Mapping and Data Collection for Recruitment at Michigan State University Migrant Student Services

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Who is Michigan State University Migrant Student Services

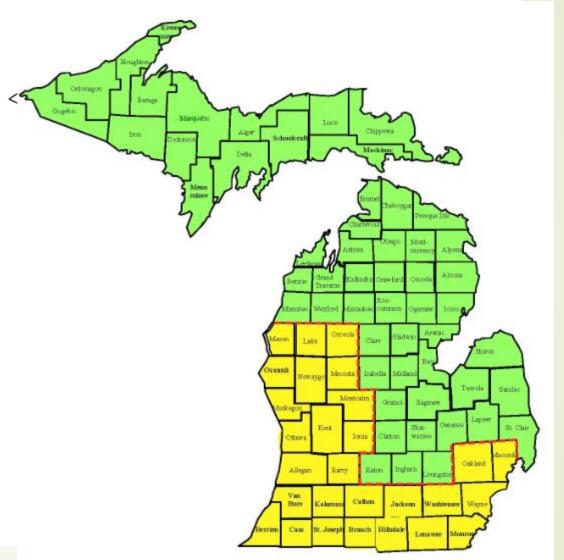
- Home to several migrant programs
- CAMP since 2000
- ► HEP Since 2005
- MEP since 2011
- Around 300 Migrant student on campus in Camp
- Around 60 HEP GED students each year
- Many other intitiaves supproing migrant students in Michigan, the U.S. and abroad.

MiMEP Michigan Migrant Education Program

- Michigan is a receiving state for migrant workers.
- About 15% migrant within Michigan (Intrastate workers)
- Approximately 30% from Texas and 30% from Florida
- Serve 6500 to 7000 migrant children annually
- Strong interagency partnerships
 - Intrastate Migrant Resource Council
 - Regional Migrant Resource Council

MIMEP

- 24 Summer Programs
- 28 Regular Year Programs
- 2 ID&R Centers
 - 2 MiMEP COE Approvers
 - MEDS Programmers
 - Re-Interview Team
- Lansing MiMEP team
- Coordination of Services
 - Within Educational System
 - With other Community Agencies





The Need for Mapping

- Statewide recruiter cover vast regions where it is impossible to keep track of a large variety of growers and producers
- Desired the ability to share data between recruiters, when there is turn over, or with other MEP programs
- Be able to visualize where growers, crops, priority contacts, across the state or in specific areas
 - Planning trips
 - Understanding mobility
 - Create strategies
- Easily locate nearby services and programs
- Ensure wea re recruiting ALL eligible migrant children!!!!!

The Need for Mapping more advanced needs

- Connect to maps via mobile devices
- Update information on the fly
- Geocode information
- Provide routing and navigation
- See historical data on a specific point
- Planning and reminders for follow-up
- Higher security than free options
- Overlay information by specific data points
- Mix private and public data for research and planning

Beginning the ID&R Project

- Very low tech
 - Some data from previous efforts but nothing substantial or complete
 - Farm lists
 - Paper maps
- Develop Tracking systems
 - Hours and mileage
 - Grower profiles
 - Grower update forms

Example Forms

*****Contact Bruce Lack for more information****

Previous Technology and Limitations

- Google Docs
 - Easy simple forms
 - Aggregates data
 - Spreadsheet
 - Timestamps
 - Sharable
 - Not secure (gmail accounts)
 - Available online only

Previous Technology and Limitations Cont.

- Google Maps
 - Allowed for GIS like functionality
 - Visualize data
 - Custom icons
 - Display pop up data
 - Worked with mobile devices
 - Could add some media
 - Basic layering
 - Some search capabilities
 - Sharable
 - Other benifits

Previous Technology and Limitations Cont.

- Google Maps
 - Serious limitations
 - Not very compatible with databases (without expensive API)
 - Low to Zero functionality with larger maps (200 points)
 - Easy to lose data/ maps all together
 - Limited backup abilities
 - Cloud application may be accessible
 - Manually intensive
 - No web / gov data overlays
 - Multiple maps and ownership rights
 - Non transferable

What are your experiences

- I like that I can.....
- I wish I could......
- I dislike......
- Is it possible to......

New System and Goals

- Use a robust GIS software that is scalable for a local program, to statewide and national data sets
- Connectable to a back end database for record keeping and modification
- Access to public and private data
- High level of security
- Hostable vs Cloud
- Out of the box (as much as possible)
- Easily to modify
- Convenient workflow
- FERPA no student data, coe data, or other protected information

Initial stages

- Funding (and a bit of luck)
- Software selection
- Concept design
- Data collection changes
- Initial programming
- Testing at program level (current stage)
- Testing at a statewide level
- Provide regional and/or nationwide support

Initial stages cont.

- Collect all current and historical data
- Standardize data <u>examples\addresses.xlsx</u>
 - Use MS Access
 - Test basic reporting
 - Break down address for geocoding
 - Re-evaluate data collection
- Redesign reporting to accommodate areas of concern
- Grower Database example

Demonstration of beta testing systems

- New system is internal only (temporarily)
 - Limits ability to demonstrate
 - Provides added security until out of beta
 - Removes potential for network based errors
- Todays demo (small sample set)
 - Overlays
 - Filtering
 - Searching
 - Sharing
- <u>new sytem capablilites</u>

What would you like to see?

- Administrators
- Recruiters
- Data Entry
- Outreach Staff

Questions and Comments

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