



BEiNG-WISer
CA22104

COST ACTION CA22104
Behavioral Next Generation in Wireless
Networks for Cyber Security
(BEiNG-WISer)

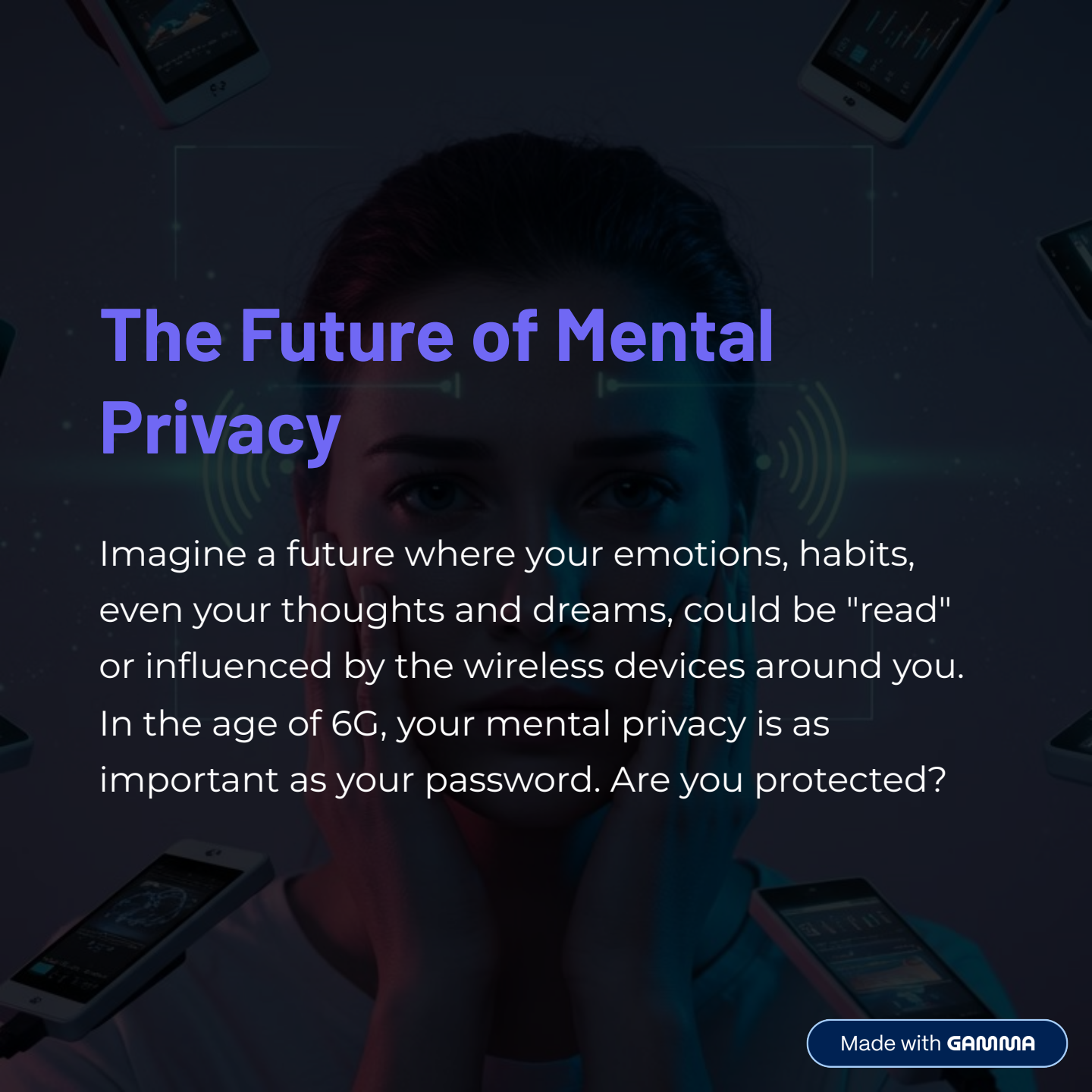


This educational material is based upon work from COST Action BEiNG-WISer CA22104, supported by COST (European Cooperation in Science and Technology). COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation.

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BEiNG-WISer: Mental Privacy for All



A woman's face is centered in the background, looking directly at the camera. She is surrounded by several smartphones floating around her, some displaying charts and graphs. There are also green digital signal waves emanating from her head, suggesting a connection to the devices. The overall theme is digital connectivity and privacy.

The Future of Mental Privacy

Imagine a future where your emotions, habits, even your thoughts and dreams, could be "read" or influenced by the wireless devices around you. In the age of 6G, your mental privacy is as important as your password. Are you protected?

The Next Frontier in Cybersecurity

As 6G wireless networks emerge, they'll bring unprecedented capabilities that extend beyond our devices and into our cognitive space:



Neural Monitoring

Advanced sensors could detect stress levels and mental states, potentially helping with anxiety management and mental health monitoring.



Health Integration

Real-time health metrics sharing with doctors, enabling immediate intervention for conditions like heart attacks or strokes.



Cognitive Enhancement

Brain-computer interfaces that could assist with learning disabilities or memory enhancement for aging populations.

These advancements will revolutionize healthcare and daily living, but they also create unprecedented cybersecurity vulnerabilities at the neural level.

The Next Frontier in Cybersecurity

This post will help you see how protecting your thoughts, emotions, and behaviors online is the next big step in cybersecurity.

Thoughts

Your cognitive patterns and ideas need protection

Emotions

Your feelings and reactions are private data

Behaviors

Your actions online reveal more than you think



Beyond Traditional Cybersecurity; Be Careful about Brain Spyware

You know about computer viruses and password leaks. But did you know new technology can "read" your mood or predict your behavior from your online actions?

The Mental Privacy Challenge

With 5G and 6G, your phone, smartwatch, or even VR headset can capture not just data, but signals about your mind: how you feel, think, and act. Protecting **mental privacy** means not just keeping hackers out, but ensuring your mind isn't exposed or manipulated online.

5G/6G Networks

Advanced networks enable deeper data collection



Mind Monitoring

Devices can track cognitive and emotional states

Protecting Your Mental Privacy



Ask Questions

When you use new apps or tech, ask what information they collect.



Stay Aware

Be aware of how much of your behavior is tracked—sometimes it's more than you expect!



Know Your Rights

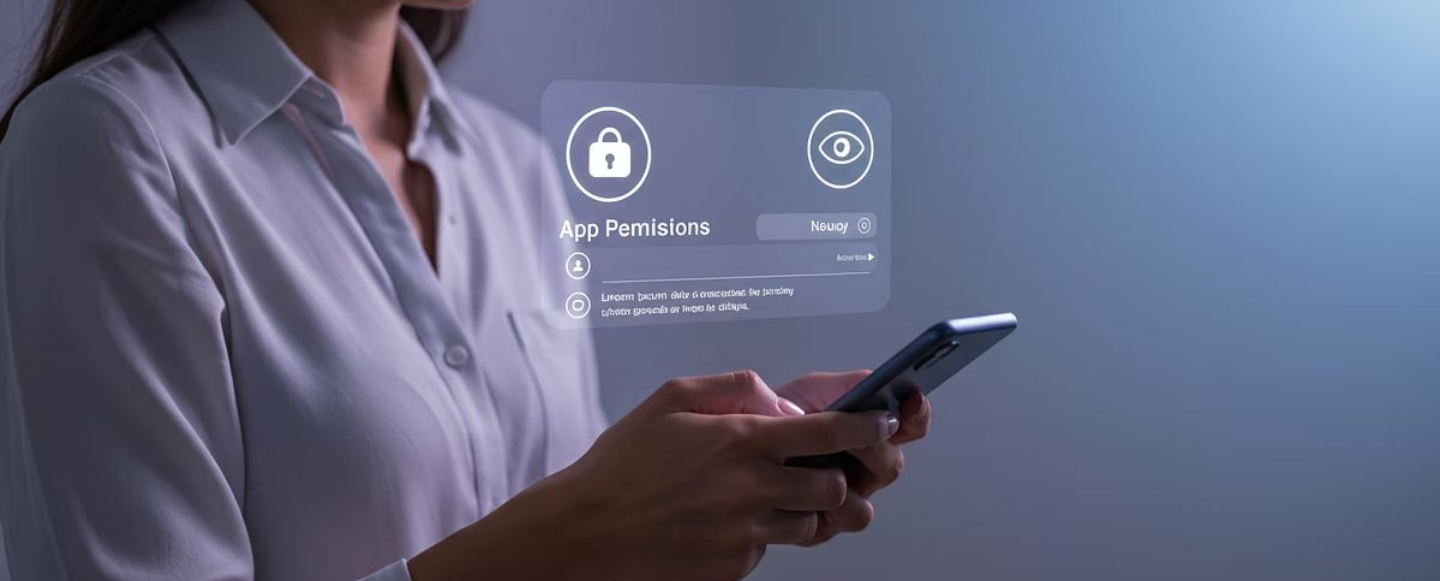
Understand that legal protections and ethical design are just starting to catch up.



Demand Policy Actions

Speak up for your rights!

Call on policymakers and organizations to create and enforce strong laws that protect your mental privacy.



Take Action Now

Check the permissions of your favorite wireless device or app. Does it access your health, location, or even mood? Consider turning off what you don't need.

Value Your Mental Privacy

If you find that an app is collecting more info than you're comfortable with, change your settings or look for safer alternatives. Your mental privacy is valuable, don't give it away for free.

Review App Permissions

Check what data your apps can access

Adjust Privacy Settings

Limit unnecessary data collection

Find Privacy-Focused Alternatives

Choose apps that respect mental privacy



Start the Conversation

Discuss with a friend or colleague:

How do you protect your mental privacy?

Share your strategies and concerns

What would you do if your device could "sense" your feelings?

Consider the implications and your comfort level

Advocate for Better Protection

Keep the conversation going. As technology advances, demand better privacy for your mind, not just your data. Advocate for responsible, human-centered tech.

Cybersecurity has evolved beyond protecting computers, it's about protecting you. Mental privacy is the next great frontier of digital rights!

Reference

Ferreira, Ana & Ozan Özparlak, Başak (2026).
Technical (and other) Sides of Inclusive Privacy
and Cybersecurity for Brain Machine Interfaces in
6G. In Aden, Hartmut, Moritz, Marcel & Loscri,
Valeria (Eds) Interdisciplinary Perspectives on
Cybersecurity in Wireless Networks. COST Action
BEING WISE/ HWR Berlin, pp. 65-70.

<https://doi.org/10.4393/opushwr-4651>.