

Mapping These Old Houses

How ArcGIS helps preserve cultural and historic resources

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What Drives Preservation?

In a word, Growth

From 2010 – 2020 a booming city like Charlotte will bear witness to:

- 5.2 million square feet of new office space
- 2,111 new hotel rooms
- 13,176 new residential units
- 809,000 square feet of new retail space



Why Keep the Old Buildings?

1. They have intrinsic value.
2. When you tear it down, you never know what's being destroyed.
3. Some businesses prefer, and thrive in old buildings.
4. Old buildings attract people
5. They provide permanency and heritage
6. Regret only goes one way *



Reconstruction: Best to Avoid, If Possible



Regrets

Penn Station, NYC



Equitable Building, Atlanta



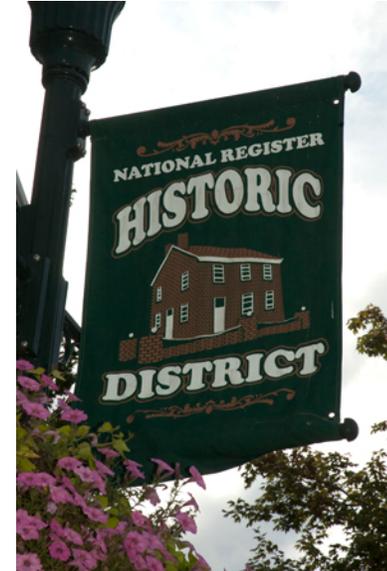
Masonic Temple, Charlotte



Action

History of Historic Preservation in the US

- 1853: Mount Vernon (George Washington's house) bought by Ann Pamela Cunningham (Mount Vernon Ladies Association) for its protection.
- 1910: Society for the Preservation of New England Antiquities is established. Federal Antiquities Act is established.
- 1949: The National Trust for Historic Preservation is established with an official charter from Congress.
- **The National Historic Preservation Act of 1966.**
 - A national registry of historic buildings is set up.
 - Tax benefits aid approved rehabilitation work.
 - Standards Established.



Specifically

- “Section 106”
 - Requires federal agencies to take historic properties into account in their undertakings
- “Section 110”
 - Requires federal agencies to inventory and appropriately treat historic properties on their own lands

Expensive mistakes, relative to Historic Preservation

- Building Things on Top of Old Stuff
- Making Changes to Old Stuff
- Disturbing Graves



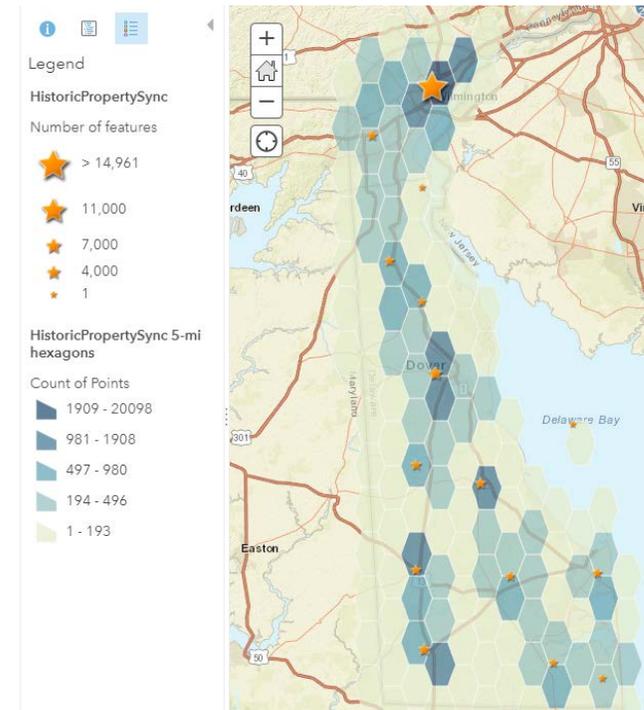
What needs
protection?

Where is it
located?

ArcGIS

Introducing CHRIS

- ArcGIS Online portal
- Multiple maps, apps and stories
- Empowers the agency, consultants and the public with information about Delaware's historic resources
- <https://chris-users.delaware.gov>
- Two Levels of Apps

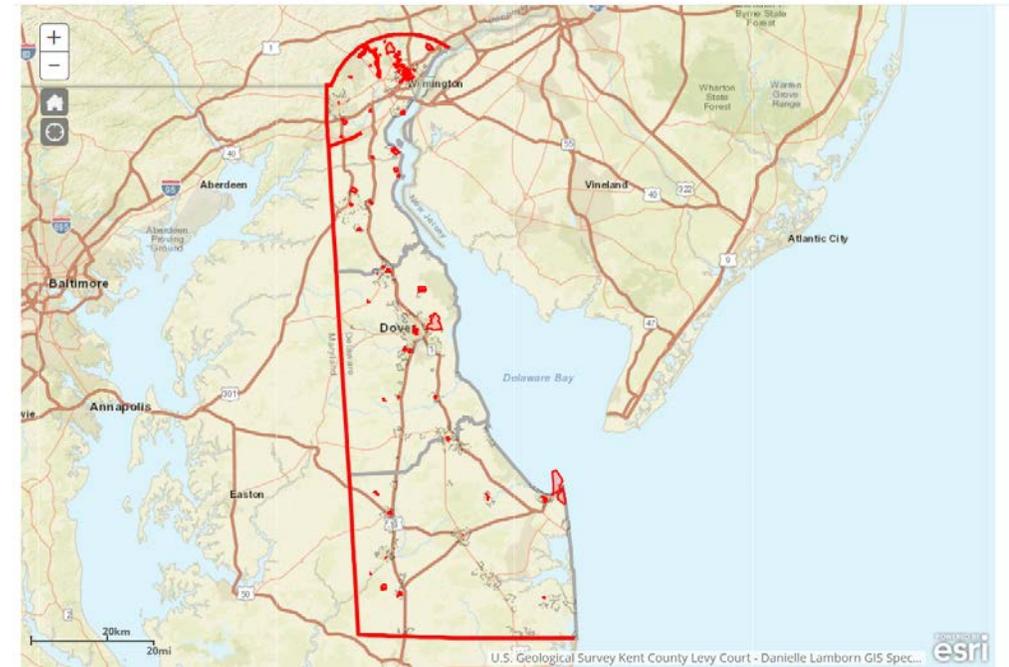


Apps for The People

National Register Properties App

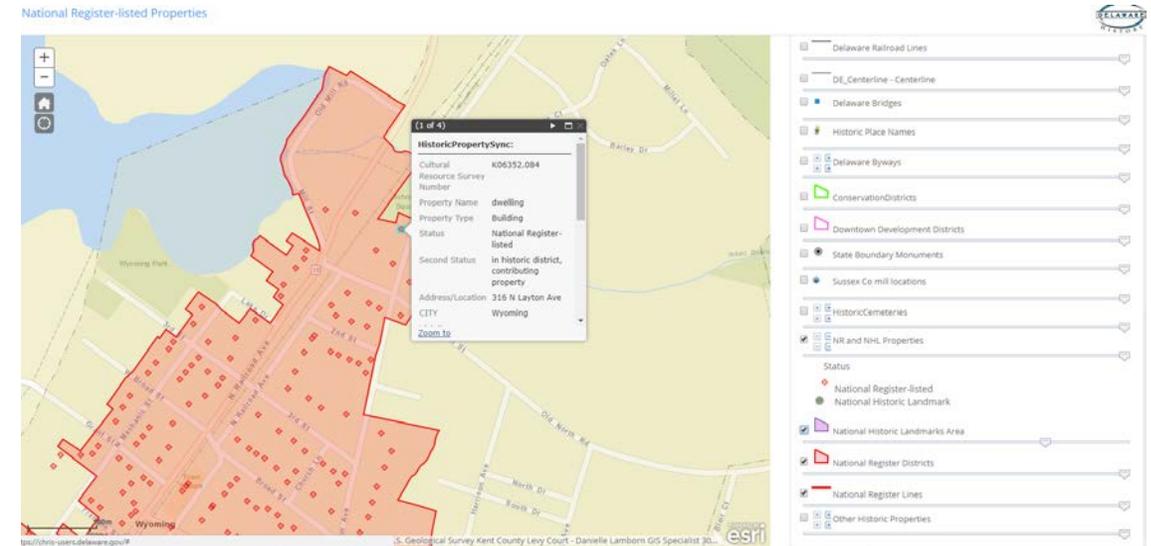
- Loads of data-goodness
- Search
- Print
- Measure
- Free & Open to the Public

National Register-listed Properties



The Data

- National Register Places, and Districts
- National Historic Landmarks
- Cemeteries
- State Boundary Monuments
- Historic Place Names
- Conservation Districts
- State Byways
- “Hundreds” – historical deed areas



CHRIS has ... Forms

- Cultural Resource Surveys (CRS)
- National Register Forms

United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines for Completing National Register Forms* (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property
 historic name Portsville Lighthouse
 other names/site number S- 743

2. Location
 street & number North side of County Road 493 not for publication
 city, town Portsville vicinity
 state Delaware code DE county Sussex code 005 zip code 19931

3. Classification

Ownership of Property	Category of Property	Number of Resources within Property	
<input type="checkbox"/> private	<input checked="" type="checkbox"/> building(s)	Contributing	Noncontributing
<input type="checkbox"/> public-local	<input type="checkbox"/> district	<u>2</u>	<u>0</u> buildings
<input checked="" type="checkbox"/> public-State	<input type="checkbox"/> site	<u>0</u>	<u>0</u> sites
<input type="checkbox"/> public-Federal	<input type="checkbox"/> structure	<u>0</u>	<u>0</u> structures
	<input type="checkbox"/> object	<u>0</u>	<u>0</u> objects
		<u>2</u>	<u>0</u> Total

Name of related multiple property listing: N/A
 Number of contributing resources previously listed in the National Register: NA

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of certifying official: John P. Kern Date: 6/4/1987



DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY CRS # K03717
MAIN BUILDING FORM

1. ADDRESS/LOCATION: 1063 Olin Dill Road

2. FUNCTION(S): historic Dwelling current Dwelling

3. YEAR BUILT: 1890 CIRCA?: ARCHITECT/BUILDER: Unknown

4. STYLE OR FLOOR PLAN: No discernible style

5. INTEGRITY: original site moved
 if moved, from where _____ other location's CRS # _____ year _____
 N/A N/A N/A
 list major alterations and additions with years (if known) _____ year _____
 a. N/A N/A
 b. N/A N/A

6. CURRENT CONDITION: excellent good fair poor

7. DESCRIPTION: (Describe the resource as completely as possible. Use N/A for not applicable; leave no blanks.)
 a. Overall shape: Rectangular Stories: 2
 Additions: N/A
 b. Structural system (if known): N/A
 c. Foundation: N/A materials: N/A
 basement: full partial not visible no basement
 d. Exterior walls (original if visible & any subsequent coverings): Brick and aluminum siding
 e. Roof: shape: N/A
 materials: N/A
 cornice: N/A
 dormers: N/A
 chimney: location(s): N/A

8. DESCRIPTION OF ELEVATIONS:
 a. Facade: Direction: Northeast
 1) Bays Not visible
 2) Windows Not visible
 fenestration N/A

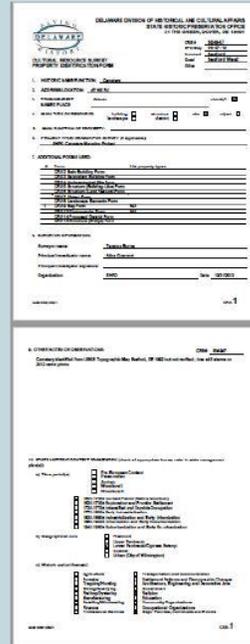
CHRIS has ... Photos



Cemeteries

Cemetery Survey Forms

- Not detailed
- Location information
- Some other information, such as photos, when available



DEPARTMENT OF HISTORICAL AND CULTURAL AFFAIRS
STATE OF MISSISSIPPI
CEMETERY SURVEY FORM

1. NAME OF CEMETERY: _____
2. LOCATION: _____
3. COUNTY: _____
4. DATE OF SURVEY: _____

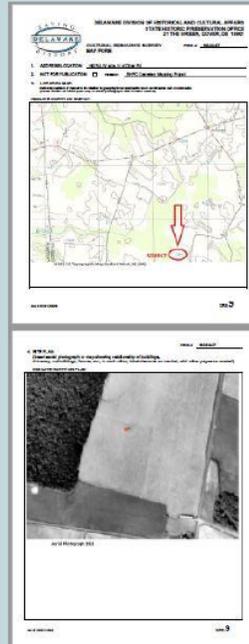
5. SURVEYOR'S NAME: _____
6. SURVEYOR'S ADDRESS: _____
7. SURVEYOR'S PHONE: _____

8. SURVEYOR'S SIGNATURE: _____
9. SURVEYOR'S TITLE: _____

10. SURVEYOR'S LICENSE NUMBER: _____

11. SURVEYOR'S EXPIRATION DATE: _____

12. SURVEYOR'S CONTACT INFORMATION: _____



DEPARTMENT OF HISTORICAL AND CULTURAL AFFAIRS
STATE OF MISSISSIPPI
CEMETERY SURVEY FORM

1. APPROXIMATE LOCATION: _____
2. APPROXIMATE LOCATION: _____

3. APPROXIMATE LOCATION: _____

4. APPROXIMATE LOCATION: _____

5. APPROXIMATE LOCATION: _____

6. APPROXIMATE LOCATION: _____

7. APPROXIMATE LOCATION: _____

8. APPROXIMATE LOCATION: _____

9. APPROXIMATE LOCATION: _____

10. APPROXIMATE LOCATION: _____

11. APPROXIMATE LOCATION: _____

12. APPROXIMATE LOCATION: _____

- Important for genealogists and family historians
- **Essential** for planners and developers!
- What happens if you un-earth something that wasn't meant to be un-earthed?
 - Lots and lots of paperwork
 - Lots and lots of extra \$\$\$

CHRIS Content

- There is a LOT of analog data out there
- The challenge is getting it into an accurate, digital format.
- Paper surveys in DE started in the 30's
 - Even the Junior League got involved – in the 60s
- Forms & data differ significantly



You think government knows all, but...

- Even with an old, small state like DE, some towns have **never** been surveyed for archaeological sites
- Most properties have **never** been evaluated for eligibility, and
- Properties' **eligibility changes** over time

Apps For The Experts

We could show you these apps, but then we'd have to kill you

- The Consultant App
 - propose new points and attach draft forms to those points for SHPO review
 - add updated information to existing points.
 - Also contains special map indexes for finding your old stuff
- The Administrator App
 - review submitted historic property information on Cultural Resource Survey forms and their map locations,
 - determine CRS number
 - edit submitted information, and
 - approve, approve with changes, or deny submittals

Consultants Submit Edits

SAVING DELAWARE HISTORY Research/Edit Map

Download CRS Forms

Click a property from the map to see details or create a new point...

Create a New Point Cancel Drawings

State of Delaware

Department of State -- Division of Historical and Cultural Affairs

Architectural and Archaeological Surveys

The materials listed on this page provide guidance on how to carry out and report on architectural and archaeological surveys in Delaware.

What is a survey?
Surveys is the physical search for and recording of historic buildings, structures, archaeological sites, and other types of cultural resources. Surveys involve background research, fieldwork, and writing reports. Fieldwork records resources that are visible above the ground or they lie present below the ground surface or underneath.

Why are surveys performed?
Surveys provide information about where resources are located, what they are, and how important they may be to our knowledge and understanding of the past. Such information is critical in planning for specific projects, and assists in managing and protecting cultural resources.

What is the purpose of the state's survey guidelines?
The Delaware State Historic Preservation Office (DSHPO) provides guidance to help surveyors meet currently accepted professional standards for research, fieldwork, and reporting. The DS SHPO also supplies forms to survey sites and records on a standard format. The forms become part of the state's cultural resource inventory, which makes the results of surveys available for other researchers. The DS SHPO staff use the guidance when reviewing survey products.

The guidance sets the standards for all types of surveys in the state of Delaware, including those:

- Funded by the federal historic preservation fund.
- Conducted by companies with Section 106 of the National Historic Preservation Act.
- Performed as part of treatment activities, such as establishing a historic building or restoring.

SAVING DELAWARE HISTORY Research/Edit Map

Download CRS Forms

Find address or place

Acres

Downers Beach

Falton

Frederica

Harrington

Lincoln

Greenwood

Elmton

Details

Temporary CRS Points

CRS Number	test-1
Property Name	test
Location Address	test
Nearest Named Place	test
Vicinity?	Near

Attachments:

None

Add:

Choose File No file chosen

Edited by GeoDecisions_DHCA seconds ago

Delete Save

Close

Admins Approve / Edit / Deny

Details

To finalize new point:
Verify that it has a CRS number and set the Review Status to Final Approval
Email creator: agali@dhca.local_DHCA

TemporaryCRSPoints

FID	16437
CRS Number	N14702
Review Status	Awaiting Final Submission
Property Name	AVA Green Tract Historic 2 988
Property Type	Site
Status	
Secondary Status	
Address/Location	Silver Run Rd (Rt 9), of E side, t
Nearest Named Place	Dent Corner
Vicinity?	Near
Hundred	Saint Georges
2nd Hundred	
Year Built	1780
Circa?	X
Restricted?	
Geoaid	64cc0d6-5796-4369-9c24-a45d
Archaeological Site #	TNC-G-192
Restricted	X
Prefabricated Site?	
Historic Period Site?	X
Mult. Prop. Subm. Name	
Mult. Prop. CRS #	
NHL Listing Date	
NHL Listing Date	
S3_URL	
Longitude	
Latitude	
Notes	
Theme	

This features is ready for approval

Email creator: atarantino@dhca.local_DHCA

Upload a Private Attachment:

Choose File No file chosen

TemporaryCRSPoints

FID	16430
CRS Number	N14706
Review Status	Final Submission
Property Name	dwelling
Property Type	Building
Status	
Secondary Status	
Address/Location	1172 Elkton Rd (Rt 2/Rd 279)
Nearest Named Place	Newark
Vicinity?	Near

NR Listing Date

NHL Listing Date

S3_URL

Longitude

Latitude

Notes

Theme

Attachments:

N14706_Howell Dwelling pdf(X)

Add:

Choose File No file chosen

Edited by aguerrant@dhca.local_DHCA on 3/28/18 at 10:18 AM

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Attachments, Forms, Files, Oh My

- Survey forms, usually with photographs: short description of appearance and location
- Reports on architectural and archaeological surveys and documentation

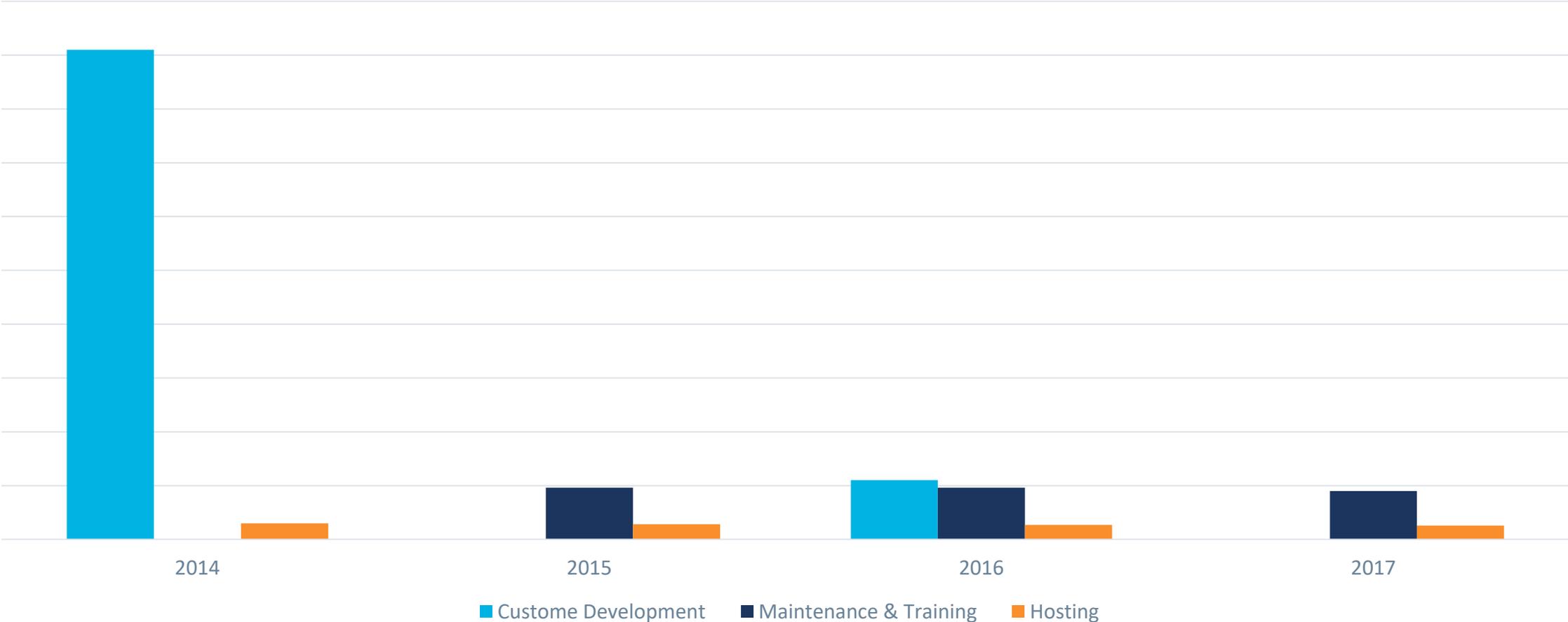
The Gains

More Discovery

- Integrated with Delaware First Map & ArcGIS Online:
 - Easier for public to find
 - Easier to share datasets with other agencies

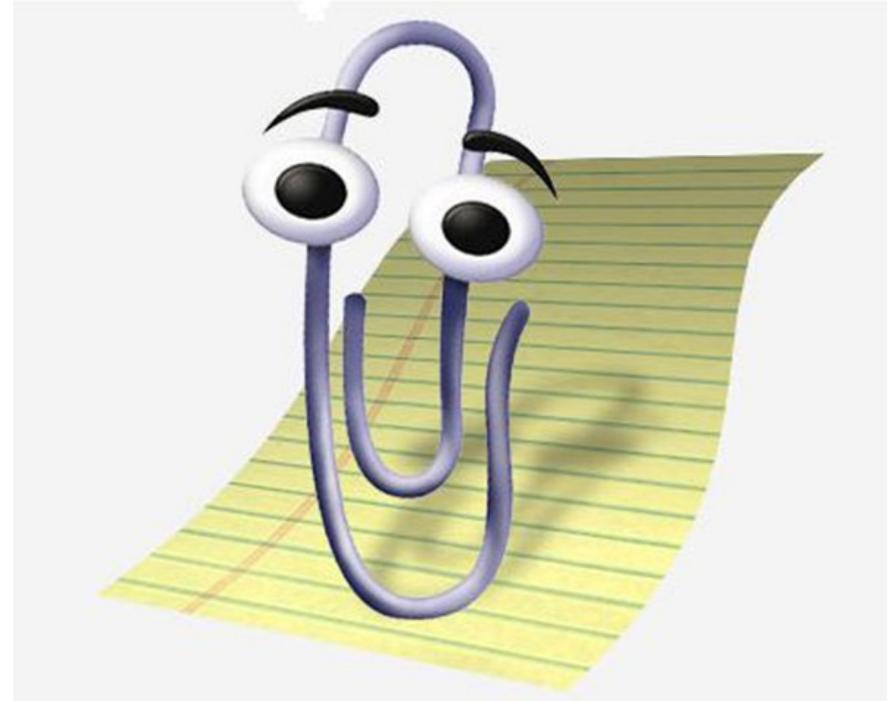


Lower Maintenance



Makes the State IT Department Happy

- Federated with Agency's Active Directory structure
 - Conforms to agency security standards
- Agency data managed by their staff in ArcGIS online and Amazon Web Services
- Adheres to State's Common Look and Feel specs



The Future

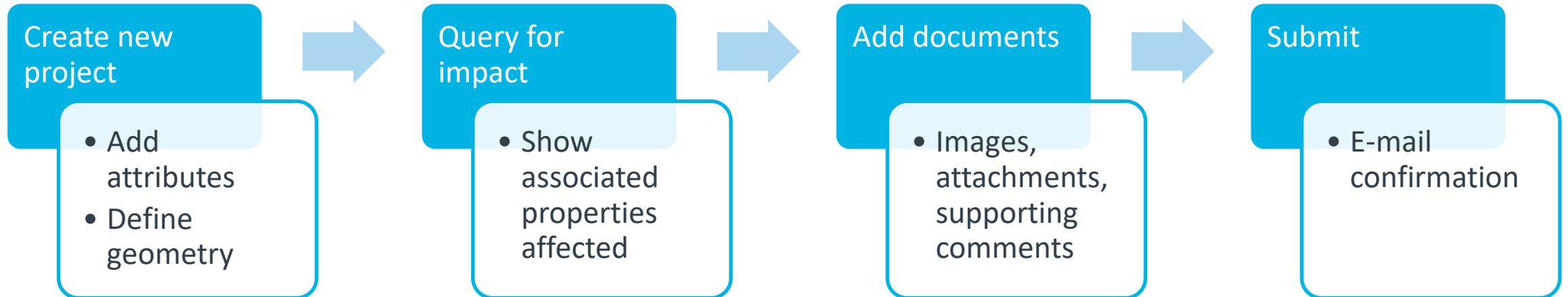
Section 106 – National Historic Preservation Act

- requires federal agencies and applicants for federal assistance to “take into account” the effects of their projects on historic properties.
- These projects generate most of the survey work, and properties that are added
- more information on the Section 106
 - regulations: <http://www.achp.gov/usersguide.html>.
 - The [Regulations Flow Chart](#) and [Explanatory Material](#)

Current Process

- Currently use a combination of E-mail communications and an Access DB to manage Sxn 106 efforts
- There could be an app for that 😊

Section 106 Workflow



SHPO Activities

- Most states are considering an “e-106” application of some sort.
- Many are in various states of implementation and fact-finding
- Technologies used to integrate include:
 - ASP.NET, Salesforce, Dynamics 365 (with 3rd-party Dialogs), and of course.... Esri

Final Thoughts

We are not makers of history. We are made by history.

Martin Luther King, Jr.



Q&A

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