

# How Hard Can It Be?



**InfoSec at Supersonic Speed**

# Who's The Hairy Thing?



**Boom  
Supersonic**



**Researcher**



**Dad**



**Geek/Tinkerer**



**Hacker**

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# A Human Challenge?



# The Hooman Problem



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# The Attribution Problem



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# So, yea, we be...



==



# A Technology Problem?









# Zillow

Picturesque cabin in the woods!

10 minutes from the highway!

Fiber run to the end of the gravel road

Line of sight to the nearest tower, never be without signal!

Already set with Star link!

And Verizon 5G enabled to allow your Arlo's to work

Fridge online for groceries

Remote control fireplace connected to Nest

AND!

Alexa built into the office and main rooms for peace of mind and music!

Welcome to your cabin away from it all!\*

\*Buyer aware you ARE responsible for connectivity charges.



# Who CAN We Blame?



**InfoSec**



**Let's Pause, Breathe, AND Look At Things Differently...**





# Supersonic Lawn Darts...

Come for the tech, stay for the mission and the people...

# Different Approach

Observe, Orient, Decide, THEN act...



- We're mostly good at passengers
- We're getting there on bits of digital twins
- We're kinda good at Audio/Visual surveillance
- Got the greasy bits sorted
- Getting the safety sorted
- Lacking on security





AND REALLY good at excuses...



# What Are We Planning For Tomorrow?



- Threat intelligence
- Adaptive/situational awareness
- Cross platform orchestration (SOAR for Aviation)
- Better data in - Better results out (lakes NOT swamps)
- More effective safety AND security
- Our passengers ARE our lifeblood
- Time to treat them that way



# How DO We Get There?





# People





People, Process, and THEN maybe Technology...

A word cloud centered around the word "Accountability". The word "Accountability" is the largest and most prominent, written in white. Surrounding it are various related terms in different colors and sizes, including: Values, Morals, LIABILITY, Honesty, Honorable, Diligence, ETHICAL, RESPONSIBLE, Blameworthiness, TRUST, Reliable, STABILITY, MORAL, Governance, Function, Responsibility, Trustworthiness, CARE, BUSINESS, Honesty, Accountable, CORE VALUES, PRIDE, OWNERSHIP, VIRTUOUS, ACTIONS, TRUST, Integrity, Honorable, RESPONSIBLE, Blameworthiness, TRUST, Reliable, STABILITY, MORAL, Governance, Function, Responsibility, Honorable, Diligence, ETHICAL, RESPONSIBLE, Blameworthiness, TRUST, Reliable, STABILITY, MORAL, Governance, Function, Responsibility, Honorable, Diligence, ETHICAL, RESPONSIBLE, Blameworthiness, TRUST, Reliable, STABILITY, MORAL, Governance, Function, Responsibility.

Values  
Morals  
LIABILITY  
Honesty  
Honest  
Ethics  
Job  
CARE  
BUSINESS  
Honesty  
Accountable  
CORE VALUES  
PRIDE  
OWNERSHIP  
VIRTUOUS  
ACTIONS  
TRUST  
Integrity  
Trustworthiness  
CARE  
BUSINESS  
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ACTIONS  
TRUST  
Integrity

RESPONSIBILITY  
ACTIONS  
Honorable  
Diligence  
ETHICAL  
RESPONSIBLE  
Blameworthiness  
TRUST  
Reliable  
STABILITY  
MORAL  
Governance  
Function  
Responsibility

# Accountability





**STOP LYING**



**Ask MORE  
questions**





# Hoomans...

First

# By The Numbers...

- 5.3 Billion connected people... (in 2023 ish)
- Take a standard bell curve mix for tech/human/intel etc.
  - 15% understand or “get” security
  - 70% sheeple
  - 15% can’t even spell security or use 123456 as a password
- Americaland has about 330 million folks (4.25% of world)
  - 49.5 million can spell security (or InfoSec, or Cyber, OR)
  - 231 million assume antivirus works, and that adding 789 to their password is safe
  - 49.5 million folks use 1111 on their phone and qwerty on their computer
- In context: 754 million people across the globe can be outwitted by a talking toaster...

A young man with dark hair, wearing a crinkled aluminum foil hat, is shown in profile from the chest up. He is looking intently at a coffee machine on the left side of the frame. A green mug is positioned under the machine's spout. The background is a plain, light-colored wall. The overall lighting is somewhat dim, creating a slightly somber or mysterious atmosphere. The text "And we're gullible" is overlaid in the center of the image.

**And we're gullible**



# Choice...

I will fail, WE will succeed

**Remember!**



**This IS YOU, and  
YOUR computer on  
the Internet...**



# Language Counts...

Pick one OTHERS understand...



**Use language OTHERS understand**



## Collaboration

We CAN do it, build together a better future, Physical and digital

## Cooperation

Efficient analytics benefits ALL of us

## Coordination

Open dialog with everyone, including researchers

## Communication

In THEIR languages, stop hiding behind acronyms/red tape

Legislation NEVER stopped an adversary

## Community

Researchers, Hackers, Aviation Village, Etc.

Embrace, don't persecute

## Predictive, Proactive, Preventative

NOT Blind, reactive, band-aids. THIS IS people's lives.



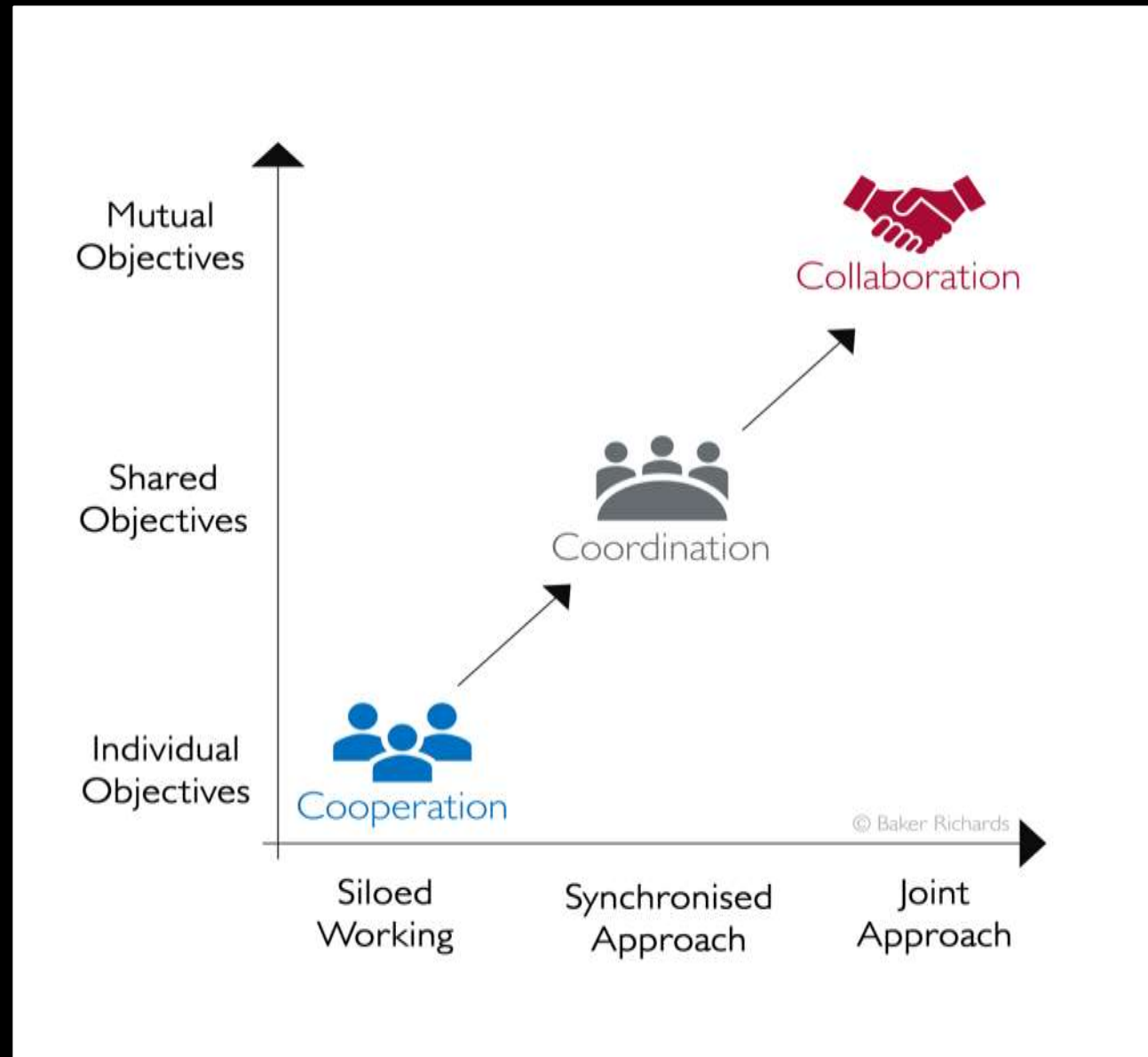
# Process





# So Far...

Some lessons so far...



communication cooperation coordination collaboration

**Squirrel Moment:**



# Technology



Narrow AI models, target and learns from individual systems

General AI modeling builds a neural decision matrix

- Baselines with narrow AI data

- Relationship cross platform

- Probability/chance analysis (along with re-tries)

Adaptive based on near real-time information flow

- What am I looking at,

- Why

- What can it do autonomously





Not just a digital twin of the engine, but the entire plane  
From first spar to end-of-life

Not just from aviation surfaces, but PX, external, GEO, etc.  
Folks are doing SOME of this, lets ALL collaborate?

Mean deviation analytics based on all inputs, and probability  
Per flight, per location, per situation, decision based

Hybrid AI model with continual human analyst input  
Love the machines, don't trust them just yet



# Partners Make THIS Happen...



# In Closing



**Data Swamp: Be careful what you ask for...**



**“We may have all come on different ships, but we’re in the same boat now”**

*Martin Luther King, Jr.*



- Regulation's great, REAL life moves faster
- We're ALL in this together
- How do we bring fresh eyes to this?
- Will the industry listen AND act before an issue?
- We're leading from the front.
- WE want to collaborate, y'all up for it?



We have ONE job

Protect those around us.

Let's do it right



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*Thank You ALL For Listening  
Now, Let's Actually DO Something...*