Roper Center:  
Where are we now?  
Where are we going?

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IAASSIST & CART 2018
Overview

• Review of the Roper Center
• Accomplishments since 2016
• Discovery Process
• Roadmap
• Q & A
About the Roper Center

• Largest archive of public opinion data in the world
• Founded in 1947, with data going back to the 1930s
• iPOLL Search – subscription service to search the Roper Center Archive
• IT Staff of 3
  • Two developers
  • One Systems Administrator
Recap from 2016

• 3 phased approach
  • 0.0 – Current state
  • 1.0 – Rebuilt applications with same functionality as 0.0
  • 2.0 – Additional features and enhancements
Why are we doing this?

• Update the look and feel
• Provide better search functionality
• Provide better metadata
• Increase security
• Increase speed at which we can deliver new features
Accomplishments

• Built a new archive management application
  • Guided workflow style
  • Unified system for ingest of questions and datasets
• Normalized and migrated old archive into new archive
• Migrated current architecture to the cloud
• Automated column binary conversion
# Projects and Versions

## iPOLL

**v1.0**
- Public API
- Unified Search
- SAML Integration
- OAuth Integration
- Demographic Breakdown
- Standardized Citations
- COUNTER Usage Reports
- Search History
- Persistent Folders
- Partner Search

**v2.0**
- Member Self-Service Reporting
- TrendBuilder
- Data Explorer
- DDI Export

## Archive Management

**v1.0**
- Unified Ingest
- Metadata Normalization
- Metadata Validation
- Self-Service Data Deposit
- Central Archive Management
- DOI Generation
- Column Binary Conversion
- Automated File Integrity Validation

**v2.0**
- Automated Categorization
- Automated Topic Assignment
- Automated Metadata Extraction
- ASCII Conversion
- Replication Data Ingest

## Presidential Approval

**v1.0**
- View presidential approvals
- Graph Builder
- Shareable Graphs

**v2.0**
- Global ‘Executive’ approval

## Infrastructure

- Centralized Logging
- Cloud Hosted
- Fault Tolerant
- Automated System Health Checks
- Microservice Architecture
- Scalable
Archive Management v1.0

Archive Management v1.1

iPOLL v1.0

iPOLL v1.1

iPOLL v1.2

Archive Management v2.0

Presidential Approval v1.0

Website Redesign

iPOLL v2.0

Presidential Approval v2.0

America's Voice Project

Infrastructure
Release Methodology

• Phased Approach
  • New systems live alongside old systems
  • Shut off specific systems when new systems are rebuilt

• Migration Service
  • Allows Archive Management system to edit data, then migrate to old systems for public searching.
In Closing

• We’ve been busy!
• Building a new archive is hard
• There’s a lot more to do
  • Finish iPOLL
  • Build v2 features for iPOLL, Archive Management, Presidential Approval
Questions?
Thank you!

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