

DMI Partners and Key Participants





Carnegie Mellon
SILICON VALLEY

Disaster Management Initiative
WORKSHOP
March 26, 2010

Martin Griss, PhD

Director, Silicon Valley Campus

Associate Dean, College of Engineering

Director, CyLab Mobility Research Center

Carnegie Mellon University

Welcome



- Martin Griss, Director, Carnegie Mellon Silicon Valley
- Jac Siegel, Vice Mayor of Mountain View
- Pete Worden, Director, NASA Ames Research Center

Welcome

Jac Siegel

Vice Mayor

City of Mountain View

Thanks

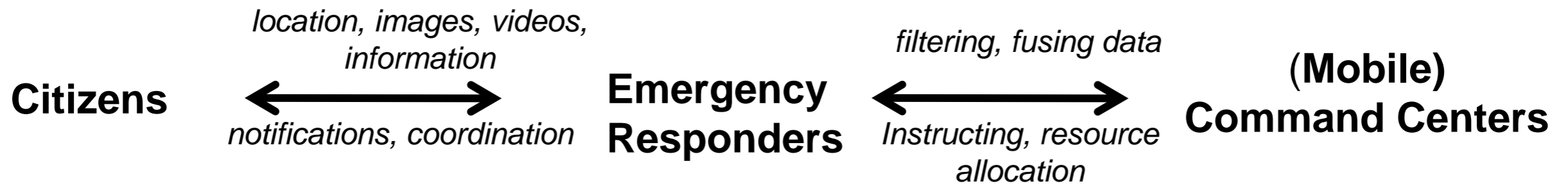
- Sponsors and Key Contributors
 - CalEMA, Clearwire, TechNet,
- Staff, volunteers and draftees (many!)
 - Wendy Fong, Jeannie Stamberger, Steve Ray
 - DMI partners: David Coggeshall, Pat Lanthier, Bob Dolci
...
 - NASA Ames
 - Sylvia Leong, Stacy Marshall, Ngoc Ho, Chris Zeiss,
 - Hector Rastrullo, Theresa Dao, ...
 - Ray Bareiss, time keeper
 -

DMI Mission

Carnegie Mellon Silicon Valley and DMI partners will collaborate to prepare the San Francisco Bay Area for a coordinated response to a major, multi-jurisdictional incident, using open technologies and software

- California disasters - Earthquakes, Wildfires, Floods, ...
- Technologies such as sensors, smart phones, mobile devices, communications, social media, crowd-sourcing, collaborative information environments,
- ... will enable better prediction, management and recovery of disasters, and will empower and integrate citizens, first responders and emergency managers

Coordination among Citizens, Emergency Responders and Command Centers



Citizen reporting / notification
GeoCam
Smart collaboration
Information filtering
Situation-aware filtering
Mobile device proximity

Sensors
Mapping overlays and standards
Surveillance
Tracking
UAV

Filtering/Aggregation
Triage
Resource management
WiMAX
NIMS/NEMS

Logistics

- Restrooms
- Emergency exits
- Wireless access - DO UNPLUG or PLUG ANYTHING
- Lunch
- Breaks
- Reception

Goals

Community, Commitment, Action

- Identify mutually beneficial R&D agenda
- Catalyze 3-4 important synergistic projects
- Increase visibility of organizations and activities
- Establish new collaborations

- Launch a more formal collaboration framework

History

How did we get here?

- Carnegie Mellon Silicon Valley established 2002
- CyLab Mobility Research Center, launched April 2008
- Discussions with Bob Dolci, Terry Fong
- Steve Ray joined, bringing GGSN (David Coggeshall)
- Proposal to Clearwire & NASA for WiMAX pilot, Unisys help
- Formation of Disaster Management Initiative
- Signing of LOI and MOU with GGSN, WCA eCLIC (Pat Lanthier)
- Airship Earth, Twiki, WCA partner with DMI
- Random Hacks of Kindness, Nov 2009
- Wendy Fong, Jeannie Stamberger joined

Agenda - Morning

- 8.30- 9.00 - Welcome, Goals of workshop:
Martin Griss, Director, CMU-Silicon Valley
Jac Siegel, Vice Mayor, City of Mountain View
Pete Worden, Director, NASA Ames Research Center
- 9.00- 9.45 - Keynote: Matthew Bettenhausen,
Secretary of California Emergency Management Agency (CalEMA)
- 9.45 -10.00 - BREAK
- 10.00-10.45 - Panel: Emergency Comms 2.0, The KEY to Emergency Management
moderator: Pat Lanthier, WCA eCLIC
- 10.45-11.30 - Panel: Devices and Applications
moderator: Terry Fong, NASA Ames, IRG
- 11.30-12.30 - LUNCH

Agenda - Afternoon

- 12.30-12.50 - Talk: Next Generation Emergency Operation Center
Bob Dolci, NASA Ames DART
- 12.50- 1.10 - Talk: Open Technology Approaches for Enhancing the
Common Operating Picture
Xavier Irias, EBMUD
- 1.10- 2.00 - Panel: DMI partners and key participants
moderator: Martin Griss, Carnegie Mellon Silicon Valley
- 2.00- 2.15 - Breakout Goals and Process
Steve R. Ray, CMU-Silicon Valley
- 2.15- 2:30 - BREAK
- 2.30- 3.30 - Parallel Breakout Sessions
- 3.30- 3.45 - BREAK
- 3.45- 4.30 - Summary of Breakout Recommendations
- 4.30- 5.30 - Wrap up
- 5.30- 7.00 - RECEPTION

Welcome

Pete Worden

Director

NASA Ames Research Center

Keynote

Matthew Bettenhausen

Secretary

**California Emergency Management Agency
(CalEMA)**