



Team
4Front

IT493 Final Presentation



Networks

Team Preparedness

Meet the Team

Shuaib Ahmed



Team Lead

Concentration
Cybersecurity

Danial Qureshi



Agile SME

Concentration
Health IT

Caitlin Dickson



Front-End
Security SME

Concentration
Cybersecurity

Justin Park



Back-End
Security SME

Concentration
Cybersecurity

Karanbeer Singh



AWS SME

Concentration
Database
Technology
& Programming

Pete Quinn



Analytics SME

Concentration
Database
Technology
& Programming

*SME = Subject Matter Expert

A background image showing a close-up of two people in business attire shaking hands. The person on the left is wearing a light-colored shirt, and the person on the right is wearing a dark suit. Their hands are clasped in a firm grip. In the background, other people in business attire are visible, some looking at documents or a laptop on a table.

Client Overview

Client Overview

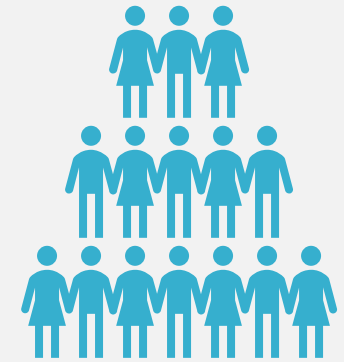
Overview of the Client



Provide software and hosting
for development of knowledge
aggregation hubs



Created the Digital Democracy
Network (DDN) for state
politics



Support Democracy onAir, a
nonprofit, nonpartisan
organization run by college
students

Client Overview

Client Operations Complexity

Ownership/Stakeholders



IT Systems



AWS EC2



Vimeo



WordPress



Google Drive

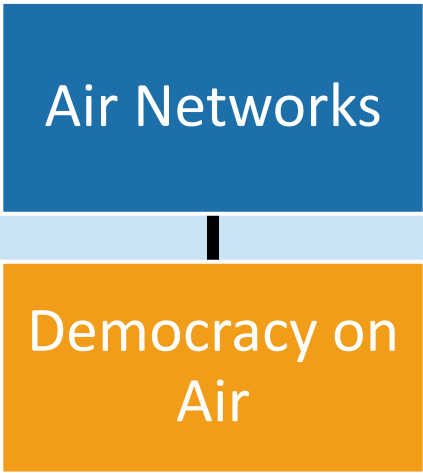


GitHub

Air Network Stakeholders

- Todd Gillette, CEO
- Scott Joy, Chairman
- Jim McLean, CMO
- Politicians
- Voters
- College Students

Organizational Structure





Business Problems & Business Case

Business Problems & Business Case

Business Problems Solved

Task Management

JIRA Cloud/Confluence



Cloud Server Management

Auto scaling and application load balancing



Cybersecurity

Login security, brute force prevention, and security assessments



Interactive Mapping

Interface to display relevant political information geographically



Web Analytics

User traffic aggregation through dashboards



Business Problems & Business Case

Business Problem Quantification

<u>Process</u>	<u>Solution</u>	<u>Cost</u>	<u>Benefit</u>
Task Management	JIRA Cloud/Confluence	FREE	Faster Development
Server Management	AWS Services	\$20/monthly	Higher availability
Cybersecurity	WordFence/AWS	FREE*	Reliability
Interactive Mapping	WordPress/GitHub	FREE	User Engagement
Analytics	Google Analytics	FREE	Quantifiable metrics

*FREE = Possible cost may occur if client wants to upgrade to the next tier in the future

Business Problems & Business Case

Business Case for Change

Case

1

As a startup run by a technical team of one person, Air networks would struggle to achieve their goals without support



Our Solutions

2

Provide solutions that make Air Networks the primary source of curated political information





Project Deliverables

Project Deliverables

Development Plan & Results

Planned Scheduled Baseline



- Waterfall development approach
- Estimated milestone completion dates based on research

Actual Schedule Results



- Changed to an agile approach
- Continuous client contact
- Longer setup phases for certain areas
- COVID-19 setbacks
- Team adjusted well

Project Deliverables

Test Plan & Results

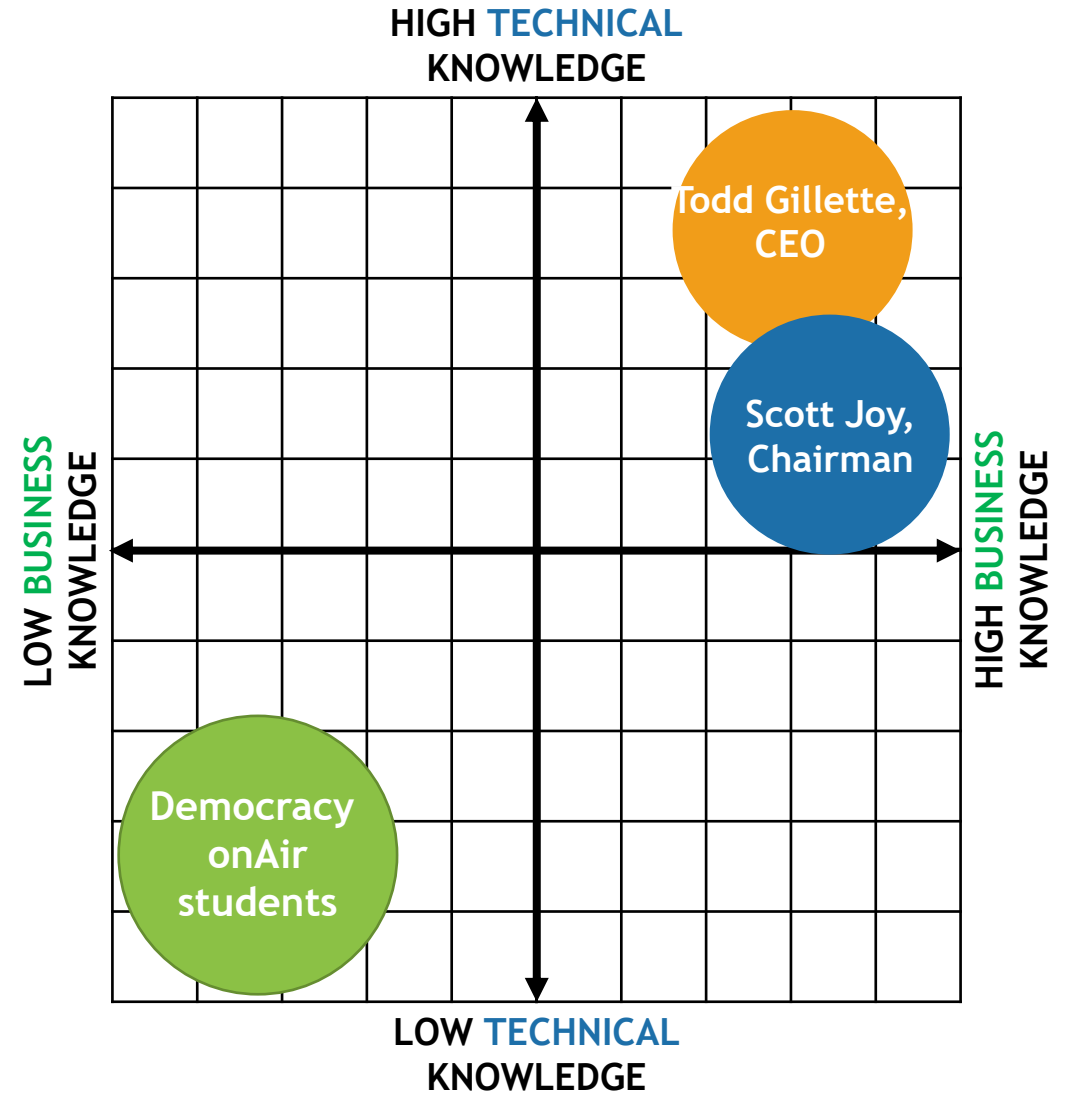
Test Plan			Test Results		
Testing Each Service	Assigning Testers	Documenting Results	Learning about the Solution	Reporting our Findings	Initiating the next phase
 Jira AWS Load Balancer Wordfence Interactive Mapping AWS Trusted Advisor & Inspector Google Analytics	 Each team member tested his or her solution	 Record user (tester) activity Use documents as a resource for the solution	 Testing enabled each team member to be more familiar with their respective solutions	 All our testing were successful, and the findings have been sent to the client for review	 Testing phase was a success and our team can apply the results to the next process

Project Deliverables

Training Plan & Results

Team 4Front utilized **ROLE-BASED** training

Project Deliverable	Training Methodology
Training Plan	1. In-person sessions  2. Teleconferencing  3. Documentation 
Training Results (Finished April 3, 2020)	1. Teleconferencing  2. Documentation 

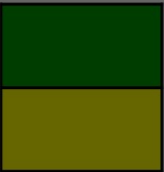


Project Deliverables

Quantification Plan & Results

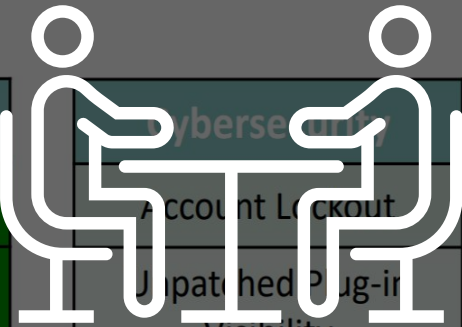
Quantification Plan

- Discuss with our client the needs and requirements for each solution
- Utilize needs and requirements as benchmarks for our metrics and project scope
- Gather data based on how we accomplished those metrics



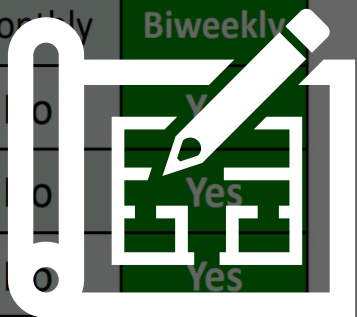
Process Improvement

No Change



Quantification Results

- Satisfied most of the client's needs with only a two process areas unchanged (number of cloud servers & unpatched plug-in visibility)
- Gathered data through testing, documentation, and training
- Reported metrics and results to our client



Project Deliverables

Transition Plan

Testing	Performed functional testing	
Initial Deployment	Determined if deployment was feasible	
Training	Planned to conduct role-based training and create user guide documents as a resource	
Solution Sustainment	Provided external contact resources such as vendor support	
Final Deployment	Solution is fully deployed, documents are handed off to the client, and project is completed!	



Success
Business

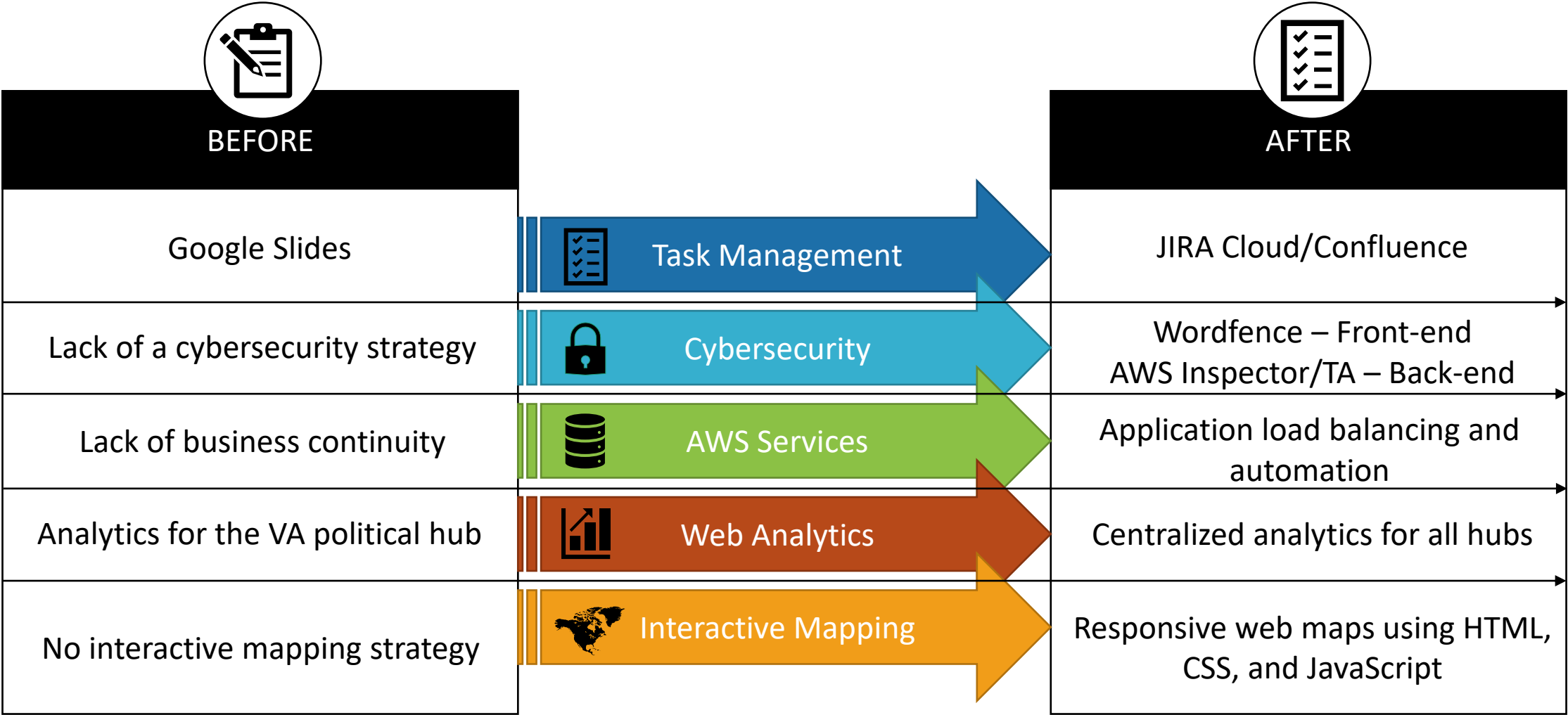
Changed Business Process

Innovation
Branding
Solution
Marketing
Analysis
Ideas
Success
Management

Solution

Changed Business Processes

Overview



Project Completion & Transition

Project Completion & Transition

Addressing Implementation Challenges



Flexibility

Changes in business/functional requirements



Time

Ensuring timely delivery on solutions



Cost

Costs associated with process area implementations



Project Completion & Transition

Completed Documentation

138-Page Turnover Document - Our Legacy of Solutions

Contains:



Design Documents



Source Code



User Guides & Training Manuals



Policies



Maintenance Agreements



Points of Contact



Solution Sustainment

Turnover Documents

Air Networks

DEMOCRACY



Learn. Discuss. Engage.

April 21, 2020

Air Networks · Team 4Front

Team Members

Shuaib Ahmed
Danial Qureshi
Justin Park
Caitlin Dickson
Karanbeer Singh
Pete Quinn

1

138

Project Completion & Transition

Testing is Complete



Task Management

Atlassian JIRA

Created user accounts, boards, and epics



Server Management

Amazon EBS, Auto Scaling

Healthy instance remains active



Cybersecurity

Wordfence, AWS Inspector,
AWS Trusted Advisor

Receive automated security reports and alerts



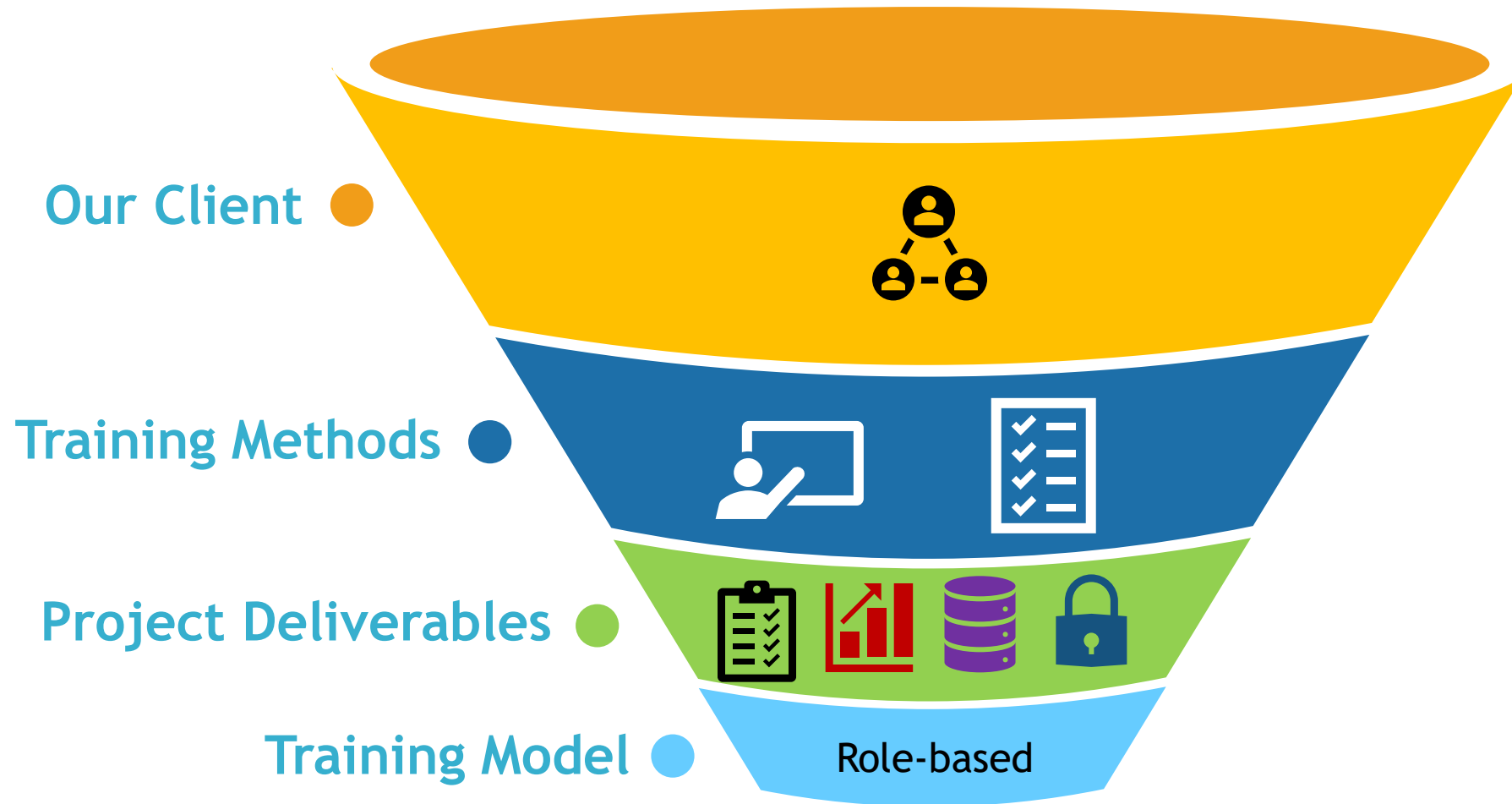
Interactive Mapping

Custom HTML, CSS, JavaScript

Verify functionality of the interactive maps

Project Completion & Transition

Training is Complete



Project Completion & Transition

IT Solution Sustainment



Atlassian Helpdesk
Atlassian Documentation



AWS Support
AWS Documentation



Wordfence Support
Wordfence Documentation



Mapping Documentation



Google Analytics

Google Support
Google Analytics Documentation
Google Analytics Academy



Project Completion & Transition

Project is Completed

- Project completed on time
- Documentation has been compiled
- Solution handed off to Air Networks
- Client satisfied with team performance and solutions



Project Demonstration

THANK YOU!

Questions?