

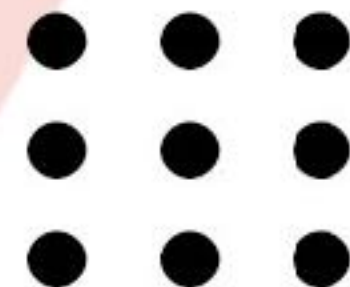
# **A Novel Device for Tracking Money Ownership**

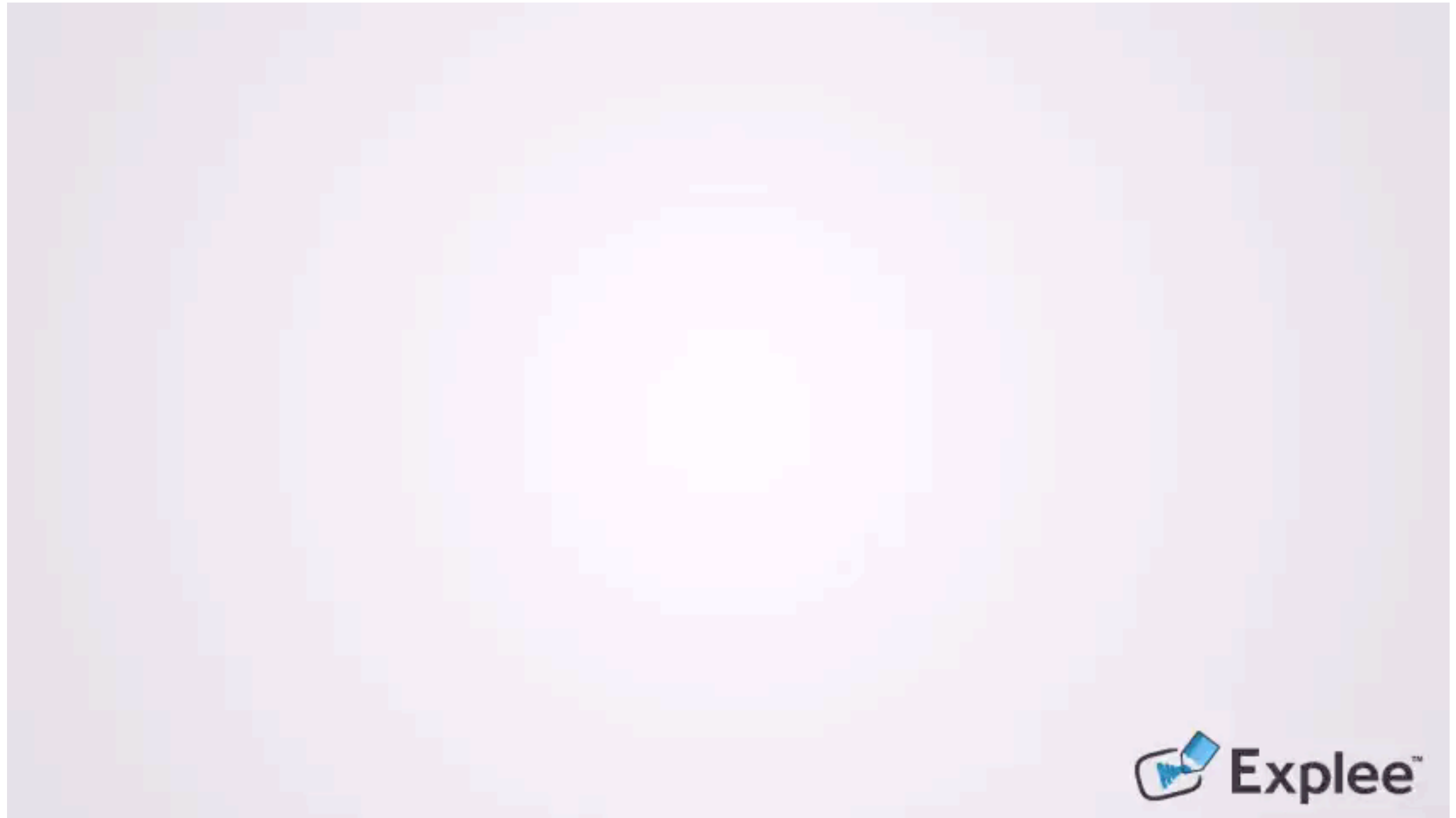
**By:**

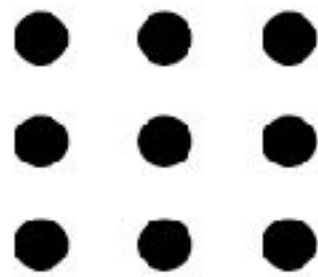
Andrew Albert  
Ahmed Elkoddosi  
Soha Elhadary  
Mahmoud Mostafa

**Supervised By:**

Dr. Ayman Ezzat  
Eng. Noha Elmasry







# 1) What can be unique about Money ?

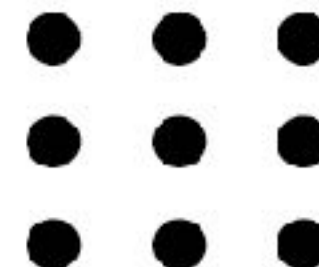
- Serial Number is the only distinguishable about banknotes.

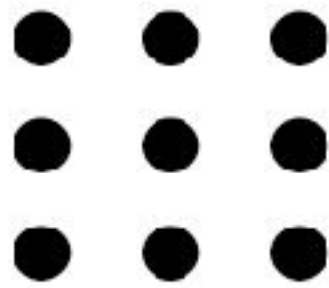


Extract Serial Numbers

BK15403837 A

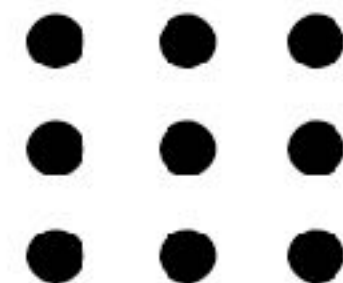
٩٧/٤ ٩٢٦١١٣٢

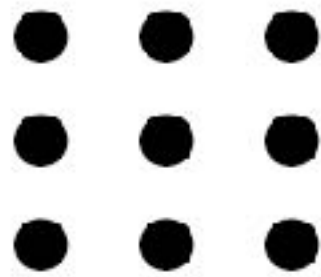




# Problem Definition

Giving ownership to banknotes and generating a heat map for observing money flow in order to assist money laundry problem.

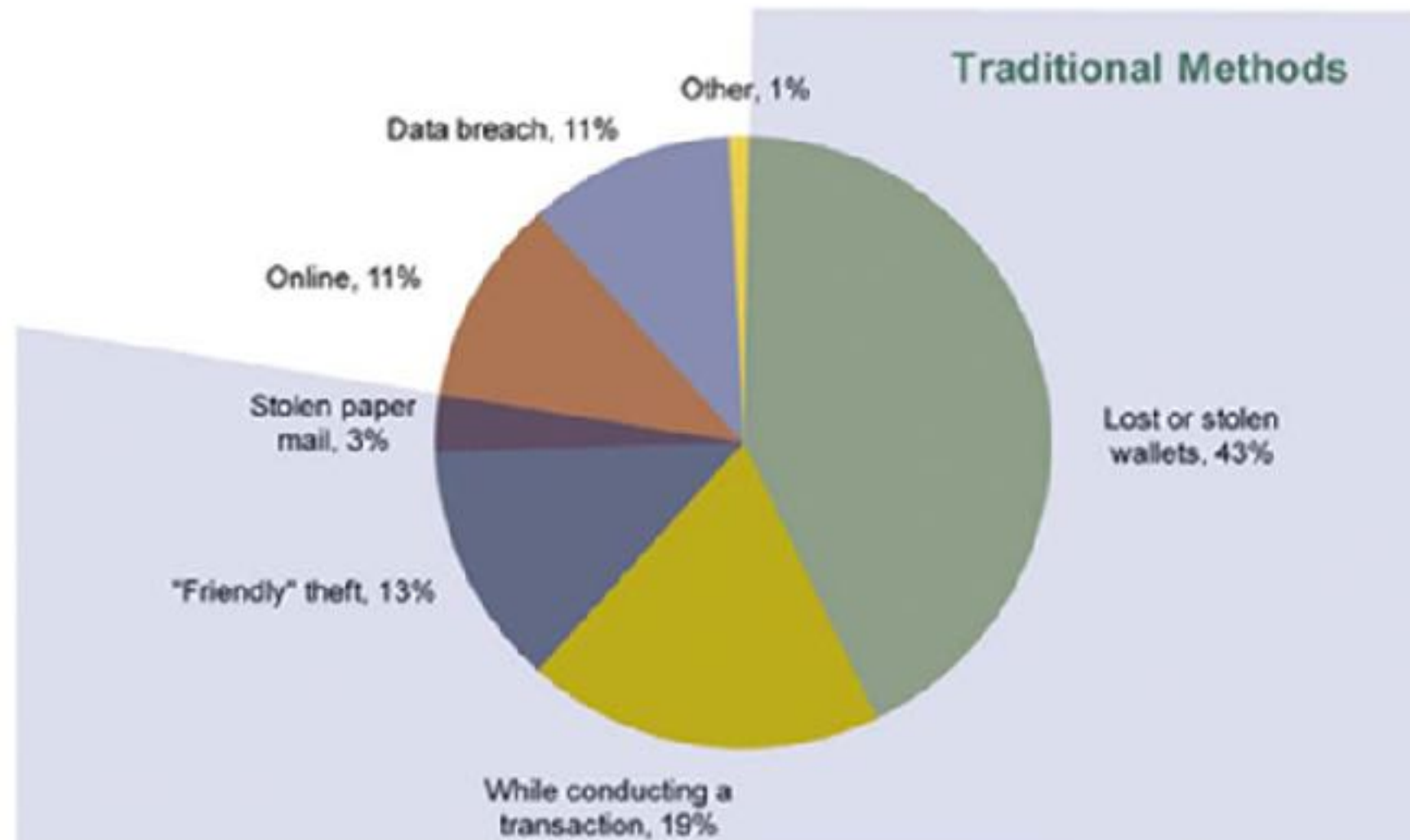




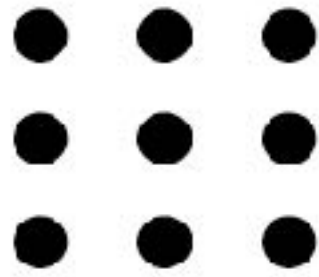
# Market Motivation

## Money Theft

Figure 2: What Are the Most Common Methods of Access?



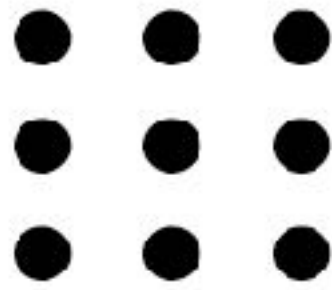




# Market Motivation

- 1) Government heading to money exchange through bank.
- 2) People will escape through out of bank exchange

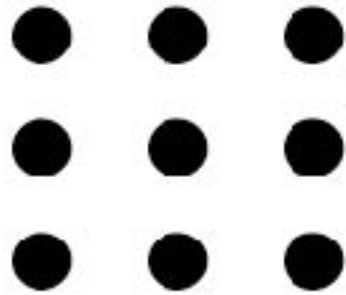




# Market Motivation

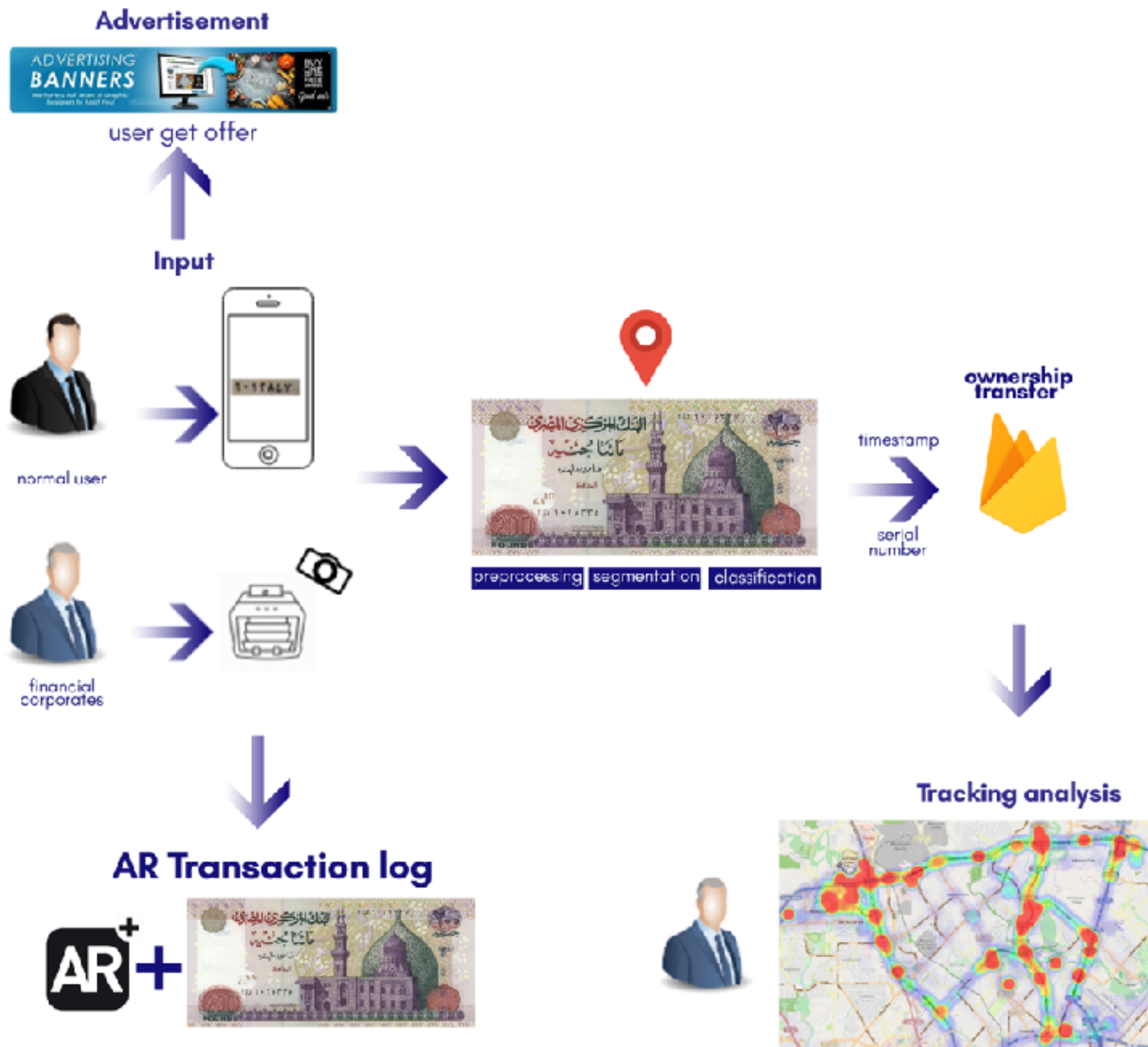
Can smartphone help solve this problem?

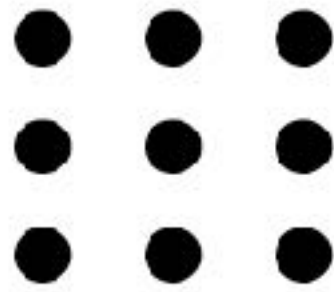




# System overview



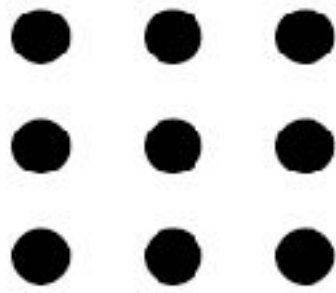




# System Details - hardware

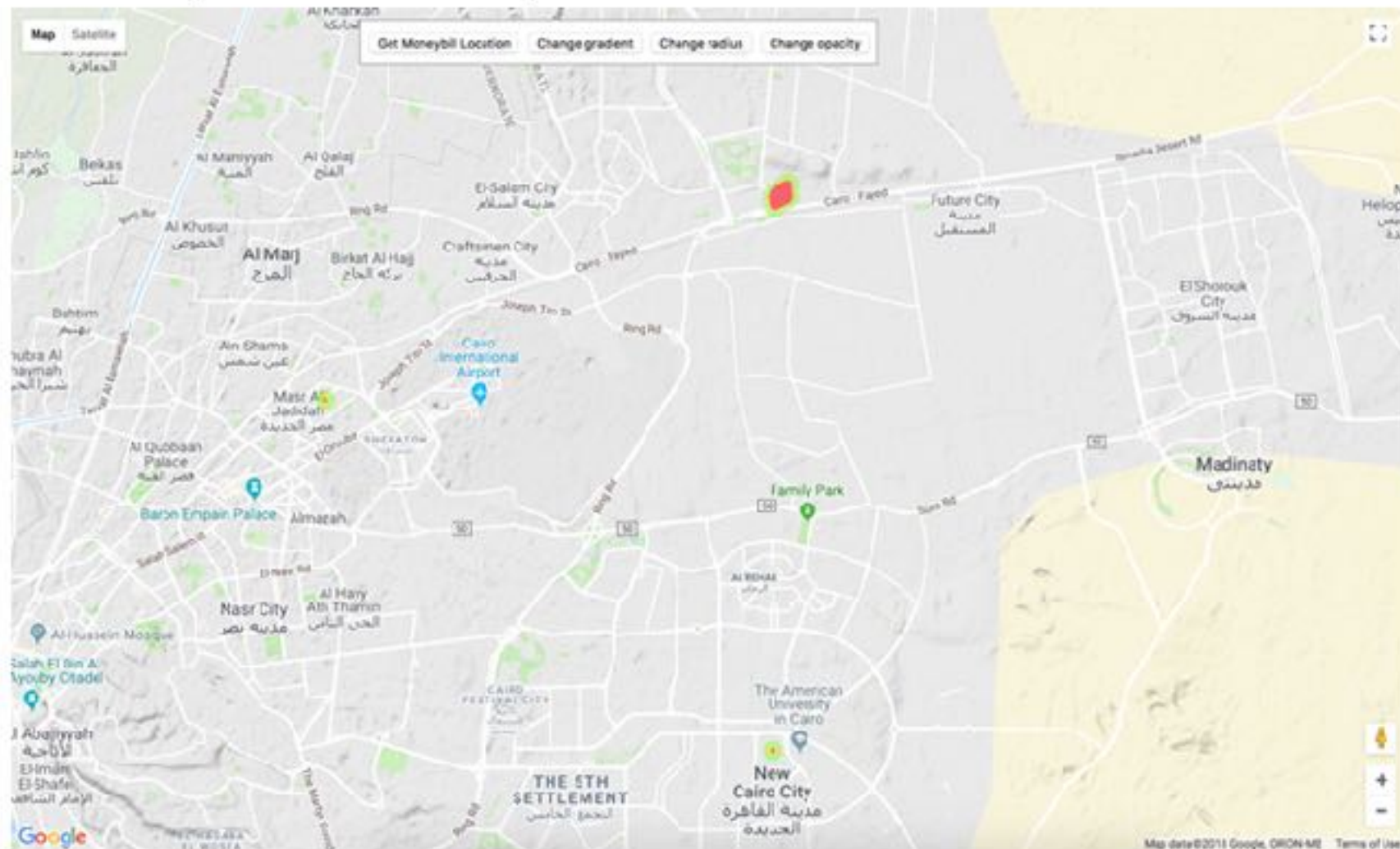
- 1) **Our Novel Device**
- 2) **Used by corporates**
- 3) **Fast way for extracting**



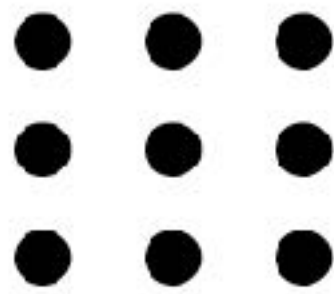


# System Details - HEAT-MAP

- 1) Provide a specific locations
- 2) Graphical Representation





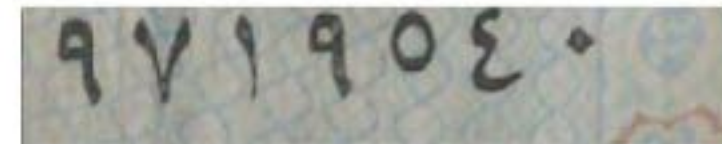


# System Details- Ads

1) This Ad banner will be provided to users so we can get Money from their clicks and provide offers to them.

Vodafone EO 7:21 PM 32%

[Back](#)



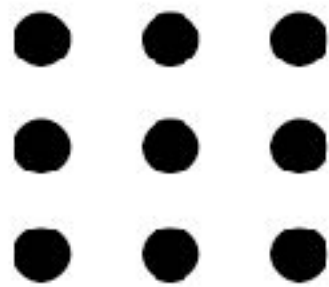
[Extract](#)

9719540

[View Locations](#)

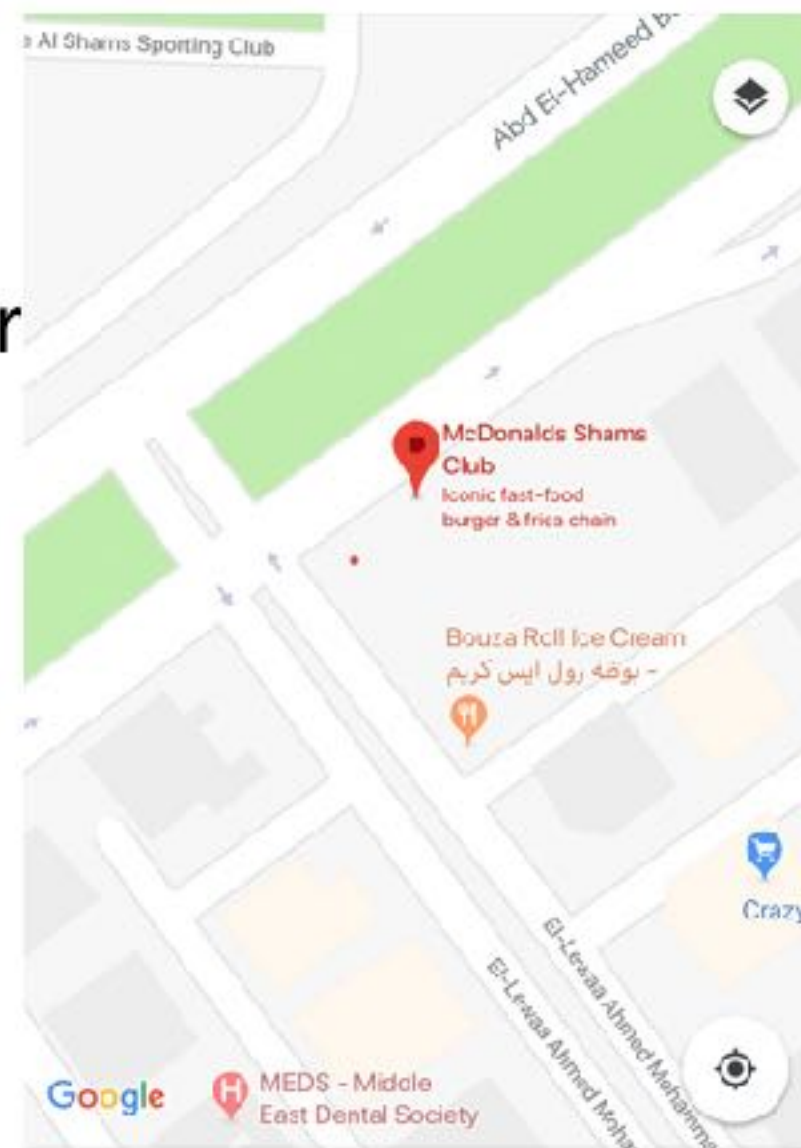
[Consume Offer](#)



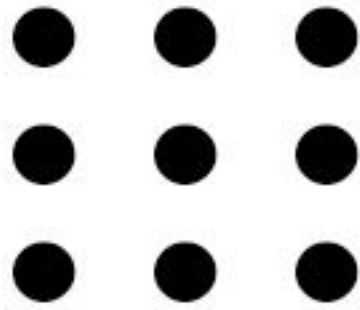


# System Details- Ads

1) This Ad banner will be provided to users so we can get Money from their clicks and provide offers to them.

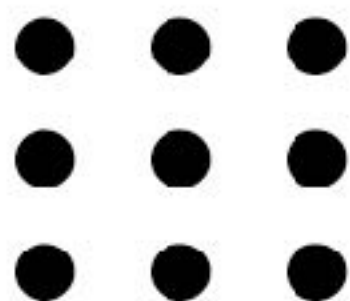






# Demo

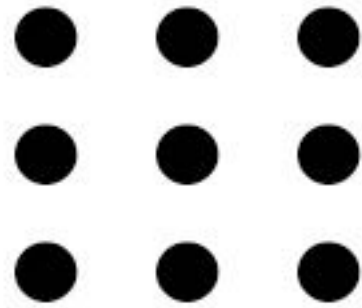




# User Feedback

	Satisfaction	Time consuming	Offer Idea	Use it again?
User 1	5	5	5	5
User 2	5	5	5	5
User 3	5	5	5	5
User 4	4	4	5	5
User 5	5	5	5	5
User 6	5	5	5	5
User 7	4	3	5	3

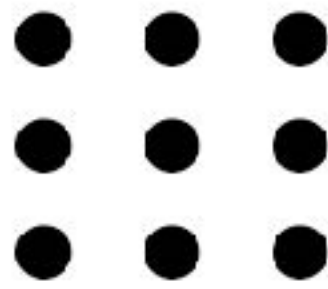
User Feedback



# Professionals Feedback

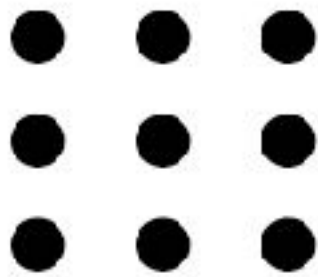


**Mohamed Eltaweel**  
**Head of the safe in EBE bank**



# Technologies

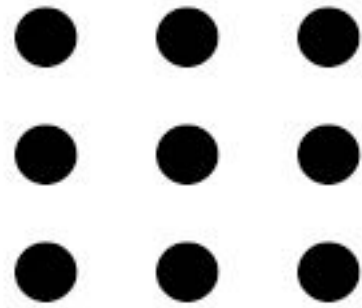




# Achievements

- 1) **Submitted a research paper in journal  
(Submitted and under review)**
- 2) **An initial deal with sushi bike**





**ANY QUESTIONS?**