

# Preventative Approaches to DNS Abuse Mitigation

DNS Abuse Institute

# Preventative vs. Reactive

- Reactive: Ry/Rr receives report of abuse, investigates, mitigates
- Preventative: Detecting *potentially* malicious domains before registration or resolution
- Trade off in costs and business impacts

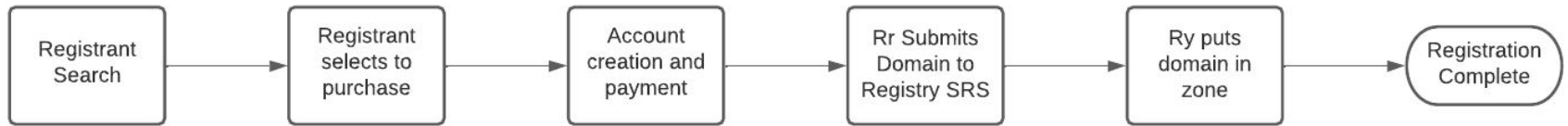
# Detection at what level?

- Ry: Can apply detection across an entire zone, limited information, requires Rr intermediary
- Rr: More information, customer relationship, variety of implementations

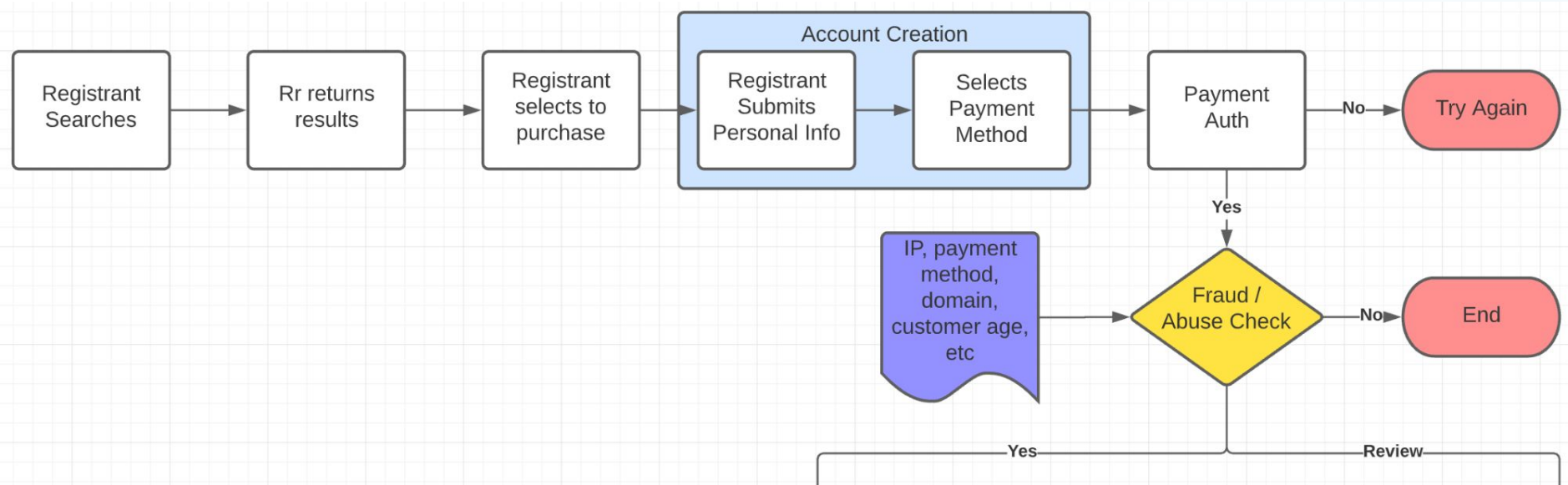
# Incentives are Key

- Preventive methods require friction in the registration process
- Requires scarce & expensive engineering resources
- Need to demonstrate:
  - Lowers costs
  - Little/no impact on revenue

# Domain Registration Process

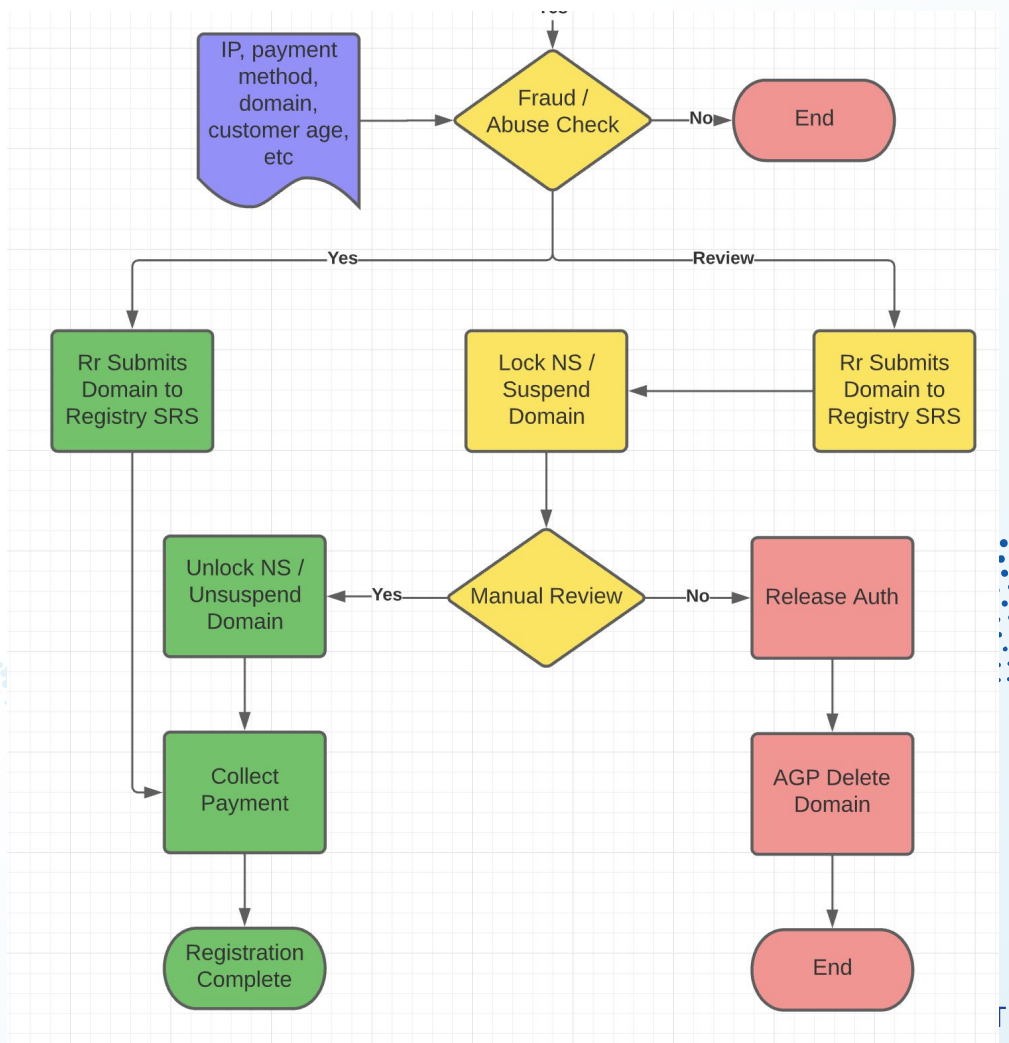


# Part 1: Leveraging Fraud Detection



# Optimal Flow

- Leverage and optimise existing fraud tools
- Limit harms by suspending review queue



# To Do

- Identify the most important transactional attributes
- Identify most common payment processors
- Tune weights
- Globalize learnings
- Share results



# Questions?

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