

Leveraging
Technology
for
Operational
Gain

RAdm Paddy McAlpine RN (Rtd)

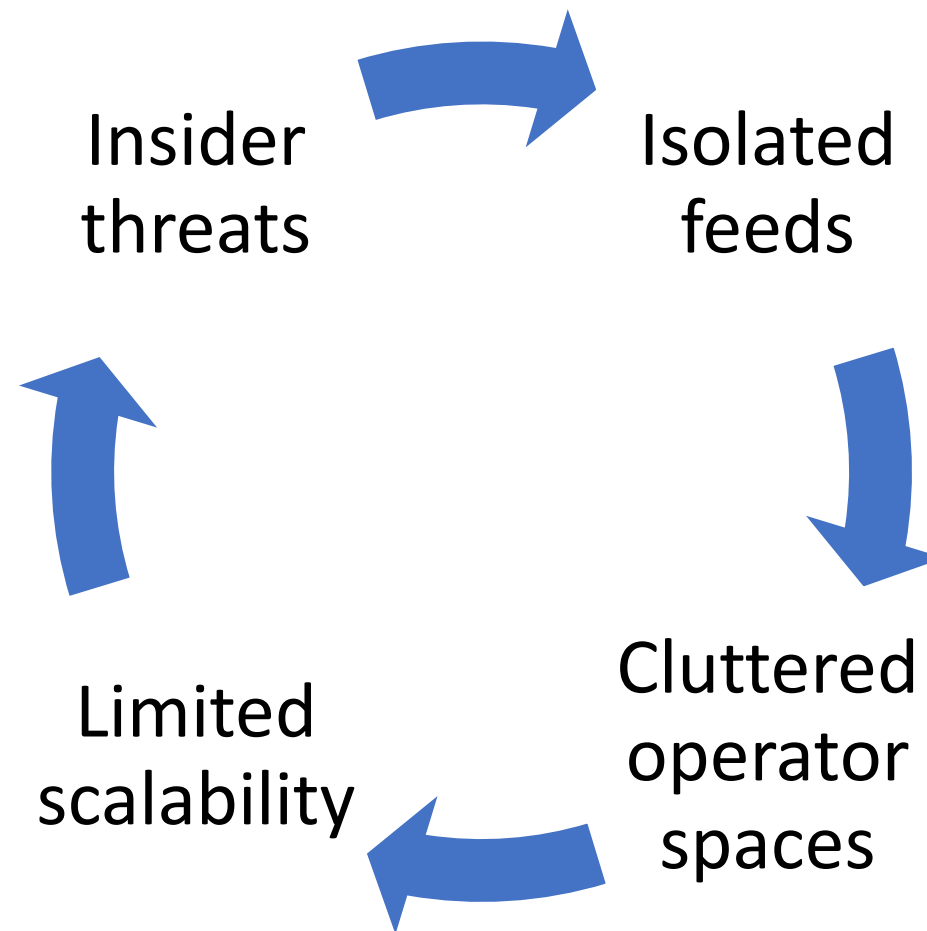
Senior Military Advisor

thinklogical[®]

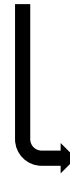
A **BELDEN** BRAND



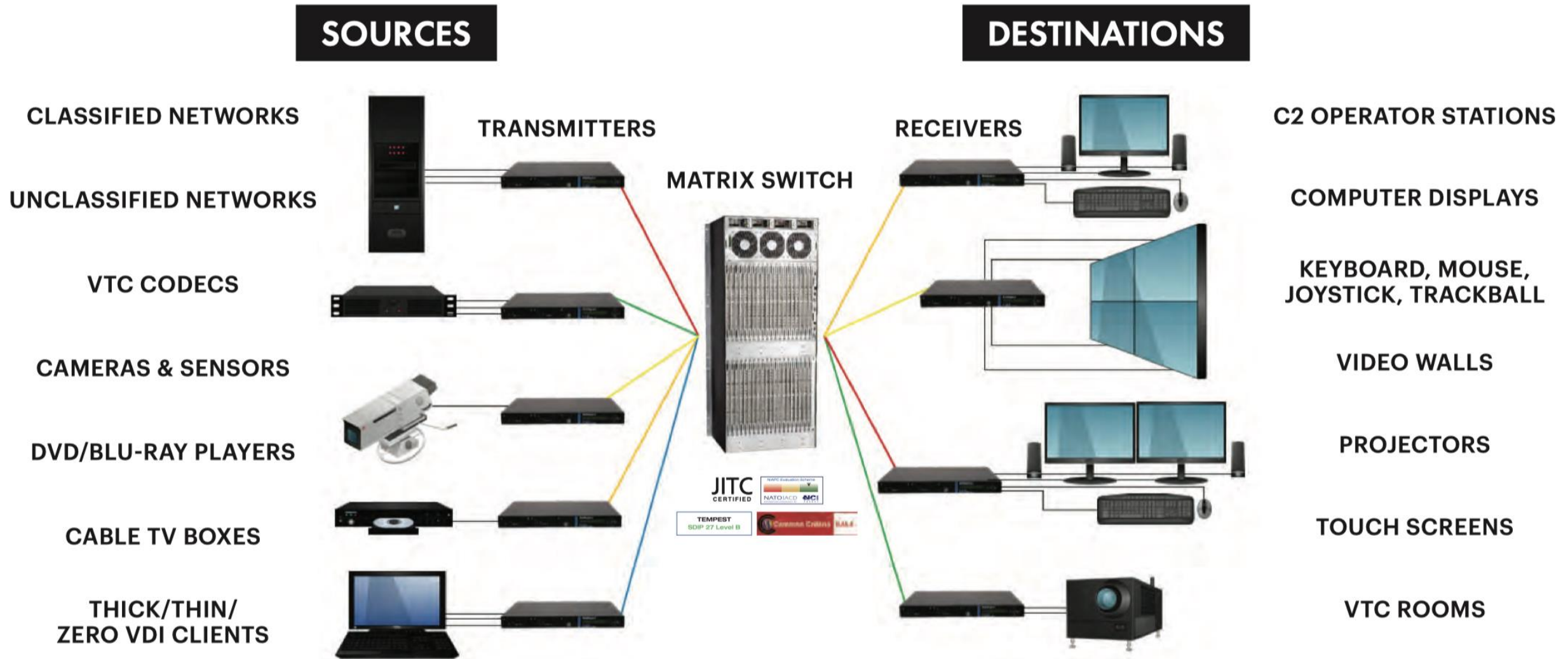
Data Sharing: Structural and Technological Constraints



Exploiting Technology



Information Sharing - Any Source to All Destinations



Better Manage Sensitive Information



Edward Snowden, USA



Wang Jingwei, China



Guy Fawkes, Britain



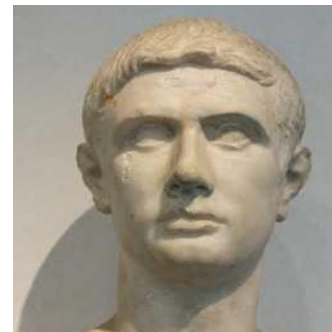
Philippe Pétain, France



Vidkun Quisling, Norway



Mordechai Vanunu, Israel



Marcus Junius Brutus
the Younger



Benedict Arnold, USA

Streamline System Management

POOLS

NIPR 1 HEAD 1 NIPR 1 HEAD 2 NIPR 1 CAC

SOURCES

OSD 1 OSD 2 OSD 3 OSD 4 OSD 5 OSD 6

TLX SIGN PLANAR SIGN EVANS SIGN 4K SIGN

SLIDES HEAD 1 SLIDES HEAD 2 TEAMS HEAD 1 TEAMS HEAD 2

RADAR HEAD 1 RADAR HEAD 2 RADAR AUDIO RADAR FLEX

COMS 2 HEAD 1 COMS 2 HEAD 2 COMS 2 AUDIO COMS 2 FLEX

COMS 3 HEAD 1 COMS 3 HEAD 2 COMS 3 AUDIO COMS 3 FLEX

COMS 4 HEAD 1 COMS 4 HEAD 2 COMS 4 AUDIO COMS 4 FLEX

CHESS GAME WEB STREAM DTV 1 DTV 2

RANK 1 RANK 2 RANK 3 RANK 4

JADC2 MAIN 1 JADC2 MAIN 2 JADC2 CYBER 1 JADC2 CYBER 2

TWA Q1.4K TWA Q2.4K

JADC2 SEA 2 JADC2 LAND 2

TWA Q3.HD TWA Q4.HD

JADC2 AIR 2 JADC2 CYBER 2

OPS SIGN TLX SIGN SPEAKER TEAMS HEAD 1

AUDIO (UN)MUTE VOL: LOW VOL: MID VOL: MAX

TL TWS CENTER TR

JADC2 SEA 1 RADAR HEAD 1 JADC2 AIR 1

BL BR

JADC2 LAND 1 JADC2 SPACE 1

TWS 1.5 SMP.app PRI

USB-L VIP USB-R

JADC2 SEA 1 JADC2 LAND 1 JADC2 AIR 1 JADC2 CYBER 1

NIPR CAC DESK 3 SIPR PKI NIPR CAC DESK 4 SIPR PKI NIPR CAC DESK 5 SIPR PKI

RADAR HEAD 1 RADAR HEAD 2 JADC2 SEA 1 JADC2 SEA 2 JADC2 LAND 1 JADC2 LAND 2

DESK 6 DESK 7 DESK 8

JADC2 SPACE 1 JADC2 SPACE 2 JADC2 CYBER 1 JADC2 CYBER 2 JADC2 AIR 1 JADC2 AIR 2

XTSN DEMO RACK

CHESS GAME SMP.app PRI

CAPTURE

USB-L CMDR USB-R

SMP.app PRI TEAMS HEAD 1 TEAMS HEAD 2 WEB STREAM

CLEAR ALL

~RANK 1~

~RANK 2~

~RANK 3~

~RANK 4~

~RESTORE~

1.INTRO

2.LEGACY

3.EXTENSION

4.HARDWARE

5.SMP DEMO

6.COLLAB

7.OPERATIONS

8.RECAP

9.SMP CLIENT

10.SET LEVEL

11.RESTRICT

12.CLOSING

CAM:CONTENT

CAM1:VIP DESK

CAM1:VW CENTER

CAM1:VW+ROW1

CAM2:EXTENSION

Reduce
Operational
Complexity

Adapt
To
Win





Unaltered
For
Optimal
Performance

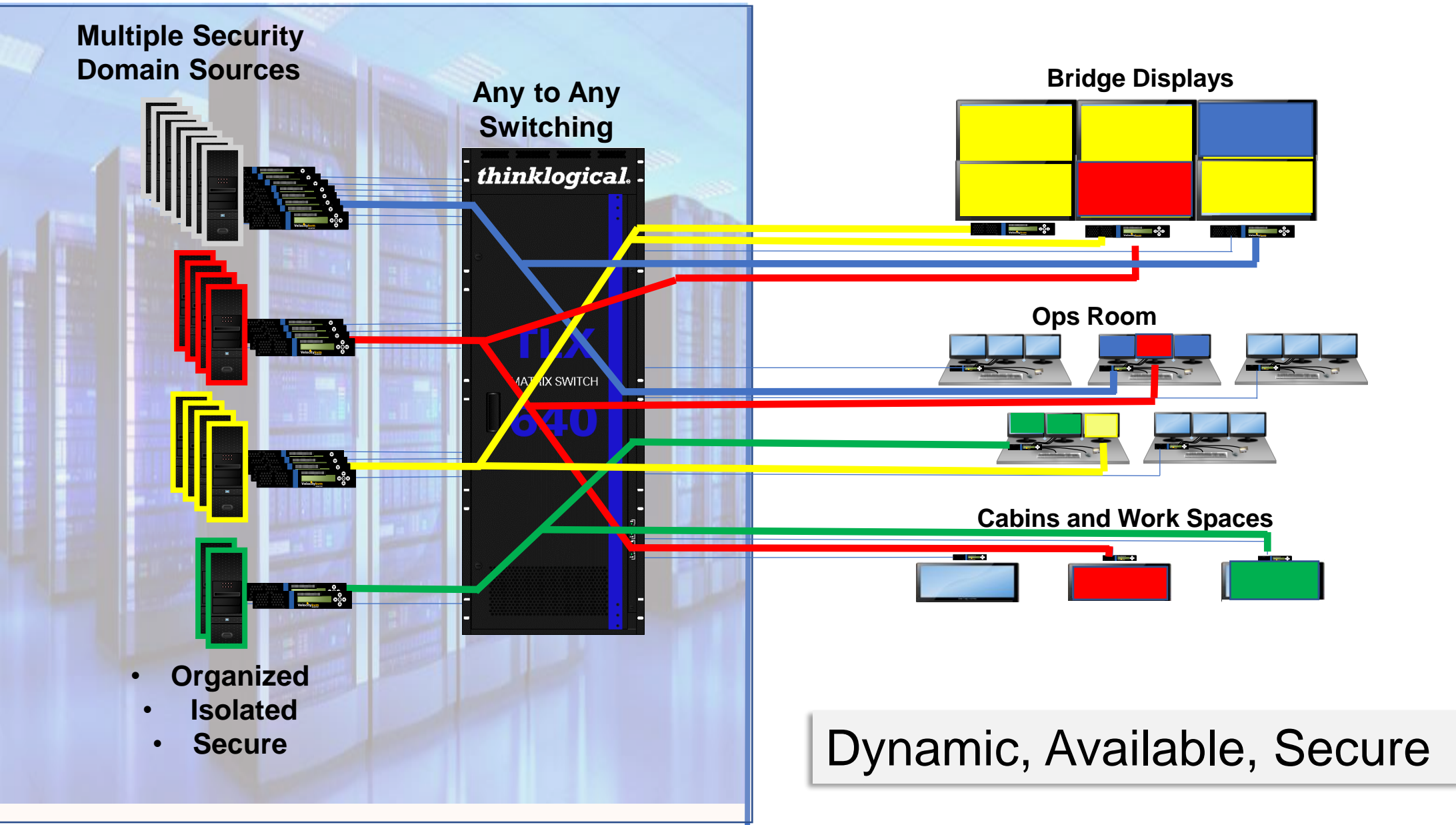
Keep
Sensitive
Information
Secure

Stay
Ahead of
Evolving
Threats

Increase
Resilience

Prioritise
Security
Needs

Information Sharing via Matrix Switching



Command Advantages At Sea



MARITIME COMBAT INFORMATION CENTER

- REDUNDANT INTEGRATED SYSTEMS INCREASES SITUATIONAL AWARENESS
- REDUCED PERSONNEL WITH FLEXIBLE WORKFLOWS
- REDUCTION OF HEAT/WEIGHT/NOISE FROM COMPUTERS
- OPEN, "ANY-TO-ANY" SWITCHING ARCHITECTURE AND "ALL GLASS," VIDEO DRIVEN CONSOLE INFRASTRUCTURE

TALK TO OUR TECH TEAM NOW



SCAN ME



DISTRIBUTED, REDUNDANT SERVER COMPARTMENTS ALLOWING BATTLE DAMAGE REDUNDANCY



NEW

ICT18

INTEGRATED CLIENT TRANSMITTER

SAVE SPACE | WEIGHT
POWER | HEAT

Turn Information
Into Knowledge
Faster

Fuse Multiple
Layers of
Classified
Information

Make Faster
Responses and
Better Decisions





USN Triton UAS Program

DEPLOYED AND DETERMINED TO TURN "THINGS INTO CAPABILITIES" WORLDWIDE

- Australian Dept. of Defence
- Canada Dept. of National Defence
- CIA
- Israel Defense Forces
- Japan Self Defence Force
- NATO
- NGA
- Norwegian Armed Forces
- Norwegian PST
- NRO
- NSA
- U.S. Air Force
- U.S. Army
- U.S. DoD COCOMs
- U.S. Marine Corps
- U.S. Navy
- U.S. Space Force

Representative customer list for reference only. All brand names and logos are the property of their respective owners. Use of organization name does not constitute an endorsement.



US Navy & Australia RAAF (and others)
TRITON UAS/RPA Ground and Pilot Stations, Training systems



Case Study: Norway Military and Intelligence



Leveraging
Technology
for
Operational
Gain

RAdm Paddy McAlpine RN (Rtd)

Senior Military Advisor

thinklogical[®]

A **BELDEN** BRAND