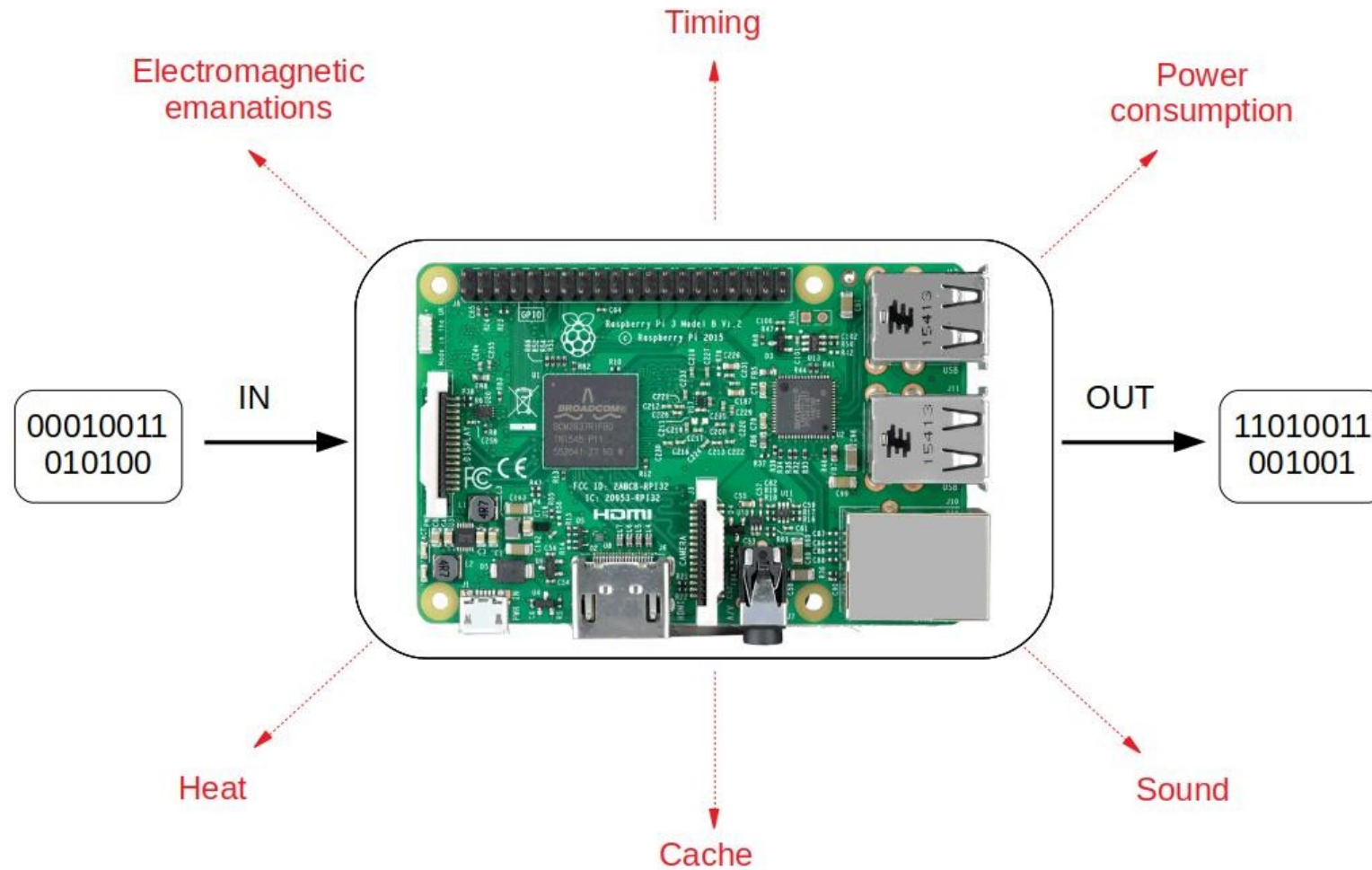


# Automated hardware malware analysis

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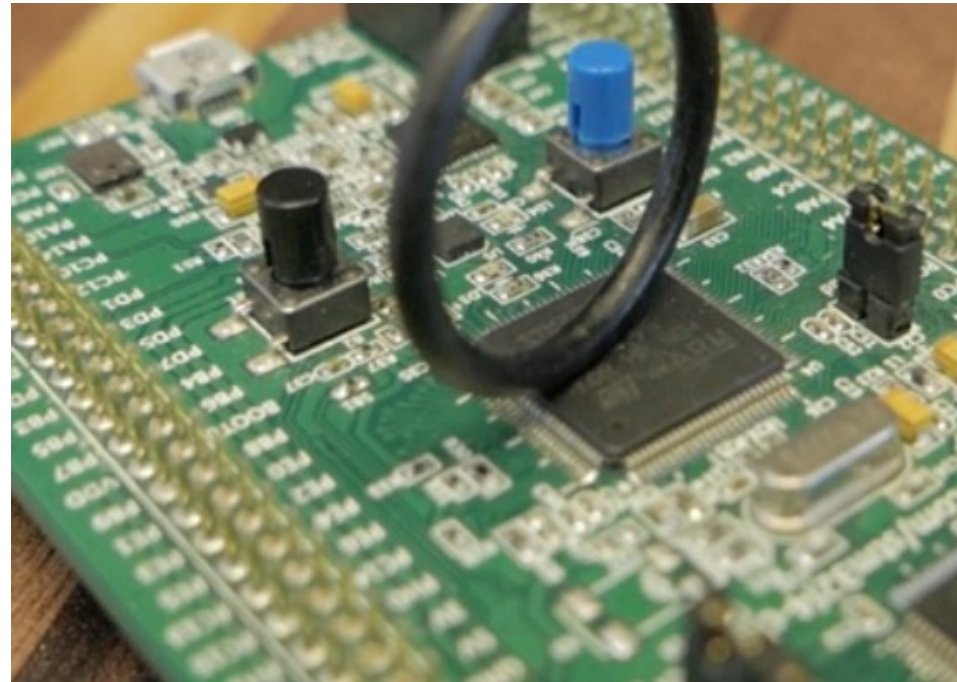


# What is side channel analysis?



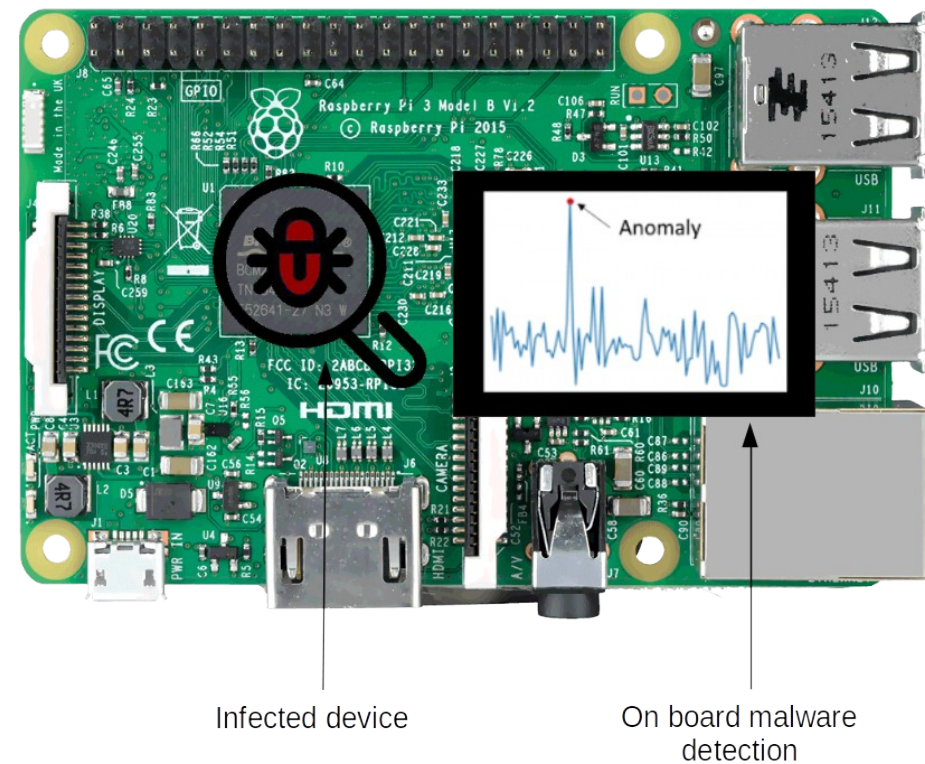
# Side-channel attacks

- Power consumption and electromagnetic emanation (inference of cryptographic keys)
- Acoustic (sounds produced by keyboard to log the typed keys)
- Cache (Spectre, Meltdown)

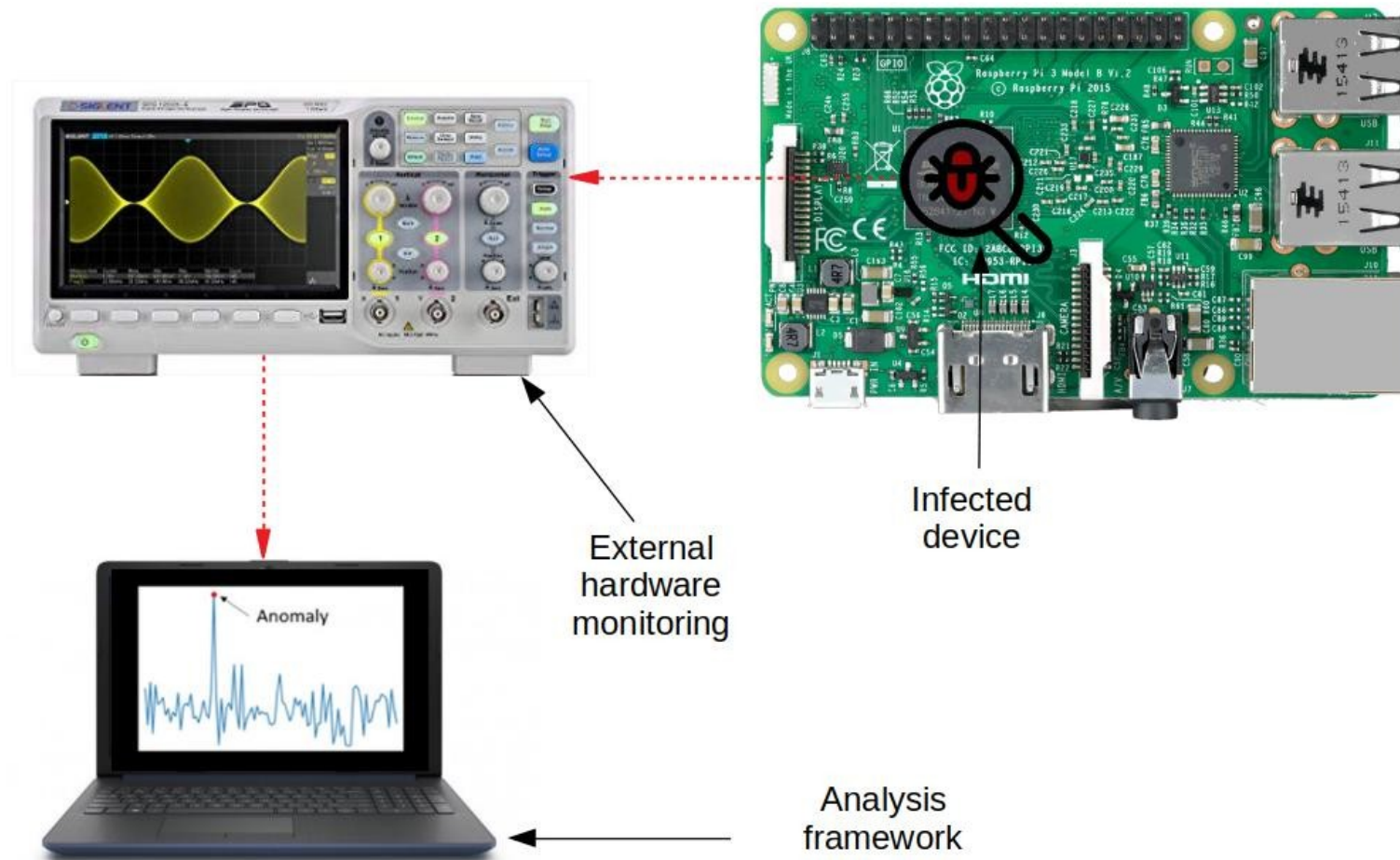


# Traditional malware detection

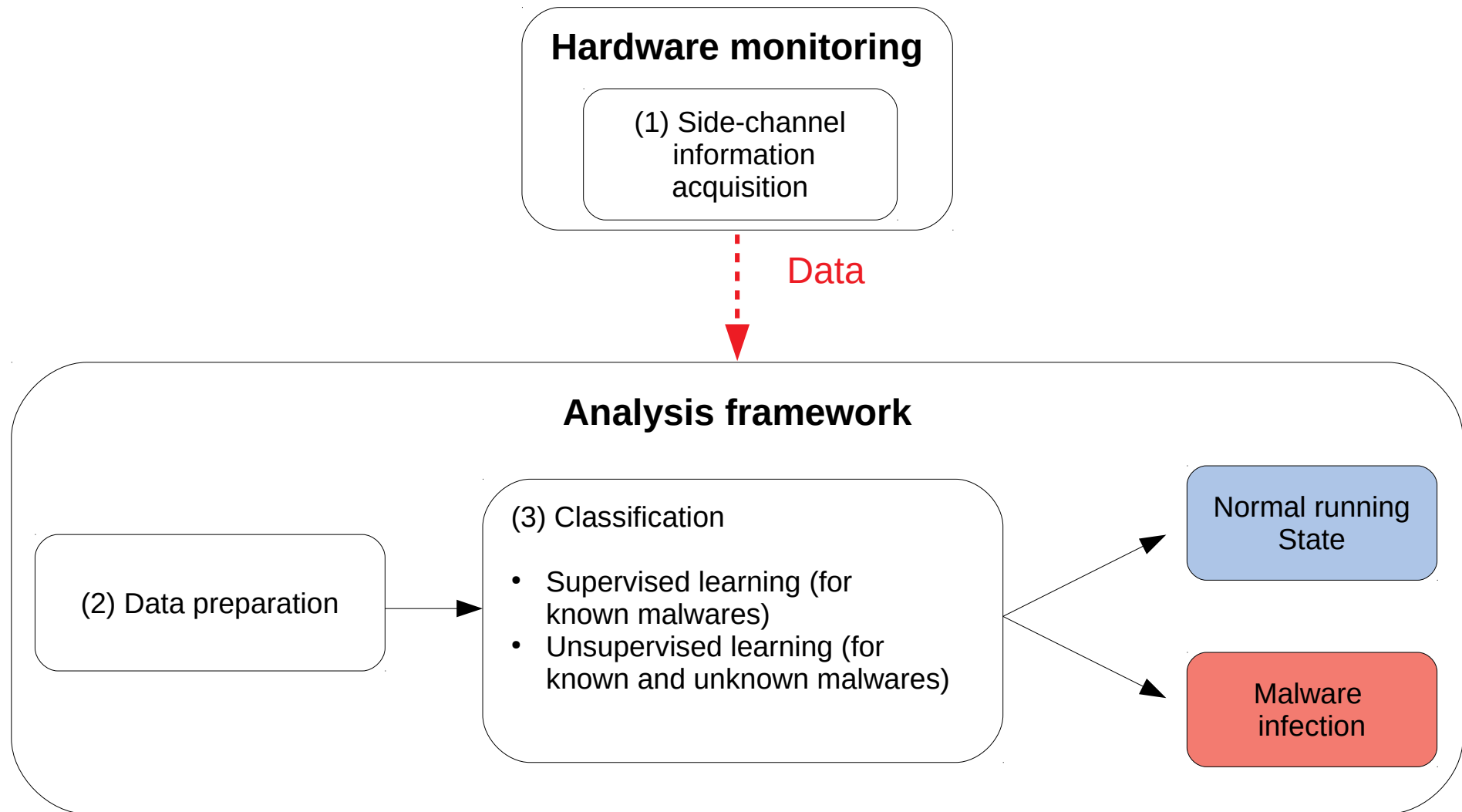
- Signature-based
- Behavior-based
- Specification-based



# Side-channel malware detection



# AHMA Framework



# Researchers

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# Any question?

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