

An update on the Digital Markets Act

FOSDEM 2022

Vittorio Bertola – 5 February 2022





Who am I

Internet engineer and free software activist since 1995

Also experience in startups, Internet policy, politics

Loves Perl but doesn't sleep with it any more

Involved in Internet governance since ages

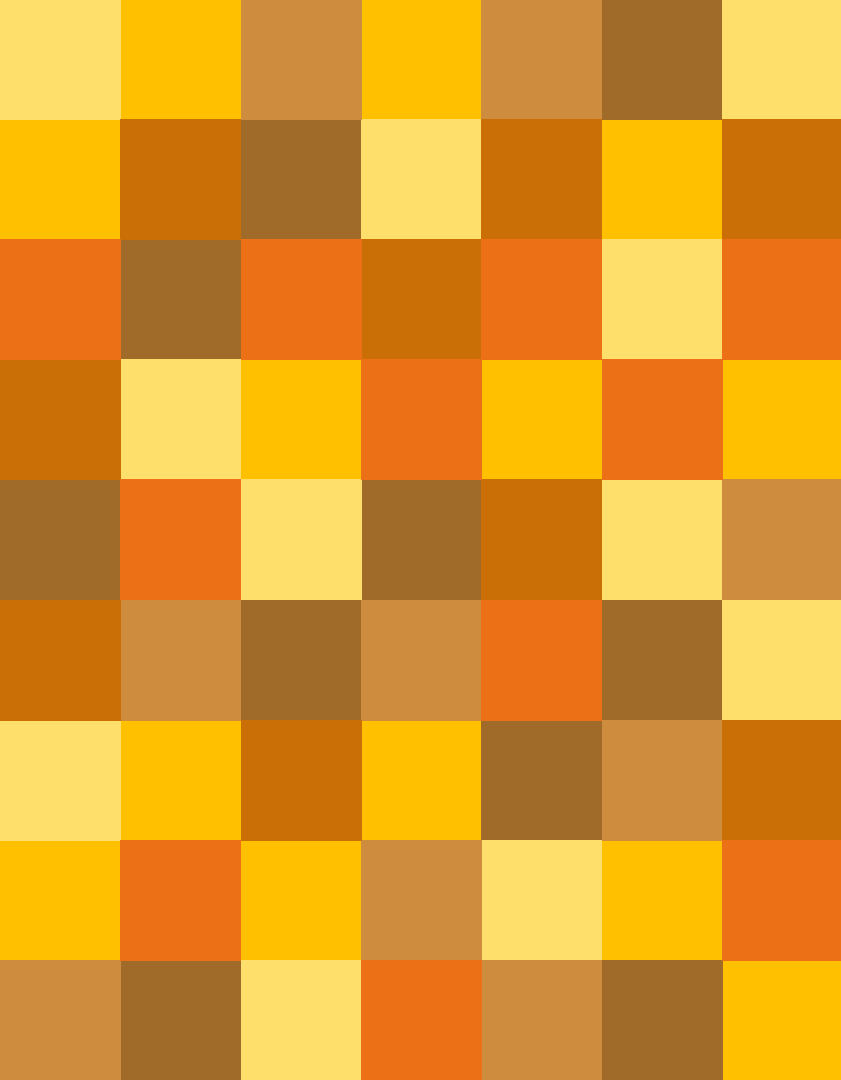
Currently head of policy at **Open-Xchange**



German open source software company

Maker of





1.

Still checked into
the Hotel California



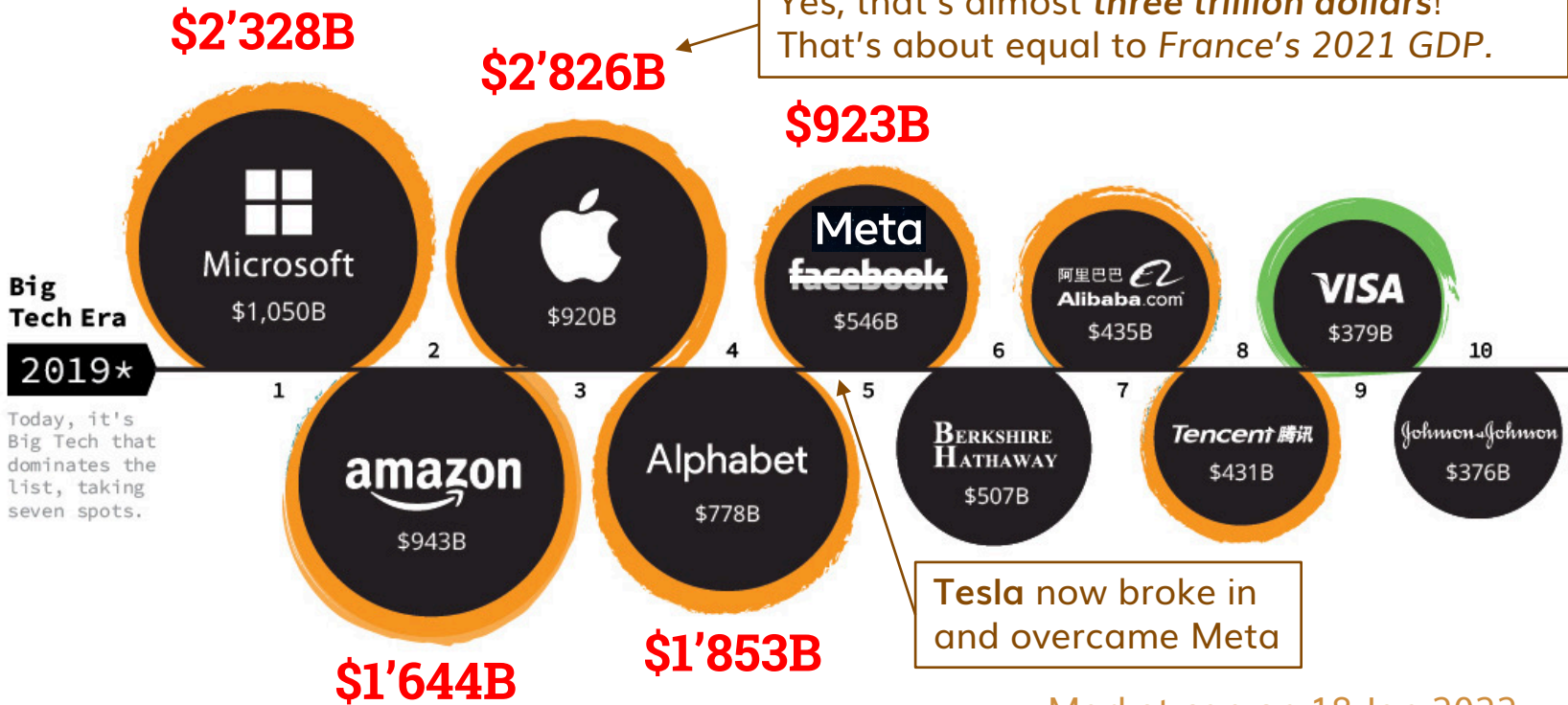
1. Platform
2. Silo
3. Lock-In
4. Trojan Horse
5. Control
6. One-stop
7. Over-the-top
8. Closed

...you can check out any time you like,
but you can never leave!

Monopoly Records

Hotel California

Yes, that's almost *three trillion dollars!*
That's about equal to *France's 2021 GDP.*



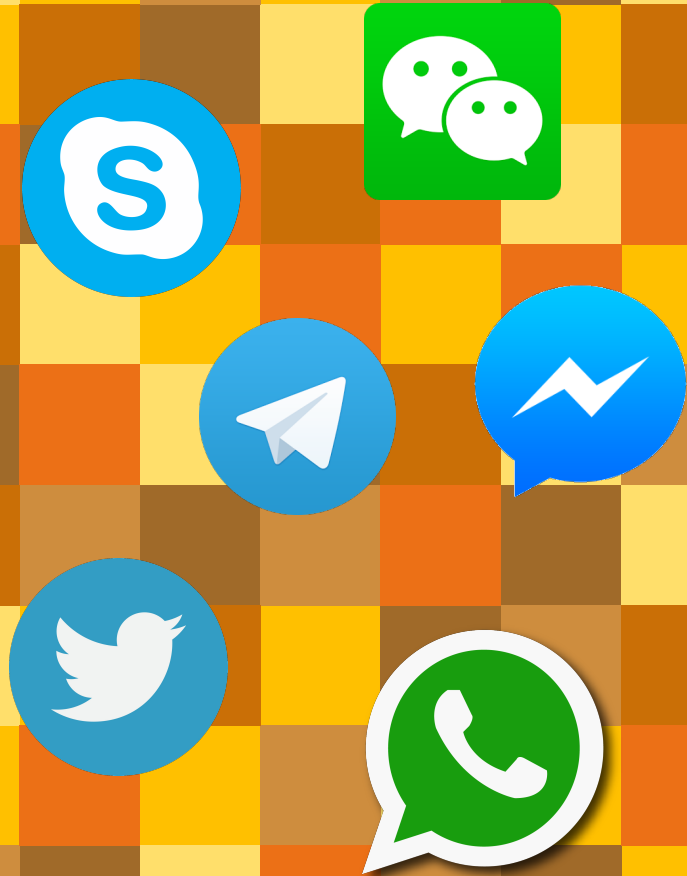
Tesla now broke in
and overcame Meta

Market cap on 18 Jan 2022

Big
Tech Era

2019*

Today, it's
Big Tech that
dominates the
list, taking
seven spots.



Siloed services: Instant messaging

Each IM service is a walled garden

You cannot communicate with users of other IM services – you need an account on each service

If you move, you lose your contacts and history – you are locked in

Only a few IM services can exist – you cannot compete or run yours

Either standards are closed, or deployments are closed

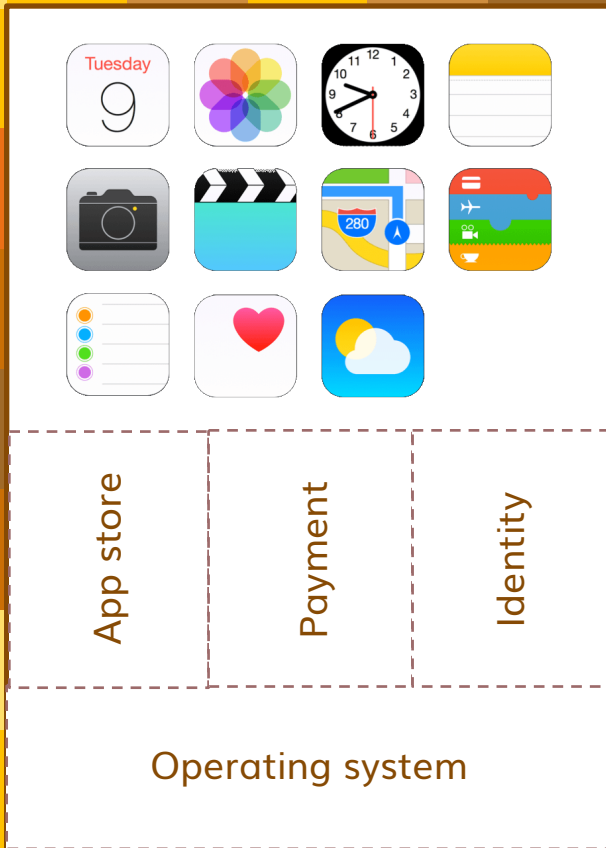
Bundled services: Mobile OS and apps

Bundling: The platform merges services and applications together

Pre-installation: All the apps come pre-installed with the OS

Defaults: The system will by default use or suggest the platform's own version of the service

Integration: The platform's version has better access to the system and works better



I am free and open
for everyone –
except for *Huawei!*



ANDROID



Social

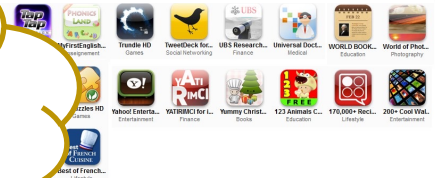


Your app must
use my payment
system – and
give me 30%!



iOS

I will buy out any
startup that could
ever *challenge me!*





2.

Apple's App Hotel –
the only one in the
country

App stores: a bundle within the bundles

Apple's App Store bundles together numerous functions

Some of them do not really belong there

Bundling them has technical, social and human rights implications – it should not be judged on competition merits only

But it still has deep competition consequences

Editorial content

App database

Installation and update

App analysis and scrutiny

App subscription products

Payments

Why do we have mobile app stores?

We never really had app stores on computers

In some cases we have package managers

- They never asked for money

- They never prevented installing applications through other channels

- They never prevented installing applications that didn't have their approval

Nobody would say that computer programs are less secure, private, successful or innovative because of the lack of monopolistic app stores

What is the «Apple tax» for?

Editorial content

App database

Installation and update

App analysis and scrutiny

App subscription products

Payments

For using the payment system?

30% is exorbitant

Why can't users/apps choose a more effective provider?

For the cost of app scrutiny?

Nobody ever asked for it

Why can't users/apps choose a more effective provider?

As a royalty to the device maker?

Computers never worked this way



3.

All your base
are belong to us
(encrypted)

Encryption is a good thing

*You should encrypt
your communications*

*State-run backdoors in encryption
are a bad idea*



*Is this really only about
privacy and freedom?*

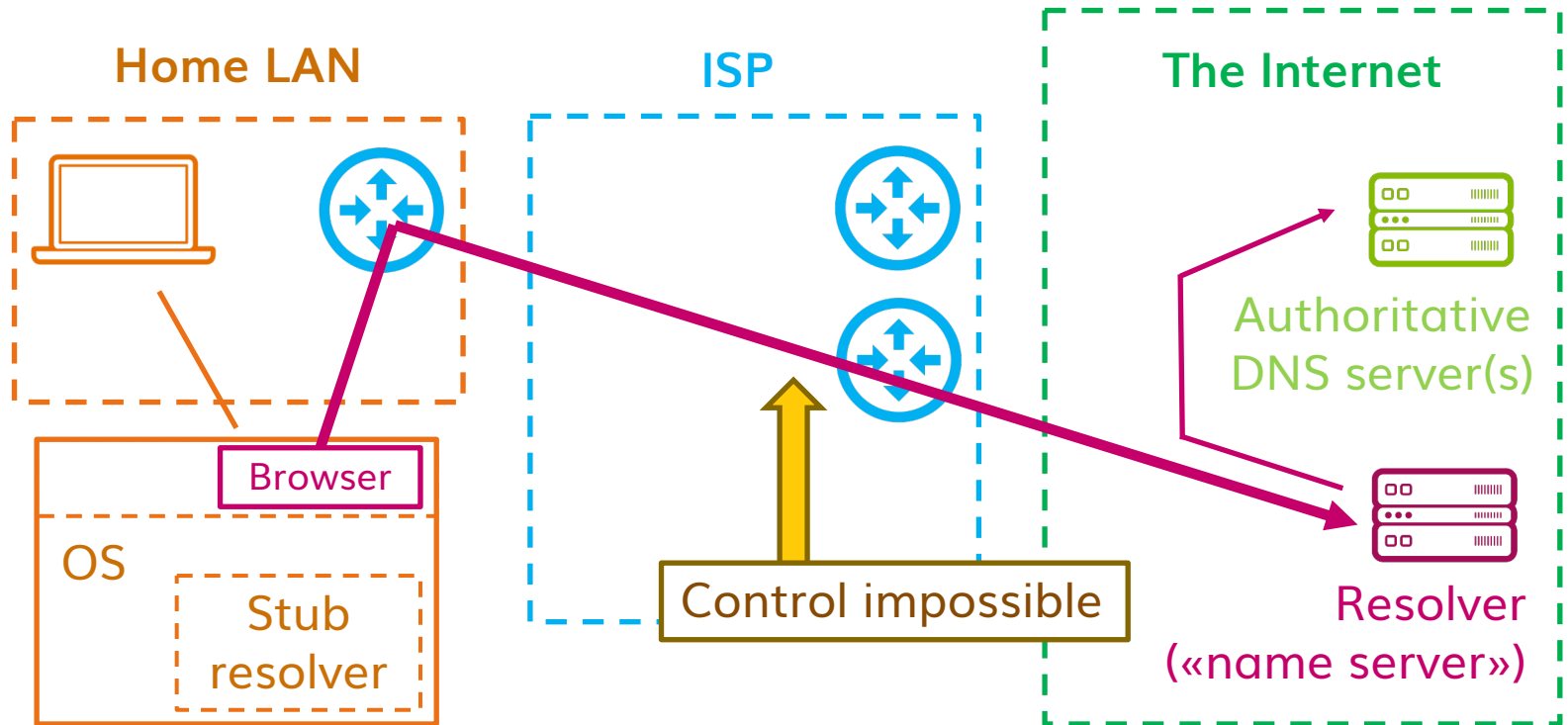
The Internet of other people's things

We are filling our homes with devices that send back encrypted data all the time

We have no control over what they send

Even if there are laws to protect us, it is increasingly impossible to enforce them

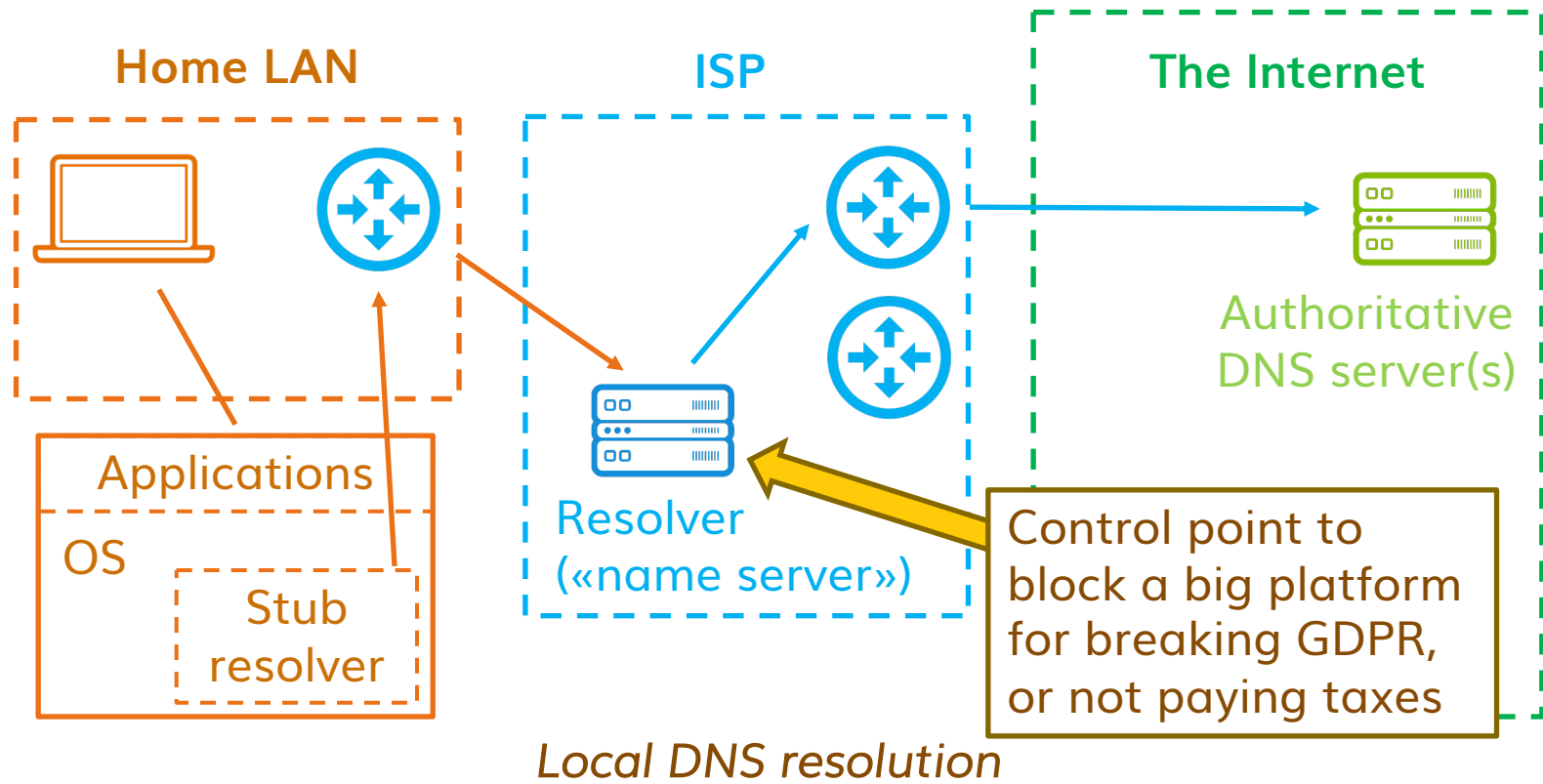


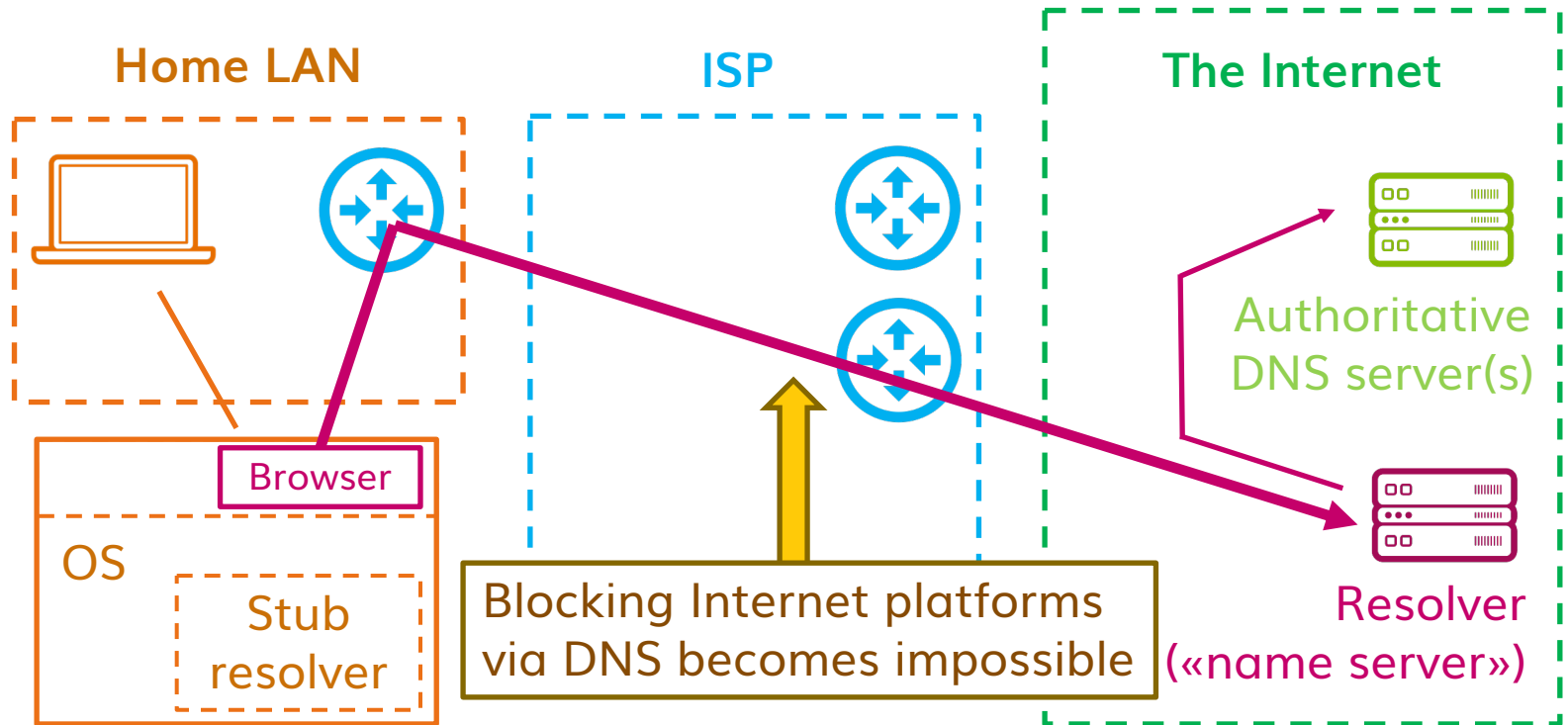


Remote DNS-over-HTTPS resolution

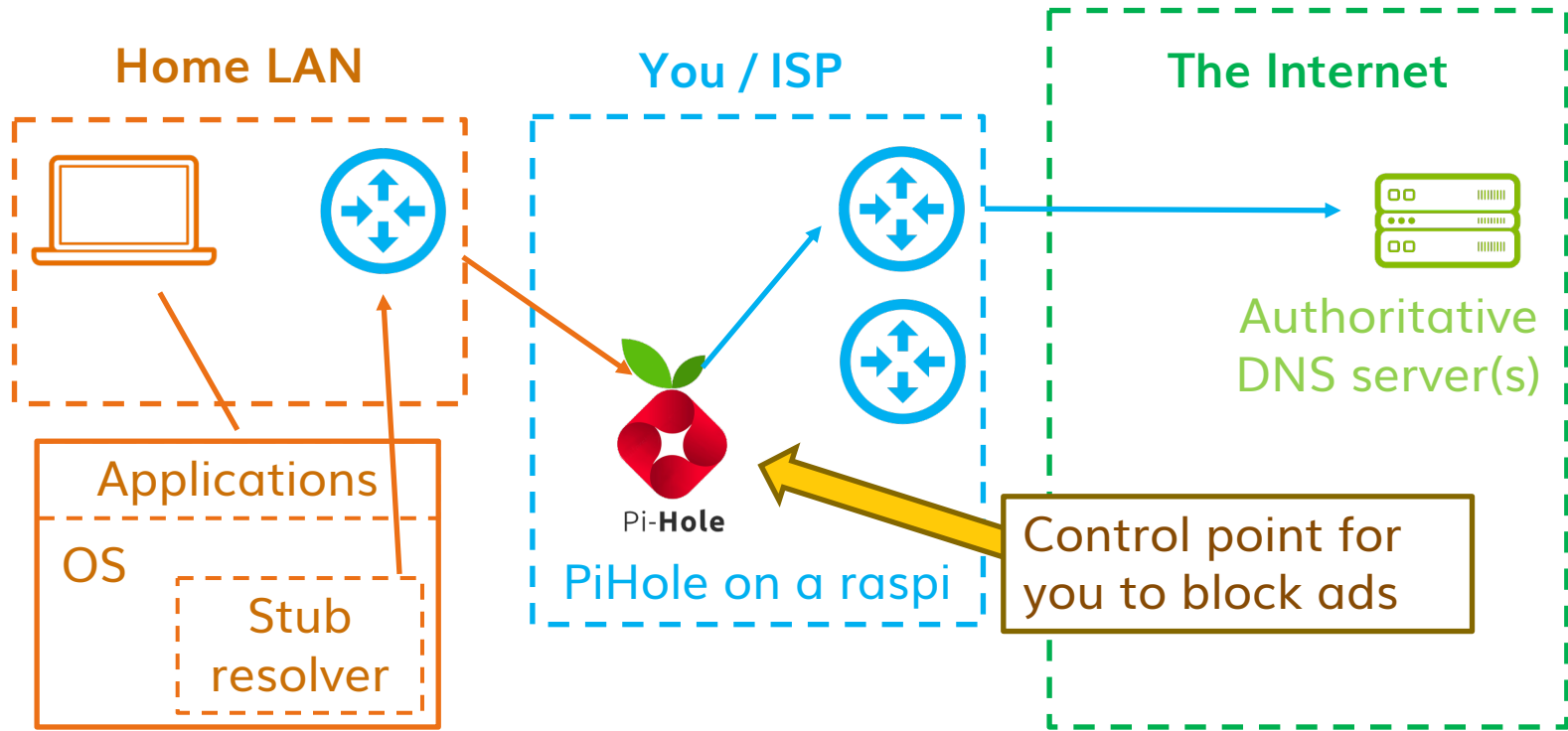
Europe likes DNS filters

1. Blocking malware and phishing
2. Detecting active botnets
3. Providing parental controls
4. Blocking child sexual abuse material
5. Blocking fixed gambling websites, counterfeit shops, illegal pharmacies...

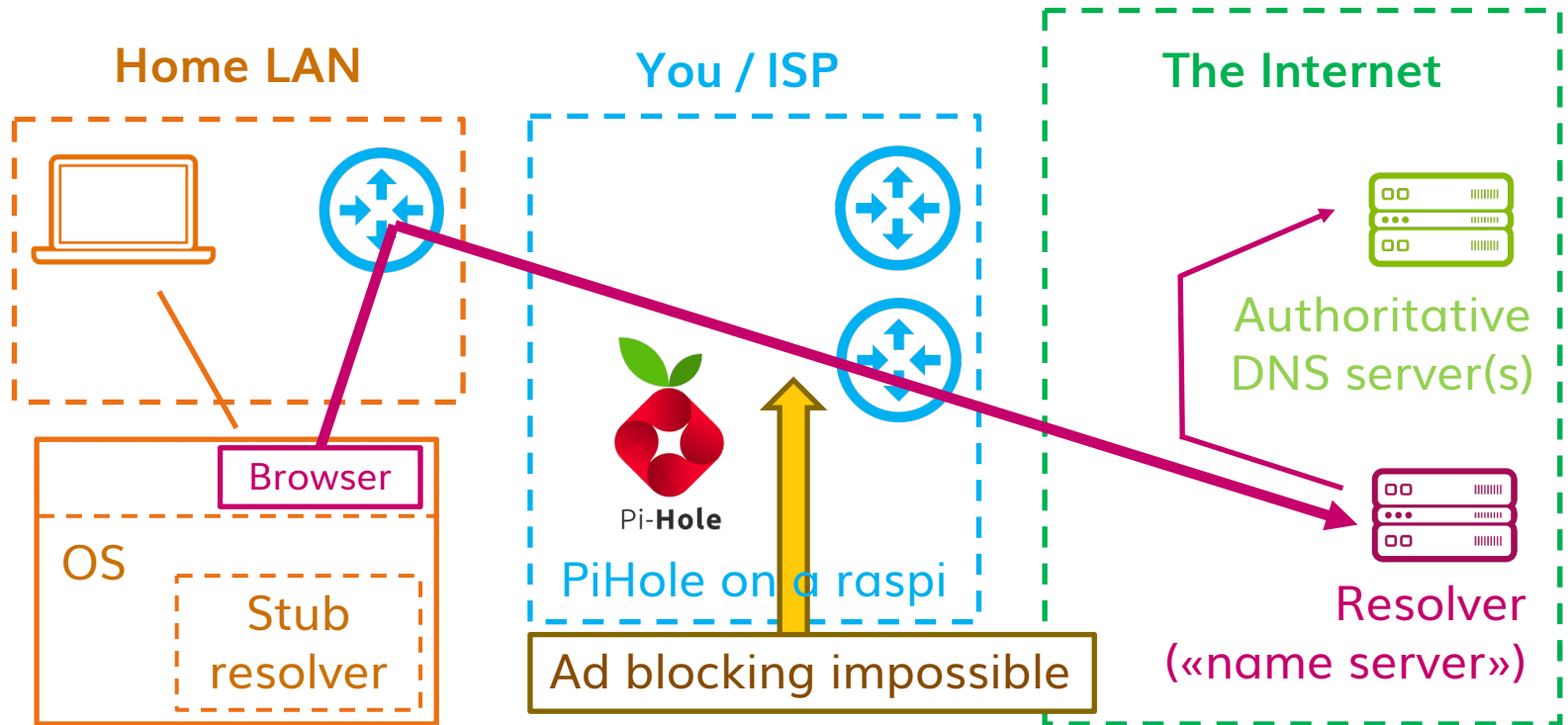




Remote DNS-over-HTTPS resolution



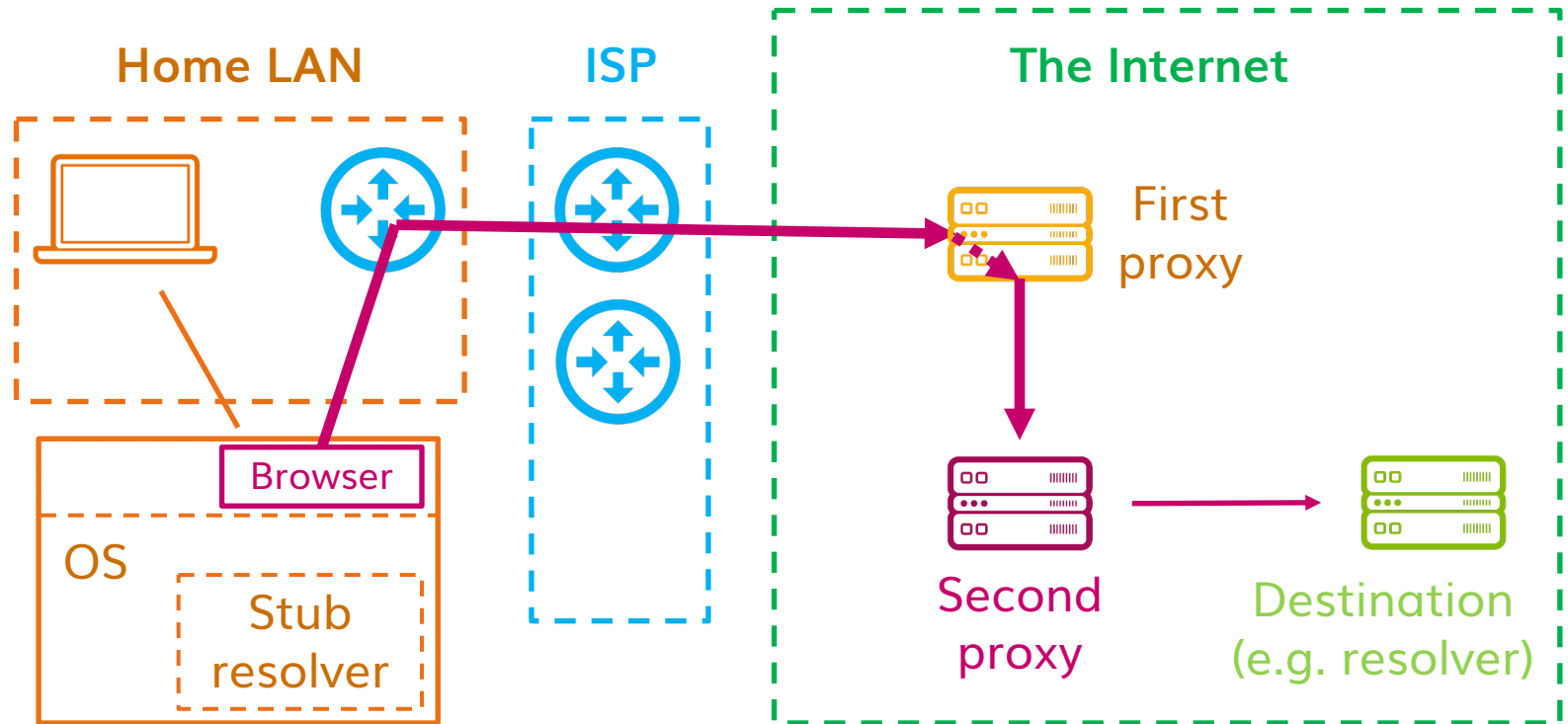
Local DNS resolution



Remote DNS-over-HTTPS resolution

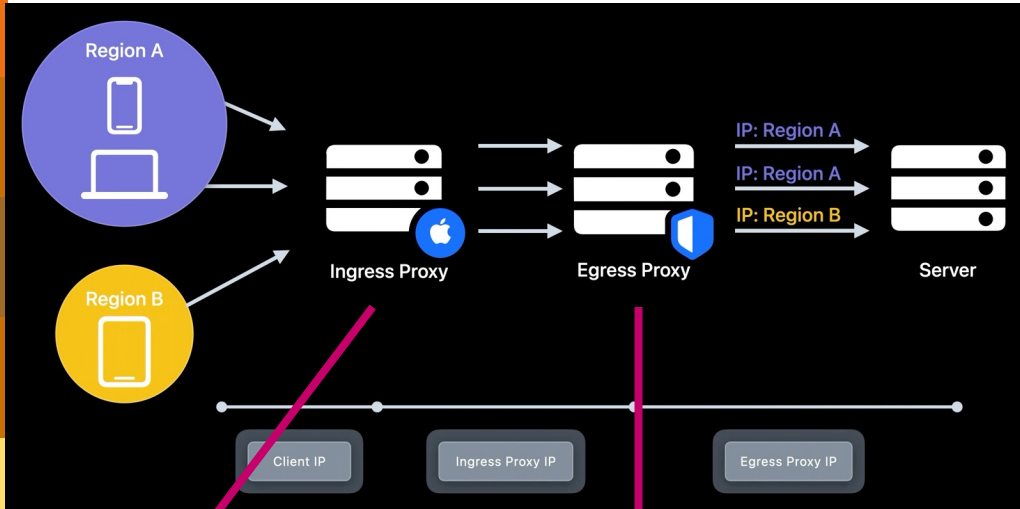
A decorative border composed of a grid of squares in various shades of yellow, orange, and brown, surrounding a central white text box.

*Plus, all traffic now
becomes centralised in
fewer, bigger global service
providers in the cloud*



The «oblivious» connection model

Apple's iOS 15 implementation



Apple

Cloudflare, Fastly, Akamai...

Second proxy provided by private CDN operators under contract with Apple

Not on by default (yet)

A double-edged sword

Pros

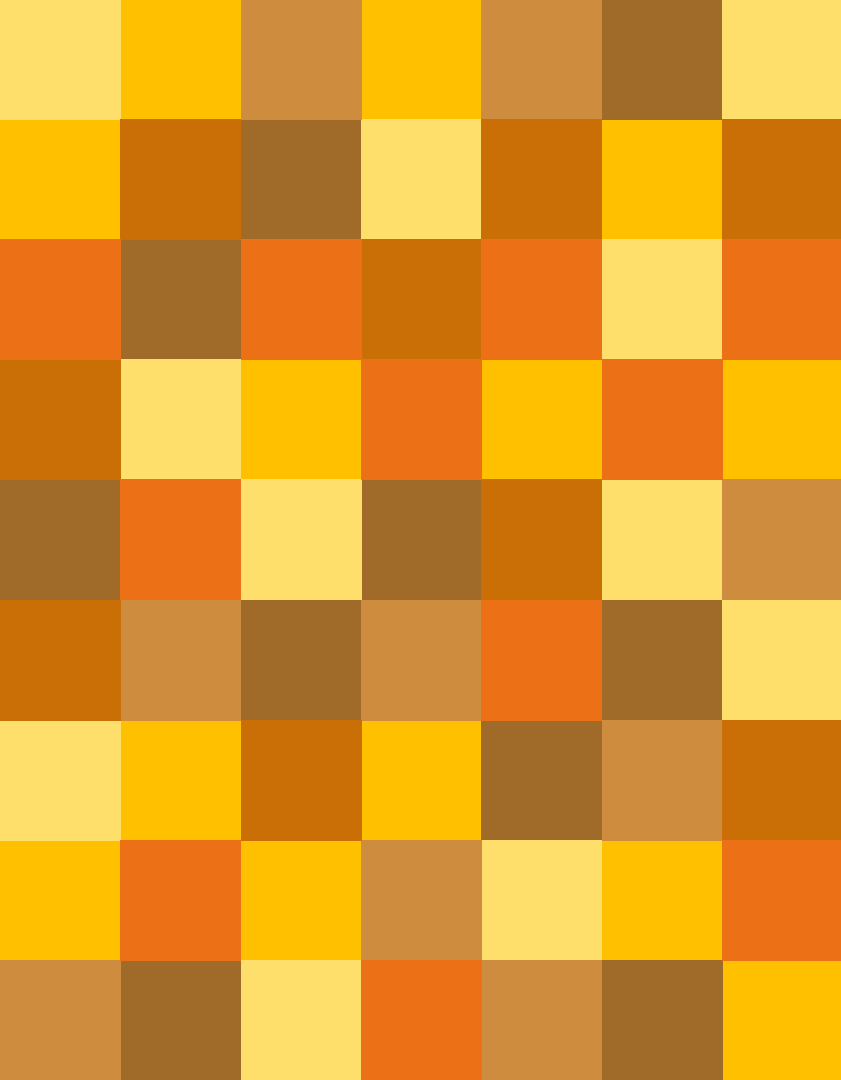
- It prevents your ISP and your government from tracking or blocking you
- It reduces what websites see about you
- It offers you an in-built VPN

Cons

- You can't choose your proxy operators
- Now all your Internet traffic goes through Apple
- Who guarantees that Apple and their supplier will never cross-match your metadata?



*Encryption really is
about control*



4.

(Europe) Still running
for the door

In the meantime, please give us money



France: €150M Google, €60M
Facebook for cookies

Italy: €10M Google, €10M
Apple for lack of user info

Italy: €120M Google for Auto

Italy: €1.2B(!) Amazon for
anticompetitive practices

Even San Marino fined
Facebook for €4M
(120€ per citizen)

Still coming soon (hopefully)

1. Digital Services Act

- Rules and liability on content
- Accountability in advertising and in moderation

2. Digital Markets Act

- New competition tool
- Blacklist of business practices
- Interoperability requirements

3. Data Governance Act

- Rules for open access to public data

Maybe coming soon (hopefully)

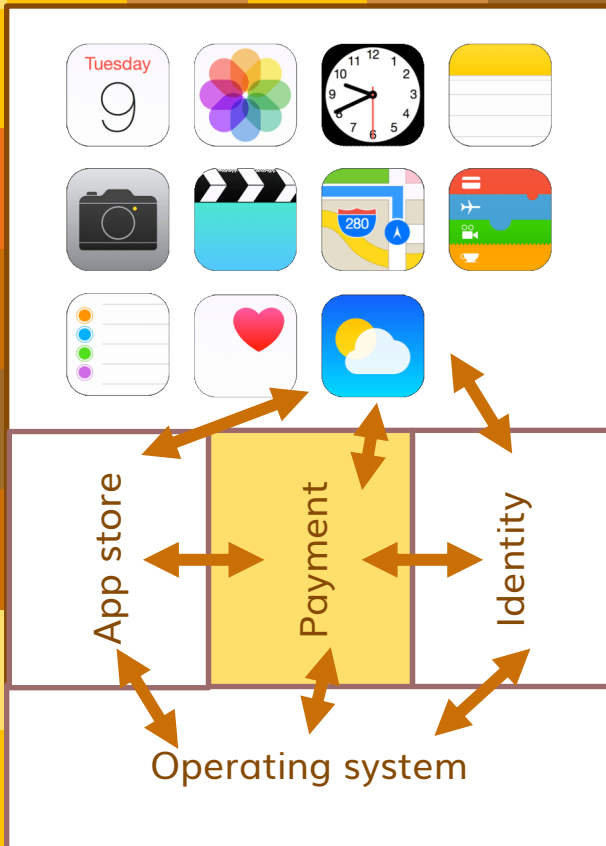
4. Computer Chips Act
 - Promote European chip factories
5. Minimum Corporate Tax Directive
 - Reduce profit offshoring
6. eIDAS Regulation Revision
 - Open public identities (maybe)
7. GAIA-X
 - Common cloud standards for portability
 - Common data ontologies for interaction

The remedy: interoperability

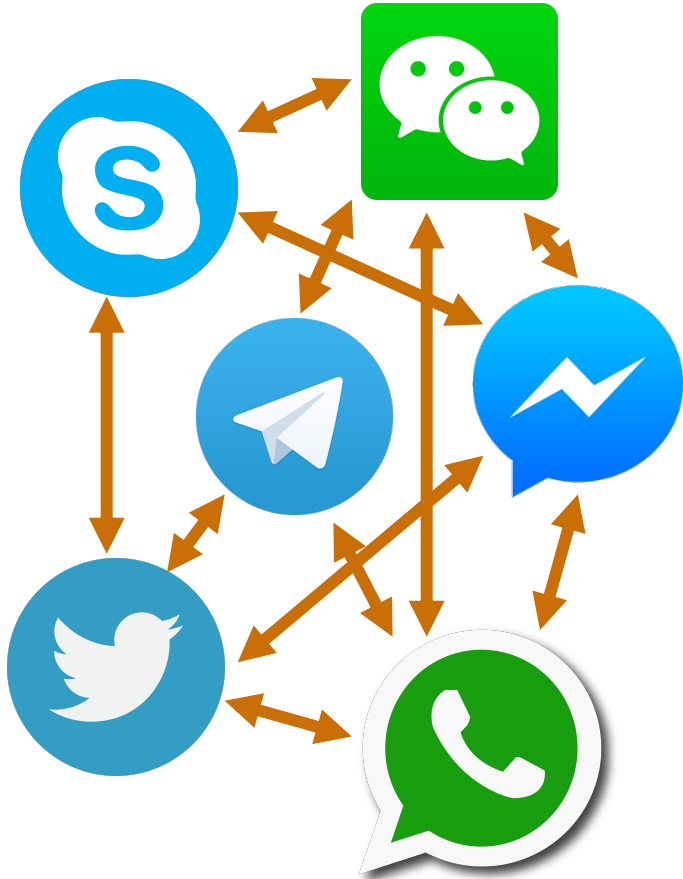
Let's get back to the original Internet principles

If modules are separated and their interfaces are standardized, then it is possible to replace individual modules seamlessly with competing implementations

You also have to ensure that replacing modules is not made hard for the user (pre-installation, defaults, dark patterns...)



Interoperable apps



Dominant platforms should be required to interoperate with competitors

Users could choose any app and service provider and interact with users of all apps

New entrants would have a chance to succeed

This would enable more competition and promote private, user-friendly services

Digital Markets Act



The Commission's proposal was widely discussed

The Parliament approved it on 15.12 with 229 *amendments*

Trialogues ongoing to reconcile EP, EC and Council versions

French presidency pushing

Could be finally approved mid 2022

Digital Markets Act



Aimed at [business] users of specific platform services

Affects global «gatekeeper» online platforms

- ❑ Over ~~6.5~~ 8B€ turnover
- ❑ At least 3 EU countries
- ❑ Over 45M consumers
- ❑ Over 10k business users

New anti-trust instrument for non-traditional dominant positions

Digital Markets Act

Covered services:

- Marketplaces
- Search engines
- Social media
- Video sharing
- Instant messaging
- Operating systems
- Cloud computing
- Advertising by the above
- Browsers*
- Voice assistants*
- Smart TVs*



Digital Markets Act's no-no's

(Art. 5)

1. Forced data integration across services
2. Exclusivity/best price clauses
3. Mandatory bundling of services
4. Clauses against public recourse
5. Mandatory use of own identity system
6. Intransparent advertising pricing

The DMA's anti-bundling clauses

(as of mid December 2021 – Text approved by the Parliament)

Art. 5.1(f) – Must allow business users to use only one of their services without the others

Art. 5.1(gb) – *Must prompt end-users to choose from a list at installation; must not prevent uninstallation of own apps*

The DMA's interoperability clauses

(as of mid December 2021 – Text approved by the Parliament)

Art. 6.1(f) – Equal access to OS features; interoperability for ancillary services for business users (payments, identification, delivery, ads...)

Art. 6.1(fa) – Interoperability for instant messengers

Art. 6.1(fb) – Interoperability for social media

Art. 6.1(h) – Real-time data portability

Concerns around interoperability

The institution's concerns

Is there actual industry demand for IM/social interop?

Will this reduce privacy by scattering personal data everywhere?

The community's concerns

Who will pick the interop features and the technical standards?

Will interop be open to any interested party and at which conditions?

Should we push interop for other core services?

Many open questions

Different technical models

Should each gatekeeper expose their own API (and control it)?

Should everybody adopt a neutral, open standard?

Different business models

Will we be offered «interop-as-a-(paid)-service»?



Slack + Microsoft Teams + Webex News

**Zoom & Cisco Embrace Chat
Interoperability With \$8.7
Million Investment In Mio**

Thanks!

Any questions?

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