

Heading Off An Interoperability Crisis

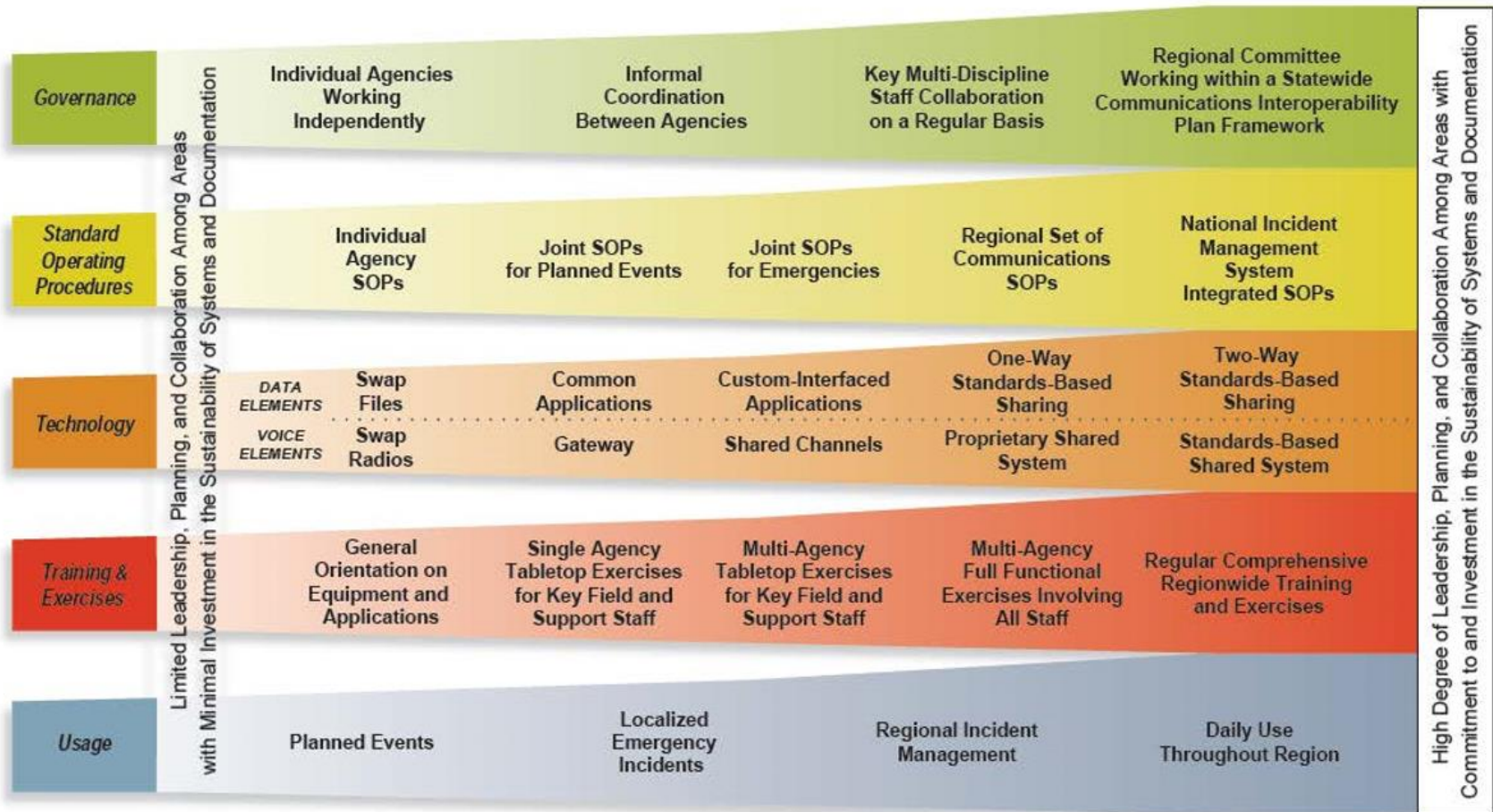
IWCE 2018

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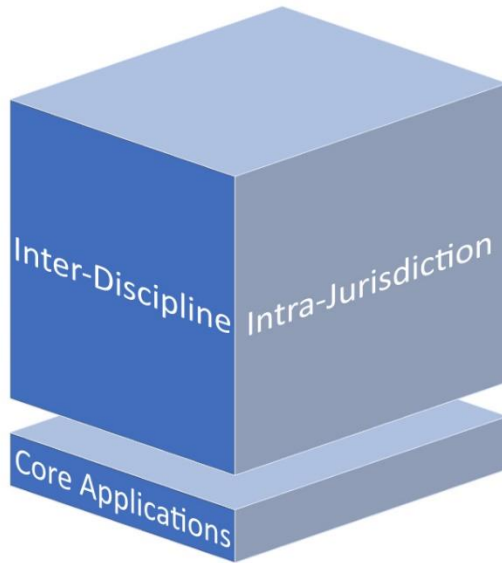
TELEVATE

SAFECOM Continuum




1. The continuum still applies to data (with tweaks)!
2. Data can become far more complex!

Multi-Dimensional Data Interop.



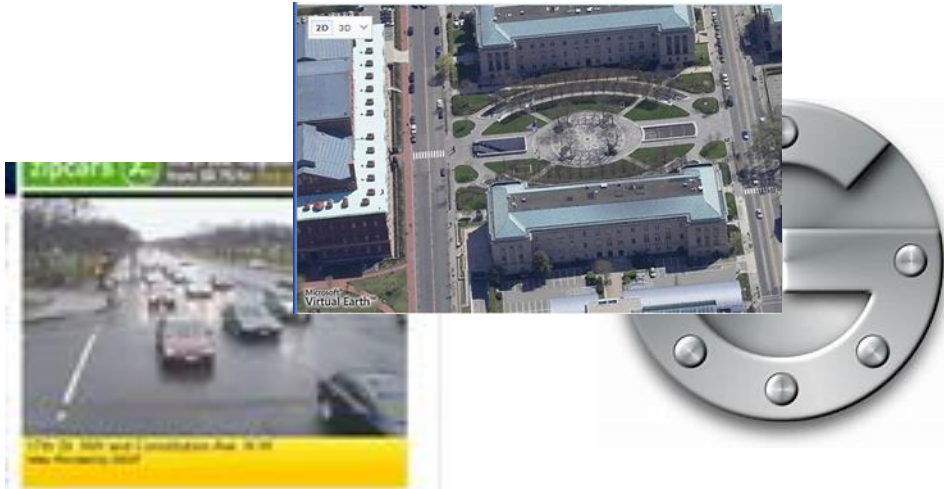
- Cross discipline and cross jurisdictional considerations
- Core applications provide services to other applications (inter-application interoperability needed)

Variety of apps... Interop needs

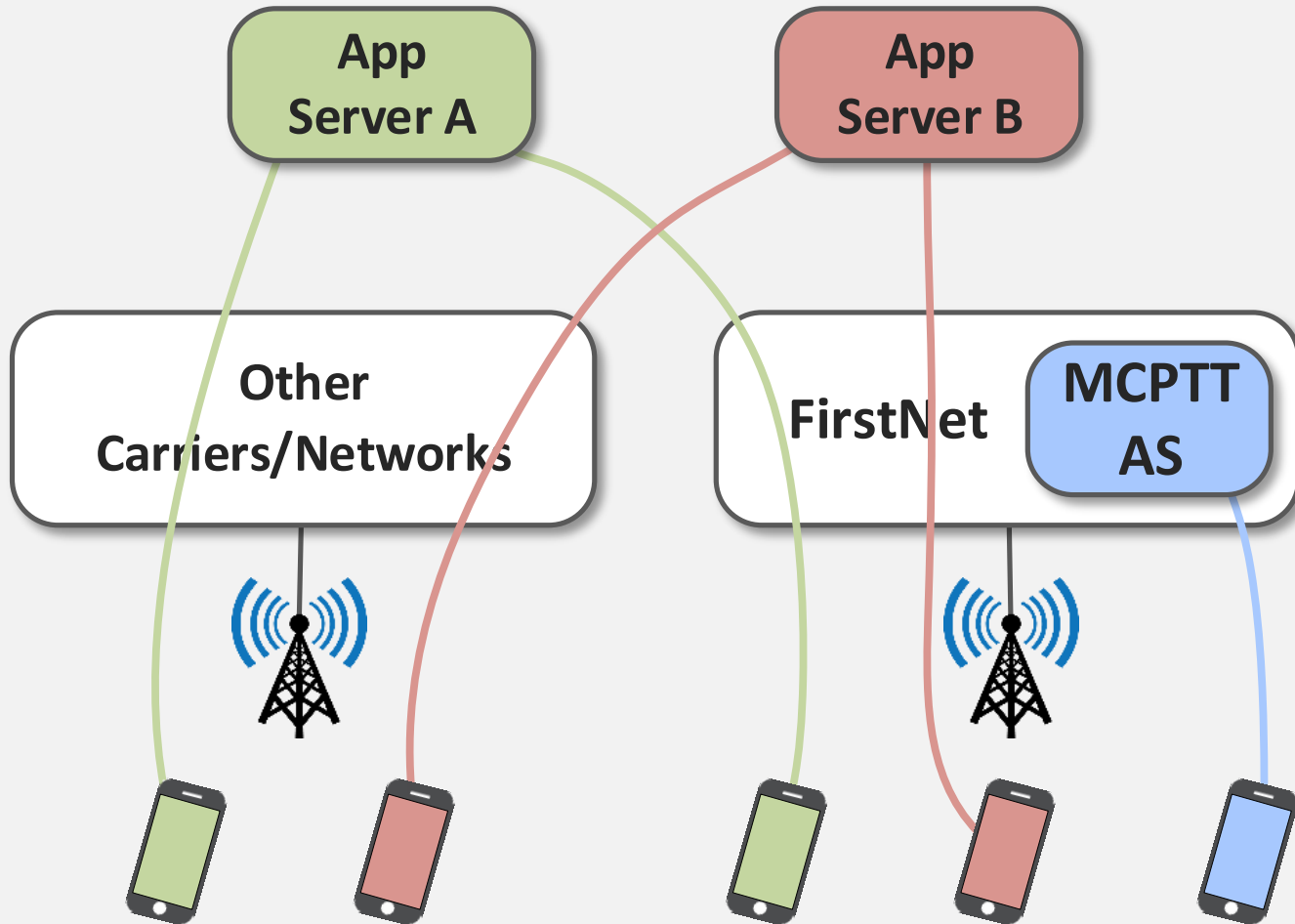
Application	Inter-Agency	Inter-Juris.	Standard / API Exists
Video			
Records Mgmt.			
Situational Awareness (location)			
Biometrics			
ALPR			
eTicketing			
CAD			
ePCR			
Messaging			
And many more...			

Core Applications...

- Commonly used across disciplines and jurisdictions
- Shared among different applications
- Scenarios
 - Sharing location between CAD and situational awareness app
 - Starting PTT from messaging app
 - Using ICAM for video sharing between LE task forces

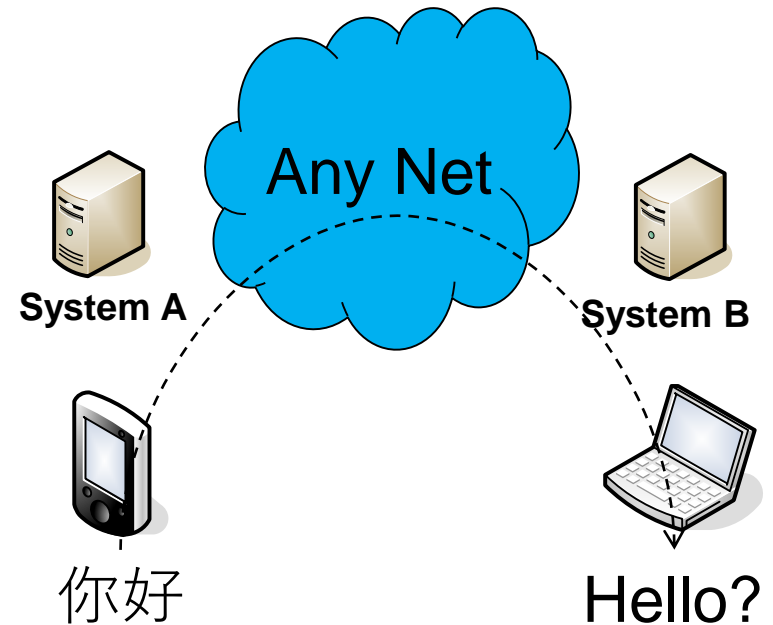


Interoperability in FirstNet



Technology Considerations

1. Are systems “connected”?
 - Publicly addressable space
 - Direct (or virtual) connections
 - Firewalls restricted vs. open
 - E.G.: Agencies choose not to connect via ISSI
2. Are systems configured to “talk”?
 - Accept and configured to use system to system protocols (or equivalent)
 - E.G.: Keys not shared
3. Do the systems/services speak the same language?
 - 3GPP, AMR, SIP, H.264, NIEM, etc.
 - E.G.: DES vs. AES



Governance Considerations

- Agency to agency info sharing potentially more complex over FirstNet
 - MCPTT as an example - hailing channel
- Highly sensitive information that presents new challenges (e.g., regional LE task forces)
- Legal issues associated with information sharing (local laws, policy)
- At what level will governance occur?
Regional, state, national?
- What “system” capabilities must exist for implementing “on demand” requests and permissions?

Making Sharing Second Nature

- Technology and agreements are not enough, we must put critical solutions into practice!
- Standard operating procedures that integrate effectively into operations
- Respect ICS
- Intuitive solutions that are easy to use, combined with training and frequent usage to make interoperability a reality
- Many examples for nationwide MCPTT solution we need to consider

Avoiding The Crisis

- Get ahead of the curve... before we have mass deployments of non-interoperable solutions
- Consider all aspects of SAFECOM Continuum - without usage, we have interoperable solutions that provide no benefit
- Think through use scenarios, is there an interoperability need? Among what agencies/groups? When? How do we work together to make it happen?