

Towards Understanding Privacy Trade-off In An Epidemic

Dr. Sajedul Talukder
Edinboro University

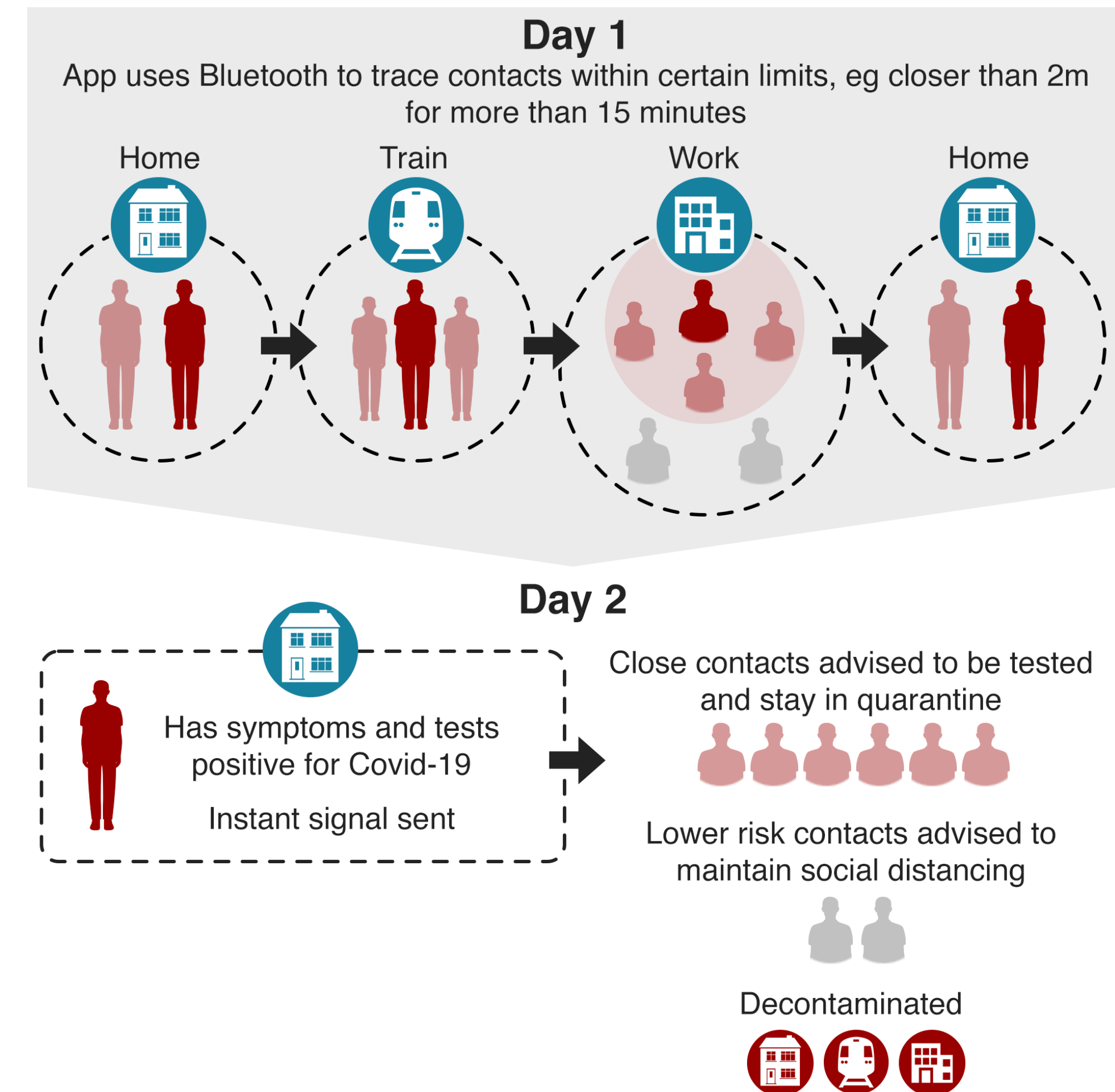
Objective: Achieving a fair balance between surveillance and privacy

Our Contributions::

1. Survey on privacy issues during pandemic
2. Privacy principles recommendation
3. Guideline for post-pandemic privacy restoration



Oxford University contact-tracing app



Research Findings

- **Survey on privacy issues during pandemic:** This paper provides the first comprehensive survey on various privacy issues on various fronts that are taking place during the pandemic. To the best of our knowledge, this is the first comprehensive survey that addresses privacy issues from all sectors from surveillance to medical data.
- **Privacy principles recommendation:** This paper presents various privacy principles recommendation for monitoring app and device designers that include privacy-conscious mechanisms, aggregated anonymized data and volunteered data.
- **Guideline for post-pandemic privacy restoration:** Finally, this paper presents a comprehensive guideline to ensure post-pandemic privacy restoration that would be beneficial for the public and private sectors alike.



PRIVACY ISSUES

- ❖ Aggressive Surveillance Measures
- ❖ Privacy of Medical Data
- ❖ Privacy of Student Data
- ❖ Teleconferencing Privacy (Zoombombing)
- ❖ Privacy of Sensitive Data
- ❖ Privacy of Tech Company Data

Takeaway

The jurisprudence concerning cases regarding the willingness of public officials to interfere with the constitutional right to privacy in the interests of national security or public health has repeatedly proven that a reasonable balance can be reached

Conclusion

- ❑ It will be important to protect privacy in designing and implementing these techniques.
- ❑ The explanation why it collects data, what data is collected and how long they are kept must be accessed through transparency.
- ❑ To order to step forward together to this next process, monitoring and testing, and using similar techniques built to cope with the pandemic, it is more important than ever to understand the concept of privacy.

Interested in our research? Please visit our PENSLab:
<http://penslab.cs.edinboro.edu/>