

# From Data to Intelligence



Leaders in Public Safety Communications®



**MOTOROLA SOLUTIONS** 

# FROM DATA TO INTELLIGENCE

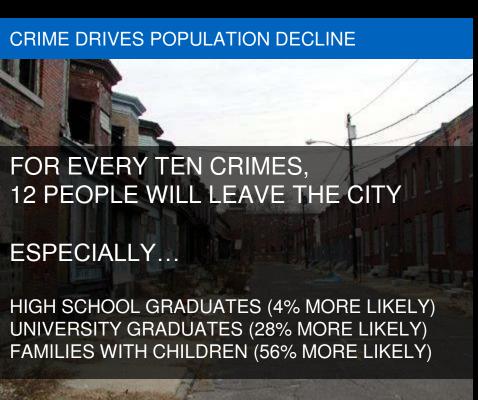
**NOVEMBER 2, 2016** 

MATT BUSA SENIOR ACCOUNT MANAGER



### PROSPERITY BEGINS WITH SAFETY







### **TURNING DATA INTO SAFETY**



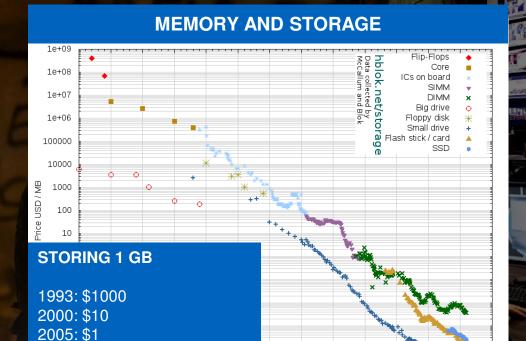
### **DETROIT POLICE DEPARTMENT: PROJECT GREENLIGHT**



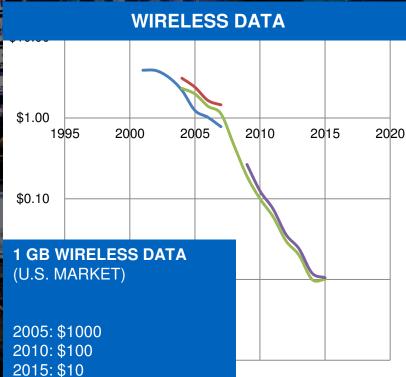


### DATA COSTS CONTINUE TO DROP





2010: \$0.10 2015: \$0.01



# **DATA FROM EVERYWHERE**



### **PATROL CARS**



GPS
TELEMATICS
CAMERAS
PLATE READERS
OFFICER STATUS



**CITIZENS** 

**POLICE OFFICERS** 

LOCATION
STATUS
VIDEO
BIO-SENSORS
HOLSTER SENSORS

# CITY INFRASTRUCTURE



STREET CAMERAS
GUNSHOT DETECTION
SMART METERS
PUBLIC TRANSPORTATION
SERVICE VEHICLES



EMERGENCY CALLS SERVICE CALLS SOCIAL MEDIA POSTS

# THE CHALLENGE OF DATA



#### **COMMERCIAL (OPEN/FEE)**

AERIAL VIDEO FEEDS INFORMATION SERVICES (LN, TR, etc.)

STOLEN VEHICLE RECORDS

**HOLSTER** 

SENSOR

DASH

CAMERAS

PUBLIC RECORDS

FIXED CAMERAS INSURANCE RECORDS













AERIAL VIDEO

LICENSE PLATE

**READ HISTORY** 

H73 5364



**UAV VIDEO** 

DEPARTMENT OF

MOTOR VEHICLES

#### LOCAL

COURT RECORDS

\*\*\*\*\*\*\*

FIXED

**CAMERAS** 

911 CALLERS / INCIDENTS





SENSORS





**FIREARM** RECORDS



















STATE/AGENCY RECORDS





NATIONAL LAW ENF. (NLETS)





SEX

#### **PUBLIC / OPEN**

CITIZEN VIDEO/PICS



FIXED CAMERAS



SOCIAL MEDIA



WEB



#### **NATIONAL**

NATIONAL CRIME INFO



INTERCOUNTRY IDENTIFICATION



**FINGERPRINT** DATABASE



LAW **ENFORCEMENT** ONLINE



## THE CHALLENGE OF DATA

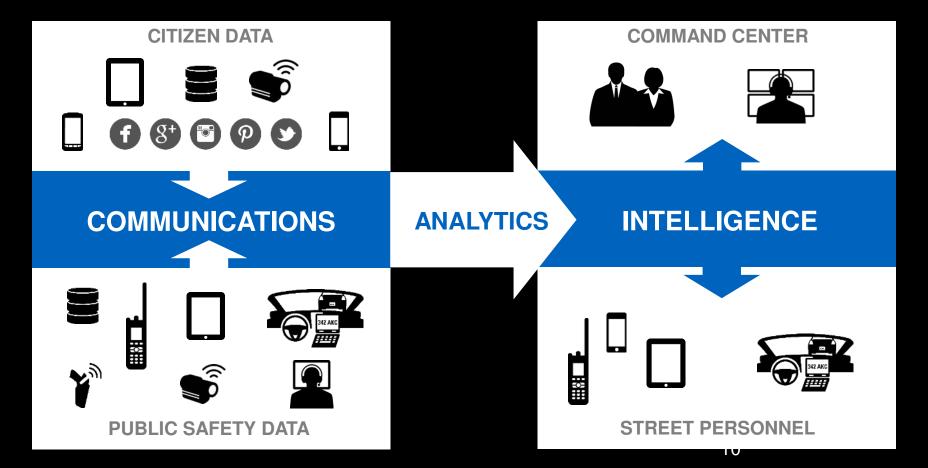
### IN THE FIELD

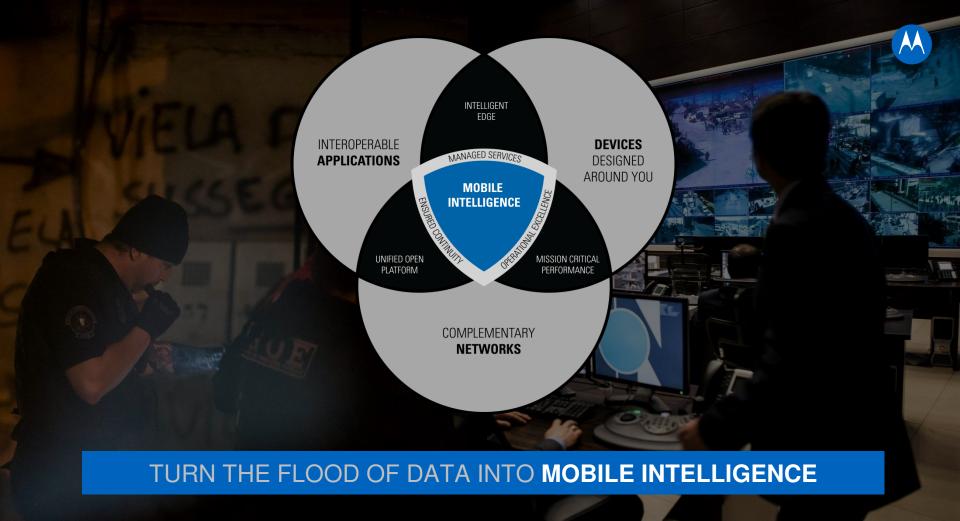
- HANDS FREE, EYES UP
- DATA CRITICAL IN INCIDENT
- WHEN YOU CAN'T PROCESS IT

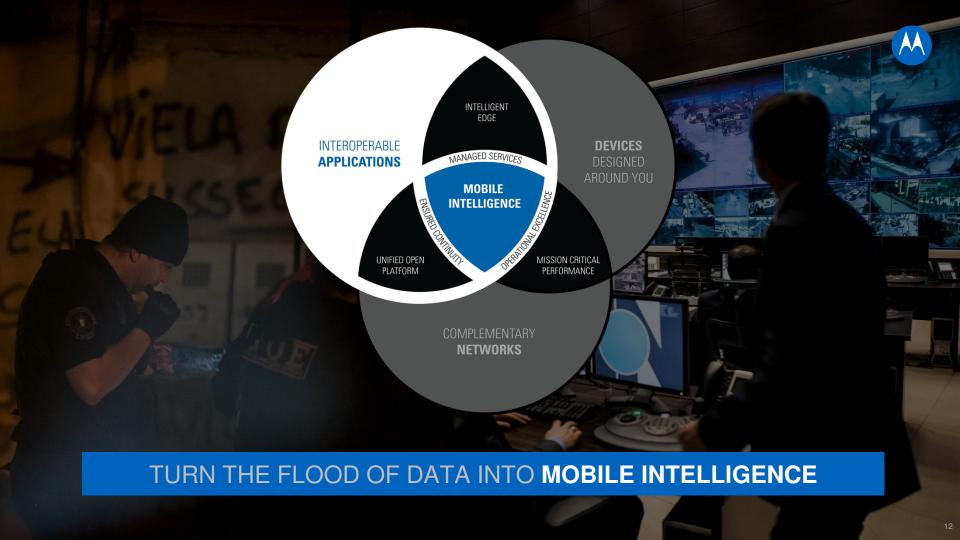


# COMMUNICATIONS + ANALYTICS = INTELLIGENCE









"FirstNet solves interoperable communications. NG911 solves interoperable emergency calls. Who solves interoperable apps?"

### **Steve Souder**

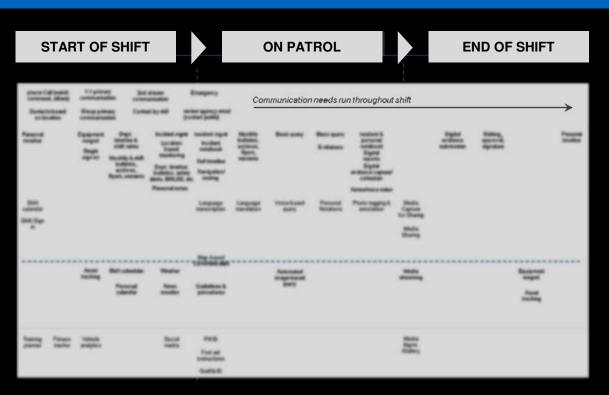
Co-Chair, FCC Task Force on PSAP Architecture Director, Public Safety Communications Fairfax County, Virginia



# THOUSANDS OF HOURS WITH PUBLIC SAFETY PERSONNEL

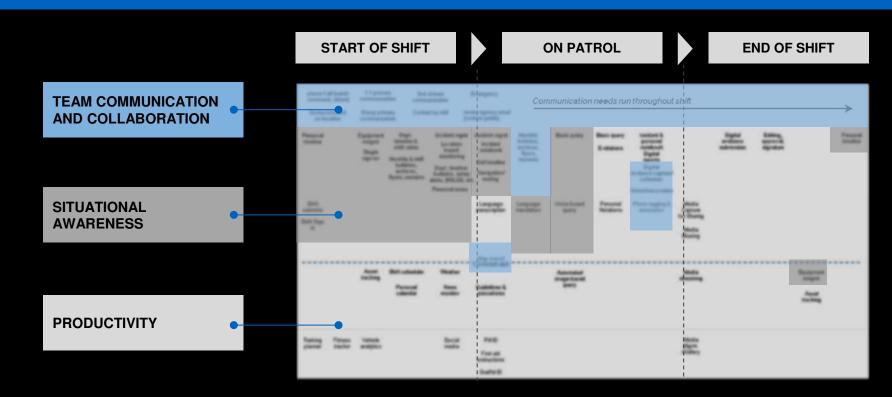






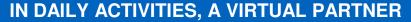
## A DAY ON THE JOB





### **INTEROPERABLE APPLICATIONS** REINVENTING PUBLIC SAFETY SOFTWARE







COMMUNICATE AND COLLABORATE

PROVIDE SITUATIONAL AWARENESS

IMPROVE PRODUCTIVITY

### IN EMERGENCY, TRUSTED BACKUP



**DELIVER ONE-TOUCH COMMUNICATIONS** 

ADVISE THE BEST TACTICAL ROUTE

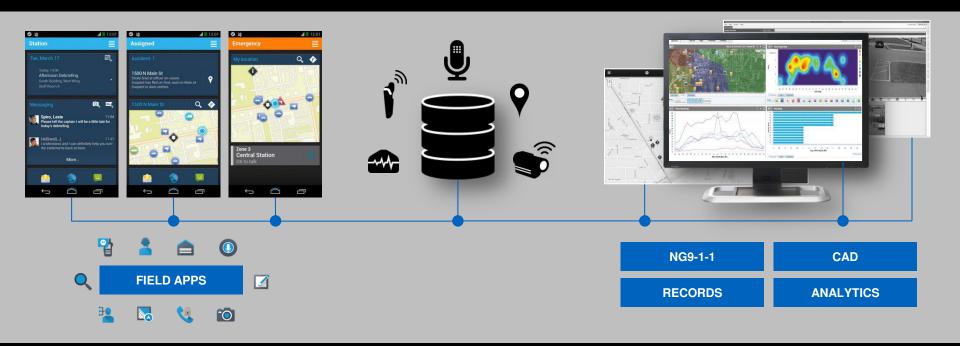
NOTIFY BACKUP WHEN IN DANGER

# APPLICATIONS ARE TASK-SPECIFIC VIEWS OF ONE POOL OF DATA



#### IN THE FIELD

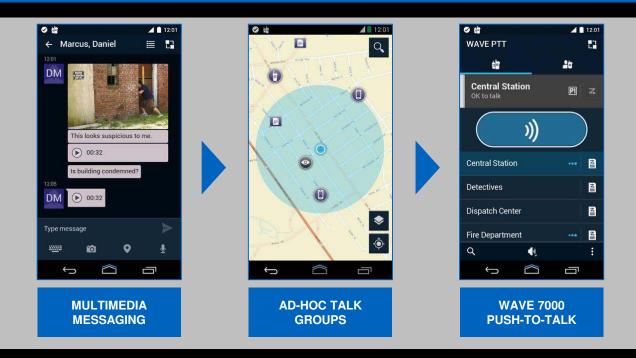
#### IN THE COMMAND CENTER



# COMMUNICATION AND COLLABORATION



#### WORKFLOW DESIGNED FOR PUBLIC SAFETY

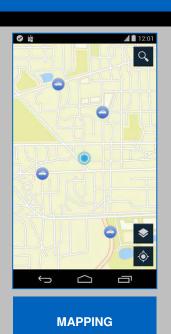


#### INTEROPERABLE APPLICATIONS

## SITUATIONAL AWARENESS









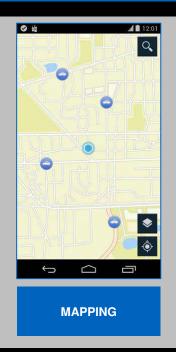


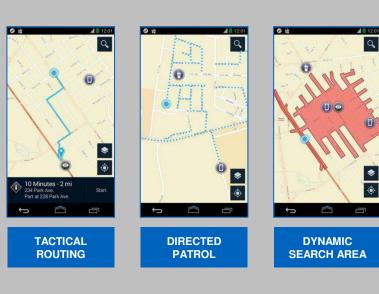


TIMELINE

# SITUATIONAL AWARENESS: MAPPING

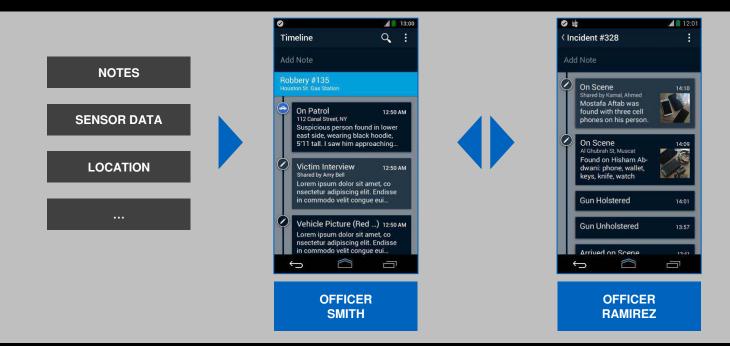


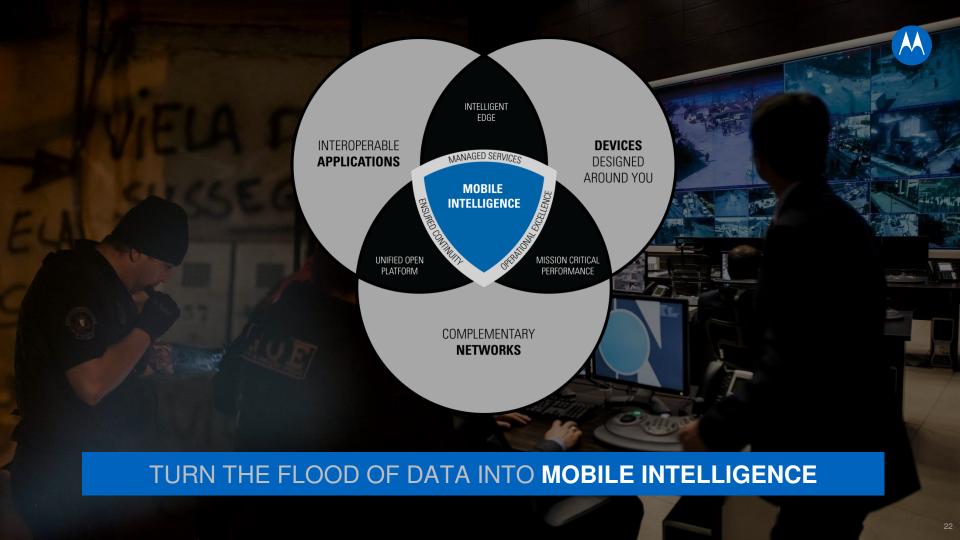


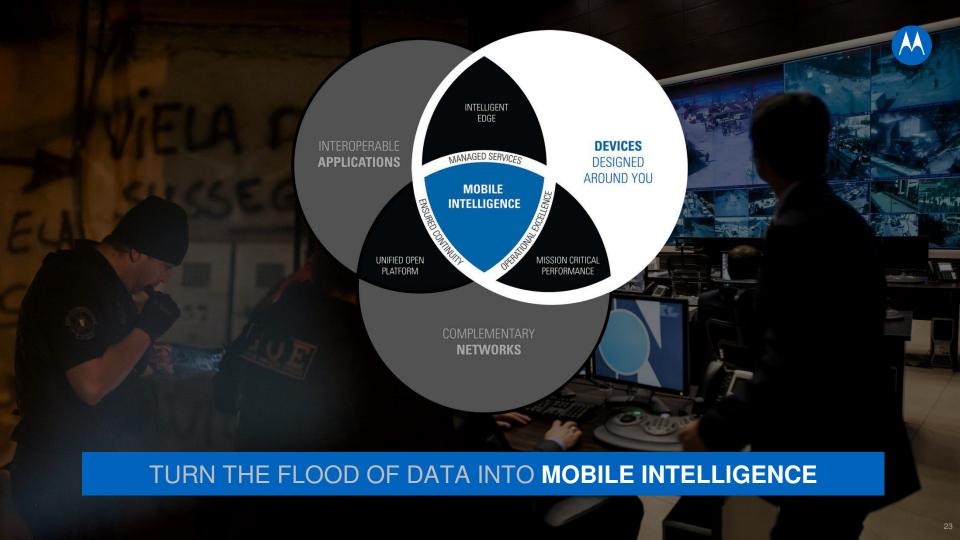


### PRODUCTIVITY: TIMELINE









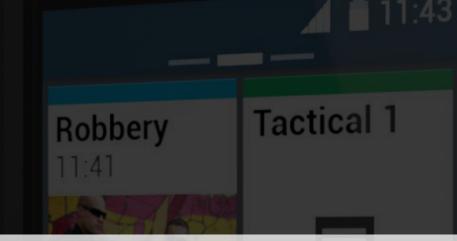
# DEVICES DESIGNED AROUND YOU



BUILT FOR THE CHALLENGES AND CONDITIONS OF FIELD WORK



FLEXIBLE, SCALABLE USER INTERFACES



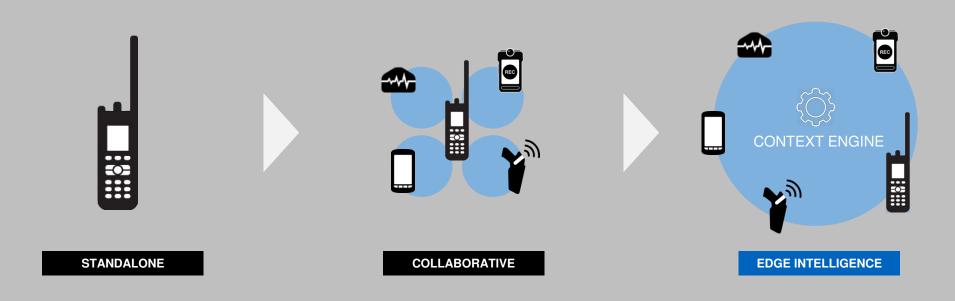
CONSISTENT ACROSS APPLICATIONS

FROM AUDIO-ONLY, TO FULL DISPLAY



# DEVICES FORM NETWORKS

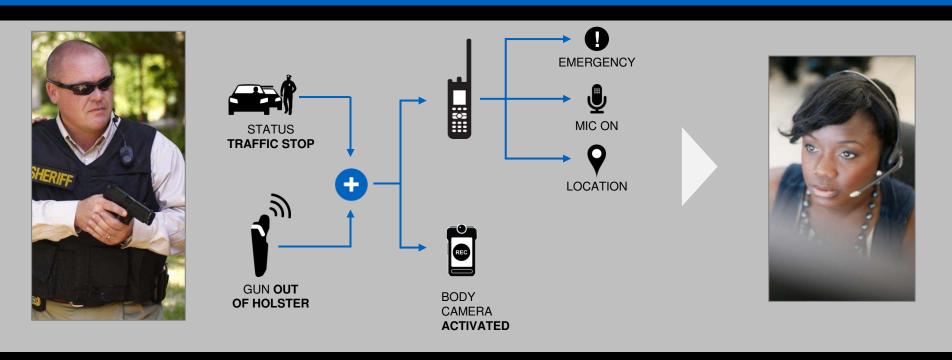




## **CONTEXT ENGINE: OFFICER IN DANGER**



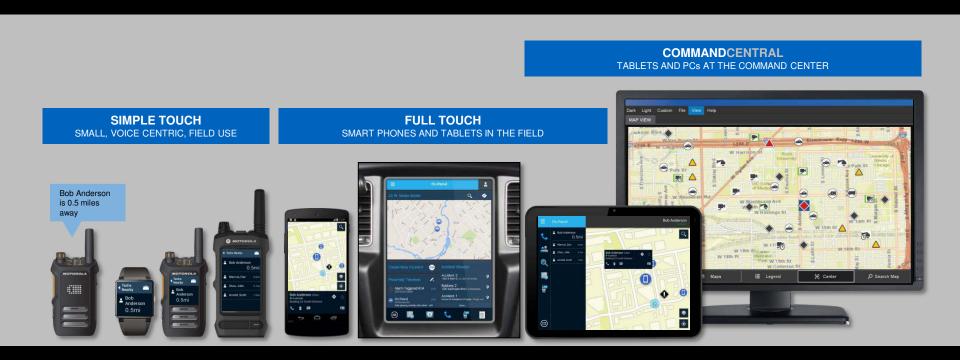
### DANGER RECOGNIZED, INFORMATION SHARED AUTOMATICALLY

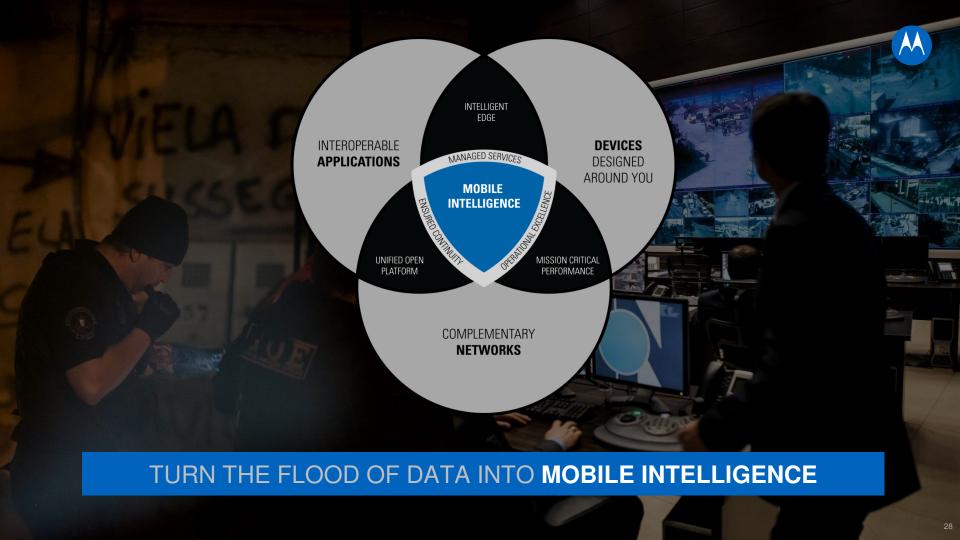


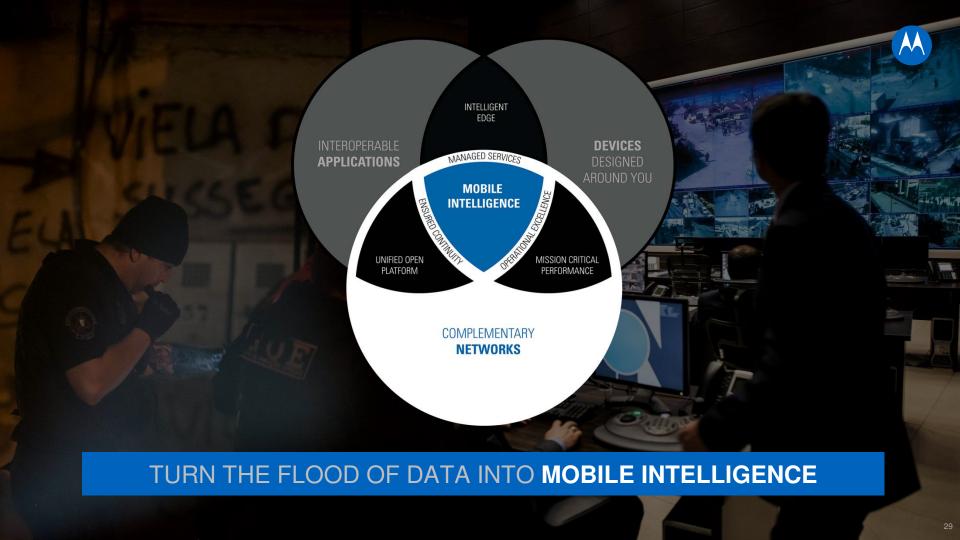
# FLEXIBLE, SCALABLE USER INTERFACES



#### CONSISTENT USER EXPERIENCE ACROSS ALL DEVICES







# COMPLEMENTARY NETWORKS COMBINING REACH OF LMR WITH VERSATILITY OF LTE



### **NETWORK-AGNOSTIC APPLICATIONS**



CRITICAL DATA ACROSS NETWORKS

A PATH TO PUBLIC SAFETY PTT ON LTE

### REDEFINING INFRASTRUCTURE



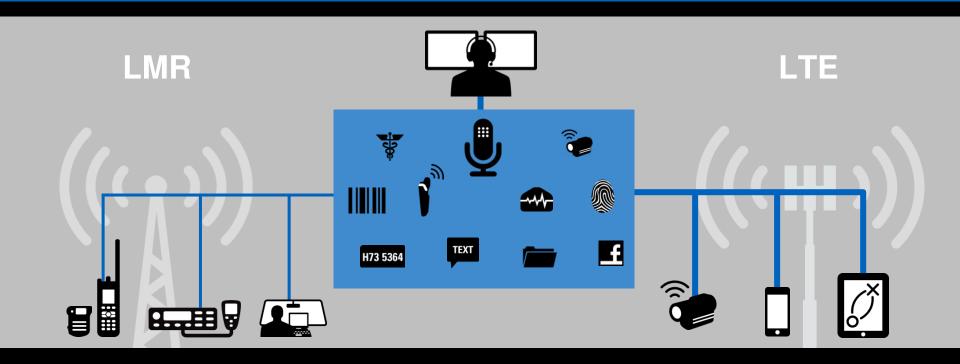
ULTRA-PORTABLES: CAR, SUITCASE, DRONE

CHOICE OF DEPLOYMENT AND SUPPORT MODELS

# COMPLEMENTARY NETWORKS UNIFIED NETWORK



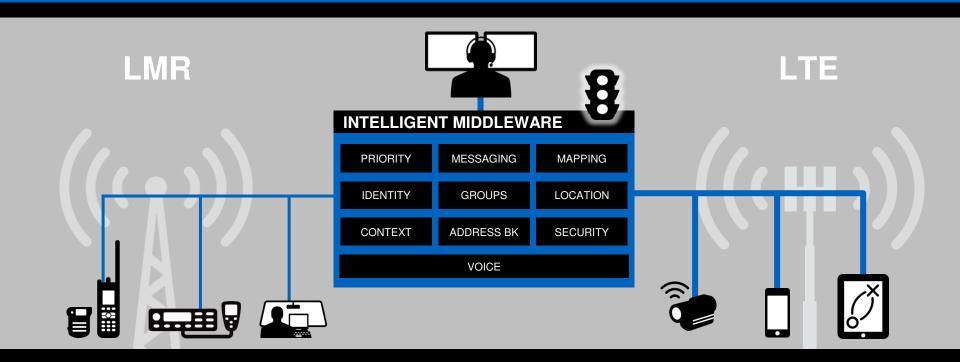
### **NETWORK-AGNOSTIC APPLICATIONS**



# INTELLIGENT MIDDLEWARE OPTIMIZES NETWORK PERFORMANCE



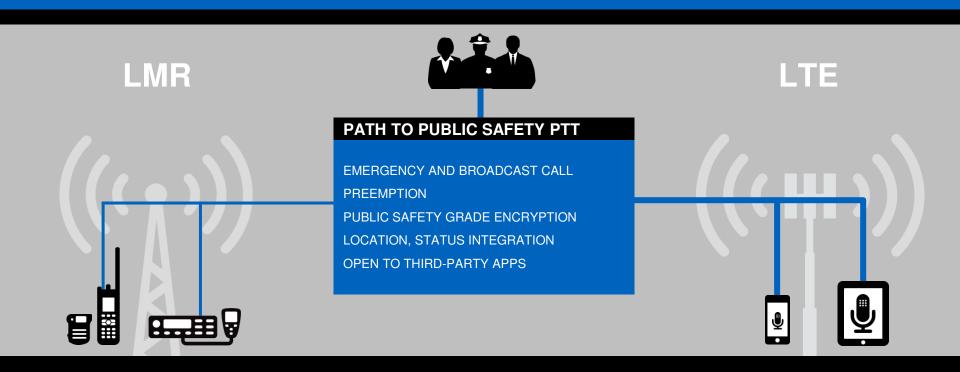
INFORMATION DELIVERED OVER THE BEST AVAILABLE NETWORK



# PUBLIC SAFETY VOICE INTEROPERABILITY BETWEEN LMR AND LTE



PTT ON ANY NETWORK, ON ANY DEVICE



### **DEPLOYABLE AND ULTRA-PORTABLE SYSTEMS**



#### BECAUSE YOU DON'T GET TO CHOOSE WHERE THE NEXT EMERGENCY TAKES PLACE













**VEHICULAR** 

**BACKPACK** 

**DRONE-BASED** 

**SUITCASE** 













