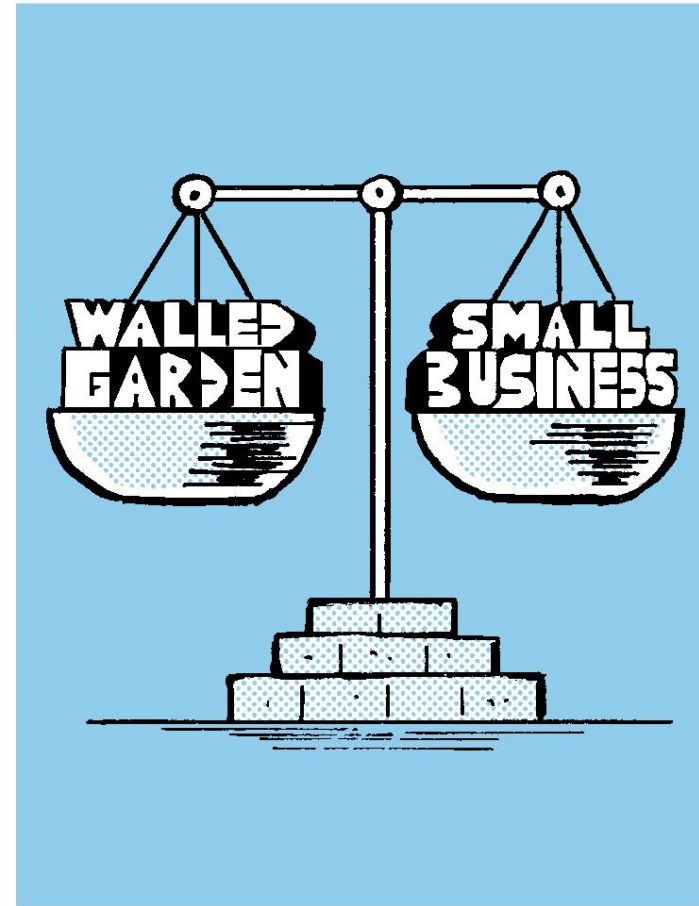
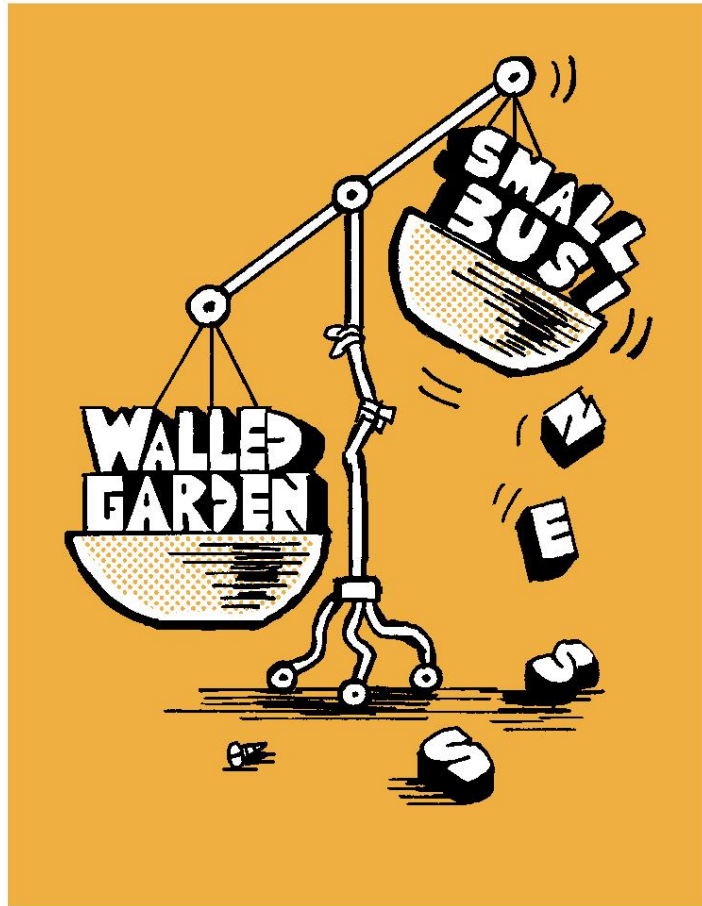


TODAY

SWAN



Agenda

- Concepts (15 mins)
- Demo (10 mins)
- Next steps (10 mins)
- Q&A

TODAY



SWAN



Just some of SWAN's contributors



Christian Cockcroft
Lawyer - Privacy, Antitrust
& Regulatory



Hardeep Bindra
Product Management



James Rosewell
Engineer &
Entrepreneur



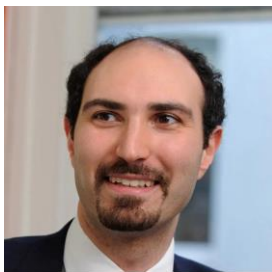
Joe Dix
Engineer



You



Joshua Koran
Programmatic
CTO



Sherif Malak
Lawyer -
Privacy



Tim Cowen
Lawyer – Antitrust
& Regulatory



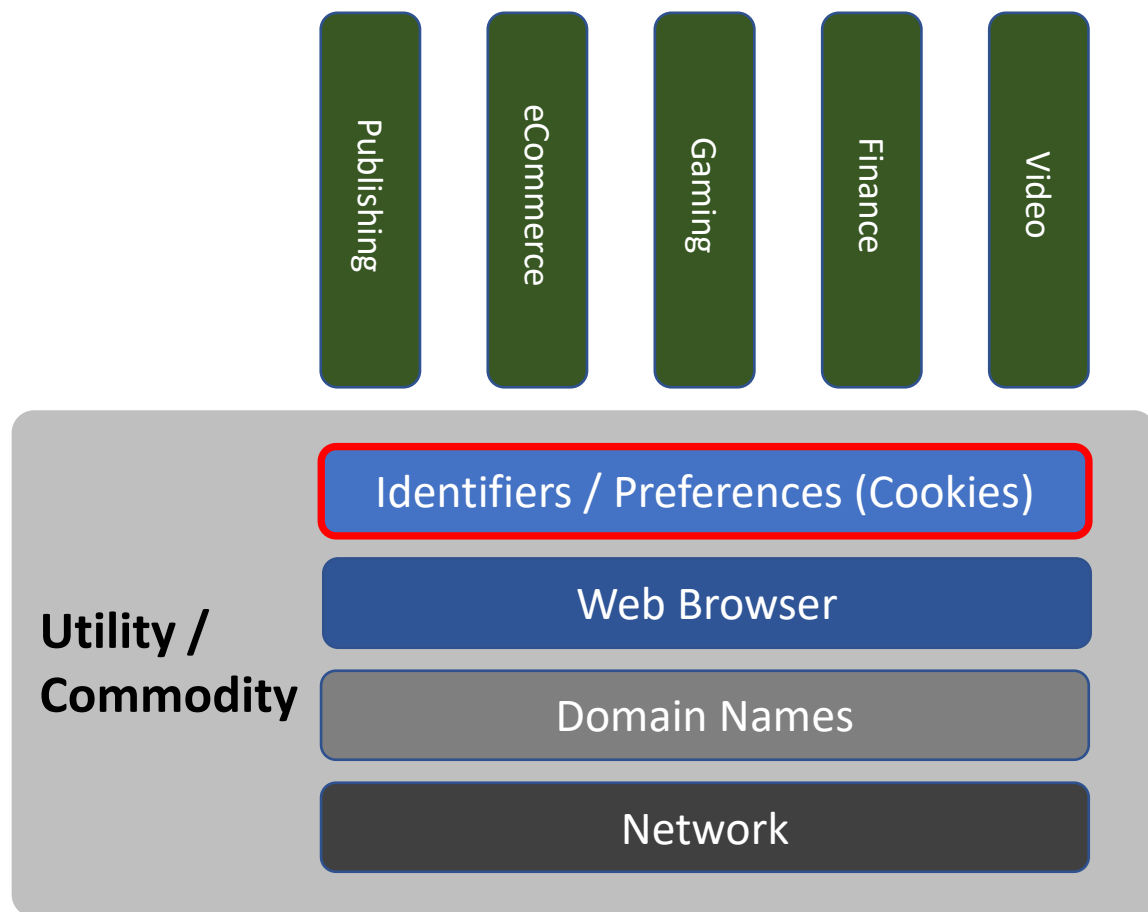
Tracy Barlow
Marketing



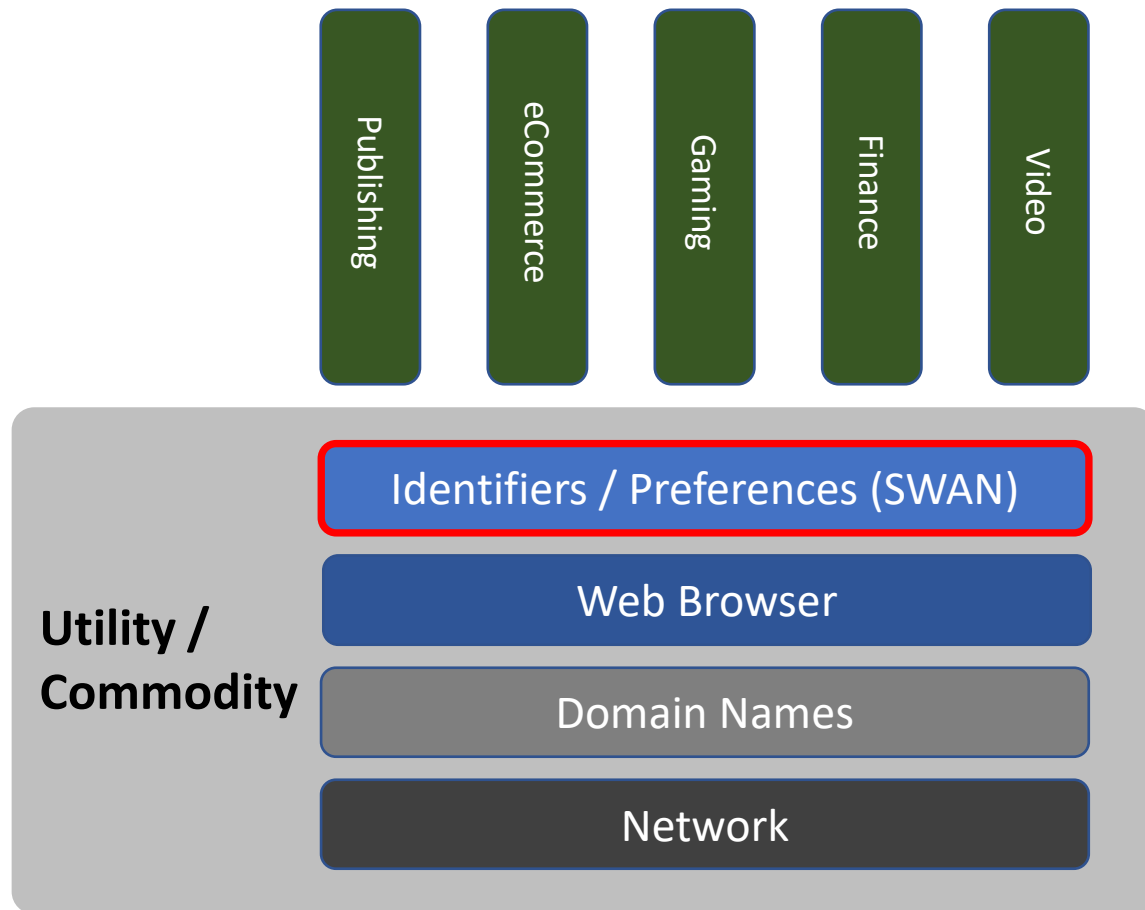
You



Identifiers / Preferences - Utility



Identifiers / Preferences - Utility



- SWAN is a utility – like domain names
- SWAN addresses access and transparency issues with cookies
- Recognises problem is not just about engineering, but law, economics, politics **and** engineering



Current situation

We all agree

- Improve respect for people's privacy when using digital services
- Build trust
- Comply with laws
- Detect & sanction bad actors

Proposed Solutions

- Web browser knows best
- Focus on centralized control, not utility
- Serious competition issues

Confusion, frustration and stress



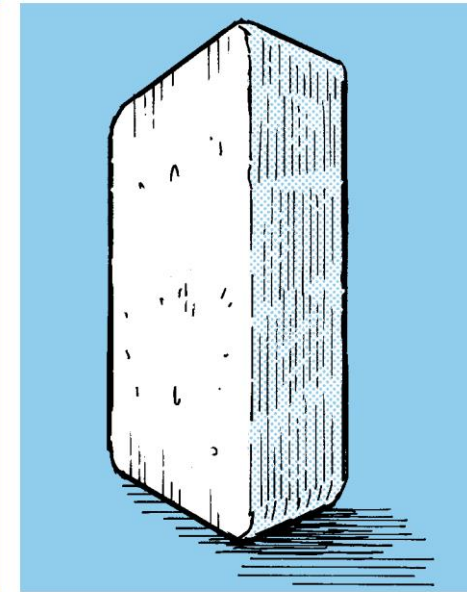
Bounded Rationality

is the idea that, individuals' decision making is limited by access to information, cognitive limitations of the mind and the time available to make the decision.

Accordingly, people often seek a *satisfactory rather than an optimal solution.*

TODAY

SWAN



Stop playing “Jenga”

Centralized

Signs of centralization:

- words like “web browser will...”
- single administrator
- single-domain.com
- register of participants

Leads to:

- How does my organization become the 'one'?
- What can we do if the 'one' abuses its power?
- How will this impact publishers, if the 'one' begins charging a 'tax' for continued access?

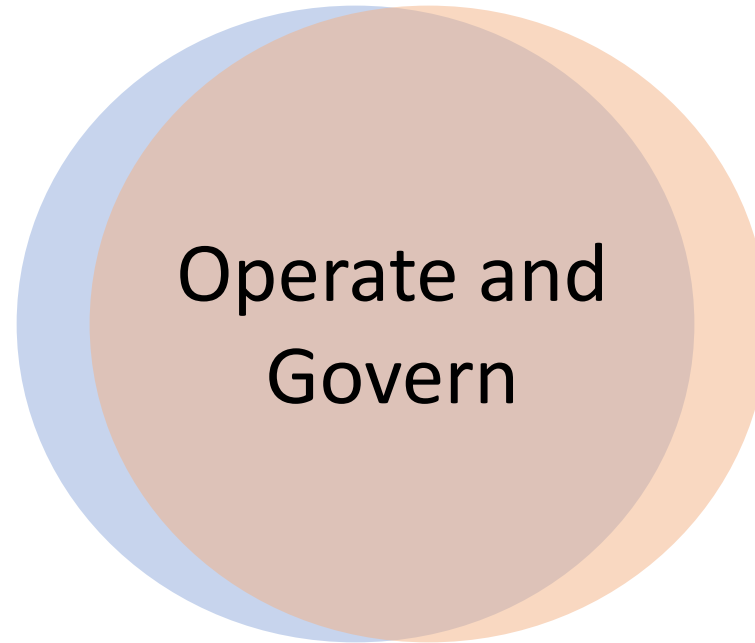


TODAY

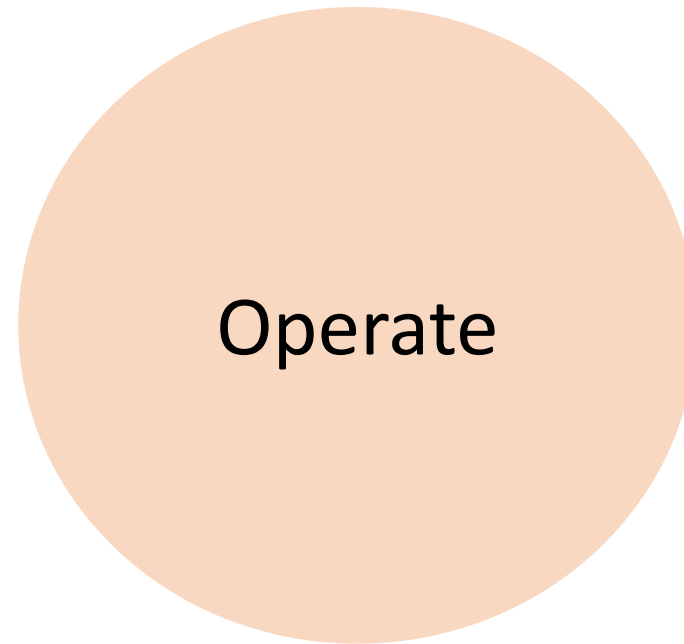
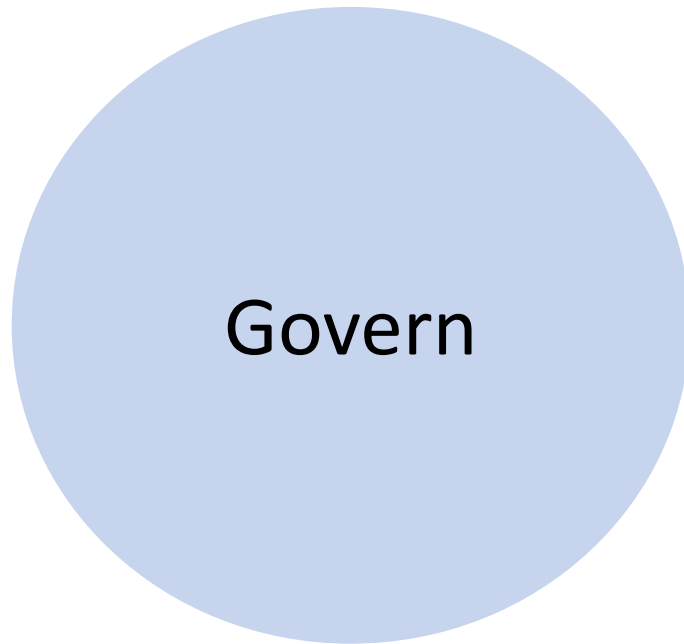
SWAN



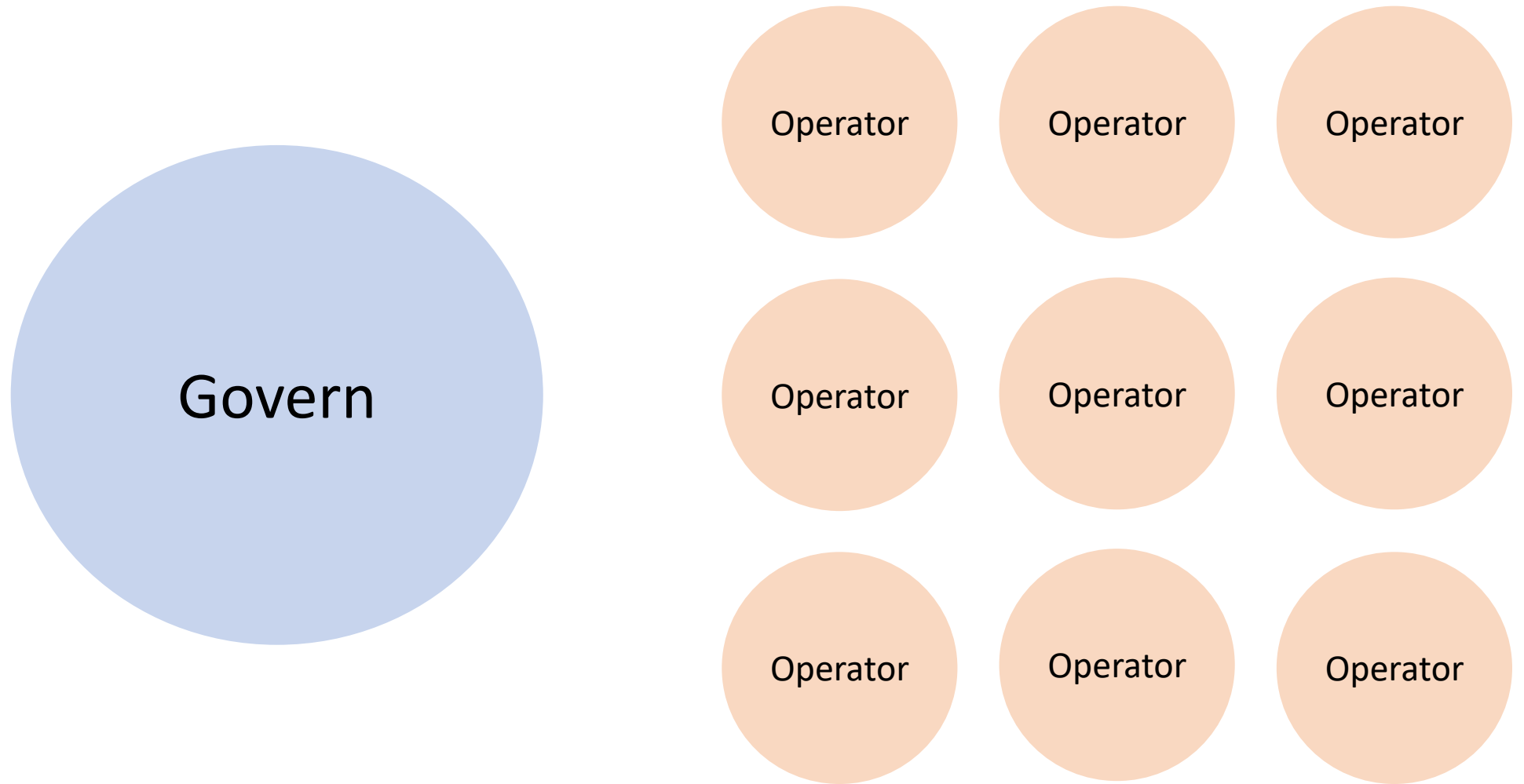
Centralized Solutions



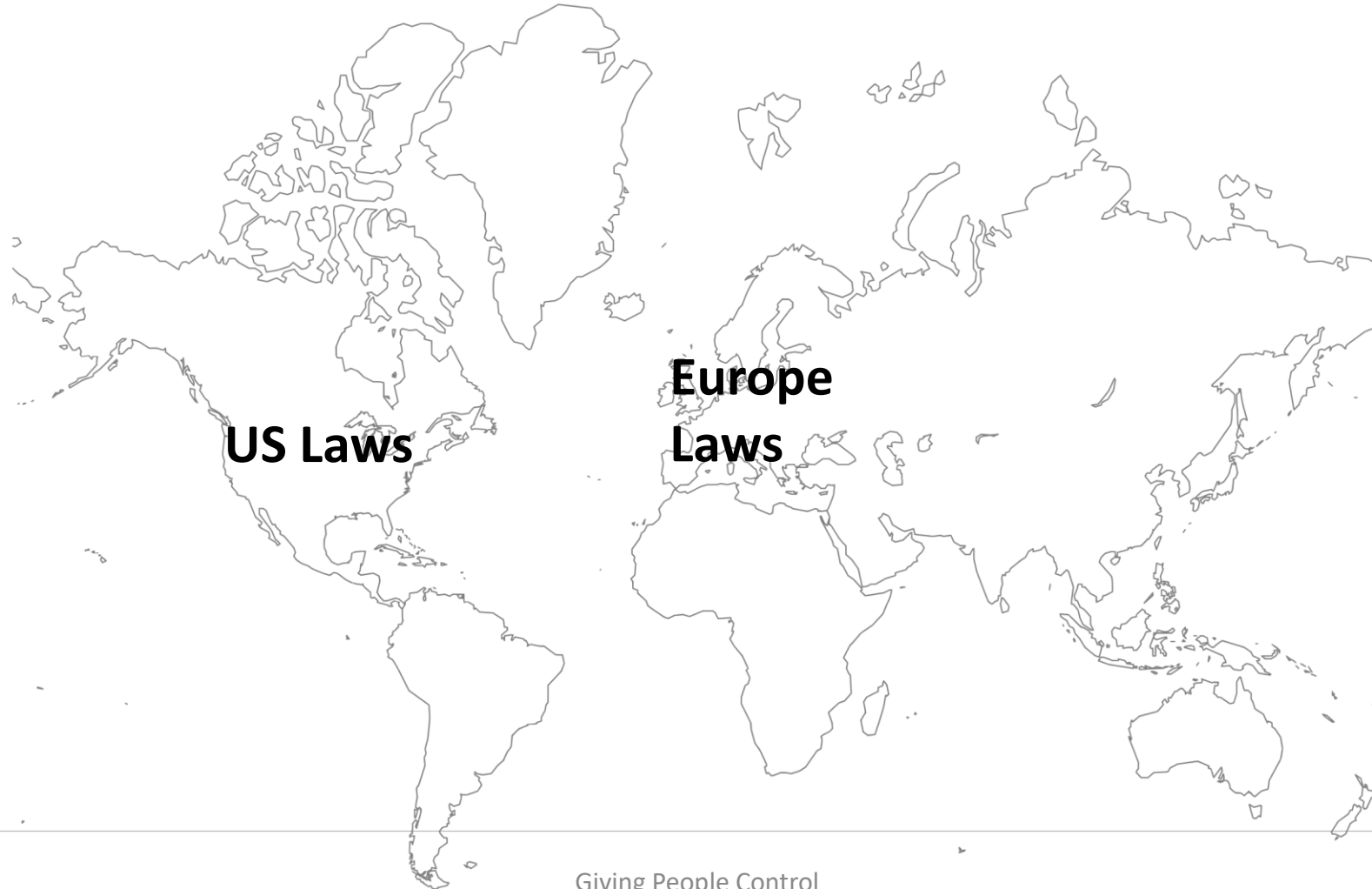
Neutral Solutions



Decentralized Solutions



Regional differences



This is not a new problem





London (Any) - San Francisco (SFO)

1 adult | Economy



Thu, 25 Feb



Thu, 4 Mar



Show whole month

Additional bag fees may apply

Get Price Alerts

699 results

Sort by Best

Stops

Direct
None

1 stop
£488

2+ stops
£490

Flexible tickets

Only show airlines with flexible tickets

COVID-19 safety rating

5/5

4/5

3/5 or below

Departure times

Outbound

00:00 - 23:59

Want to know the latest travel restrictions for United States?

[See travel info](#)

Best

£518

14h 16 (average)

Cheapest

£488

16h 02 (average)

Fastest

£2,219

13h 04 (average)



12:05
LHR

18h 34
1 stop DFW

22:39
SFO

Operated by American Airlines



10:00
SFO

16h
1 stop DFW

10:00⁺¹
LHR

Operated by American Airlines

Flexible ticket

4/5 rating for COVID-19 safety measures

Sponsored

£719

Select →



09:30
LHR

15h 41
1 stop ORD

17:11
SFO

Operated by United



10:45
SFO

12h 50
1 stop ORD

07:35⁺¹
LHR

Giving People Control

1 deal
£518

Select →





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2021 Predictions

2021
Digital Advertising
spend

\$400B*

>

2021
Commercial Aviation
spend

\$287B**

* <https://www.statista.com/outlook/dmo/digital-advertising/worldwide>

** <https://www.statista.com/statistics/263042/worldwide-revenue-with-passengers-in-air-traffic>





Design principles for Common Pool Resource (CPR) institution

1. Clearly defined (clear definition of the contents of the common pool resource and effective exclusion of external un-entitled parties);
2. The appropriation and provision of common resources that are adapted to local conditions;
3. Collective-choice arrangements that allow most resource appropriators to participate in the decision-making process;
4. Effective monitoring by monitors who are part of or accountable to the appropriators;
5. A scale of graduated sanctions for resource appropriators who violate community rules;
6. Mechanisms of conflict resolution that are cheap and of easy access;
7. Self-determination of the community recognized by higher-level authorities; and
8. In the case of larger common-pool resources, organization in the form of multiple layers of nested enterprises, with small local CPRs at the base level.

[Elinor Ostrom - Wikipedia](#)



SWAN – Key features

- Separates operation from administration
- Requires common rules for Operators to follow
 - Data model
 - Quality of service
 - Transparency to people and all stakeholders
- Incentivise price competition among Operators
- Limited administration to extensibility and improvements



Demo time

Follow along at <https://new-pork-limes.uk>

See <https://swan-demo.uk/example.html> for JavaScript code



“A device that automatically accepts/rejects all internet cookies without asking every time.”

Matthew Parris – UK journalist and ‘national treasure’

#28 - [The 31 inventions that Britain really needs](#)





Giving People Control

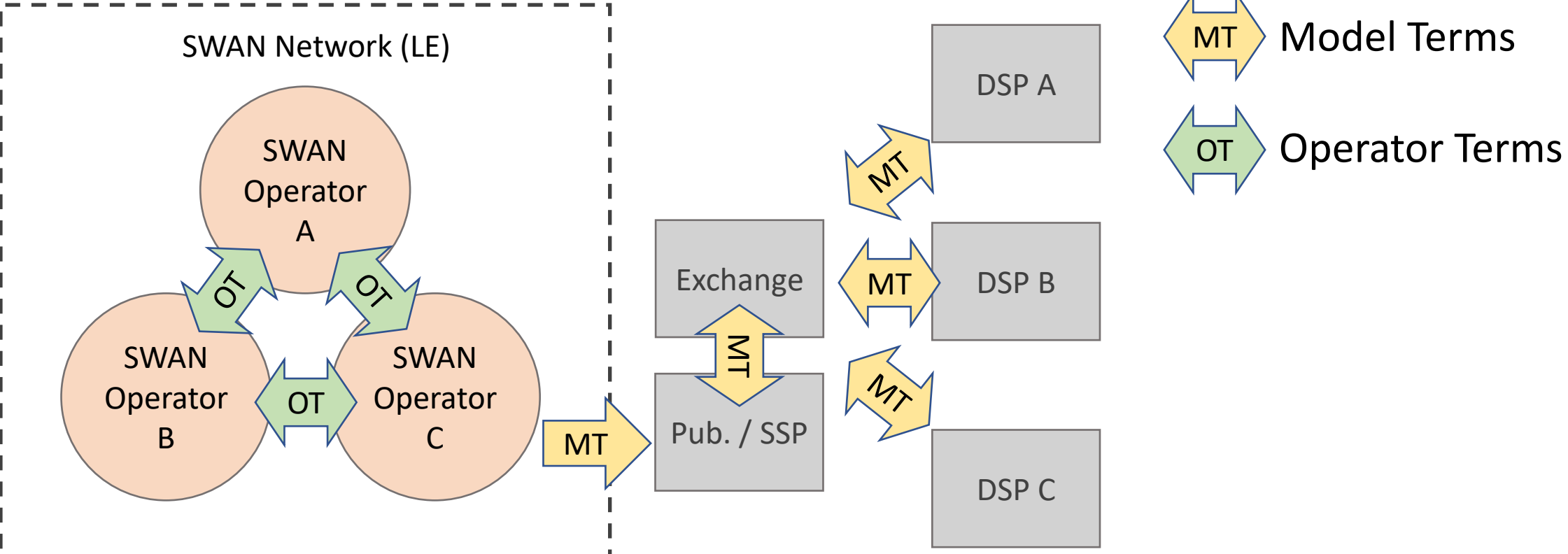


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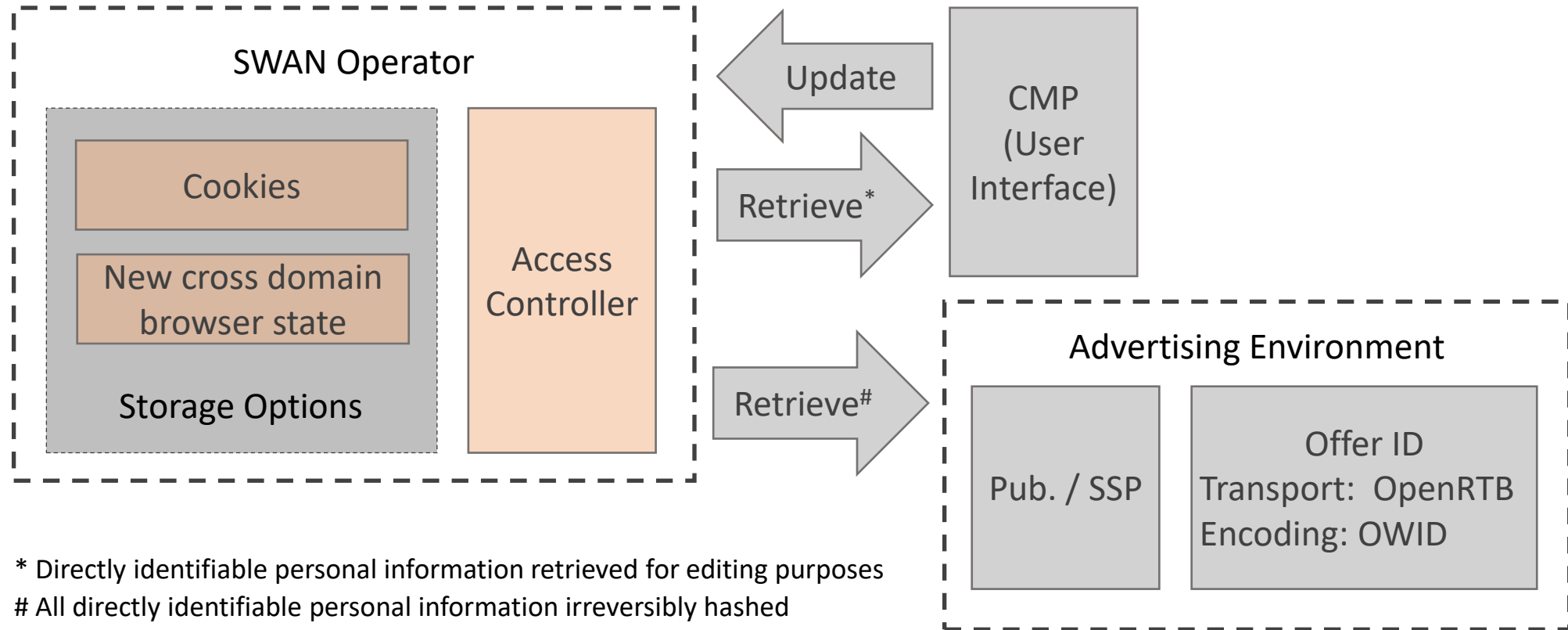
SWAN



Binding Legal Terms



APIs



<https://github.com/swan-community/owid>



SWAN – Key Considerations

- Developed in constant dialogue with major regulators
- Complies with GDPR and ePrivacy principles and law
- Enhances the W3C security and privacy model to recognise data controllers and processors as defined by major law makers
- Route to browser adoption and new standard
- Designed with standards in mind
Cookies [[RFC6265](#)], HTTP temporary redirect [[RFC7231](#)] & HTTP URL [[RFC3986](#)]



SWAN complements other options

Requirements	Data Scale & Reach	Accuracy & Precision	Real Time Feedback	Global Frequency Capping	View-through Attribution	Auditability by Individuals & Regulators	Open Source
SWAN SWID	●	●	●	●	●	●	●
SWAN's scale and cross-publisher optimization makes UID2, Contextual and Publisher 1P data solutions more valuable and actionable.							
UID2.0	◐	◐	●	×	×	●	●
While providing great cross-device recognition capabilities, hashed email solutions lack scale and the ability to offer view-through attribution and lift measurement to marketers.							
Privacy Sandbox	●	◐	×	◐	×	×	×
Privacy Sandbox offers scale, but fails to provide accurate engagement, cross-publisher frequency capping or lift measurement.							
Contextual	●	●	×	×	×	×	×
Contextual provides great engagement capabilities, but does not meet other aspects of campaign optimization from frequency capping to lift measurement.							
Pub 1P Data	◐	◐	×	×	×	×	×
Publisher 1P data provides great engagement, but its value is directly proportional to scale. The lack of cross-site portability not only fragments marketers' media buying, but also does not meet cross-publisher frequency capping or lift measurement.							
Clean Rooms	◐	◐	×	×	◐	×	×
Clean Rooms provide great analytics, but do not provide cross-publisher frequency capping or cross-site optimization.							
Differential Privacy	●	×	×	×	◐	×	×
Differential Privacy can provide scaled analytic solutions, but does not support smaller publishers given the lack of accurate engagement, cross-publisher frequency capping and real-time optimization.							

See <https://swan.community/how-we-compare>



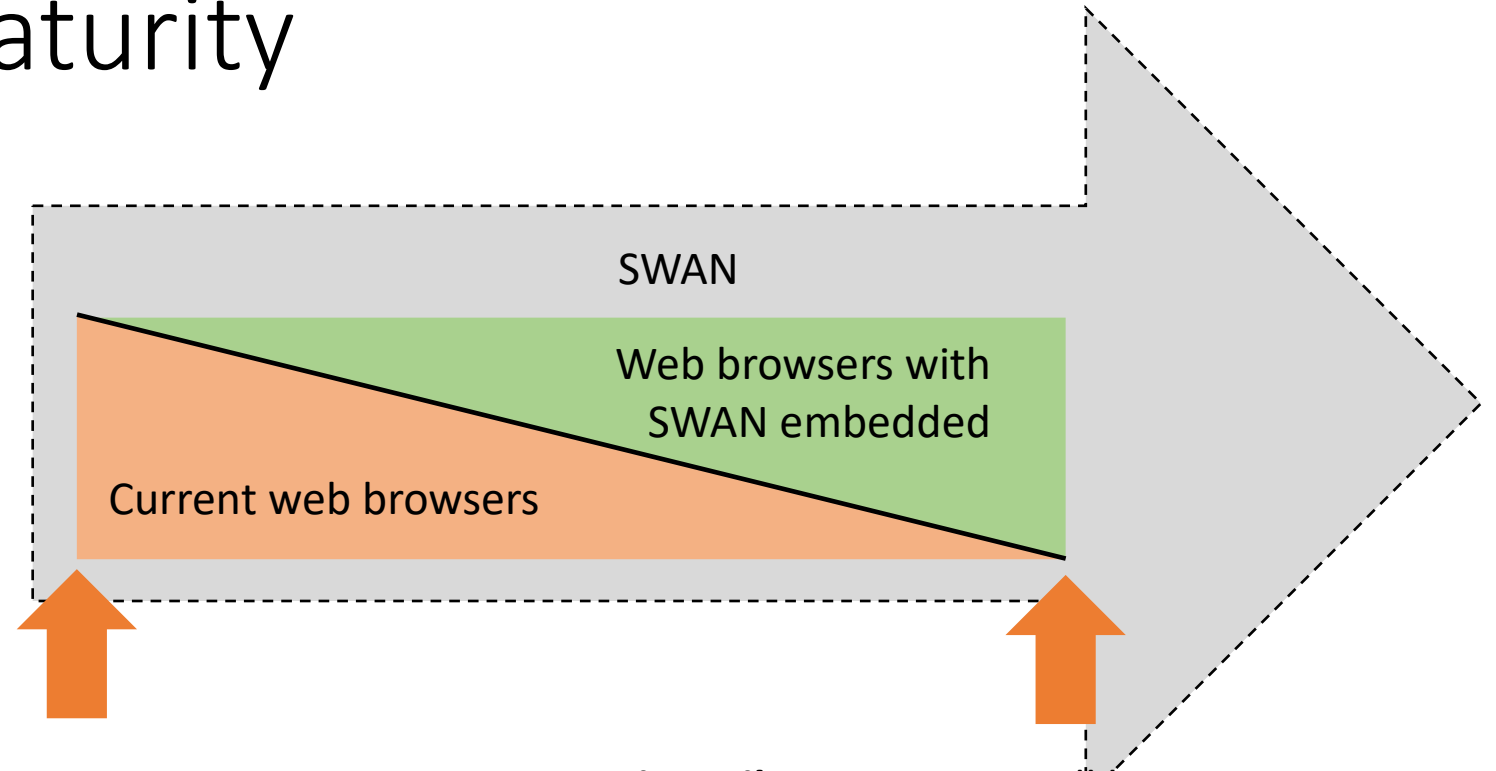
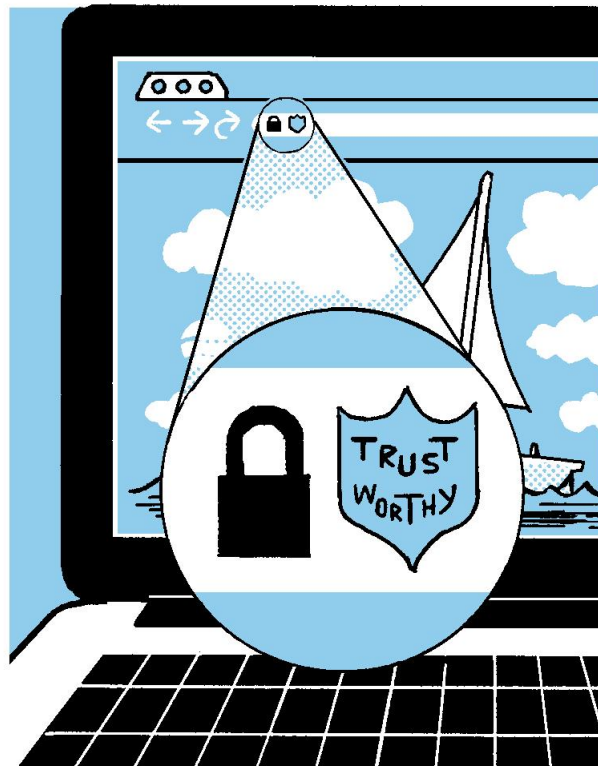
Stakeholders

- People
 - removes consent fatigue
 - builds trust via improved transparency and accountability
- Publishers
 - restore full addressability from day one
 - improved control over experience
- Advertisers
 - get what they pay for & enables detection of publisher fraud
- Web browsers
 - simple solution to address primary problem of privacy and trust



Roadmap to maturity

SWAN



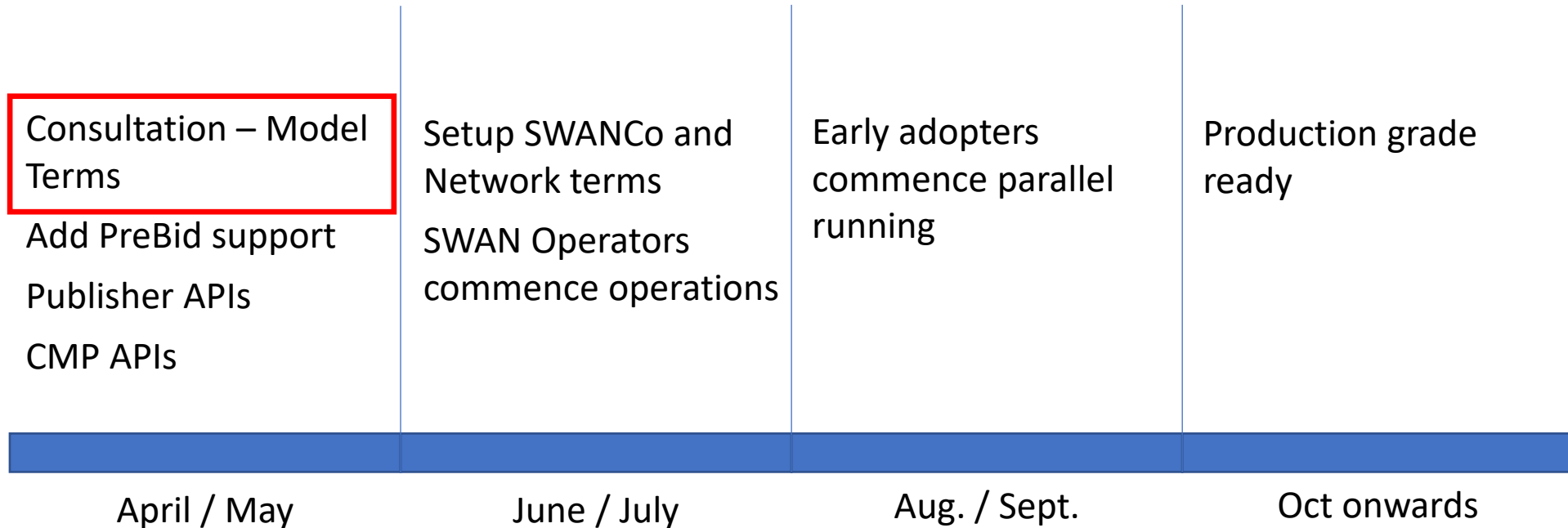
Today – SWAN enabled by first party cookies

Major milestone – once all browsers embed SWAN there will be no need for SWAN Operators.

SWAN Co. continues to govern Model Terms and the browser standard.



Roadmap to launch



No new technology or legal issues – low risk timeframe



Next step

Q&A

1. Support it – SWAN’s presence will alter the debate – add your logo to the demo pages / feedback on Model Terms
2. Work on it – SWAN is 100% open source
3. Do nothing – stay neutral - the easy option
4. Rubbish it (but verify correct understanding first)

