World Meeting of Families (WMOF)
- Initiated in 1994
- Gathering of the Roman Catholic Church
- Occurs every 3 years
- Speakers and activities regarding pastoral care of families
Introduction and Background

Papal Visit
- Spring of 2015 the Vatican announced plans for Pope Francis’ visit to U.S.
- Primary objective = participate in the WMOF in Philadelphia
- Anticipation – significant increased attendance
Southeastern Pennsylvania Transportation Authority (SEPTA)

- Philadelphia metropolitan region’s transportation agency
- Operates - bus, subway/elevated rail, commuter rail, light rail, trolley
- Serves - 3.9 million people
SEPTA’s Challenge

How to facilitate transport of well over 1 million anticipated mass transit riders?!?

- Limited number of transport modes
- Limited number of accessible stations
- Limited capacity at each station
- Limited time frames for travel into the City and back out
- Limited time frame to set up and remove equipment
- Health and public safety concerns at stations and during commute
SEPTA’s Strategy

1. Pre-Define regional rail stations providing accessibility/parking
2. Strong coordination with local government officials
3. Engage Gannett Fleming Inc. to support overall planning effort
4. Develop 3 sub-plans to support anticipated 10-13,000 passengers/station
   • Developing parking lot classification, designation, and assignment plan for each station
   • Developing vehicles and pedestrians traffic plan to and from each stations (macro level)
   • Developing passenger queuing plan within each station (micro level)
5. Utilize plans for public communications and outreach
1. Leverage Geospatial IT as much as possible to support planning process
2. Utilize the ArcGIS platform specifically
   - Data Collection
   - Data Analysis
   - Data Visualization
   - Planning Documentation
   - Communications/Reporting Support
Gannett Fleming/GeoDecisions’ Strategy

Why the ArcGIS Online based Platform?

Team comprised of
• Different disciplines
• Some individuals with little/no GIS experience
• Needed a solution FAST!

Who needed to simultaneously, in real-time
• Capture spatial data
• Edit/Update spatial data
• Share spatial data
1. Oracle RDBMS – enterprise spatial data storage
2. Desktop maps – supporting different planning activities
3. Server services – published webmaps through AGOL
4. Mobile apps – supporting field data collection/verification
1. Oracle database access - only available through Oracle user credentials
2. ArcGIS server services - secured web services
3. ArcGIS Online - special group created for the team
4. ArcGIS Online - published data and maps only shared between the members of the group through invitations
Field Data Collection Support Needs

Needed to facilitate in the field
- Verification of station accessibility
- Identify parking lots in proximity to rail station
- Collect attributes of potential parking lots
- Identify potential passenger queuing areas
- Identify preliminary emergency aid station areas and entrance/egress paths
- Evaluate vehicle traffic flows around rail station
- Define initial traffic management plan elements
- Begin to determine pedestrian traffic flow and signage
Field Data Collection Support Solution

Mobile Hardware Solution – iPads

Mobile Software Solution – access published ArcGIS Online web maps through Esri Collector app
Field Data Collection Support Solution
Field Data Collection Lessons Learned

1. **ArcGIS for Server**
   1. Need to have a public exposed domain to the internet
   2. For easier data access; the map services credentials were saved within ArcGIS online

2. **Syncing offline field work**
   1. Requires the Geodatabase Archiving option to be enabled
   2. Features to have GlobalID for editing.

3. **Large sized images**
   1. Did not often get loaded as attachment
   2. Required to bring back to office to download and link
World Meeting of Families and Papal Visit

The week of September 21st the World Meeting of Families will be held at multiple event locations in center city Philadelphia. The event culminates with the visit of Pope Francis from September 26-27th. SEPTA provides effective and efficient transportation options to help you and your family travel to and from center city to attend the planned events.
Papal Visit Story Map

Schedule and Events

Saturday, September 26, 2015 — Philadelphia
- Cathedral Basilica of St. Peter & Paul, Holy Mass, Homily
- Independence National Park, Religious Liberty Meeting, Speech
- Benjamin Franklin Pkwy., Festival of Families, Speech

Sunday, September 27, 2015 — Philadelphia
- Meeting with Victims of Sexual Abuse, Speech
- St. Martin of Tours Chapel, St. Charles Borromeo Seminary, Meeting with WMOF Bishops, Speech
- Curran-Fromhold Penitentiary, Meeting with Prisoners, Speech
- Benjamin Franklin Pkwy., Holy Mass - WMOF Closing Mass, Homily
- Atlantic Aviation (PHL Airport), Greeting of WMOF Organizers, Speech

SEPTA Station Locations

SEPTA plans to utilize specific trail stations and transportation centers to support the commuting needs of attendees. The map to the right displays the designated stations, as well as primary event locations.
Regional Rail Station Traffic and Parking Planning

SEPTA coordinated with local officials and public safety agencies to determine safe and easy ways for train riders using SEPTA's system to get to and park at the designated regional rail stations.

The map to the right allows you to zoom into the train station at which you purchased your special train tickets. Please take care to note the planned vehicle and pedestrian traffic plan, as well as anticipated parking options, prior to your trip to the station to make your experience comfortable.
Conclusion

1. Actual attendance numbers significantly lower than anticipated
2. ArcGIS Platform resulted in substantial time/cost savings for planning process
3. Team able to field staff, collect data, and conclude major planning efforts within 2 months
4. Team members remarked on ArcGIS Online and Collector app ease of use
5. SEPTA decided not to release web apps or story map to public
6. SEPTA developed their own CartoDB-based web map for public communication