

EXHIBIT I

Timeline from 1G to 5G: A Brief History on Cell Phones



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From 1G to 5G: The History of Cell Phones and their Cellular Generations

The timeline and history from 1G to 5G took just over 40 years since the introduction of wireless cellular technology. And a lot has changed since then.

- Cell phones have become smaller.
- Download speeds have become faster.
- Text messaging has come ([and almost gone](#)).
- Surfing the internet with phones became common.
- The steam of social media posting continues.
- And apparently, there's an app for nearly everything now.

The timeline from 1G to 5G couldn't have happened without creating and enhancing each generation of telecommunications leading to what it is today. Roughly every 10 years since 1979, each newer generation has changed how we communicate with one another, further improving our way of life.

Diving into the abyss of information, let us take a look at the timeline from 1G to 5G, briefly looking at each generation to find out what it had to offer. We'll also look at the most popular cell phones used during the time.

1G

Launched by Nippon Telegraph and Telephone in 1979, 1G was first introduced to the citizens of Tokyo. By 1984, the first generational network covered all of Japan, making it the first country to have 1G service nationwide.

It wasn't until March 6, 1983, that [Ameritech introduced 1G to the United States](#). Soon after, Canada got coverage in the mid-1980s.

Although the cellphone prototype was made in 1973 (10 years before the North American launch of 1G), Motorola introduced the first commercially available cellphone to the public in 1983 -the DynaTAC.





Weighing in at 2 pounds, the Motorola DynaTAC provided 30 minutes of talk time and took roughly 10 hours to charge.

Nicknamed “The Brick,” the Motorola DynaTAC was valued at USD 3,995 (USD 10,300 today). Although being a clunky, bulk, and awkward phone to use, DynaTAC sales were more than expected. Within the first year alone, [Ameritech sold roughly 1,200 Motorola DynaTAC phones](#). By 1998, cellphones and similar services made up to two-thirds of Motorola’s revenues.

1980s Motorola DynaTAC Promotional Video



1980's Motorola DynaTAC Commercial

Although being a revolutionary technology at the time, 1G suffered major drawbacks from today’s standards. Listening to somebody over a 1G network was difficult due to the low sound quality. Coverage was also shoddy, with large amounts of static noise and background crackling. No roaming support was provided either. Security didn’t exist over a 1G channel because there was no

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