

# RIDE THE WAVE: ENABLING DISASTER COMMUNICATIONS

DAVID LUM MOTOROLA SOLUTIONS INC

This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

#### SAFER CITIES. THRIVING COMMUNITIES.

# INTEROPERABILITY CHALLENGES





#### Many users and roles

 Police, Fire, Ambulance/Emergency Medical, Search & Rescue, Water, Electricity, Public Works, Hospitals

### Variety of user equipment

 Radios, Smartphones, Tablets, Laptops, PCs

## Using disparate networks

• Cellular, WiFi, P25, TETRA, analog radio, landline telephone, DMR

NEED BETTER COLLABORATION DURING TIMES OF CRISIS AND DISASTER





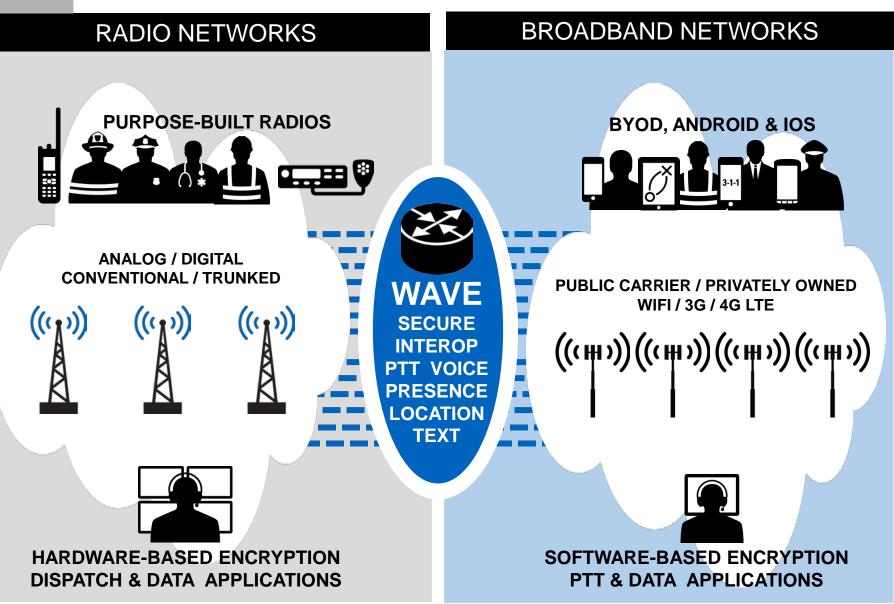
# INTRODUCING

Make it possible for teams of people, in the field, or in the office, to effectively communicate and collaborate through voice and data – securely, reliably and in real-time – regardless of network, carrier, protocol or device whether deployed on-premise or in the cloud.



# **WAVE AT-A-GLANCE**





# THREE PILLARS OF WAVE WHAT IT DOES:



**Connect** Radio Systems

Connect disparate land mobile radio systems and remove barriers to interoperability and mutual aid





**Extend** Radio to Broadband

Extend communications beyond radio to include modern devices and broadband networks ensuring greater workforce connectivity, flexibility and interoperability





#### Broadband Push-to-Talk

Secure Push-to-talk applications over broadband provide users greater workforce collaboration and emergency decision-making





#### **Potential Users**

- Police and Fire Chiefs
- Off-duty officers
- Volunteer Firefighters
- Command & supervisory staff
- Sheriff and County Police
- Disaster response teams
- Detectives
- HAZMAT teams

- City Administration
- City, county and state officials



A **Police Chief** stays in touch with his officers onduty while travelling across county

A **Civil Engineer** warns local authorities that a bridge is about to fail

An **volunteer fire fighter** remains connected and ready to respond

A **Disaster Management Official** contacts the City Mayor with progress reports on recovery efforts





#### Enhance the Reach, Choice & Productivity of your Emergency & Disaster Response Workforce via WAVE

	Conventional & Trunked Radio	<ul> <li>Bridge Disparate Radio Systems Together</li> <li>Wireless integration for any radio system via WAVE Radio Gateway Unit &amp; Donor Radios</li> </ul>
(((щ)))   <b>((( 🕋)</b>	Over Any Network	<ul> <li>Connect With Any Broadband Network</li> <li>Public Cellular (3G/4G)</li> <li>Public WiFi</li> <li>Private LTE</li> <li>Private WiFi / LAN / WAN</li> </ul>
	To Any Device	Use Any Broadband Device • Specialized/Ruggedized mobile devices • Commercial Smartphones, Tablets and PCs • Android & iOS BYOD
	A A	





# THANK VOU

# **Presenter Contact**

David Lum Director, Business Development Motorola Solutions, Inc. #07-01, UE BizHub Block A 12 Ang Mo Kio Street 64 Singapore 569088

Office: (+65) 6643-9524 Mobile: (+65) 9674-0336 Email: david.lum@motorolasolutions.com