# Digital Sandbox Pilot

The UK Financial Conduct Authority Digital Sandbox (and somewhere in the mix the importance of Data in a Sandbox)

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### The Original FCA Sandbox

- The FCA provides a Regulatory Sandbox which allows the testing of new services in real life situations
  - Banks could interact more easily with Fintechs
  - Fintechs could operate without gaining full regulatory cover whilst still abiding by the rules
  - Regulatory oversight was able to assess new services
- This encouraged the implementation of new services but did not improve overall interoperability of these services
- Tech Sprints were introduced, but they were primarily UK Centric and not scalable
- GDPR increased the challenge for the proposed Virtual Sandboxes
- The regulatory sandbox started the trend we expect the new digital sandbox approach to do the same



# FCA sandbox \(\loring\) Mojaloop - Why?

- In the FRM delivery we hit a big challenge.
  - We need a lot of unique data to actually test the platform
  - We dubbed it the search for Atlantis as we needed to create realistic:
    - Geography
      - Streets
      - Towns
      - Countries
    - People
      - Individuals / Families
    - Entities
    - Social networks
    - Device Profiles
    - Transactions





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 Fortunately that task was also being addressed by





City of London

And a bit more



# The FCA Digital Sandbox

- Providing a structure for collaboration
  - to build a community mentors, participants, regulators
  - to address a common problem
- Giving a testbed for new services with access to other services APIs
- A very large shared data set for everyone to work with



### Innovation through collaboration at scale

- Big industry problems are difficult to solve
- Community enables the collaboration required from all stakeholders to uncover these solutions
- Not just an API a place to connect stakeholders and facilitate collaboration

#### Pillars of success:

- Marketplace of services enables discovery, access, and commercialisation of solutions (or free)
- 2. Community supports the development of fitfor-purpose solutions
- 3. Data enables solutions to target the right problem (synthetic or real)

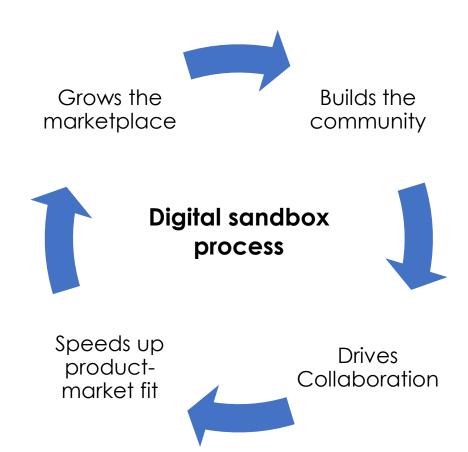


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- Exponential value exchange delivered as network grows
- Tech-Agnostic to changing business needs and services
- Global knowledge mentors and experts facilitate solution development



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#### Marketplace benefits

- Build off the knowledge of others platform – don't start from scratch (DRY)
- Connect once international compatibility
- Discover and access best in breed solutions

















Between Nov '20 and Feb '21 (ongoing), the UK financial regulator and City of London Corporation ran a Digital Sandbox Pilot to encourage the rapid development of solutions in response to Covid-19

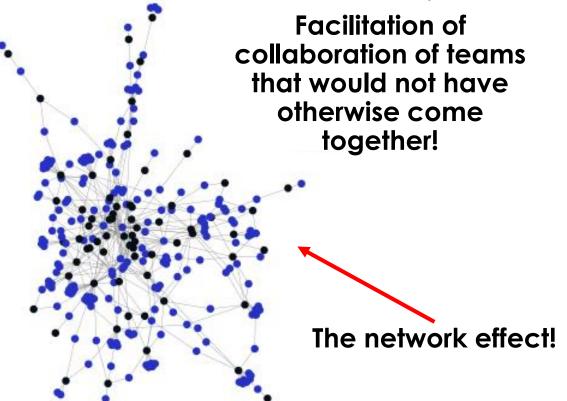








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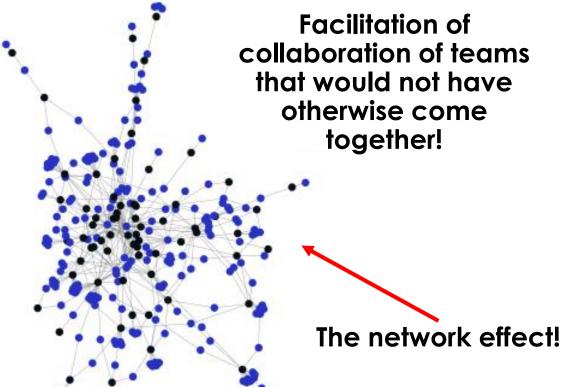








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**800+** global participants

12 synthetic datasets

**600+** data analysis sessions

**860k** unique data API calls

28
different countries

400m+
synthetic banking transact



### Our challenge – a lot of data



We need to hide our Needle in a LOT of hay



## Our challenge – a lot of data

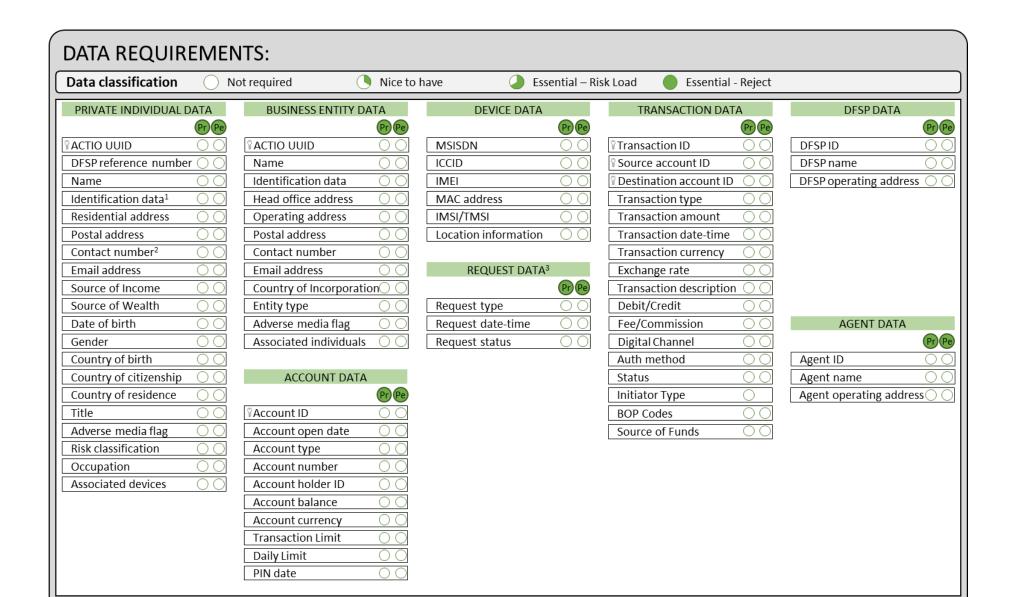


We need to hide our Needle in a LOT of hay

- Fraud and Typology Management see duplicate transactions as either:
  - A common pattern to be ignored
  - A suspicious pattern to be highlighted
- You run out of unique data very quickly at 10K TPS
  - 600K Transactions per minute
  - 36M Transactions per hour
  - 864M Transactions per day



# Our challenge – data types





### The benefit from the FCA sandbox

- We went in wanting data
  - 400M unique user transactions
  - 7M unique users
  - 600K unique businesses
- Adding data for our needs
  - Mobile / Web based transaction information
  - Password resets
  - Driving Licences / Passports
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# A lot more than just a technical integration



# Thank you

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