Awakening Local Governments

Presentation Format Guide

Basics:

- Be very clear about how much time you have been given to present your ideas, and respect this limit.
- Be sure to share a few moments about why this issue matters to you. Personalize and contextualize it. Speak from the heart.
- Focus on a few key issues. Less is more.
- If you do not know the answer to a question you are asked - admit it, and offer to find out.
- Be prepared for strong opposing opinions. Listen calmly and find common ground. Avoid engaging in a battle of facts.
- Provide a written outline of your presentation to your elected officials.
- 2 weeks after your presentation, follow-up to see what actions your local government is committed to taking on this issue.

Presentation Templates:

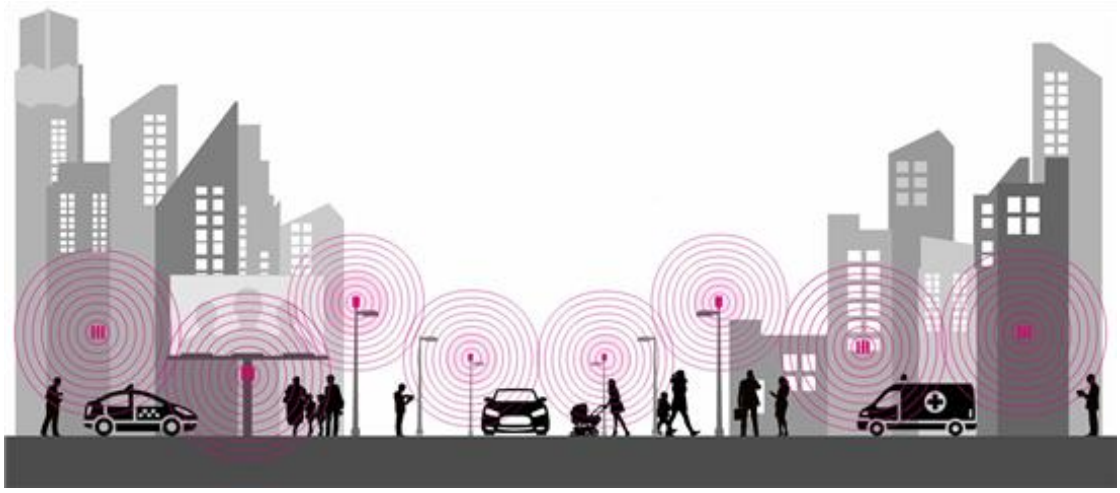
Here are three ready-to-go presentation template downloads. Edit as required:

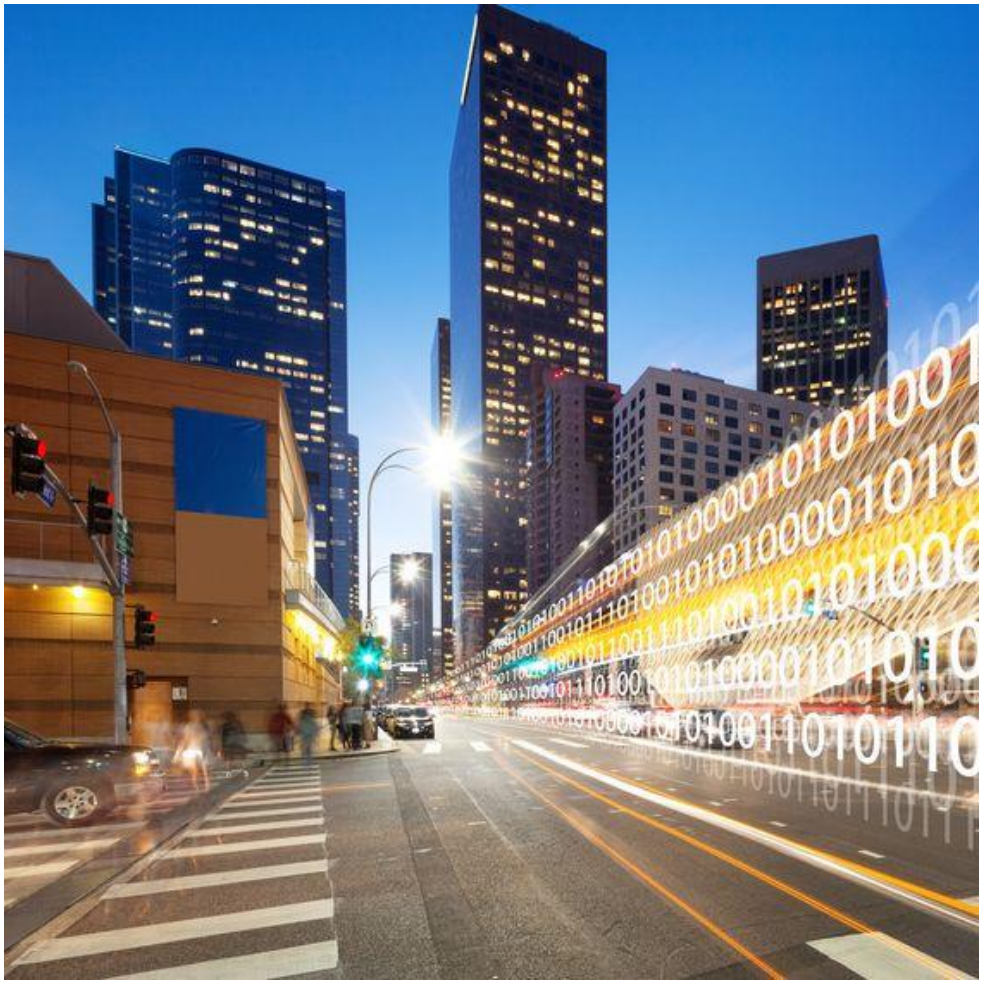
1. Short Presentation to Councils or the Community on Microcells and 5G - 3 minutes.
2. Microcell Presentation to Councils with a Focus on Health and Children - 7 Minutes.
3. 7-Minute Presentation to Councils or the Community on 5G & Health and Fiber Optics

Creating Your Own Content

Suggested Structure

1. Show a quick slide or two that demonstrate what 5G is. Here are some suggestions:





2. Provide a brief summary of the issues and concerns. If time is short, choose two or three of these issues to focus on. Use the Overview below or these printable resources to guide you:

- Talking Points for 5G https://thecalm.ca/wp-content/uploads/2019/08/Talking-Points-for-5G_Uploaded_August_19.pdf
- The Truth about Microcells & 5G Flyer http://thecalm.ca/wp-content/uploads/2019/02/TruthAboutMicrocells5GFlyer.pdf
- Primer ~ 5G and Microcells in Canada https://thecalm.ca/wp-content/uploads/2019/08/Primer-5G-and-Microcells-in-Canada.pdf

Or click on any of the hyperlinked words below to connect with information sources that will help you prepare.

Script: "Independent science shows we are at a crossroads. If we allow microcells and 5G to become the new norm, this is what is at stake:"

- **Privacy** and **cyber security**
- **Global climate stability** and **a healthy environment**
- **Physical**, **mental**, and **emotional well-being**
- **Wildlife** including **birds**, bees, and other pollinators
- **Aesthetics, urban design** and **property values**
- **Electrical worker safety** and **public safety**

An Overview of Key Issues

Privacy & Cyber Security

- Wireless networks jeopardize data privacy and national security.
- Of particular concern to Canadians: Tech giant Huawei is a key player in building our wireless grid. In BC, Telus is installing microcells made by Huawei on neighborhood streets. National security experts have warned that Huawei and the Chinese government they are affiliated

with will have access to all of our private and government data if we allow them to be a part of our 5G network.

- Several western nations including the UK, the US and Australia have banned Huawei from their wireless networks due to serious concerns about cyber-espionage. Because of our trade agreements with China, it would cost Canadian taxpayers a hefty lawsuit to follow suit.

Wireless Networks and Climate Change

- Despite the misconception that wireless tech is "Green", wireless networks are huge energy guzzlers. It takes an estimated 10 times more energy to send data wirelessly than through wires.

Effects of Radiofrequency Radiation on Human, Wildlife and Environmental Health

- 5G has not been proven safe, or even tested for safety before being unleashed. Preliminary science shows its millimeter waves damage skin, eyes and more.
- 4G has proven biological effects on humans, wildlife, plants and eco-systems, including pollinators
- The constant access to video streaming and screens promised by 5G will heighten the tech addiction of our youth, further fragmenting our social skills and relationships

Urban Design & Public Safety – There Goes the Neighbourhood!

- Placing cell towers by homes lowers property values and is aesthetically displeasing. Heavy small cell equipment in Public rights-of-way endangers public safety.

- More and more insurance companies won't cover wireless harm. Will the city be liable for claims resulting from 5G transmitters being placed on city property by people's homes?

3. *Focus on solutions.* Wired Fiber-to-the-Premises Networks

Script: "Given all of these proven concerns – let's do this a better way."

Community-owned wired fiber-to-the-premises provides the safest, fastest internet available, and *truly* smart city applications. (Learn more here). It is a misconception that 5G is needed to build "smart" cities.

Wired fiber optics can provide most of the smart city functions we are being told we need wireless for –with greater data speed and protection.

- Existing cell transmitters are generally sufficient for current mobile needs. If not, put a few select micro-transmitters in commercial districts only – never by people's homes, schools, or hospitals.
- At this time, 5G is for cellular service only. A home and at the office it makes more sense for cell users to use their internet plans to connect than their more expensive data packages. Plus, all devices - even smart phones - can be wired for increased safety, speed, and privacy.
- Communities like Olds Alberta and Coquitlam, BC have built their own fiber networks and are now generating revenue from them. Any network owned by a telecommunications company uses proprietary equipment and allows the telecom to control the equipment used, the cost of service, and the flow of information, putting net neutrality at risk.
- Fiber is the backbone of 5G and all networks. Connecting it directly to each premise and forgoing wireless transmitters allows for the fastest, safest,

most affordable connectivity possible. There is funding and assistance available for building municipally-owned fiber-to-the -premises networks. Connected Communities' For Local Governments page is an excellent place to start exploring this option.

4. Be clear about what you are asking for

If your local government has not yet signed contracts allowing microcells to be installed:

- Ask your local leaders to not sign any contracts that will allow telecoms to install microcells on publicly owned streets.

If Contracts Have Been Signed or not:

- Ask your elected local officials to join with others local governments to lobby the Federation of Canadian Municipalities to pressure *Innovation, Science and Economic Development Canada* (ISED) to c**lose the Loophole** in ISED CPC-2-0-03 **that** gives telecoms free rein to place 4G and 5G antennas on existing structures right by our homes, schools, and work places.
- Ask your local government to create an Antenna Siting Protocol and/or a Bylaw regarding microcell placement that are as protective as current federal laws allow. These resources will show them how:

1. Tips for Creating a Proactive Antenna Siting Protocol
2. Template for MODEL WIRELESS TELECOMMUNICATIONS Protocols ~PDF

- Ask your local council to establish a working group that will look at creating a community-owned fiber to the premises network. This site will help them get started: connected-communities.ca

- Ask your local council to impel Health Canada to invest in research, educate the public, and update their archaic Safety Code 6.
- Ask your council to pass a resolution calling for a moratorium on the installation of 5G networks until this technology has been proven safe.

5. How will your Presentation be Received? (And how to respond to feedback)

Be Prepared for Apathy and/or Antagonism

The primary concerns of most local governments on *any* issue are:

1. How do we get this done with minimal effort on our part?
2. How much will it cost and where will the money come from?

Here is a common response local governments give to this issue:

> "This is interesting but given that telecommunications is a federal issue, and that ISED is approving this technology and Health Canada says it is safe, this is out of our hands."

*Your j*ob is to help your local representatives realize that their engagement on this issue is crucial and timely. High-speed internet access is now mandated an essential service by the Canadian government, and should be considered a critical part of infrastructure, just like roads and water pipes. Communities must have the right to make sure it is provided in safe and healthy ways.

Your local government has the exciting opportunity to offer innovative and cutting-edge technological leadership. Tell them what they can do:

- Draft protective protocols. This overview and this detailed document show how to do this.
- Establish a revenue-generating community-owned fiber-to-the-premises network. Find tips on how to do this here: connected-communities.ca
- Follow the example set by the elected leaders of Pitt Meadows, BC, and voice their concerns about 5G and Canadian radiation exposure guidelines. Mobilize with other local governments to lobby for federal telecommunication policy changes.

Other Responses & Questions you might receive:

1. How do we most easily serve our constituents' perceived need for faster download speeds, greater bandwidth, lower fees, and improved internet access?
   (*Community-owned fiber networks* is your answer.)

2. In remote communities - how do we get better cell coverage?
   (*It is unlikely telecoms will bring fiber and small cells to most rural areas. Rural communities should focus on crossing the digital divide by building their own fiber networks, thus insuring high-speed internet access, and on keeping landlines in place so citizens are not reliant on cell phones as their primary form of communication. Cellular connectivity is not a replacement for wireline connections.)*

3. Until Health Canada concludes that wireless technology is unsafe, the issue of the safety of wireless technology is out of our hands.

   - *Scientific consensus shows that exposure to wireless radiator is harmful.*
   - **The New Hampshire Example**
     These hard questions are being asked by the state of New Hampshire about 5G even though telecommunications and Radiofrequency exposure guidelines also fall under federal jurisdiction there. They show that local and

provincial governments can and must take a proactive and precautionary position on microwave radiation and 5G.

- *Just like big tobacco and asbestos, there is ample evidence that the wireless industry is influencing regulatory bodies to keep their profits growing.*
- *Canada's Safety Code 6 is one of the least protective in the world.*
- *Switzerland protects its citizens 100 times more from microwave radiation than our government does;* ***200 times more*** *when Swiss citizens are at hospitals and schools.*
- *Refer skeptics to this investigative journalist piece:* https://www.thenation.com/article/how-big-wireless-made-us-think-that-cell-phones-are-safe-a-special-investigation/)
- *And this in depth overview of the inadequacies of Safety Code 6* http://thecalm.ca/wp-content/uploads/2019/02/Safety-Code-6-Fact-Sheet.pdf

4. We have already signed contracts with telecoms. We will let them take care of this and trust they are adhering to federal safety and exposure standards.

(*See responses to Question #3*)

OR

We see the benefits of finding an alternate way of meeting telecommunication needs. Our contracts with _____ Telecom Company are not exclusive. Let's build our own co-existing fiber network. How do we do this?

(*Refer them to* www.connected-communities.ca .)

5. We have not signed any contracts yet - or telecoms won't serve us because we are too remote and they won't make enough money here. If telecoms don't fulfill our communication needs, who will? Can we have an easy guide to how we can build our own fiber network?

(*Refer them to* www.connected-communities.ca .)

6. Yes, we know the wave is to move towards smart city applications, but frankly all of this is over our heads. We will let our tech department sort it out in time.

(*Although these articles are US-based, they show why all local leaders must be informed and proactive when it comes to making technological infrastructure decisions.)*

What Municipal Managers Should Know About 5G
http://www.themunicipal.com/2018/12/what-municipal-managers-should-know-about-5g/

Handcuffing Cities to Help Telecom Giants
https://www.wired.com/2017/03/handcuffing-cities-to-help-telecom-giants/

OR

Wow – community-owned fiber to the premises seems do-able - and we can actually earn revenue from it. Let's get started.
(*Refer them to* www.connected-communities.ca .)