



The First Responder Test-Bed Vision to Reality

Presentation to ITS May 28, 2013

Barry Gander, Chair, NVA EVP, CATA

613-340-0701

bgander@cata.ca

"Networked" Not Connected

RKED

- Surround the car occupant with the social network and global knowledge
 - Car interior as a friend delivering employee networks, all contacts, all news, entertainment, health, travel, and environmental control



LTE: Compelling for Responders

VApplication to First Responders

Narrow-band will remain platform of choice for mission-critical needs for some years to come... **THEN LTE**

- Supported by all service providers, makers
- Vendors and device ecosystem support
- Simple antenna, multiple services
- Strong security
- Endorsed by major Public Safety associations
- Continuously evolving technology



TWORKED



JAN N N L

- New technology is rapidly being deployed that transforms the communications opportunities for First Responders.
- A Test-Bed will allow FRs to find optimal solutions and showcase uses.





NETWORKED VEHICLE

ASSOCIATION





- Real road, real world
- Control and assembly area





• In-vehicle data hook-ups and back office



ANN THE

Kanata to U of O



All Rights Reserved & Alestel-Lucent 2009, 7

Test-Bed Features

RKED

- Close to real field deployment environment: Spectrum, Speeds, Needs, Feeds
- Ability to deal with constant technology evolution, integration
- Diverse applications in various First Responder, verticals
- Adaptation to multiple standards, multiplicity of vendors
- Simultaneous service to different communities of interest
- IPR protection, secure information dissemination
- Privacy, Security, Legal administration
- Prelude to Nation wide remote connectivity





- Hussein Mouftah, Canada Research Chair, University of Ottawa
- Steve Palmer, Exec Dir, Canadian Centre for Public Safety and First Responders

TWORKED

- Lance Valcourt, Exec Dir, Cdn Interop Interest Group
- Steve Erwin and Dennis Tessarolo, MTO
- Rock Lavigne & Benoit Charron, Inspectors, Ottawa & Gatineau Police
- Michael Sullivan, Division Chief, Ottawa Fire Service
- Michael Doucet, CTO, RCMP
- James Palmer, Lt. Col., National Defence
- Barry Gander, Chair, NVA
- Alcatel, Motorola, Harris, WiSense, nTerop...

NETWORKED VEHICLE ASSOCIATION

LINE NO.

Prep For World of 'Data Everywhere'

The SevenHabits of June 3-4 Highly Intelligent Communities 2013

"I-CANADA is the centre of the universe for Smart Communities" – IBM Executive







Prep:

"Survey shows consumers comfort with technology and need for immediate information whether they are researching, buying, driving or servicing their vehicle"

- - - - WHE

-- Peter Granger, senior industry marketing manager, Cisco Products Solutions

Consumers Desire More Automated Automobiles

Consumers Trust Driverless Cars



cisco. survey of 1,511 consumers in 10 countries.



Gain Experience With High Data Flow



The mobile Cloud is Key to All Cars...

ORKED



Newspapers - 480 m daily PCs - 1.1 b Phones - 1.2 b land-line Internet users - 1.4 b

Transforms car value equation: 80% of innovation in car today from ICT Vehicle 3rd-fastest-growing connected device (smartphones, tablets)

What's in the Mobile Cloud?: Video

NETWORKED



- Mobile Web browsing and especially mobile video will grow.
- By 2015, mobile video will account for 68.5 percent of all mobile data usage in the U.S. (or 224 petabytes/month).
- Coda estimates that 95 million mobile handset subscribers in the U.S. will be watching video on their phones in five years out of a total of 158 million mobile internet users.



LANK N IS

Feedback

Barry Gander Chair, NVA <u>bgander@cata.ca</u>

613-340-0701