MAJOR CITIES CHIEFS & MAJOR COUNTY SHERIFFS

Survey of Technology Needs: Body Worn Cameras
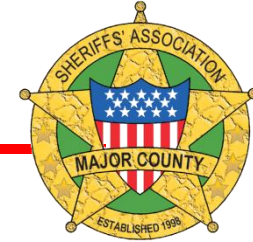
DHS Office of Emergency Communications

Homeland Security

Office of Emergency Communications
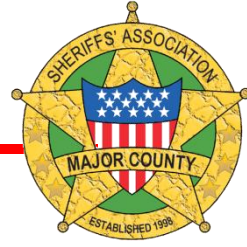
1

Purpose and Respondents

- **Sponsor: DHS Office of Emergency Communications**

- **Focus: Technology and Interoperability Challenges**

- **Not legal, evidentiary, or privacy issues**

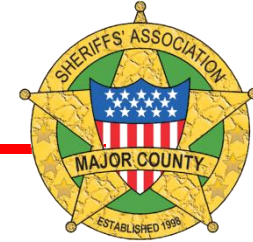| Agency Type	
Police	64.9%
Sheriff	33.8%
Metro	1.3%
International	9.1%

Key Findings

- **Commitment to Proceed**

- **Much Is Unknown**

- **Technology vs. Policy**

- **Comprehensive Plans are Required**

Status of BWC Programs

- Local agencies are moving forward with implementation

- Despite of a lack of IT infrastructure and technical solutions to fully support program

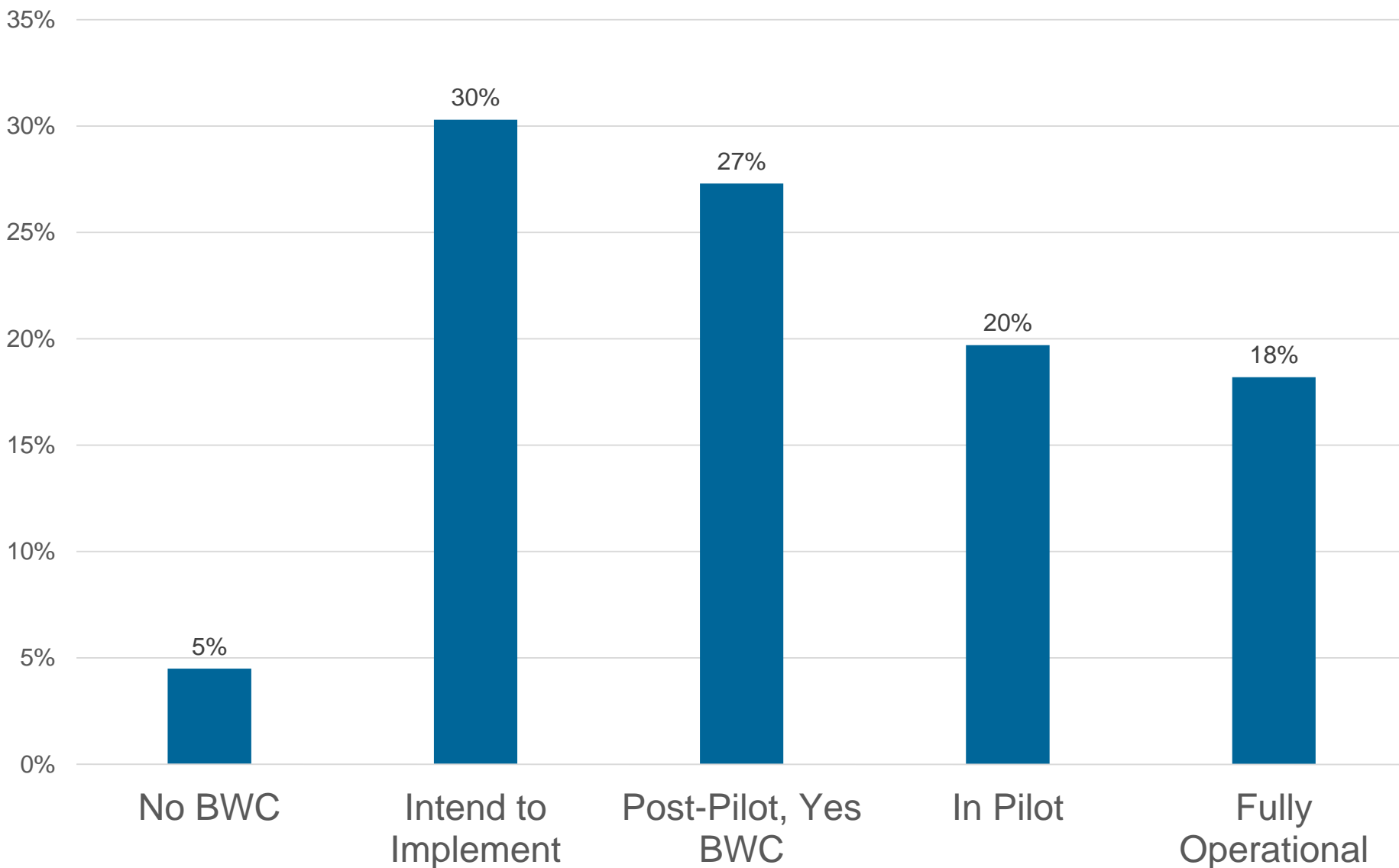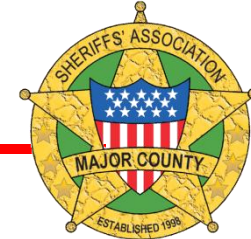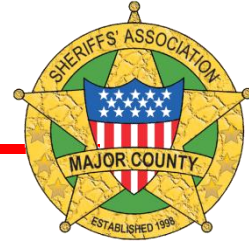| What is the current status of BWCs in your agency?	
Fully Operational	18.2%
Committed to Program	77.3%
Do not Intend to Implement BWC	4.5%

Status of Body Camera Programs

Current Status

Modern high-bandwidth architecture – LAPD

- Fiber WAN capable of transferring data quickly
- Download to SAN (storage area network)
- Upload to cloud at scheduled intervals

Existing network lacks capacity – DC

- Need to upgrade WAN & integrate system
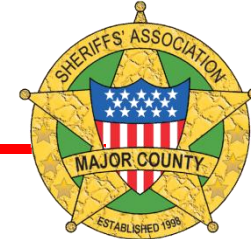- Increase storage capacity

Major Improvements Required – Philly

- Inadequate network, could transfer only to server in building
- Infrastructure not able to accommodate volume

Networking & Data Storage

Officer with BWC goes to Station
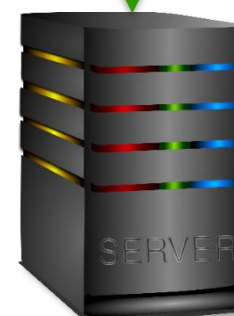
BWC Docking

Transferred to HQ Server Farm
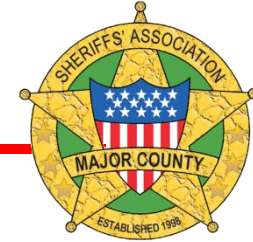
Network

Internet

Transferred to Station Server

Upload to Cloud

POLICE

SERVER

IT Infrastructure

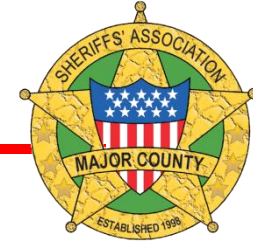More than 70% of respondents recognized need to expand and improve infrastructure

Will you be required to expand/improve your current IT infrastructure?	
Yes	70.6%
No	16.2%
Don't Know	13.2%

Do the Math: Network Capacity
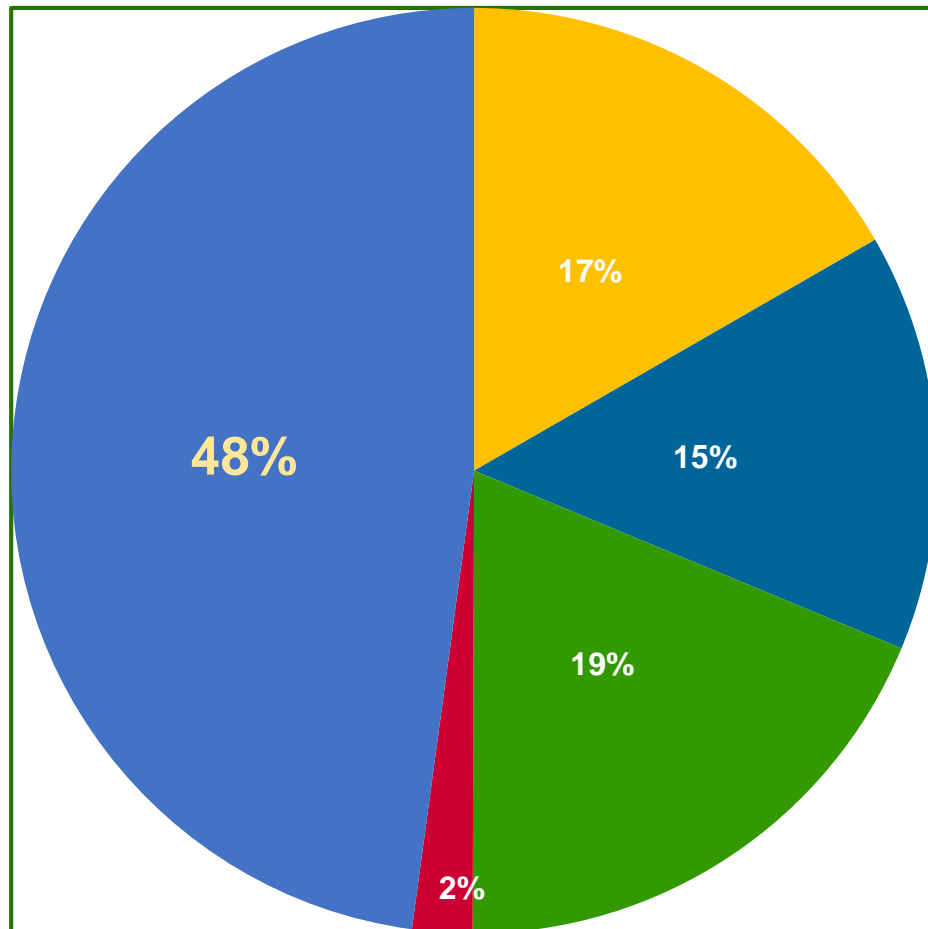
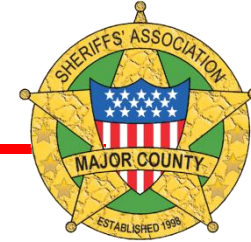| For your planned system, what will be the amount of bandwidth required?	
10 – 100 Gbps	16.7%
1 – 10 Gbps	14.6%
100 Mbps – 1 Gbps	18.8%
10 – 100 Mbps	2.1%
1 – 10 Mbps	0.0%
Don't know	47.9%

Pie chart legend:
- 10 – 100 Gbps — 17%
- 1 – 10 Gbps — 15%
- 100 Mbps – 1 Gbps — 19%
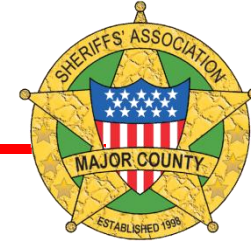- 10 – 100 Mbps — 2%
- **Don't know** — 48%

Do the Math: Storage

$$1\,\frac{GB}{hour} \times 3\,\frac{hr\ rec}{shift} \times 10\,\frac{off.}{shift} \times 3\,\frac{shifts}{day} = 90\,\frac{GB\ rec}{day}$$

Estimated increase in storage capacity per year considering the length of time BWC video must be stored?	
Less than 100 GB	0.0%
100 GB - 1 TB	5.9%
1 TB - 10 TB	8.8%
10 TB - 100 TB	25.0%
100 TB - 1 PB (Petabyte)	10.3%
Greater than 1 PB (Petabyte)	4.4%
Don't know	45.6%

Policy Drives Requirements

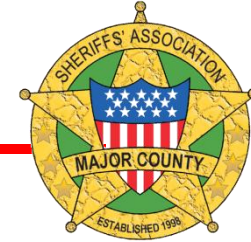**Decisions** that determine storage, retention, and transmission of the information

- Factors include technological limitations, state and local laws, and internal policies

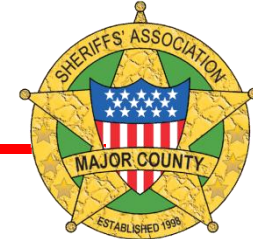| What is not adequate at present?	
Current storage capacity	45.8%
Current network/bandwidth capability	54.2%
Don't know/Other	31.6%

Policy: Users of Video Data

Who Receives Video Data

Access to the system for sharing video data	
District Attorney	70.6%
City Attorney	45.6%
Internal Affairs	75.0%
FOIA unit	38.2%
Don't know	16.2%
Other	13.2%

Additional Personnel needed to manage/maintain BWC program	
No increase	11.8%
1 to 5	35.3%
5 to 10	25.0%
10 to 20	5.9%
More than 20	2.9%
Don't know	19.1%

Policy: FOIA

- Freedom of Information Act (FOIA)
- Specialized software to review and redact before public release
- Dedicated Personnel

Will your agency be subject to FOIA release of video?	
Yes	73.5%
No	7.4%
Don't know	19.1%

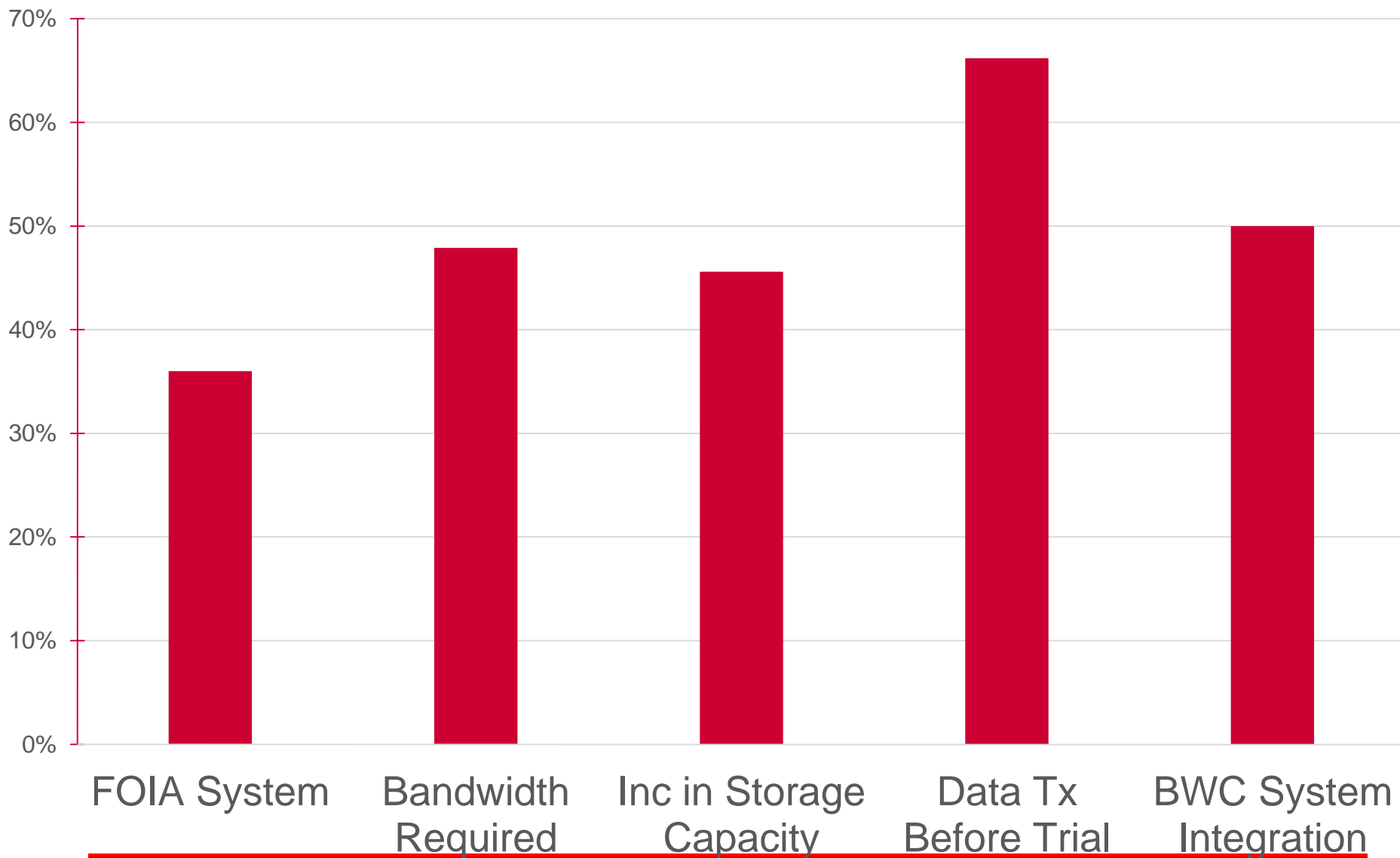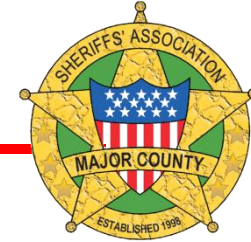| Will your department redact videos in response to FOIA requests?	
Yes	78.0%
No	4.0%
Not yet determined	16.0%
Don't know	2.0%

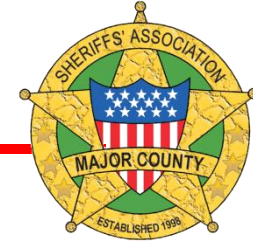| What type of equipment will be needed to process videos for court and FOIA?	
Software installed on pre-existing hardware	50.0%
Purpose built workstation	16.0%
Outsourced to vendor	6.0%
Not yet determined	36.0%
Other	8.0%

More Unknown Than Known
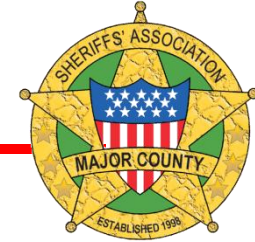
Key Decisions

- **On/Off (Recording) Policy:**
  - ✓ How long are cameras on and running?
- **Retention Policy:**
  - ✓ How long do you keep it?
- **City and County Partners:**
  - ✓ DA, Defense, IA
- **Public Release:**
  - ✓ Yes / No
- **FOIA Release:**
  - ✓ What does law require?
- **Storage:**
  - ✓ Cloud or On-Premise
- **Network:**
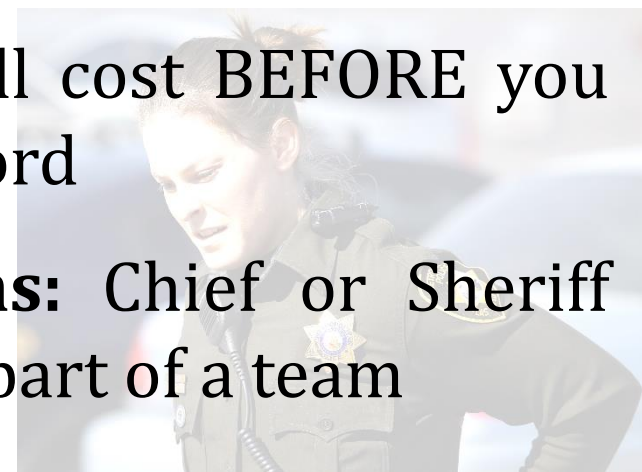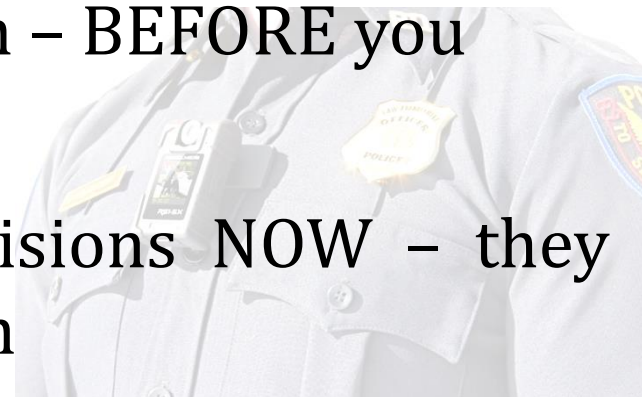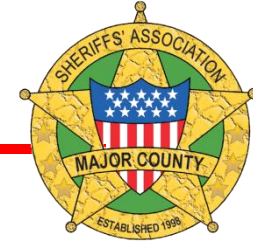 - ✓ Centralized or Decentralized System

The Way Forward

- **Adopt a Plan:** Know your destination – BEFORE you begin the journey to get there

- **Determine Policies:** Make key decisions NOW – they will drive the costs of implementation

- **Learn Technology Requirements:** Obstacles and traps – to overcome and avoid

- **Secure a Budget:** Know what it will cost BEFORE you implement a program you cannot afford

- **Make City/County Wide Decisions:** Chief or Sheriff cannot go it alone on this issue, only part of a team
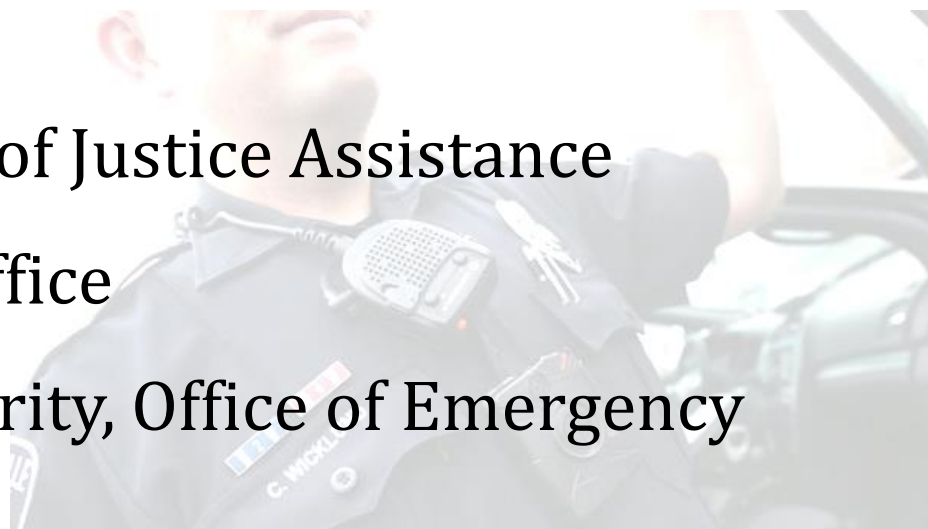
Support and Assistance

- **Seek Help and Advice**

  - Colleagues who are pioneers

  - Professional groups that will help you

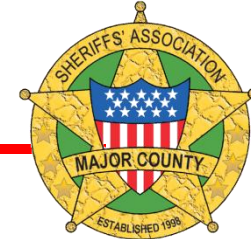 - Vendors alone cannot guide you

- **Federal Assistance**

  - Dept. of Justice, Bureau of Justice Assistance

  - Dept. of Justice, COPS Office

  - Dept. of Homeland Security, Office of Emergency Communications

Contacts

Darrel W. Stephens

Major Cities Chiefs Association

dstephens@Carolina.rr.com

703-814-7378

Charles B. DeWitt

Lafayette Group

cbdewitt@lafayettegroup.com

703-760-8866