

# **App Platform Model**

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# Overview and motivation

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- Comprehensive characterization
- Monopoly platform (e.g., app store)
- Connecting between users and app developers
- Vertical differentiation between monopoly apps
- Consumers differ in WTP for quality
- Study implications for regulatory interventions

# Below-cost fees

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- Welfare-maximizing fees:
  - Below cost
- Worse than monopoly distortion:
  - Positive externalities of platform
    - Enables network effects for developers and consumers
- In reality: substantial fees
  - Probably above cost
- What can be done?

# Competition in device market?

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- Paper assumes platform monopoly
- In reality: Android vs. Apple
- But:
  - Switching costs
  - In-app activity negligible
  - Consistent with Commission in Apple Music Streaming

# Competition in device market?

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- Alternatively:
    - Could embrace the question:
      - How level of switching costs affects results
        - E.g., effect of commission cap:
          - Currently, increases device fee
            - Can device competition constrain this?
  - Competition btw Apple and Android:
    - One charges fees for phone
    - The other charges nothing
      - Third party sets fee
- Can contribute to the Apple/EC debate

# Competition in device market?

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- Practices raising switching costs
  - (see e.g., DOJ complaint 2024)
  - The model abstracts from this

# Hybrid platform with foreclosure

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- Paper assumes each app is monopoly
  - With hybrid platform:
    - A similar independent app excluded
- What if independent app remains and competes?
  - (e.g., Apple music vs Spotify)
- Developer assumed to have zero marginal costs
- But with music streaming, pays royalties
  - Commission passed on
  - Foreclosure via the commission (See their RAND paper, pure oligopoly?)
    - Indeed Apple Music increased fees

# Hybrid platform price floor

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- Paper shows consumers better off:
  - If platform charges higher in-app price
    - Justify a price floor?



# Homogeneous consumers benchmark

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- In Price cap/hybrid sections
- Reduction in commission/in app fees
  - Can harm consumers
  - Enables higher device fee
    - Exploits infra-marginal consumers
      - High willingness to pay
- Would this happen with homogeneous consumers?
  - Homogeneous consumers benchmark useful
    - Not only for alternative payment system

# Endogenize which app to exclude in hybrid?

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- Paper assumes platform excludes infra marginal apps
- If it decides which apps it wants to exclude?
  - Results imply it may want to exclude an inframarginal app

# Cap on device fee

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- Paper implies cap on device fee affects commission
- But Android charges no device fee
  - (third parties charge the fee)
    - And charges commission similar to Apple

# RPM by platform?

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- What if platform dictates developers' prices?
- Developers' pricing affects platform's profits
- Price could be too high for developer:
  - It disregards effect on participation
- Maybe price could be too low?
  - "Popcorn effect" – other profits on app for developer?

# Combining a “Google like” case

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- Google charges zero, but 3d party sets device fee
- Combined with other extensions?
  - E.g., hybrid: Google-Android story
  - Cap on commission?

**Thank you!**

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