



WHO OWNS THE ELECTROMAGNETIC SPECTRUM?

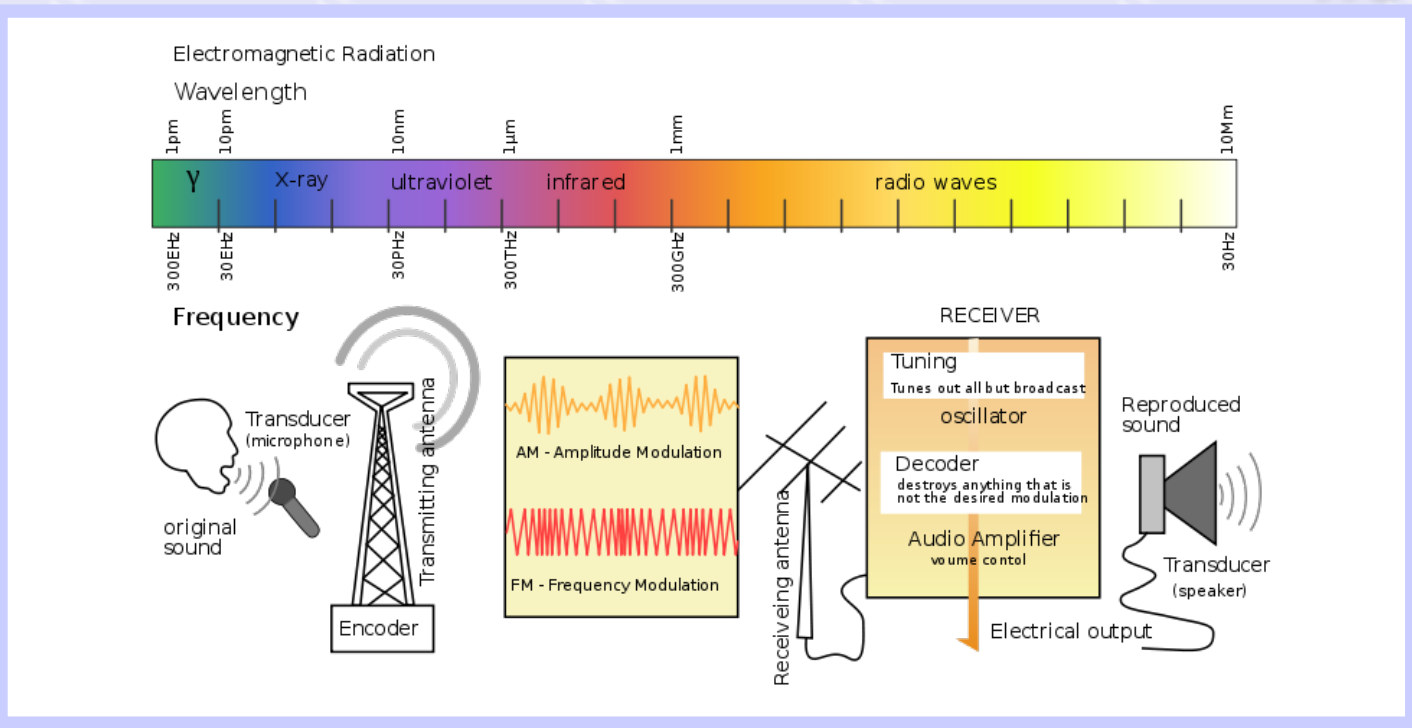
ARE BROADCAST AND COMMUNICATION FREQUENCIES (ARTIFICIALLY GENERATED) APPROPRIATE FOR TRANSMISSION INTO THE BIOSPHERE? WHO DECIDES? WHAT ARE THE CRITERIA?

WILL THERE BE ZONES ESTABLISHED TO PRESERVE LIFE AT BACKGROUND RADIATION LEVELS? IS THIS POSSIBLE? WHO WILL HAVE ACCESS?

SHALL ALL FREQUENCIES BE UTILIZED MAXIMALLY? SHALL POWER DENSITY BE UNREGULATED?

SHALL MANY OVERLAPPING USES BE PERMITTED? IF TECHNOLOGIES ARE DEVELOPED TO MINIMIZE INTERFERENCE WHILE INCREASING DENSITY, SHALL THEY BE PERMITTED?

HOW SHALL THE PROLIFERATION OF WIRELESS TECHNOLOGIES BE CONTROLLED, MANAGED, REGULATED? WHO WILL REGULATE THEM? WHO WILL REGULATE THE REGULATORS?



Radio is different from radiofrequency, cellphones and other wireless tech.

The Capitalism Papers:

Jerry Mander says that the sale of the commons to corporations is occurring because planetary resources are finite and the corporations must grow.

Noam Chomsky:

In this YouTube, Dr. Chomsky discusses how the *tragedy of the commons* was first a propaganda device used to privatize them for "their protection". The establishment of the commons was part of the Magna Carta -- 800 years ago!

Some of Garrett Hardin's Points:

- * The concept of the commons works only when populations are low.
- * Resources of the commons are limited.
- * If all benefits of using more than one's per capita share return to one, but risks are always shared by everyone, there is no incentive to share the commons equally.
- * A moral appeal to maintain the commons will not work as only the moral members will respond to the appeal.

FREEDOM TO POLLUTE OR FREEDOM FROM POLLUTION?



★ LAND-BASED COMMONS

ANTENNA TOWERS

DAS SYSTEMS

RFID READERS

WEARABLE TECH

HOMELESS HOTSPOTS

INTERNET OF THINGS

INTERNET OF MOVING THINGS

ROOFTOP ANTENNAS (INCLUDING HIDDEN ANTENNAS)

SMART GRID

HIVE

STREET LAMPS

WIRELESS KIOSKS

WI-FI PAVEMENT, MANHOLES

INCREASING DENSITY OF ARTIFICIAL EMF

More things transmitting frequencies
More spectrum filled
More space penetrated
Pulsed and modulated complex frequencies
Use of "white spaces" technologies
"Unused-frequency" seeking technologies

What is "The Commons"? [David Bollier Video](#)

"The Tragedy of the Commons" [The Garrett Hardin Society](#)
[Tragedy of the Commons website](#)
[General Statement: Herschel Elliott](#)
[Tragedy of the Commons -- Hardin](#)
[Going Beyond the Tragedy of the Commons](#)



Economic Impact

Future Insurance Risk

WiFi Hotspots Everywhere

Apple is Invading Our Bodies

★ **Bristol Tries Wireless Canopy.**

The Wireless Commons [Examining the wireless commons](#)
★ [Tragedy of Wireless Commons -- Excerpts](#)
[Tragedy Revisited: The Wireless Commons -- Sage](#)

Commons: Antennas [Antenna Search](#)
[Companies and Towers](#)
[The Wireless Landscape](#)

Commons: Frequencies [Another frequency auction](#)
[US Frequency Allocations](#)
[How many networks in US?](#)
[US Networks at 80% capacity](#)

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[Wireless is NOT Green](#)
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Technologies increase EM density

[Smart Dust](#)
★ [M2M, Big Data](#)
[FCC, Super Wi-Fi](#)
[Wi-Fi via light bulbs](#)
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Home: [Oscillatorium](#)
Newest version [this map](#)
Date of this update: 02-19-16

Commons:
The Smart Grid

[U.S. Project map](#)
[Global project map](#)

[Sage Reports: Smart Meters](#)

Commons:
Everything connected

[Sky-Fi](#)
[Smart cities](#)
[Connected everything](#)
[Connected postal things](#)
[Connected moving things](#)

THE TRAGEDY OF OUR WIRELESS COMMONS

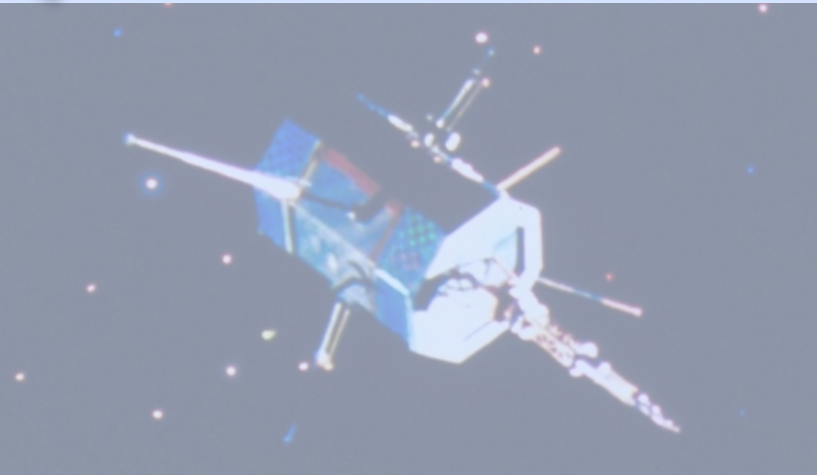
Other Links [On the Commons](#)
[Opportunistic radio](#)
[Wireless saturation](#)
[Spectrum shortage in 2013?](#)
[BioMetric Enrollment Center](#)
[No limit on antenna placement](#)
[US networks running out of capacity](#)
[Spectrum shortage or control disputes?](#)
★ [Bombay stopped towers on open spaces](#)
[Hubspot: Sobering Mobile Market Infographics](#)
[Where will increase in cellular capacity come from?](#)
[Open Spectrum policy: all the spectrum is for the taking](#)
[Shannon-Hartley theorem: how many bandwidths can exist?](#)
[Where is the Spectrum? Locate owners by band, territory](#)

EVERY WIRELESS PHONE CALL, DOWNLOAD, USE OF AN APP OR PERIOD OF 'NET SURFING, CAUSES TOXIC HIGH FREQUENCY ELECTROMAGNETIC (EM) RADIATION TO MOVE AT THE SPEED OF LIGHT THROUGH THE ENVIRONMENT. IT TRAVELS FROM TOWER TO TOWER, AFFECTING LIVING BEINGS IN ITS PATH.

CAN WE ESCAPE THE LONG-TERM CONSEQUENCES OF THIS INVISIBLE POLLUTION WHEN ONLY A FEW OF US PERCEIVE ITS SHORT-TERM BIOLOGICAL EFFECTS? DOES OUR SPECIES HAVE THE RIGHT TO POLLUTE THE BIOSPHERE WITH UNNATURAL EM RADIATION, OR DO ALL LIVING BEINGS HAVE THE RIGHT TO NATURAL BACKGROUND RADIATION?

INDIVIDUALS AND GOVERNMENTS ARE MAKING CHOICES AND UTILIZING TECHNOLOGIES THAT ADVERSELY AFFECT ALL OF LIFE. THIS IS THE TRAGEDY OF THE COMMONS.

★ **ATMOSPHERIC COMMONS**



HAARP

SATELLITE WI-FI



AIRLINE TRAVEL

MICROWAVE WEAPONS

INTERNET BALLOONS

INTERNET DRONES

SURVEILLANCE DRONES

CONNECTED AIR