



## **Welcome and Opening Remarks**

**Nelson Moe** 

July 10, 2019



## Virginia Information Technologies Agency



## ISOAG July 10, 2019 Agenda

I. Welcome and Opening Remarks - Nelson Moe / CIO VITA - Jack Redfield, ISO for Cherry Bekaert and VCSP Advisory Board Secretary

II. MACH37 Spring 2019 Cohort -

**Bud Roth / VentureScope** 

III. Records Management -**Management Coordinator Library of Virginia**  **Chad Owens / Records** 

- IV. Upcoming Events
- V. Adjourn





Virginia Information Technologies Agency

## **Nelson Moe**

Chief Information Officer Commonwealth of Virginia





## Virginia Cyber Security Partnership

The Virginia Cyber Security Partnership (VCSP) was established as a collaboration between the private and public sectors to create a trusted place to collectively discuss Cyber threats.

The mission of the VCSP is to address the cyber security risks facing Virginia and our nation by establishing and maintaining a trusted community of cyber security professionals.

vacsp.com



# We now live in an on-demand society #shiftneeded

# Catalina is an employee

She is a millennial and always used to getting quick responses

She needs help from HR, How long should she wait?

How to serve thousands of Catalinas at once?





**Immediate Answers** 



Convenient Time and Place



Personalized Experience

"How much can I contribute to my 401K plan?"



<sup>&</sup>quot;How much vacation do I have left?"

<sup>&</sup>quot;How do I enroll newborn to benefits?"

<sup>&</sup>quot;How much maternity leave do I get?"

# Employees Make or Break Company Success



High Volume of inbound enquires



Repetitive activities

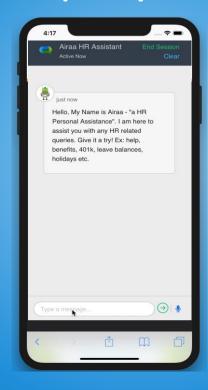


Too many HR systems to interact



Lack of Integration







Increase employee knowledge



Enhance HR Digital Transformation



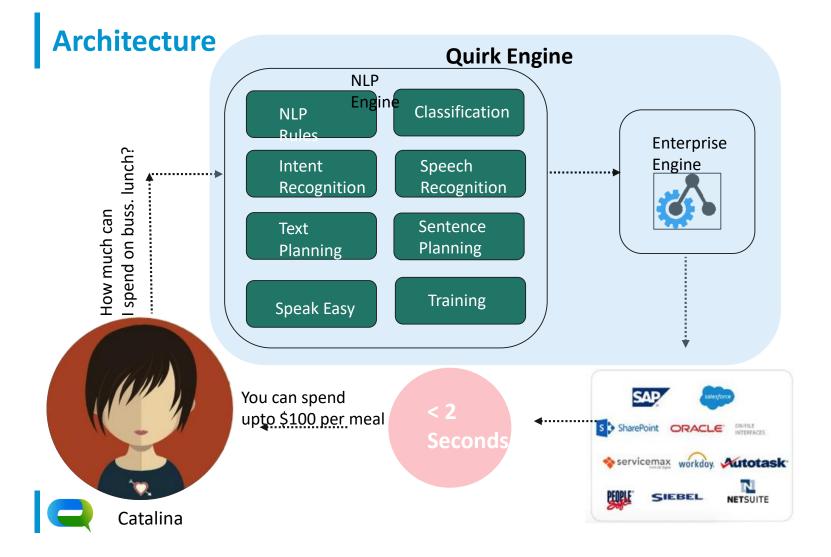
Better Employee Experience



Improve Efficiency







## **Meet The Squad**



Raj Kondapalli CEO / Growth Hacker Serial Entrepreneur



Anil Kumar CTO/ Tech Geek Serial Entrepreneur



Thomas Van
Swearingen
COO / Strategist
Serial
Entrepreneur



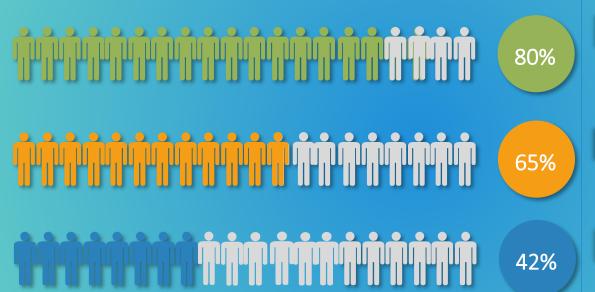
**Chandra Kishore** Full Stack Developer



Technology Development Partner



## **Market Validation**



#### **User Groups**

80% HR Managers 10% Recruiters 5% IT Directors 5% Developers

#### **On-Boarding Pain Points**

65% agreed that on-boarding is big issue and employees will have lot of uncertainty on where to find information.

#### **Interested in Product**

42% of users shown interest on digitalizing the handbook and potential pilot opportunities



## **Competitor Analysis**

Feature	Quirk.ai	ubisend	<b>IJI</b> smartAl	kore.	Bash	Leena Al
Ready to Install HR Assistant	<b>✓</b>	X	x	X	<b>✓</b>	<b>✓</b>
Low Development Costs	1	X	1	X	<b>✓</b>	<b>✓</b>
Accuracy (NLP & Speech Recog.)	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	x
Document Scanning	1	X	x	X	X	X
Enterprise Integration Middleware	1	<b>✓</b>	X	<b>✓</b>	X	×
Scalability	<b>✓</b>	X	x	X	X	X
REST & SOAP Support	<b>✓</b>	<b>/</b>	x	X	X	X
SSO & AD Sync	<b>✓</b>	X	x	X	X	X
SDK for External Integration	<b>✓</b>	<b>\</b>	1	<b>✓</b>	X	X



#### **Market**

Total addressable market

**Total Money Spent Per Year – \$1.6 Billion** 

**Total Money Spent Per Month - \$136 Million** 

**Total Money Spent Per Week - \$34 Million** 

Cost to Company per hour - \$250/hr

HR Employee cost per hour -\$50/hr

**Hours spent on Employees Support/week - 5hr** 

**Total HR Employees - 136,100** 

#### **Traction**

#### **Pilot Partners**















#### **Testimonials**

"Quirk NLP/NLU capabilities are very sophisticated and ready to interface with all the major messaging platforms. Definitely a very mature and well-designed solution." – Prasad Dasari, Cognix

"Quirk's innovative architecture puts all of your data at your fingertips, and their intuitive interface makes training and improving your bots a breeze." – Kay Faris, SmartCursors



#### The Ask

## Raising \$1,500,000 in Seed Round

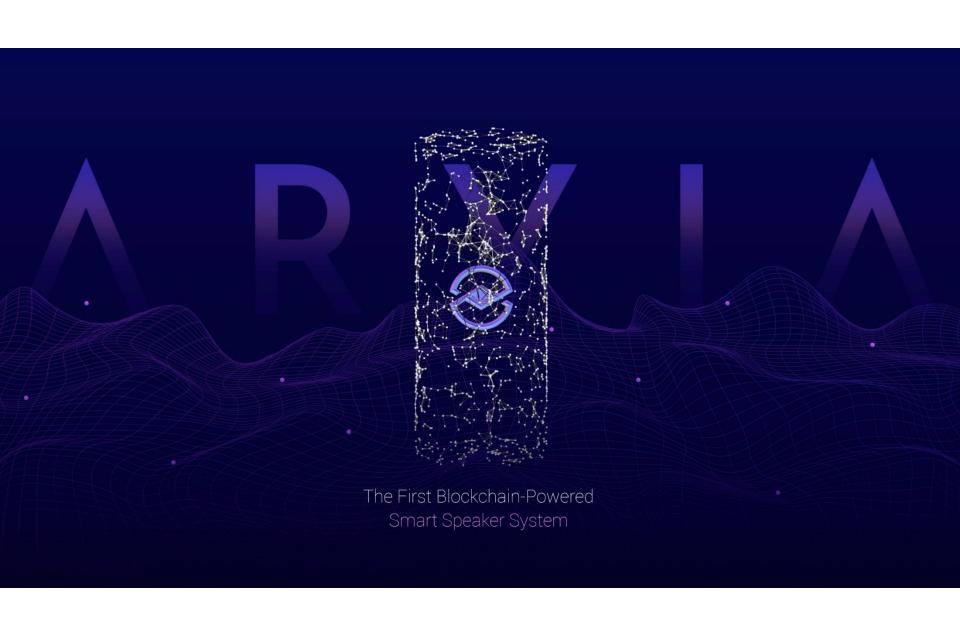
to sustain and grow the company over the next 15 months

# New Hires (build Integrations) Marketing Campaigns Expand Office Space Develop Partnerships Profitability



## Thank You

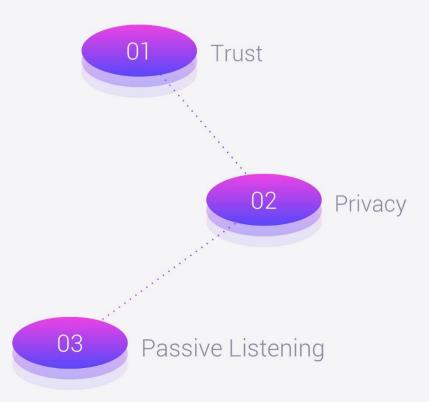












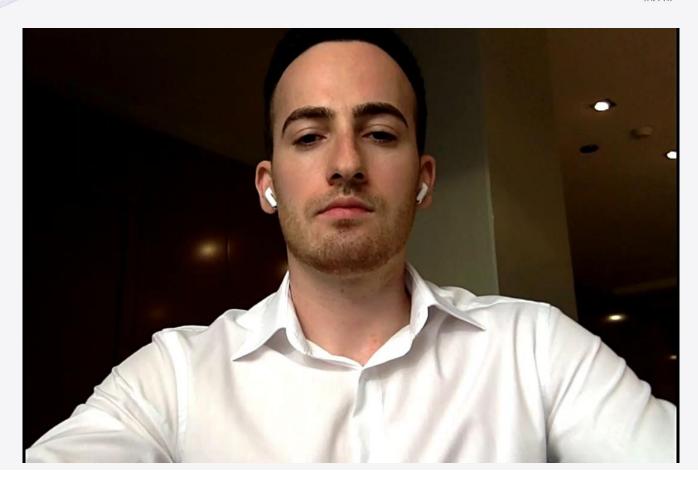


## Customer Research

	Aryia
User Sample	200
Concerned with privacy	40%
Would trade for reward	70%



## Meet Aryia



## The Solution Stage 1



#### Control

Aryia gives users full control over their data ownership. Additionally, all of the user voice data is completely offline.



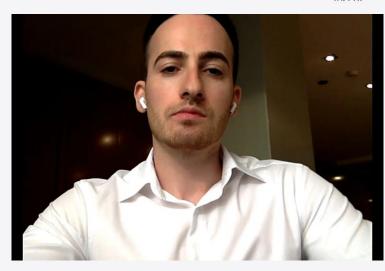
#### Choice

Consumers will be able to choose what information will shared, if any and will be rewarded for their data exchange.



#### Reward

The world's first smart speaker designed to reward its users for their activity. Users can toggle Aryia into the following device modes:





## The Solution Stage 2



#### Decentralize

Al gets decentralized and ready for licensing on third party devices. External developers can contribute to the AI system with new modules.



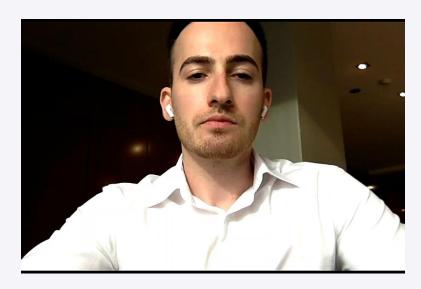
#### Marketplace

The newly created modules and commands will be listed on the Al fee (AIA coins) decided by their dev.



#### Customize

Users can decide which modules and marketplace in exchange for a usage smart speaker and purchase them with : AIA coins from the AI marketplace.



#### **AYA Credits**

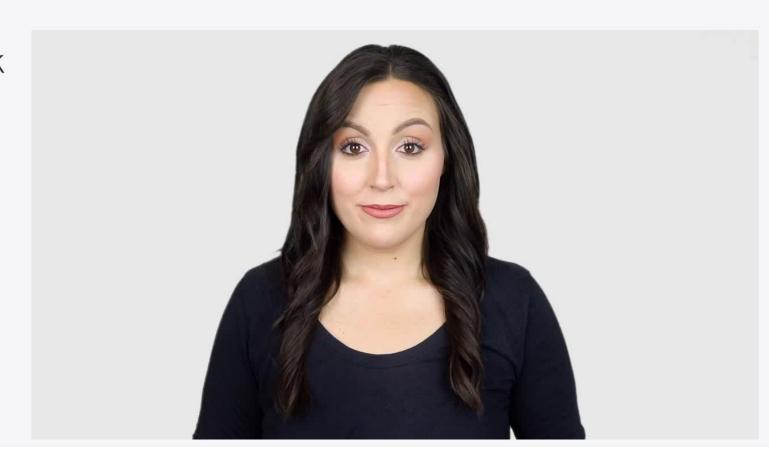
The speaker comes out of the box with a set number of AYA loaded on the device to be spent in the AI marketplace.

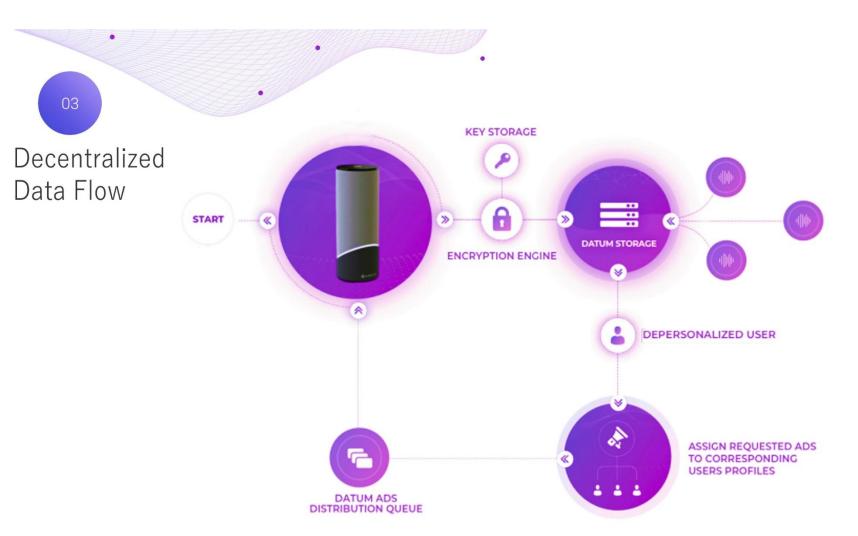


If needed, users can earn additional AYA coins by participating in the rewards system or purchase them from an exchange.



## Feedback













## Data Invasive Competition

#### Centralized Smart Speakers

- Amazon Echo
- •Google Home
- Apple Homepod
- Sonos One
- •JBL Link 20

Private by design, Blockchain-Powered Smart Speakers

Aryia Alpha

Meet Aryia Alpha - the first ever blockchain-powered smart speaker of its kind







## Revenue Streams



Data Monetization



Product Sales











## Team



Alex Delibas



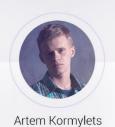
Cristian Diaconu



Anton Yushin Founder, Product Vision



Saulo Maciel Mariano
Industrial Design & Manufacturing



Video & Graphics

Advisors



Ben Way
World-renowned startup technologist, inventor
and serial entrepreneur based in Silicon Valley
Business Development



Francois Poupard

Business Development Manager at Ethfinex,
blockchain and cryptocurrency expert

Business Strategy



Gerald Friedland
Professor at UC Berkeley, Specialist in Artificial
Intelligence and Speech Recognition
Artificial Intelligence



Andrei Popescu
Co-Founder of COSS.ID & SCX Holdings,
Seasoned Blockchain Tech
Blockchain Tech



Daniel Stone
Founder of Blackstone Consulting,
with focus on treasury and risk management
Financial Markets Expert



Sebastian Broways
Product design strategy specialist, User
research, UX/UI Designer
UI/UX



Jevin Maltais Software Engineer turner Product Manager, Founder of Boomlabs at, Co-Founder of Aerial ai Artificial Intelligence



Philipp Sauerborn
Legal Advisor, International Tax and
International Structuring Expert
Corporate & Tax Structure



# What We're Looking For

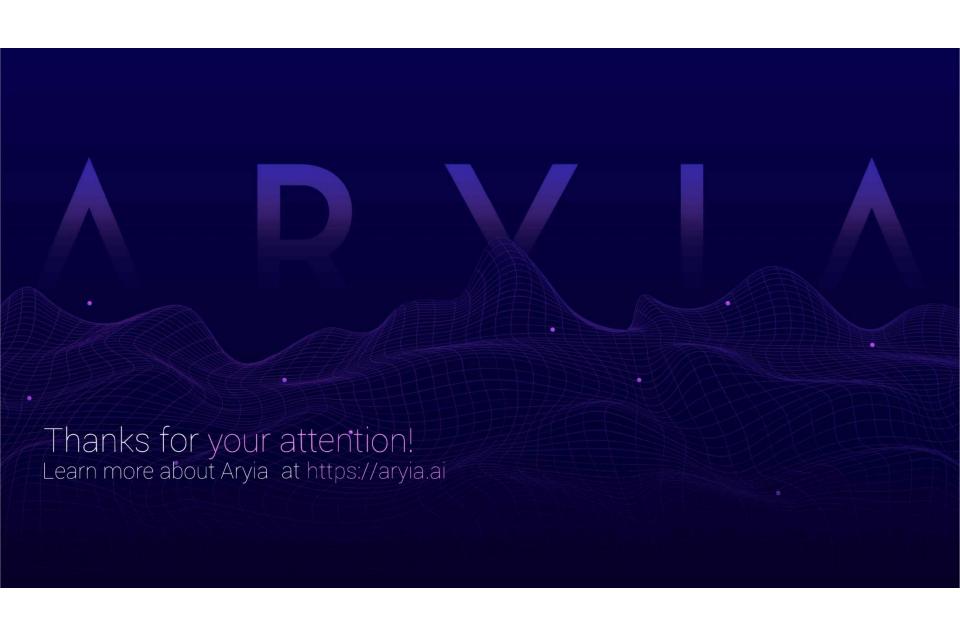


\$600,000 Private Round



#### Use of funds:

- team and advisory board growth;
- · blockchain development;
- product development and production;
- security;
- · logistics;
- · marketing.



## **FortMesa**

Delivering team security culture.





## **Security is hard:**

- Train cyber warriors.
- Silo them in a Security
   Operations Center.





## **Security is hard:**

- Train cyber warriors.
- Silo them in a Security
   Operations Center.

## Not working?

- More complex tools
- Better/more warriors.







# 30% of cyber jobs are currently unfilled.

- NIST, US Dept. Of Commerce







# 30% of cyber jobs are currently unfilled.

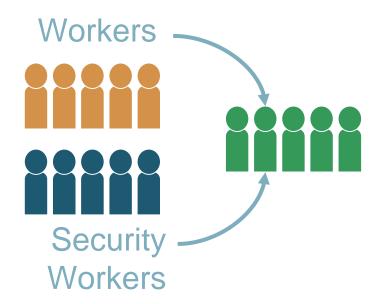
- NIST, US Dept. Of Commerce

## Meanwhile,

Tech Users: "Not My Problem"



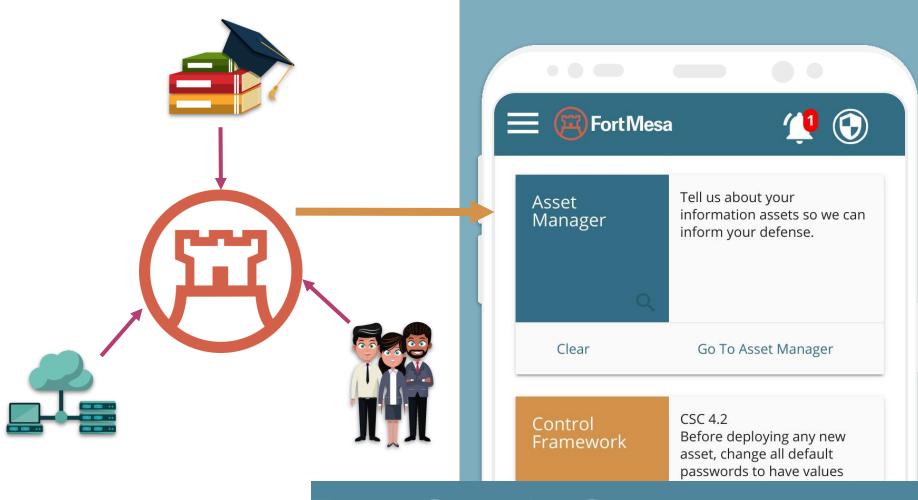






Team Security Culture



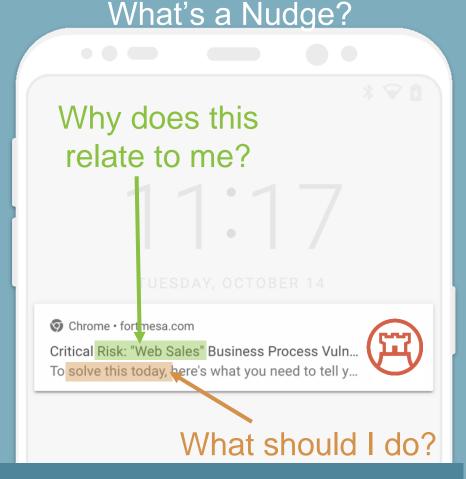


Team Security Culture



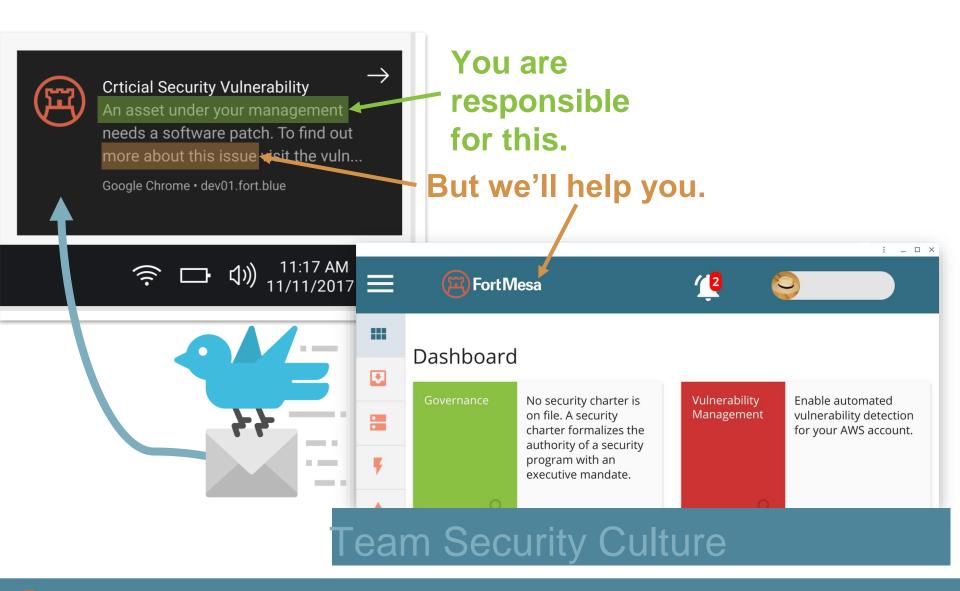
#### Who gets a security job?

- Security Professionals
- Risk & Compliance
- Technologists
- Managers
- Leadership



Team Security Culture







#### **Key Talent**



**Matthew Fisch** Founder & CEO



**Karan Sharma Lead Developer** 



**Sumit Jaryal UX** Designer



**Danny Swett Lead Engineer** 



**Sushma Rani** Developer



Lori Fisch **Operations** 

#### **Strategic Advisors**



**Finance & Accounting** A. Michael Bucci Managing Shareholder Pattison, Koskey, Howe & Bucci



**Legal & Governance** John Katovich Founding Partner **Cutting Edge Counsel** 



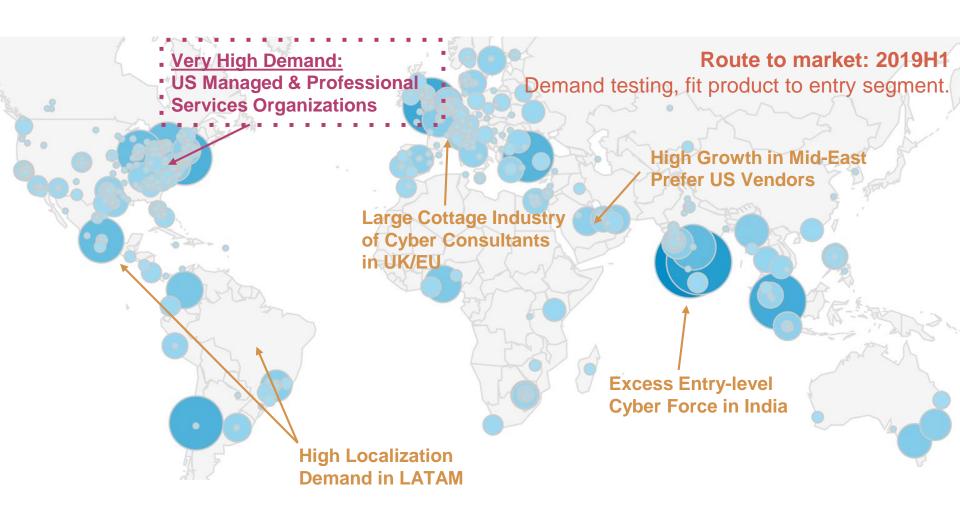
**Intellectual Property** Paul C. Rapp, Esq. Independent Counsel



Offshore Talent Inderjit Singh Managing Partner Geek Informatic Limited

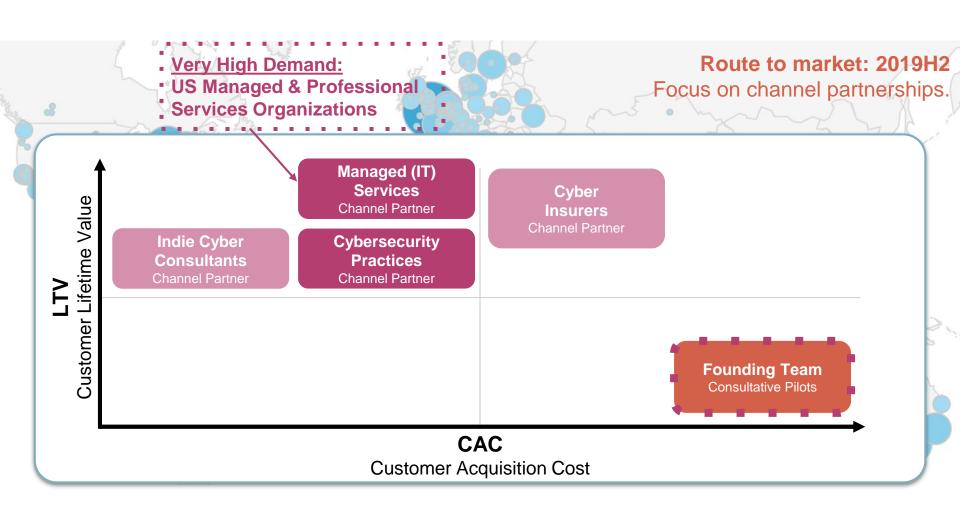
FortMesa Team





#### **Inbound Demand**



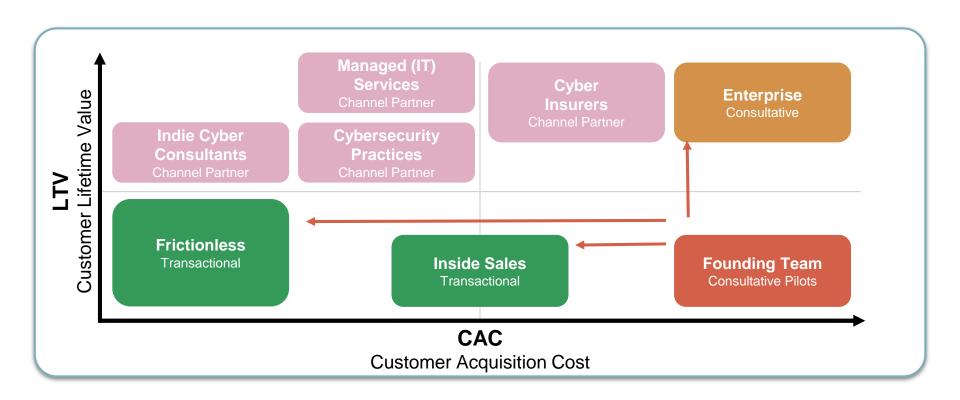


#### Sales Channels



#### Route to market: 2020 and Beyond

Full market multi-channel strategy.



#### Sales Channels



#### **US Market Opportunity 2023 (Forecast)**

Domestic figures represent 40% of global opportunity.

Security Services Vendors Consulting, Managed, Outsourced

\$33.9B

\$10B growth

\$22.4B

Less than 500 employees

Too small for a SOC?

Use Current Workforce to Fill Empty Cyber Jobs

\$4.3B

Integrated Risk Management Software

\$3.6B

\$897M growth

We estimate \$13,731 in annual savings per head.

Sources (2019): Gartner & IDC Spending Forecasts, US NIST and US BLS Statistics

Addressable Market



#### We're asking you to support our mission.

### \$1.5m for our next 2 years of growth.

#### Key Use of Funds

- Build a competitive moat of integrations.
- Scale an internal sales & success competency.
- Power outreach to channel partners and enterprise.

#### The Ask



#### We're asking you to support our mission.

## \$1.5m for our next 2 years of growth.

#### **Key Use of Funds**

- Build a moat of integrations.
- Scale sales & success.
- Power outreach campaigns.

#### One more ask:

Help us recruit early adopters!

- IT MSP or Security MSSP
- Cyber Consultancy
- Anyone.

The Ask







**Team Security Culture** 





## ACCELERATING THE CYBERSECURITY WORKFORCE

Presented By Bobby Sheppard and Jay Anderson July 2019



#### The Problem

## There are 3.5 million cybersecurity job vacancies Worldwide.

60% of surveyed companies say their companies are at moderate or extreme risk of cybersecurity attacks due to this shortage.

Cyberattacks will cost 6 TRILLION dollars globally by 2021.



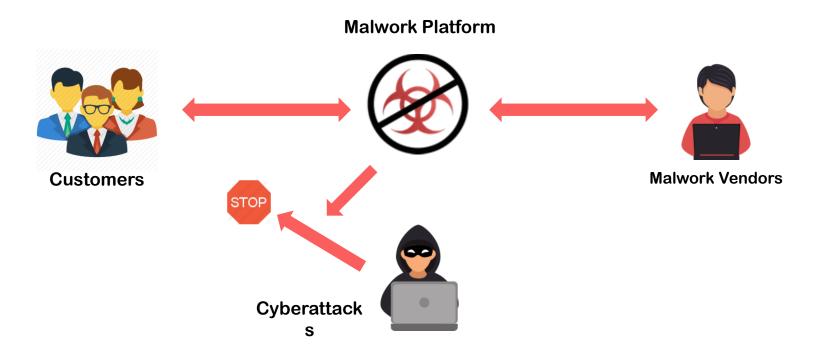


Malwork platform provides a cost-effective subscription-based Cybersecurity Marketplace.

Our Platform enables customers to have virtual access to a virtual cybersecurity workforce that is ready-to-work on day-one.



Our goal is to ENABLE cybersecurity professionals to operate micro-businesses through the Malwork Platform to serve their customers virtually.



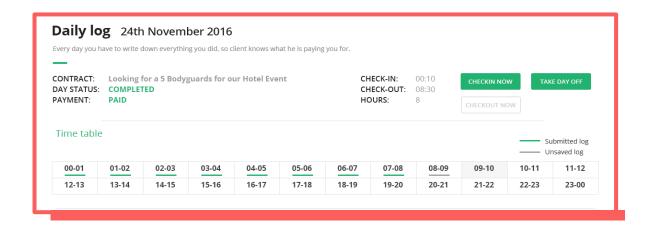


#### **Optimizing Workflow on All Sides.**

#### **Client Experience**

- ✓ Simple Dashboard
- √ Tiered Subscription Model
- √ Vendors filtered by skills and requirements

- √ Transparent daily logs and payments
- √ Vendor ratings
- ✓ Powerful communication and alerts



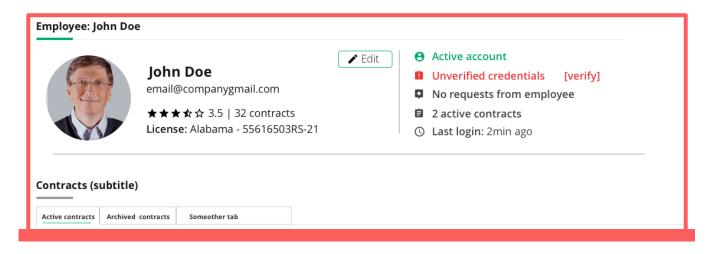


#### **Optimizing Workflow on All Sides.**

#### **Vendor Experience**

- ✓ Powerful Dashboard
- ✓ Employee management
- ✓ Customer rating

- ✓ Role based access control
- ✓ Simple tools
- ✓ Cybersecurity certification system

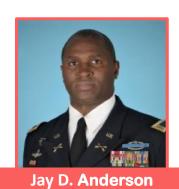






**Bobby Sheppard** 

Founder and CEO
U.S. Army Veteran with 25
years National Security
expertise.
7 years start-up experience



Co-founder and CMO

Retired Chief Warrant Ofc. U.S. Army Spec Ops. 20 years Law enforcement and Cyber Security experience.



**Dušan Stojadinović** 

**Co-founder and CTO**Full Stack Developer 8+ years, former CTO @ appCarGo.com



Strategic Advisor



CISO Advisor



PaaS model = Gig-Economy

**HIGH-END MARKETPLACE** 

**Unique Subscription-based Model** 



#### Business Model How We Earn Revenue

**Digital Security Advisory - Precursor to Marketplace** 

#### **Cybersecurity Marketplace**

\*Malwork receives 10-20% of revenue per vendor

#### Phase 1

#### **Platform Enabled Vendors**

Tier 1

Start-up

\$7/mo
(per employee)

Tier 2

**Company** 

\$15/mo

(per employee)

Phase 2

#### Malwork Cybersecurity Marketplace

Tier 1

**Small Business** 

\$500-\$800/mo

Tier 2

Growth

\$2500-4000/mo

Tier 3

**Enterprise** 

\$5000-8000/mo

#### Phase 1 - 6-12 months

Building database of Cybersecurity Professionals (and their customers). Testing the platform.

Phase 2 - 12-24 months

Full Beta Launch of the Cybersecurity Marketplace.



#### **Primary Target Market**

**Cybersecurity Professionals seeking Part-time revenue.** 

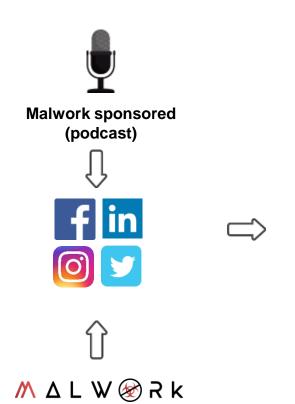
Cybersecurity Professionals seeking to have a less expensive way to build their business.

**Secondary Target Market** 

Companies who want to Post unfilled Cybersecurity Jobs.



#### **Customer Acquisition**



**Marketing Team** 







Over the past 2 months we've spoken to over 60 potential customers.

Our prospective **customers** are **seeking**:

- Optimization of Resources
- Cost-Effectiveness
- And a skilled Workforce

All of which are more plausible with a Malwork powered cybersecurity marketplace rather than a new internal hire.



- Gartner stated that by the end of 2019 companies would have spent 124 Billion on Cyber security.
- With 1 Trillion dollars spent by 2021
- These market indicators provide an open field of opportunity for a cybersecurity marketplace.



	Main Focus	Why we are better
l1ackerone	Pentesters	Multiple Cybersecurity Disciplines Represented
<b>♦</b> toptal <sup>™</sup>	Developers and Designers	Our subscription-model lends to long-term engagements
Cybers Nour Staffing and Job Searching Partner	Cybersecurity Staffing Company	Enables Micro-businesses
		MΔLW@Rk



#### **Funding**

## Raising 1.5M

#### **ALLOCATION OF INITIAL FUNDS**

- Virtual Office Space
- Consulting CISO for platform information Sr. DEV contractors
- Full-time Front-end Developer
- Full-time LinkedIn and Instagram Branding outreach team
- Full-time Vendor Management Executive to attract and keep Malwork Vendors
- Full-time UX/UI team to include graphic designer.
- Sales Distribution reps for cybersecurity
- Cybersecurity R&D tools integration development
- Part-time Mobile and Desktop development team

Thank you!

## **Thank You!**

team@malwork.com

Bobby Sheppard @ 240-440-3133

# Records Management and Compliance in the Digital Commonwealth

ISOAG Meeting July 10, 2019



Chad Owen

Records Management Coordinator

## A quick survey for starters:

How many of you have ever tried to open a file that you found was corrupted?

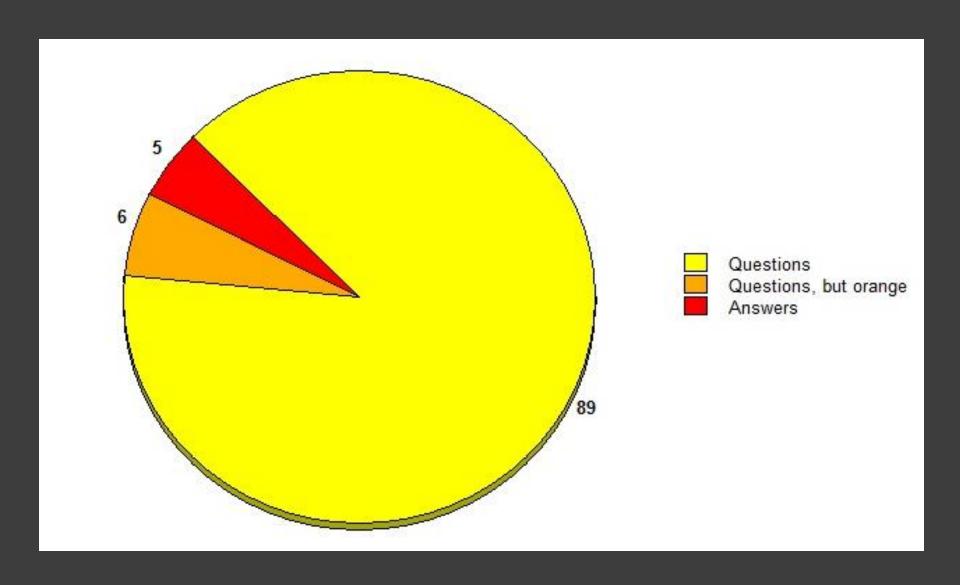
## A quick survey for starters:

How many of you have ever found a copy of a file in an odd or unexpected place?

## The fundamental dichotomy

Records in electronic form are both inherently fragile and easily duplicable: therefore, both difficult to preserve and equally difficult to confidently eradicate.

## More questions than answers



## Why records management matters

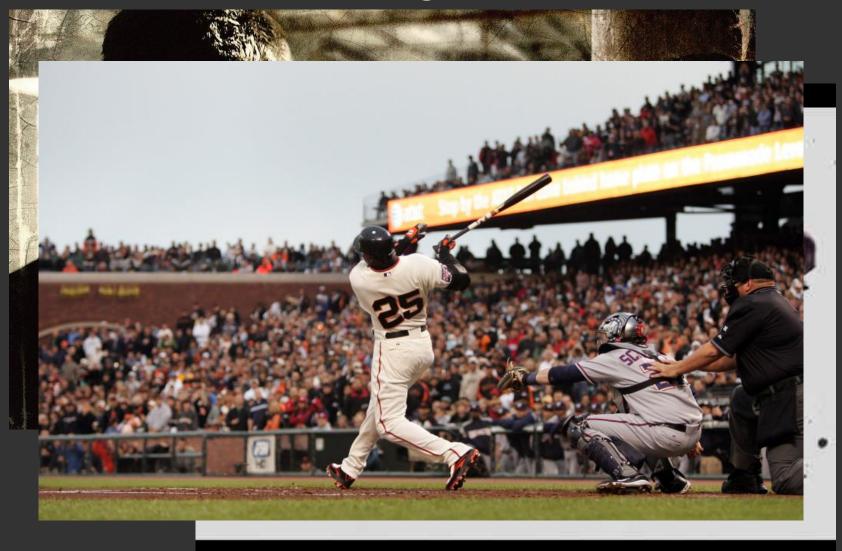
- Protect rights of citizens
- Improve efficiency
- Reduce risk of litigation
- Ensure compliance



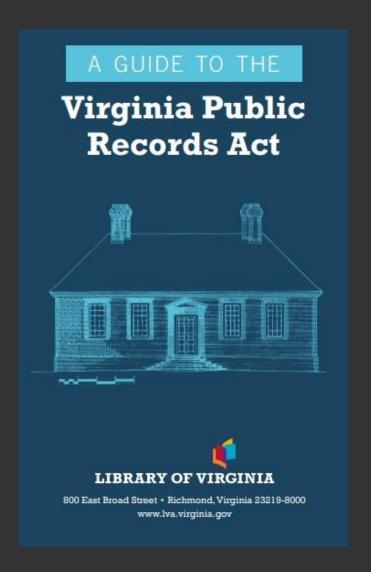
## Why records management matters



## 2006 was a good year...



## 2006 was a good year...



# What is a public record?

. . . documents a transaction or activity . . .

Regardless of physical form or characteristic . . .

... is produced, collected, received or retained in pursuance of law or in connection with the transaction of public business.

Virginia Public Records Act, COV § 42.1-77

#### What makes a record?

ContentWhat's it about?

Context

Who what when where why? Metadata

Structure

Appearance and arrangement Relationship between records/fields

#### What makes a record?

Content:

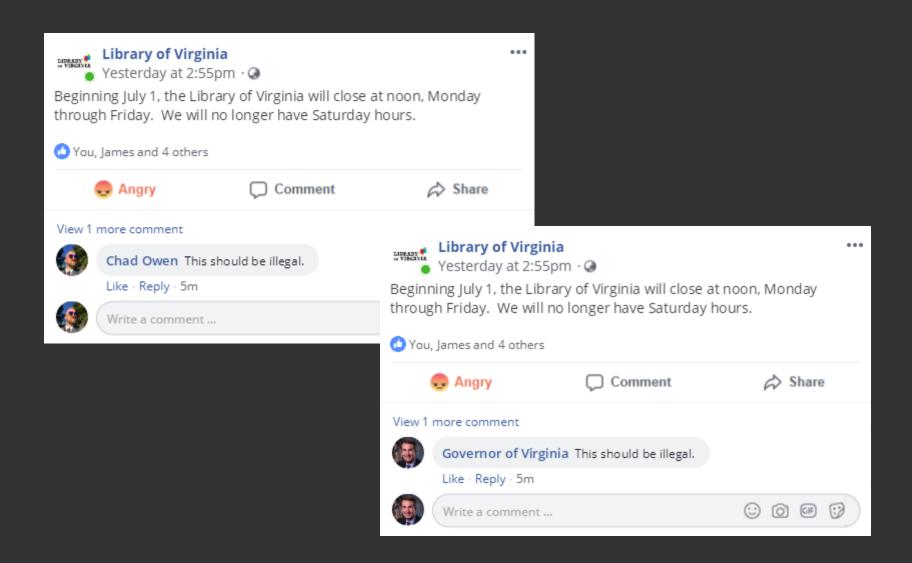
"This should be illegal."

Context:

Who said it?

Structure: When and how was it said, and what connects it to other records?

### The content is the same...

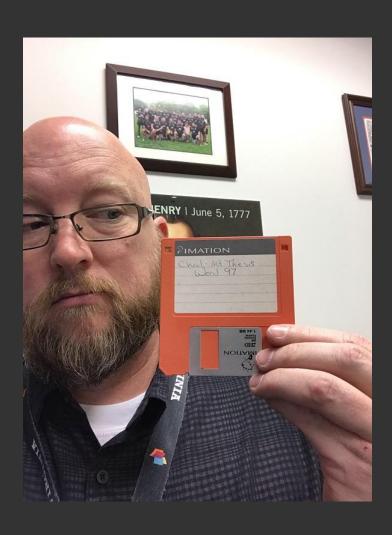


### Is it secure and accessible?

Protected from unauthorized access

 Available for subpoena, FOIA, or audit for the entire length of its retention period

# Is it really accessible?



# Conversion/Migration/Refreshing

- File formats
- Storage media
- Checking for degradation

What does success look like?

99.99% success

- ~1.3 million public school students in VA
- ~500k real estate transactions annually

### Records loss should never happen!





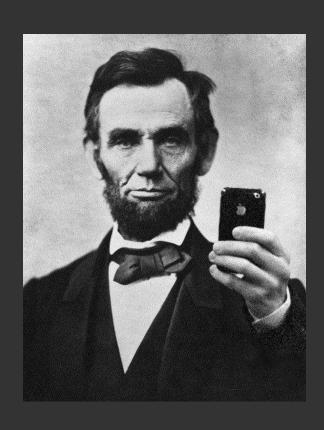
RESEARCH NOTES NUMBER 30

#### Lost Records Localities: Counties and Cities with Missing Records

Numerous Virginia localities, most of them in the eastern part of the state, have suffered tremendous losses of their early records because of intense military activity (predominantly during the Civil War), courthouse fires, and/ or natural disasters. At some point, almost everyone conducting genealogical or historical research will face the problem of finding information from a county or city described as a "lost records locality."



# Is it trustworthy?





### Treat them the same

Electronic records may occasionally be susceptible to alteration. However, if they are properly secured, the danger is not greater than the equivalent danger to hard copy records.



### Destruction of electronic records

COV § 42.1-86.1(C): Each agency shall ensure that records [...] are destroyed or discarded in a timely manner [...] provided, however, such records that contain identifying information [...] shall be destroyed within six months of the expiration of the records retention period.

COV § 42.1-86(B): Recovery copies shall have the same force and effect for all purposes as the original record and shall be as admissible in evidence as the original record whether the original record is in existence or not.

# What's in your Vault?



Is Vault enabled?
Do you use default settings?
What is happening to messages in Vault?
Do the users know what is happening?

### Destruction of electronic records

The best defense is a good offense.



### Destruction of electronic records

- Encourage the use of shared drives/documents rather than emailing drafts back and forth
- Use file naming structures that help distinguish between versions of documents, especially the finished, final, official version
- Encourage regular cleanups of shared drives and email accounts

# Don't panic!

Help is available!



#### **Records Management**

Under the authority of the Virginia Public Records Act, the Records Management section at the Library assists state and local government in ensuring that public records are maintained and available throughout their life cycle. Records Management supports the efficient and economical management of public records by publishing records retention and disposition schedules, presenting workshops, monitoring the disposal of non-permanent records, and assisting with the transfer of permanent records to the Archives.



Use the **contacts** page to identify your agency/locality records officer and LVA records analyst.

- Services Education/training, State Records Center, Imaging Services
- · Retention Schedules
- Records Oversight Committee
- Forms
- Infolinx
- Publications
  - o Virginia Public Records Management Manual 📆
  - Tip Sheets
  - · Creating Policy and Procedures



Electronic Records Guidelines



- o Guide to the Virginia Public Records Act 📆
- Guidance
  - Box Specifications
  - Destruction of Records Containing Social Security Numbers
  - Disaster Planning Emergency Pocket Response Plan (Council of State Archivists)
  - · Statement on the use of text messaging and private e-mail
  - Timely Destruction of Records
- Organizations and Regulations

### Contact

All forms and schedules, as well as additional resources, available at:

www.lva.virginia.gov/agencies/records

For specific questions, contact your designated Records Officer, and then your assigned LVA

Records Management Analyst

# Thanks for all you do!

Chad Owen
Records Management
Coordinator
Library of Virginia
chad.owen@lva.virginia.gov







# **Upcoming events**







## **Upcoming Events**

(ISC) 2 Richmond Chapter Meeting

Date: July 25, 2019

Time: 6 - 8 p.m.

Venue: ECPI Innsbrook

4305 Cox Rd, Glen Allen, VA 23060

https://www.isc2rva.com/events

ISOAG meets the first Wed. of each month in 2019





## Upcoming events

(ISC) 2 Richmond Chapter Meeting

Date: Aug. 29, 2019

Time: 6 - 8 p.m.

Venue: Tech for Troops

4840 Waller Rd, Richmond, VA 23230

https://www.isc2rva.com/events

ISOAG meets the first Wed. of each month in 2019



#### Future ISOAG

Aug. 7, 2019 @ CESC 1 - 4 p.m.

Speakers: Tanya Nacey, SAIC
Barry Davis, DSS
Debi Smith, VITA
TBA, VITA

ISOAG meets the first Wed. of each month in 2019





### **ADJOURN**

#### THANK YOU FOR ATTENDING

