Location, Location, Location!
When Dispatch Knows Where the AEDs Are

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OHCA – Some Context

- AEDs improve survival from OHCA
- **How to get them to pts faster?**
- Public access defibrillation
- 88% of OHCAs occur at home
- **Can we find AEDs, then link location to 9-1-1 system to speed public access?**

How to Locate AEDs?

- Registration websites

- Google searches

- Firefighter block checks

- Hire people to find them

- Crowdsourcing

MyHeartMap Challenge

- Crowdsourcing project

- Contest to engage public in locating, photographing AEDs

- Used print/radio/social media, apps, website to advertise, collect data

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MyHeartMap Challenge

- From Jan 31-Mar 27, 2012, submitted photos, details re AED locations

- Incentives were money ($10K for finding the most), personal satisfaction

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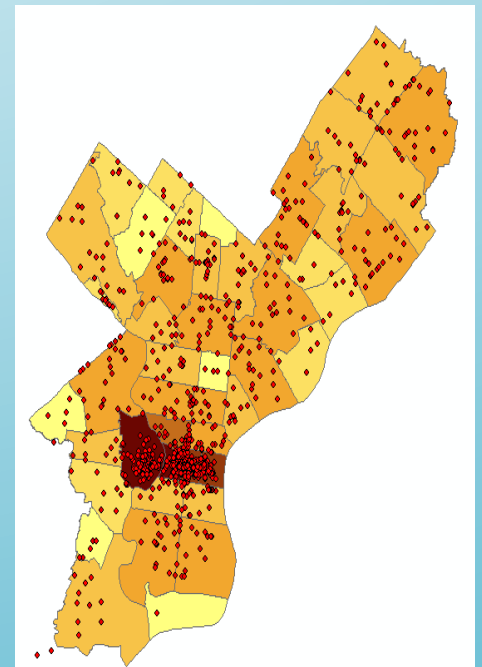
Welcome to the MyHeartMap Challenge
Improving AED awareness and access to save lives!

Required Data Elements

- Building's full address
- Building type (e.g. school, etc.)
- Photo of AED, including surroundings
- Description of location within building
- Does device appear operational?
- Collected as GPS coordinates and shapefile

MyHeartMap Challenge

- 1429 AEDs located

- Results validated

- Since contest, more AEDs found and entered in database

- How to link locations to CAD?

How to Enter into CAD?

- Manually enter as premise histories
- Enter location by block so call taker can tell caller when AED is nearby
- Enter as shapefile so map of all AEDs is superimposed on city map

Are There Downsides to Project?

- Data set is incomplete
- Know where some AEDs are (*were*), but not all
  - Data based on one point in time. Unless constantly updated and validated, unreliable
- Once data in CAD, will have to be updated
- AED location known, but is access guaranteed?

Challenges

- How should 9-1-1 present information to caller?
  - i.e., "There may be an AED in the nearby X. If available, send someone not performing chest compressions to get it."
- What if AED is not there?
- What if owner does not want it removed?
- What if person running for AED gets hit by car?
- Worthwhile, if first responders arrive in < 4 min.?

Conclusions

- Concept has great potential

- Database must be reliable, current

- There may be liability issues

- Long-term, alternative solutions may be preferable to reduce time to defibrillation