



# Reimagining Identities with Distributed Ledger Technology

18th March, 2021,

# Gowthaman (G'man) Ragothaman

- Global client lead at WPP before leaving to launch a marketing technology startup.
- A keen observer of technology and its implication in marketing, believes in the power of distributed ledger technology and what it can bring to marketing.
- His company, Aqilliz helps brands and platforms operate in a safe, secure and compliant marketplace where they can perform a fair value exchange with their consumers.



# Speakers



**Shivendra Misra**  
Director APAC  
IAB Tech Lab



**Shailley Singh**  
SVP, Product & Global Programs  
IAB Tech Lab



**Jonas Jaanimagi**  
Tech Lead  
IAB Australia

## **Introduction to Tech Lab and Standards Portfolio**

## **Reimagining Identities with Distributed Ledger Technology**

## **Q&A**



# Our Mission

Share the cost,  
share the benefits

Member-driven,  
member-developed

Engage a global member **community** to **develop**  
**foundational** technology and standards that enable  
growth and **trust** in the digital media ecosystem.

Broad availability  
& utility, by design

We live this – as a neutral, transparent,  
open-source, non-profit org

# You may already know our work

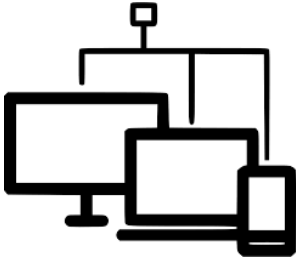


# Why we need technical standards

To help advance and grow the digital media ecosystem by:



Reducing product development efforts & costs



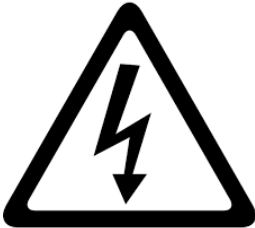
Improving interoperability & quality



Increasing speed to market



Fueling market innovation



Mitigating risks



As with other essential technologies, Tech Lab standards are indispensable for the growth and health of the digital media ecosystem

# Tech Lab Standards & Services: Interoperability, Efficiency, Innovation

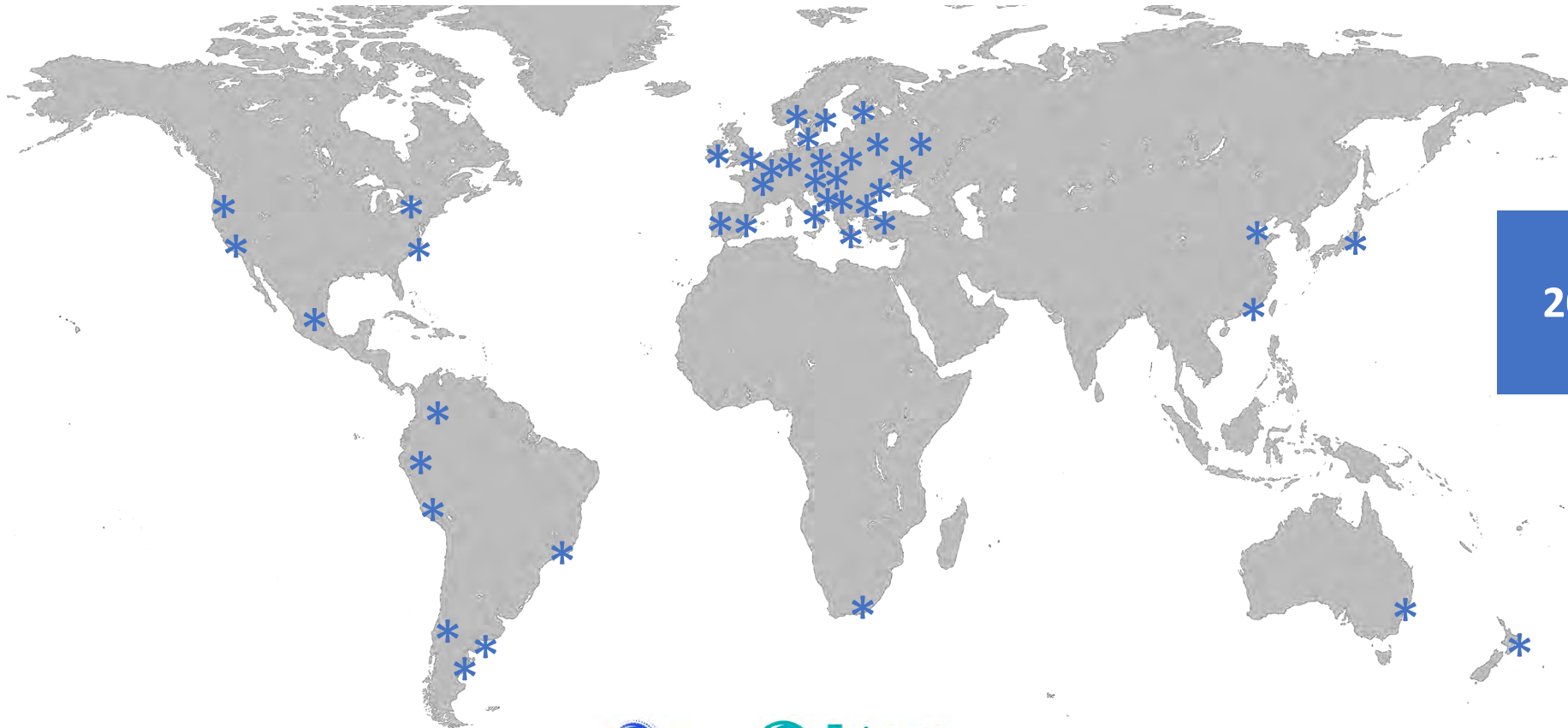
1 IDENTITY, DATA, & PRIVACY	2 BRAND SAFETY & AD FRAUD	3 AD EXPERIENCES & MEASUREMENT	4 PROGRAMMATIC EFFECTIVENESS
Project Rearc (rearchitecting post-cookie/ID)	Content Taxonomy (contextual categories/channels)	VAST (video ad delivery spec)	OpenRTB (programmatic real-time protocol)
Data Label ("nutrition label" for data)	Ad Product Taxonomy (product categories)	SIMID (video ad interactivity spec)	OpenDirect (programmatic guaranteed spec)
Audience Taxonomy (data segment categories)	ads.txt / app-ads.txt (anti-fraud specs)	MRAID (mobile in-app rich media ads API)	CATS (ad request spec for direct buys)
Transparency & Consent Framework (IAB Europe)	ads.txt Aggregator (transparency insights)	New Ad Portfolio (ad weight, size, experience specs)	Ad Management API (creative approval API)
CCPA & Other Privacy Frameworks	sellers.json (anti-fraud, transparency spec)	SafeFrames (secure ad "container")	CTV/OTT Guidance (IFA, User Agent, app store ID)
	SupplyChain object (transparency spec)	Open Measurement (unified SDK for viewability & more)	Spiders & Bots (traffic detection & filtering list)
	ads.cert (security, anti-fraud spec)	Podcast Measurement Technical Guidelines	Blockchain education



# Tech Lab 2021 Product Priorities

PRIORITY	SUPPORTING STANDARDS
1. Define/Inform multiple solutions to privacy-centric <b>addressability</b> (without cookies/IDs)	<ul style="list-style-type: none"><li>a) (NEW) Rearc: Addressability/Privacy standards &amp; compliance for contextual, demo/behavioral, authentication</li><li>b) Browser/OS &amp; industry engagement &amp; education</li><li>c) DigiTrust service/maintenance</li></ul>
2. Provide <b>technical standards for privacy</b> , to support compliance with local laws	<ul style="list-style-type: none"><li>a) TCF &amp; CCPA framework</li><li>b) (NEW) Global Privacy Framework</li></ul>
3. Promote <b>supply chain transparency</b> for brand safety, fraud, & data decisions	<ul style="list-style-type: none"><li>a) Sellers to buyers: ads/app-ads.txt (incl. CTV), sellers.json, SupplyChain object</li><li>b) ads.txt Aggregator enhancement &amp; (NEW) validation</li><li>c) (NEW) Buyers to sellers: buyers.json, Ad Mgmt API, adv IDs?</li><li>d) Taxonomy &amp; OM SDK enhancements for brand safety</li><li>e) Data Transparency/Label</li></ul>
4. Improve <b>measurement &amp; attribution accuracy &amp; consistency</b> (reacting to #1-3 & motivating those efforts)	<ul style="list-style-type: none"><li>a) (NEW) Measurement vision &amp; roadmap</li><li>b) OM SDKs/OMID – accelerate CTV?</li><li>c) VAST 4.2 / SIMID / OM (incl. CATS &amp; AdCOM)</li><li>d) Podcast Measurement incl. enhancements if needed</li></ul>

# Global Board + Local IABs + Member Companies



750+ companies  
20+ working groups  
2,500+ people

\* Local/regional IABs supporting Tech Lab

Board of Directors



# How Tech Lab works with IAB globally



## Market Development (supporting sales/marketing)

- Education & certification
- Research
- Policy
- Guidelines & business standards
- Events & networking

## PROPRIETARY INNOVATION



- Packaging & pricing
- Competition
- Product/Service development
- Operational Innovation



## Technical Standards (supporting product development)

- Standardized protocols & specifications
- Software & tools
- Compliance programs
- Supporting education & events

# TRUSTED ADTECH ECOSYSTEM

WORLD BEYOND COOKIES/IDENTIFIERS





# a defining moment for the ad industry

digital engagement systems will be removed of 3<sup>rd</sup> party **cookies**  
and availability of **identifiers** will be reduced by end of 2021

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- advertisers will not have a complete and accurate view of the consumers for insights, **segmentation** and **targeting**
- advertisers will not be able to perform any omnichannel **personalisation** of interactions and **attribution**



BigTech follows privacy preserving regulatory requirement, but with proprietary methodologies

# a double problem

brands will struggle to **discover** their consumers and **engage** with them online

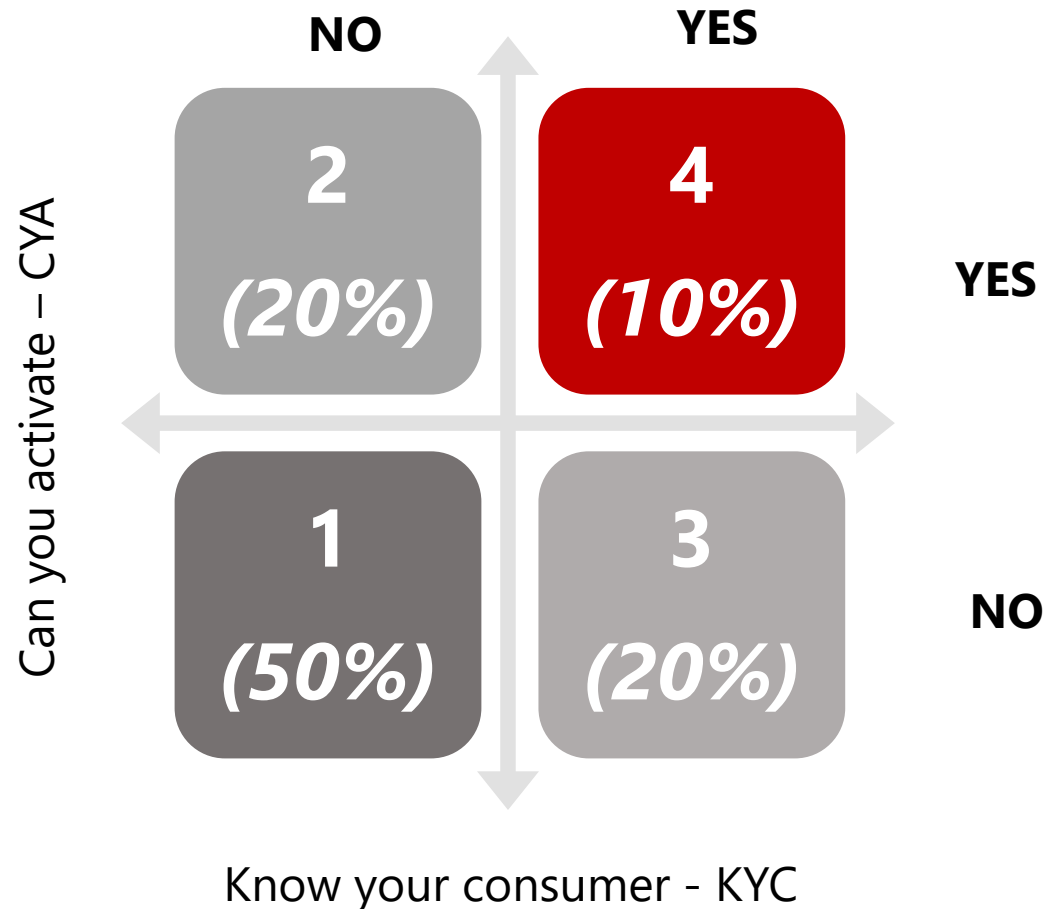
- regulatory protection towards **privacy preserving personalisation**; deprecation of 3P cookies and identifiers
- fragmented supply chain encouraging **opaque business practices**; increasing cost of reaching the target audience

## PRAM Governing members



industry launches **Partnership for Responsible and Addressable Media (PRAM)**; revisits digital supply chain audit

# 4 potential routes emerging now



- Q1 - **Aggregate level activation** controlled by platforms like Google's *Federated Learning of Cohorts (FLoC)*
- Q2 - Bring your **insights to activate** on other platforms (walled gardens) with limited return path attribution
- Q3 - Bring your **data to activate** on other platforms (walled gardens) with slightly better return path attribution
- Q4 – The Holy Grail. Bring your server and activate on other platforms with **full visibility on attribution**

# what is the ask?



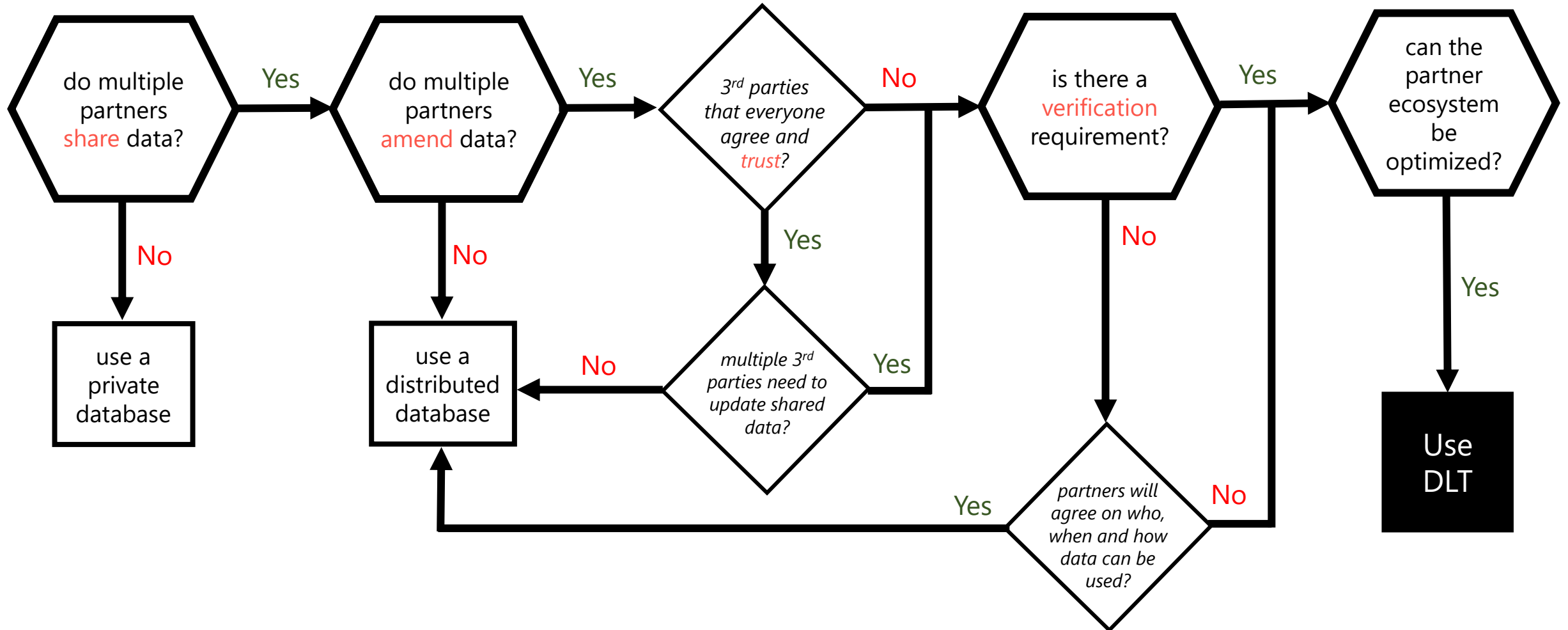
- responsible use of **consumer provided identifiers**, allowing third parties to execute on behalf of trusted first parties
- passing content, contextual and first party attributes that are consistent for both **cohorts and code development**



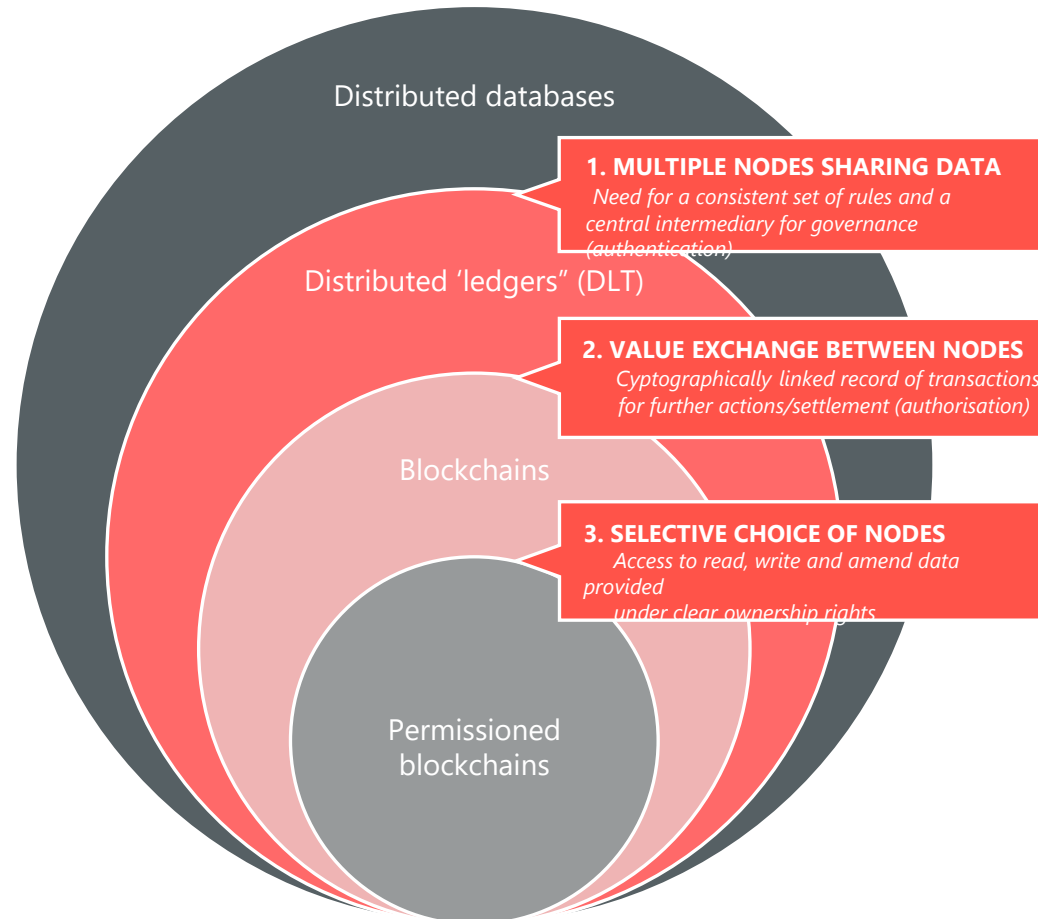
Standardised taxonomy and data transparency with consent and compliance mechanisms



# why distributed ledger



# identity management critical dependencies



- Encryption and salting
- Decentralised design
- Capture and convey consumer preferences across supply chain
- Transparency and consent portal
- Independent third party
- Non-biased
- Auditable
- Ability to detect fraud

# solution

a safe, secure and compliant **ecosystem** for  
consumer discovery and engagement

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- designed to remove barriers for shared learning and activation in a federated manner with **secure credentials**
- customised and bespoke **collaboration infrastructure** for activation of *identities*, *impressions* and related *attribution*



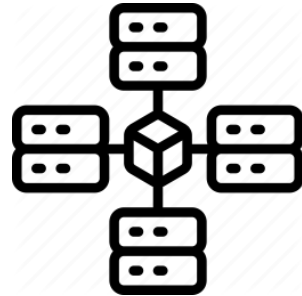
an enterprise installation  
that enables a trusted and  
transparent ecosystem

# patent pending technology



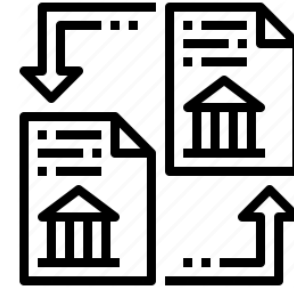
differential privacy

+



federated learning

+



distributed ledger

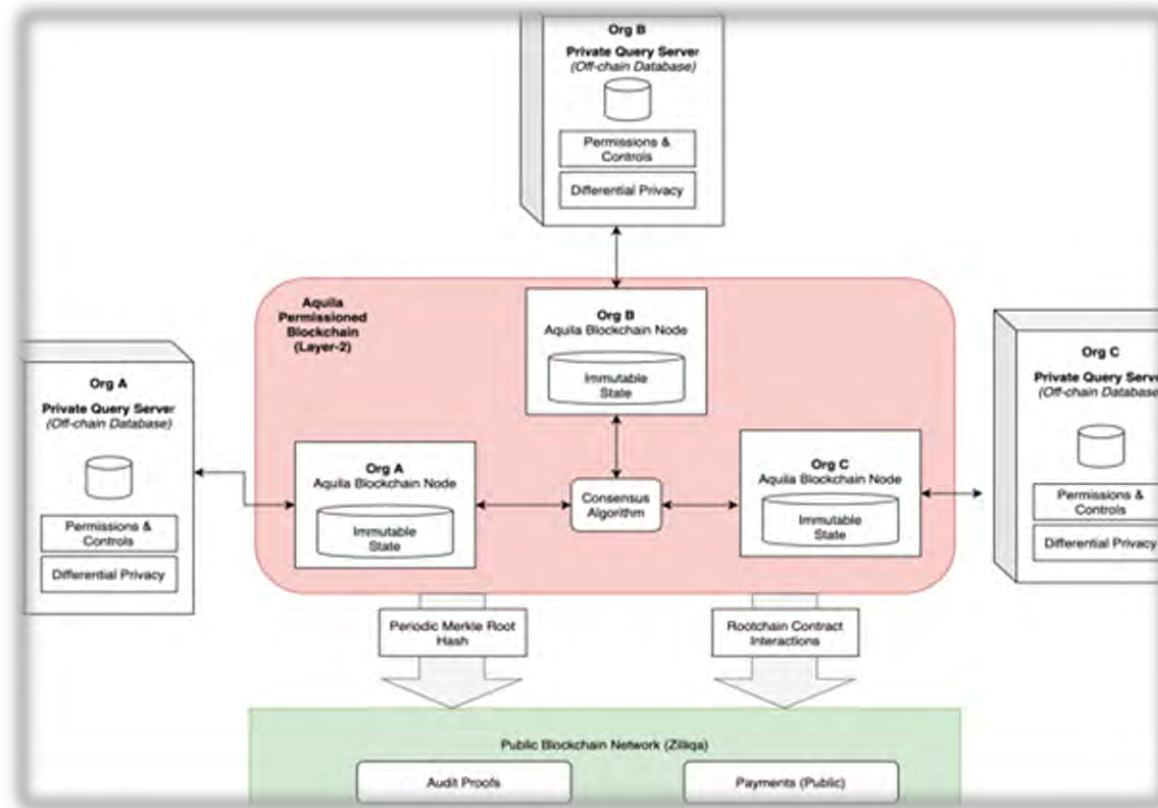
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- **privacy by design.** server to server shared learnings and insights between brands, platforms and consumers (with salting)
  - **trusted & transparent.** all stakeholders maintain a concurrent record of processing of all **activation** and **settlement**



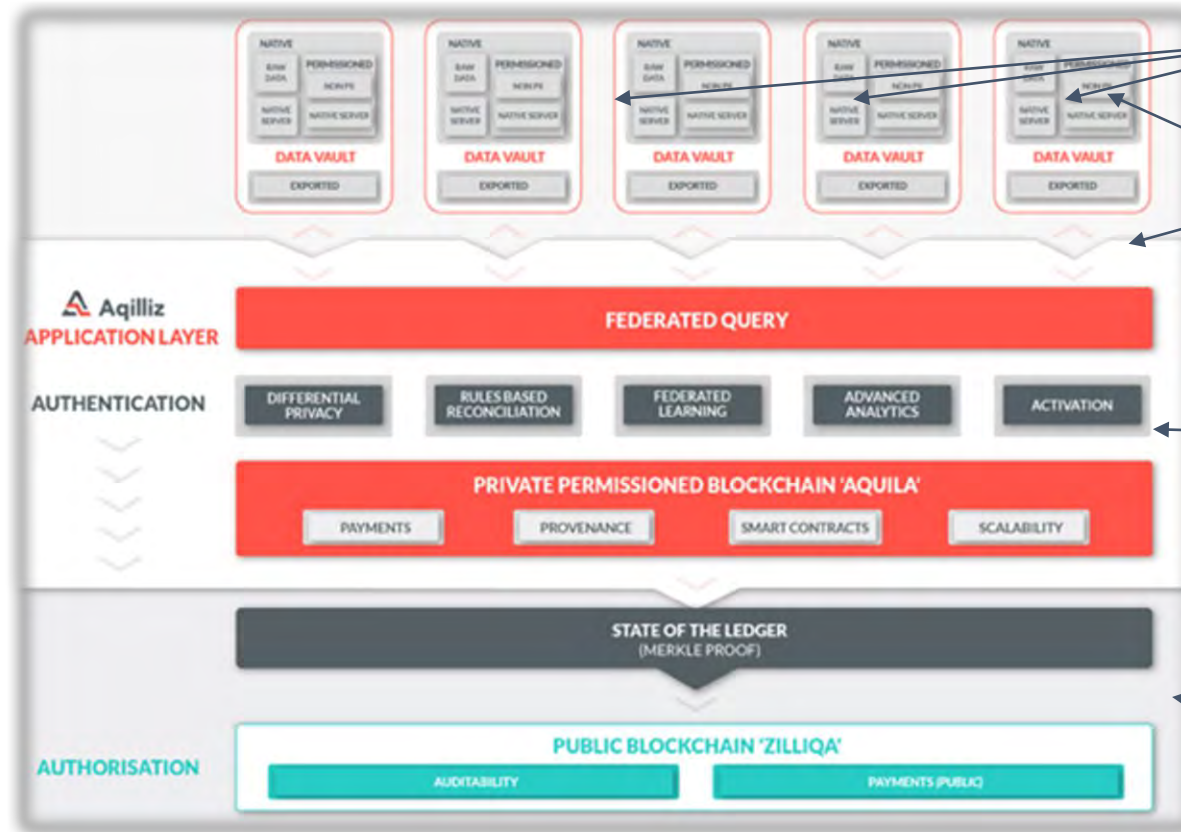
universal view of the single source of truth with an ability to perform advanced analytics



# decentralised database for analytics



# hybrid blockchain infrastructure



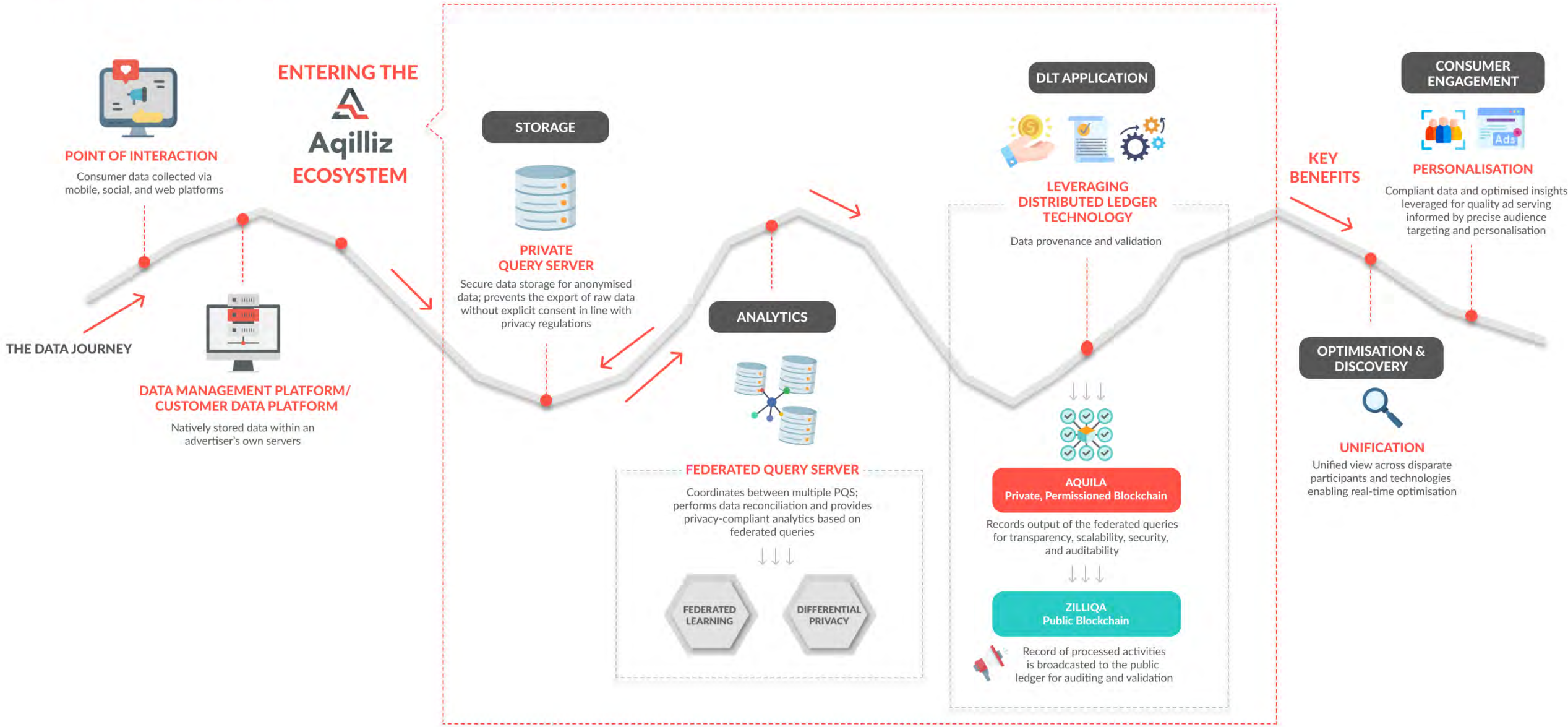
**Separate Data Vaults** ('Private Query Servers') for each data owner. PII anonymized

Data does not leave native location, can **only be queried** for measurement and activation

Private blockchain for **immutable record** of measurement and activation

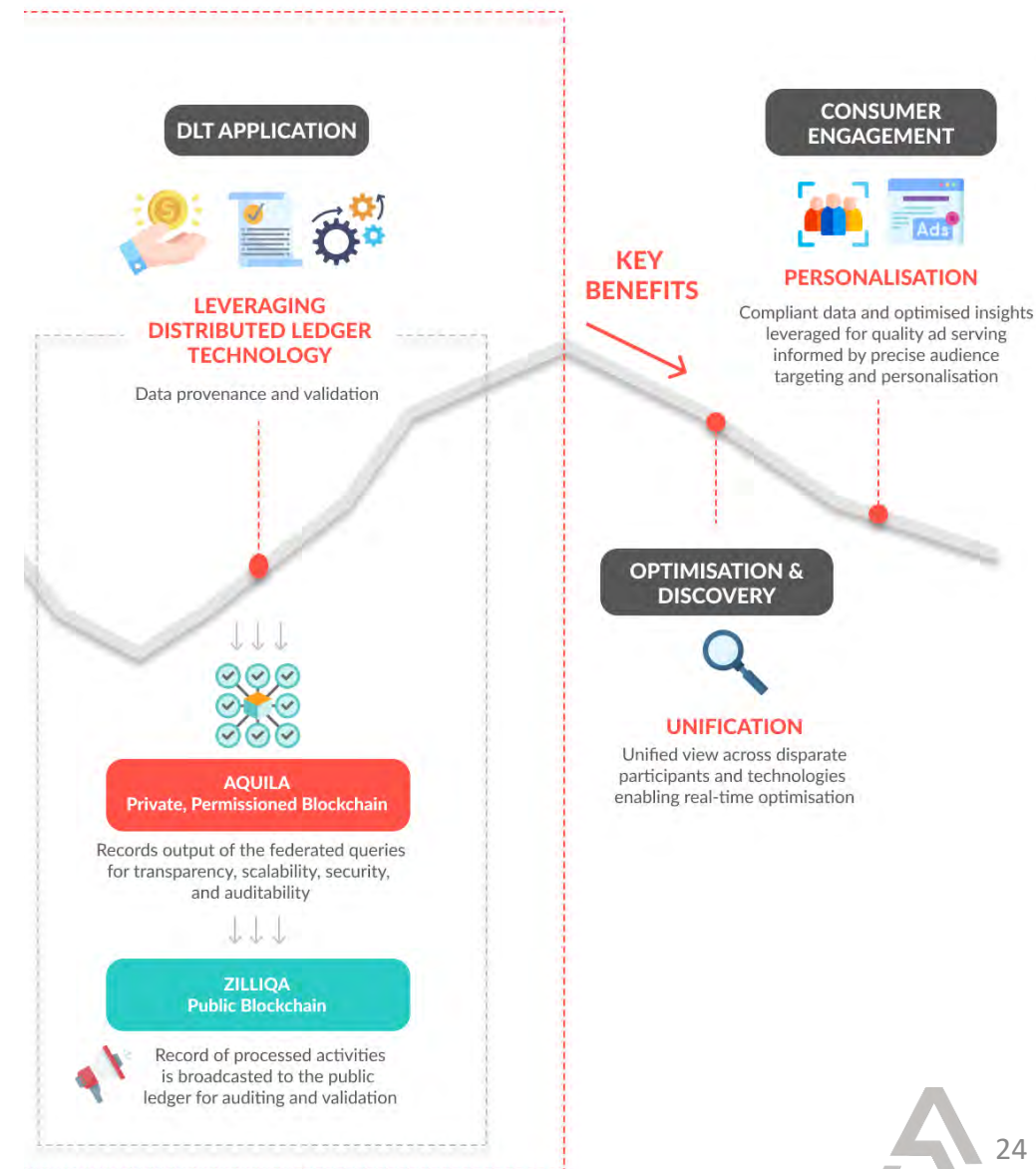
Public blockchain for **'state of ledger' record**; interoperable with other public blockchains as required

UNDERSTANDING THE AQILLIZ ECOSYSTEM  
**THE DATA JOURNEY**

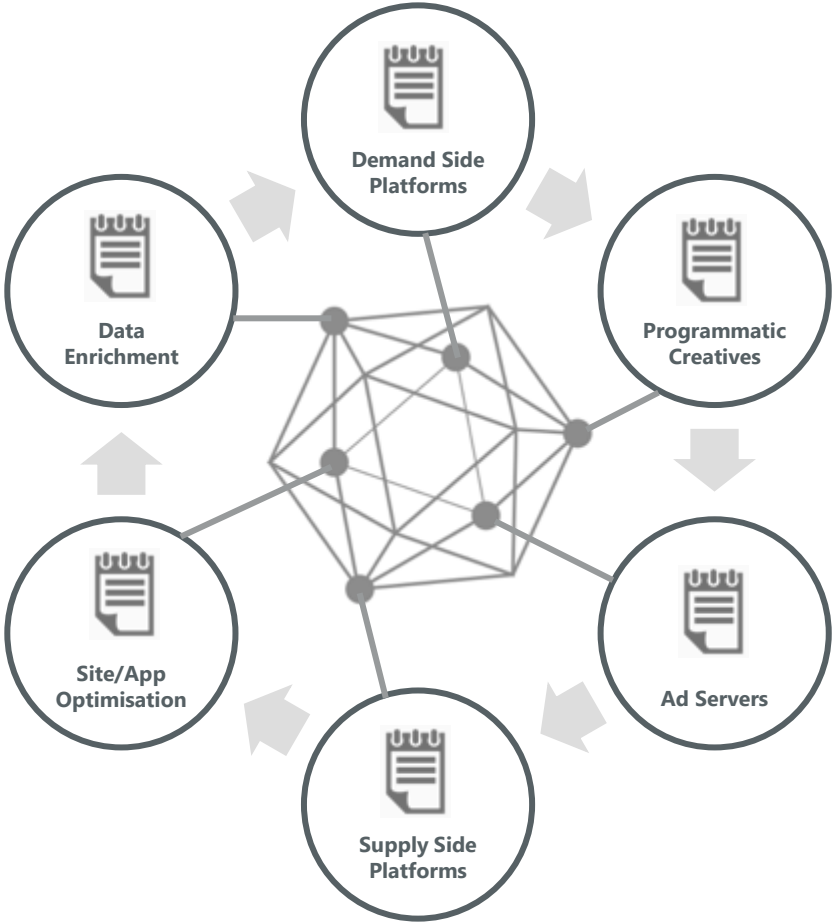
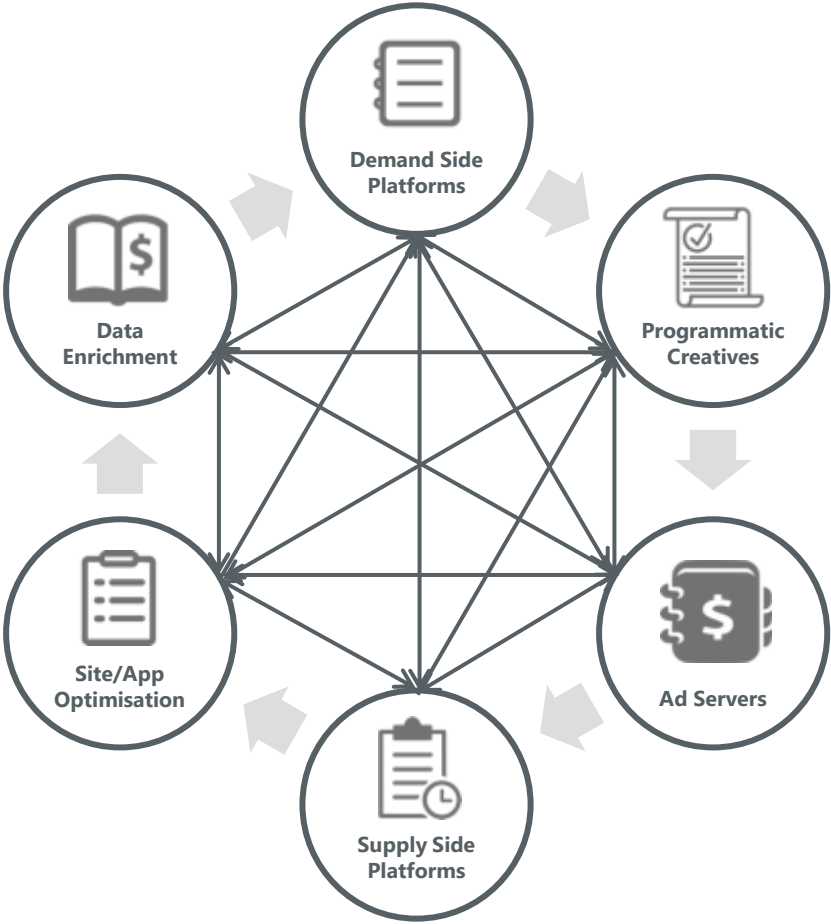


# privacy preserving personalisation

- ❑ Record of Processing of Activities (Article 30, GDPR) the critical requirement for compliance; justifies the emergence of more walled gardens
- ❑ When two entities enrich their first party customer data, both need to maintain the same record of enrichment in their consent platforms
- ❑ All technical data environments are currently built for internal resolution of identities; external activation at an aggregate level only leading to lack of trust



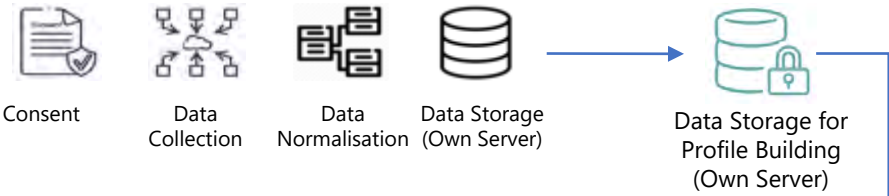
# enabling a trusted ad ecosystem







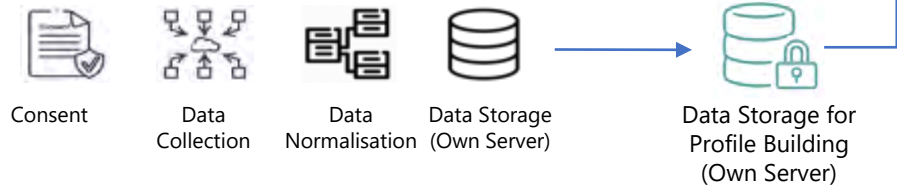
**Brand**



**Publisher 1**



**Publisher 2**



Federated Query



Differential Privacy



Deterministic ID solution for ad serving  
**BritePool**



Activate matched IDs through DSP



Campaign analytics



Data Provenance



# commercially viable business model

a **SaaS solution** deployed at the customer and unified with all the ecosystem participants

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- brands and/or participants pay a license for the software as **annual subscription fee** to operate in the trusted ecosystem
- provenance of impressions, identities and attribution offered as additional services for a **fee/shared from the gains**



friction free installation with invitation price incentivisation on infrastructure

# TRUSTED ADTECH ECOSYSTEM

WORLD BEYOND COOKIES/IDENTIFIERS



# Heads up! - Upcoming Webinar Engagements

More in the series, mark the dates, registration links to follow.

- **8<sup>th</sup> April – (with *Media.net*)** - Contextual Approach to Targeting Digital Advertising
- **22nd April - (with *The Trade Desk*)** - Universal IDs and Authenticated Consumers UID 2.0
- **6th May - (with *Google*)** - Privacy Sandbox & Building a Privacy-First Future for Web Advertising



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