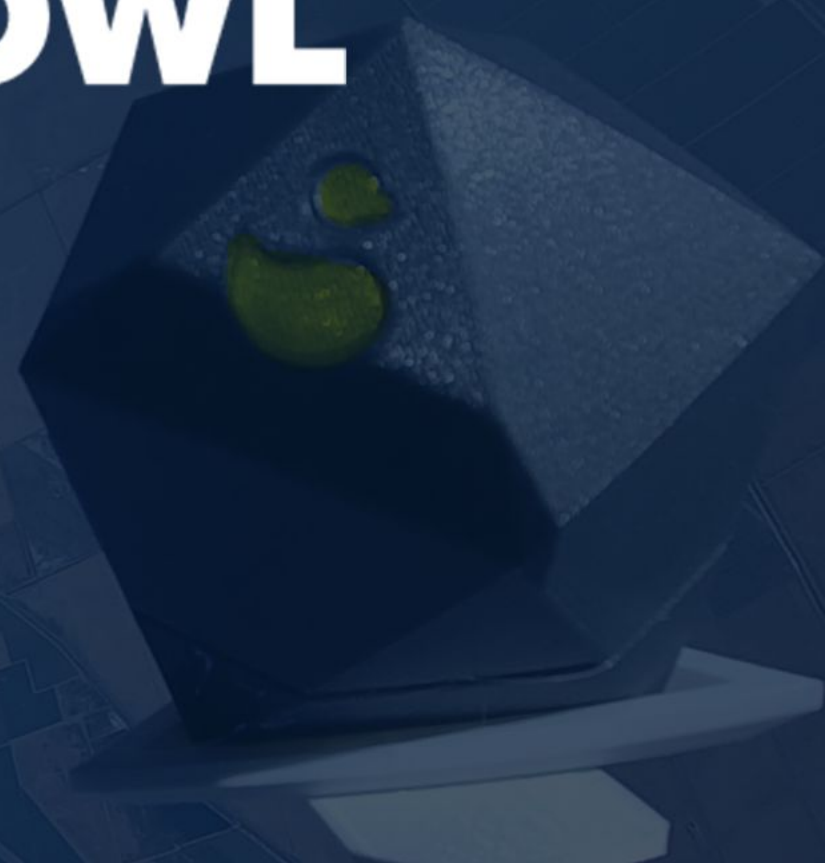
PROJECT OWL

XTECHSEARCH 5.0 PHASE III



TECH|SEARCH

PROJECT **OWL**

Project OWL is a unified C4ISR communications and sensor network solution.

An interplay of hardware and software. A wireless device, the **DuckLink**, as well as a software platform, the **OWL Data Management System (DMS)**. This solution enables deployable networks on ground, water, or in the air.

The D.U.C.K. - Simple, adaptable technology for widespread impact across US Army

Columbia University

National Security Innovation Network

Lockheed Martin

Learn by Doing
Cal Poly

IBM

Active Air Force STTR contracts with capable Universities

Associated Press

WIRED

Fast Company

Bloomberg

The New York Times

Rapid growth has been featured in technology media across the world

NETWORKING IS A PROBLEM

Networks are one of the six major Army Modernization Priorities. Current C4ISR network solutions are costly, complicated, and fragile. Broad Department of Defense interest in Project OWL resulted in further demonstrations and testing with several USASOC components, JSOC SMUs, MARSOC, and other groups.

Interoperable data and communications networks are complex and expensive

(112th Signals Battallion)

Secure tactical networks are tough/burdensome to integrate into kits

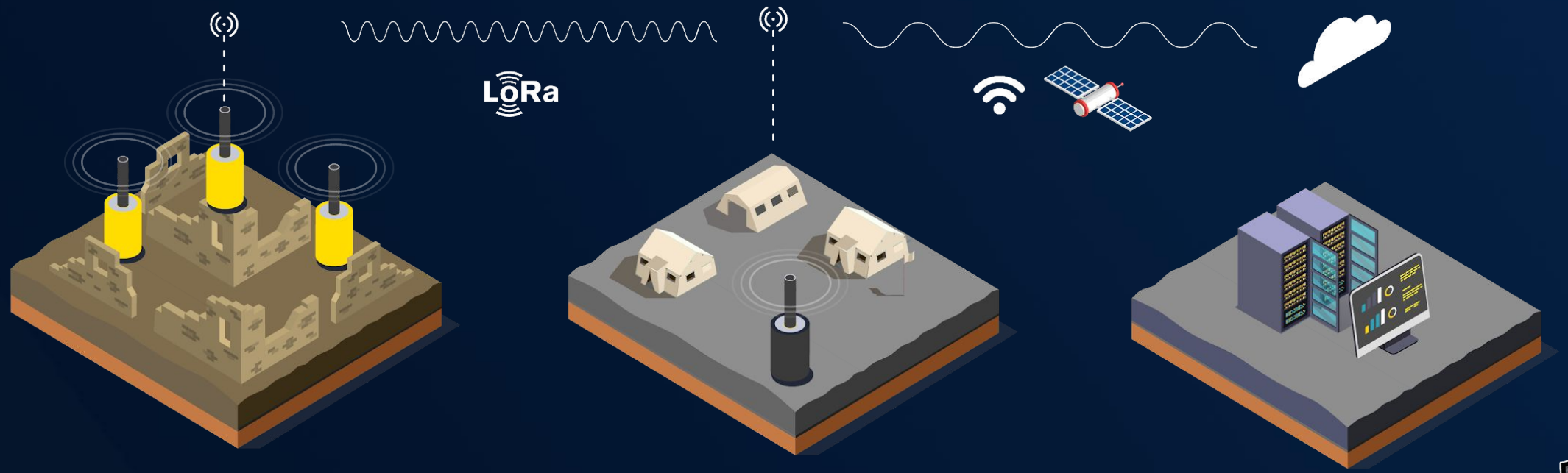
(Task Force Green, Rangers)

PNT and sensor networks need mesh or satellite constellation infrastructure

(Army CBRND)

INNOVATIVE C4ISR SOLUTION

This technology enables a highly adaptable C4ISR capability with a cost effective, unified, and easy to use network solution. This empowers trusted communications, interoperable data systems, and unified signals intelligence from dense urban to austere rural environments on the ground, water, or in the air.



DuckLink Wireless Devices → **OWL Data Management System (DMS)** → TAK

NETWORKING IS A CRITICAL ARMY NEED

C4ISR Lays Every Mission Foundation

- Interoperable Data and Intelligence Systems
- Secure, Trusted Communications
- SIGINT Informs Effective Decision Making

"If you continue developing this it could fundamentally change the nature of special warfare tactics"

US Army SOF Operator

Project OWL technology in 1) handheld DuckLinks, 2) the drone-deployed DuckEgg prototype, 3) the Papipad tablet with DMS Lite, and 4) renderings of Ducks.

MARKET DEVELOPMENT AND EXECUTION

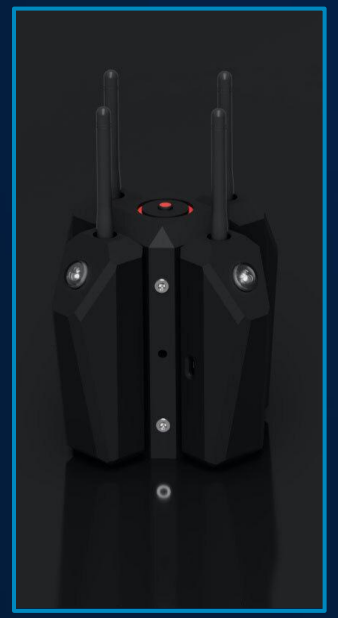
Unique Interplay of Hardware and Software

DuckLinks are durable, simple, low SWAP-C devices, and run a customizable open-source firmware, the ClusterDuck Protocol

100X open-source community growth in 12 months; builds networking algorithms and sensor integrations

THE LINUX FOUNDATION

CLUSTERDUCK PROTOCOL™



This network solution flexibly applies to several multibillion-dollar commercial market opportunities

Industrials and Energy Sensor Networks

Logistics and Fleet Management Networks

Disaster Resilience Comms Networks

Patents and Intellectual Property

"WIDE-AREA MESH NETWORK", Number PCT/US20/17627, Filing Date: February 11, 2020

"Distributed IoT Device Network & Incident Management System", Application # 62804084, February 11, 2019

Homeland Security · IBM · NSIN · LOCKHEED MARTIN · verizon · TECHSEARCH · THE WORLD BANK

ACCELERATING GROWTH AND EXPOSURE

Growing Interest from the U.S. DOD

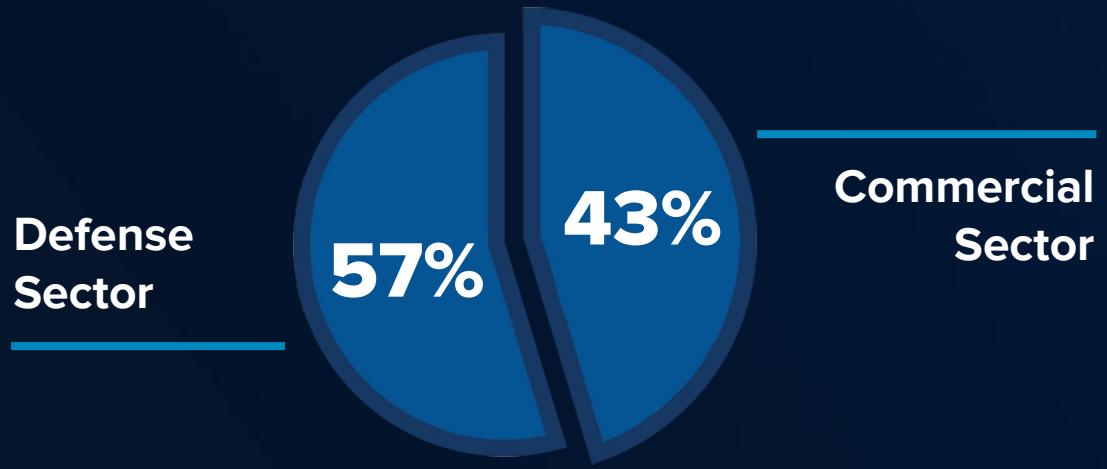
2020 J20.1
SBIR Phase I

2020 X20.A
STTR Phase I & II

2020 X20.C
STTR Phase I

$1.154M Total Funding

50% of all funding in last 6 months, 4.8X Revenue YoY



Commercial Foundation, Defense Application

Disaster resilience $200,000 winner, IBM Call For Code. January 2021 $84,000 grant for networks across India from WorldBank.

IBM LOCKHEED MARTIN NATIONAL SECURITY INNOVATION NETWORK

Diverse Success:

- IBM Call for Code Grand Prize
- MD5/NSIN Escape NYC Grand Prize
- Lockheed Disruptive Aerospace Grand Prize
- IBM Enterprise Deployment Contract
- WorldBank India Deployment Grant
- Prometeo Firefighter Device Contract

IT Ops Times — *"Open-Source Project of the Week: ClusterDuck Protocol"*, **Feb 2021**

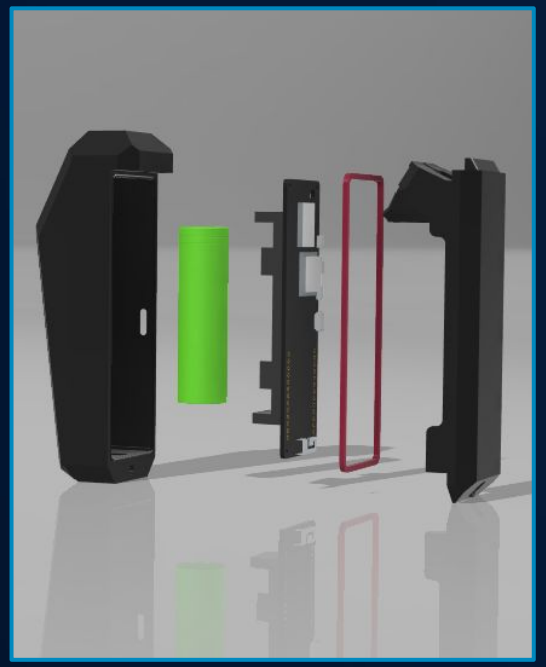
The New York Times Bloomberg WIRED AP Associated Press FASTCOMPANY Silicon Valley Insider GIZMODO IBM BUSINESS INSIDER

ARMY TRANSITION STRATEGY

Engage

- Demonstrations
- Technical Expos
- Engage SBIR/STTR
- Engage ARL/AAL

Identify



- Testing & Eval Feedback
- Identify R&D Needs
- Identify Opportunities
- Identify Certifications

Execute

- Execute R&D
- Execute SBIR/STTR contracts
- Execute EM/EMI, ranging, and security testing and validation
- Certify Hardware/Software

Deliver

- Deliver R&D Product
- Deliver Kits, Ducks, Software
- Receive feedback

EXECUTION ON THE HORIZON

6 months | Demonstrate with the U.S. DOD, USSOCOM TE, SOFWERX, C4ISR and PEO offices.

12 months | Develop commercial pilot opportunities within Energy, Logistics, and Community Resilience sectors.

18 months | Engage and execute SBIR/STTR Phase II and Phase III, and/or CRADA with Army SOF units.

"This cost-effective, real-time surveillance technology provides ability to monitor and react quickly to improve business margins and reduce health/safety/environmental (HSE) incidents anywhere in the world."

Wayne Beecroft, British Petroleum VP, Former Army Ranger

DEVCOM ARMY RESEARCH LABORATORY

ARMY APPLICATIONS LABORATORY

SOFWERX

AFWERX

724TH SPECIAL TACTICS GROUP

AIR FORCE RESEARCH LABORATORY

TEAM'S ABILITY TO ACCOMPLISH WORK

Project OWL is a team of engineers with experience building hardware, software, and analytics tools. The team is passionate and inspired to develop game changing technology for the next generation of warfighters in the United States Army.

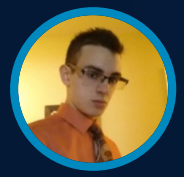
Bryan Knouse, CEO
B.S. Mechanical Engineering, University of Rochester
Business development and software; Won 20+ technology competitions, leads active Air Force contracts

Nick Feuer, CTO
B.S. Computer Science, SUNY Purchase
Software and firmware development; Manages technology communities in NYC; published two scientific papers

Charlie Evans
B.S. Computer Science, University of Tulsa
Software Architecture; built enterprise analytics for the largest US petroleum drilling company, focused on software

Timo Wielink
Product development; hardware design and software focused on prototype manufacturing, self-taught designer and software engineer

Taraqur Rahman
B.S. Physics, St. John's University
Data Science, applied machine learning, runs largest data analytics competition group in NYC



Zachary Neuhaus
Studying Disaster and Incident Response, UMBC
Radio frequency engineer, focused on open-source development and deployable networking

Defense-Focused Advisory

DECISIVE POINT
INNOVATION WARFARE

Ryan Benitez

Debi Jantzen

Eric Horan

Thomas Hendrix

Larkin Industries

Thomas Larkin

John Novak

BLACKHAYS GROUP
Technology Integration Solutions & Consulting

Scott Hayford

Company Advisory

Bruce Weed
Founding Advisor

Christian Feuer
Sales & Growth

Wayne Beecroft
VP, British Petroleum

Rob Simone
Marketing & Operations

Cayla Huppert
Citibank Public Sector

Thank You.

Learn more about Project OWL
[Linus Tech Tips], [Wired], [FastCompany], [Bloomberg]

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