Customizing the Cloud:
City of Monmouth GIS

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Polk County GIS

This whole thing started with a question...

Can we have PDFs on our iPads?

Well actually not PDFs...maybe just a street map?

But an interactive street map with all our taxlots?

And could we, like, create data with it?

Sidewalk Inventory Project

- Requirements
  - Had to use existing equipment
  - Have no licensing cost
  - Use minimal IT (GIS) hours in setup
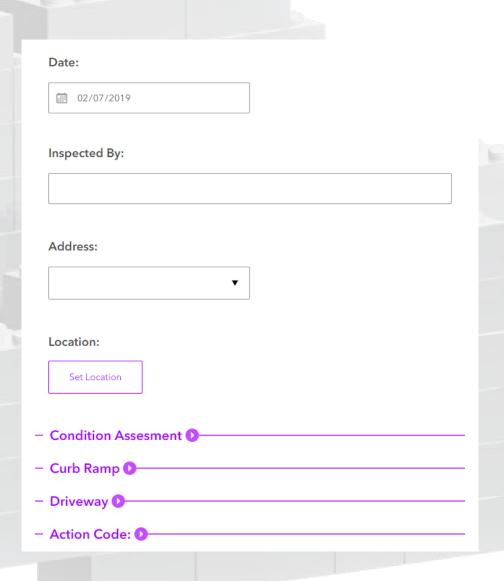 - Be simple enough for an Intern to use

You know...

Something really easy...

Just to get us started.

Sidewalk Inventory Survey

- Form based (simple)
- Anonymous User (Free)
- Not Hardware intensive
- Minimal config from IT

Date:

📅 02/07/2019

Inspected By:

Address:

▾

Location:

Set Location

— **Condition Assesment** ▶
— **Curb Ramp** ▶
— **Driveway** ▶
— **Action Code:** ▶

Sidewalk Inventory Scope Creep

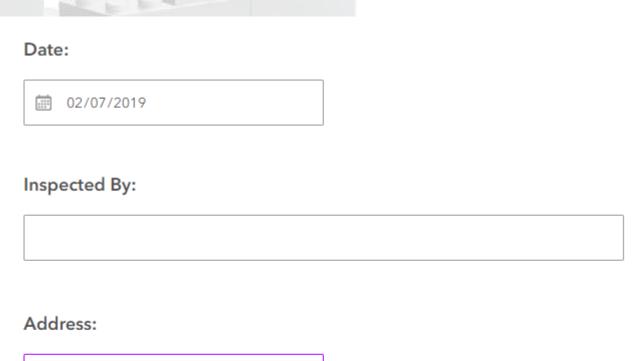Can we take pictures of damage?
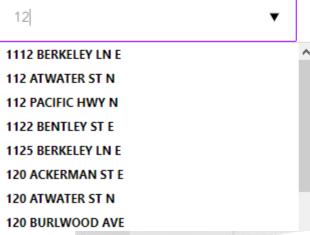
Sure!

Sidewalk Inventory Scope Creep

The autopoint isn't accurate enough. Can we enter an address ?

Sure!

Entering an address is HARD. Can we auto populate the address?

And so on…

Date:

📅 02/07/2019

Inspected By:

Address:

12▾

1112 BERKELEY LN E
112 ATWATER ST N
112 PACIFIC HWY N
1122 BENTLEY ST E
1125 BERKELEY LN E
120 ACKERMAN ST E
120 ATWATER ST N
120 BURLWOOD AVE

Sidewalk Inventory

The interns did some things wrong. Can we go in and fix the data?

And this is where things started to go off the rails…

Well, now you're going to need a license…

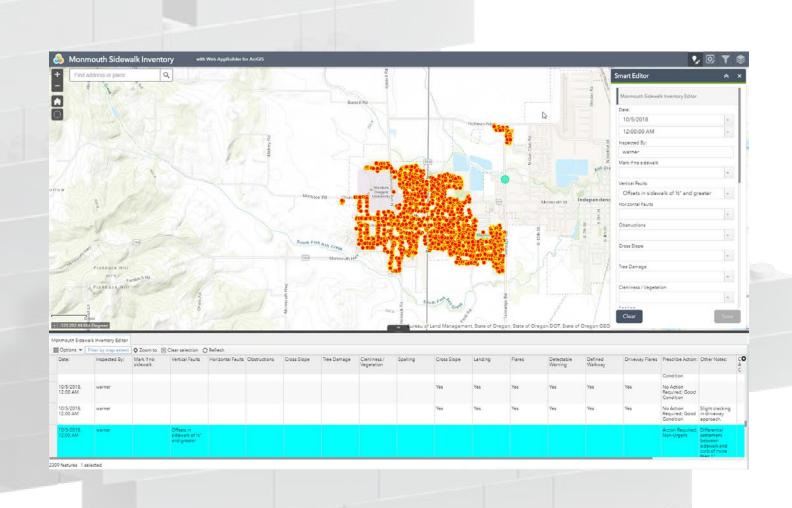Can we share this data with city council?

If Public Works gets a license I want one too!

Also, we've got some other inventory ideas?

And could we manipulate data from the surveys?

Sidewalk Inventory Editor

- NOT Form based
  (Complex, Web Appbuilder)

- Named User
  (NOT Free)

- Browser Based
  (Not iPad)

- Much more config
  (Not Cheap)

So what's next?

Can we share this data across departments?

What about this (previously unmentioned) Tree Inventory?

Also, could it display these 18 other layers?

And could we, like, create data with it?

Monmouth Maps

- Not at all Simple

- Viewable across City
  - Requires multiple named users
  - Requires hosting costs
  - Requires significant IT and GIS configuration